

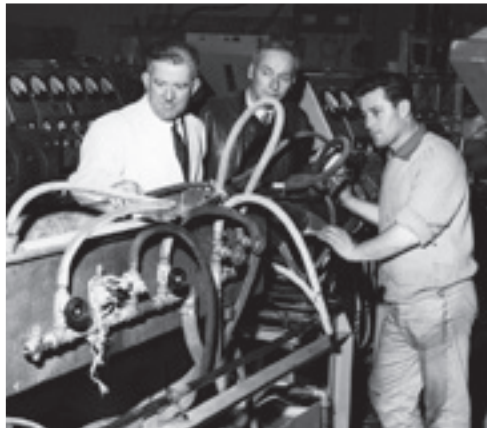


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Wavin Ireland Trade Price List January 2018

Above and Below Ground Systems

Guaranteed
Irish



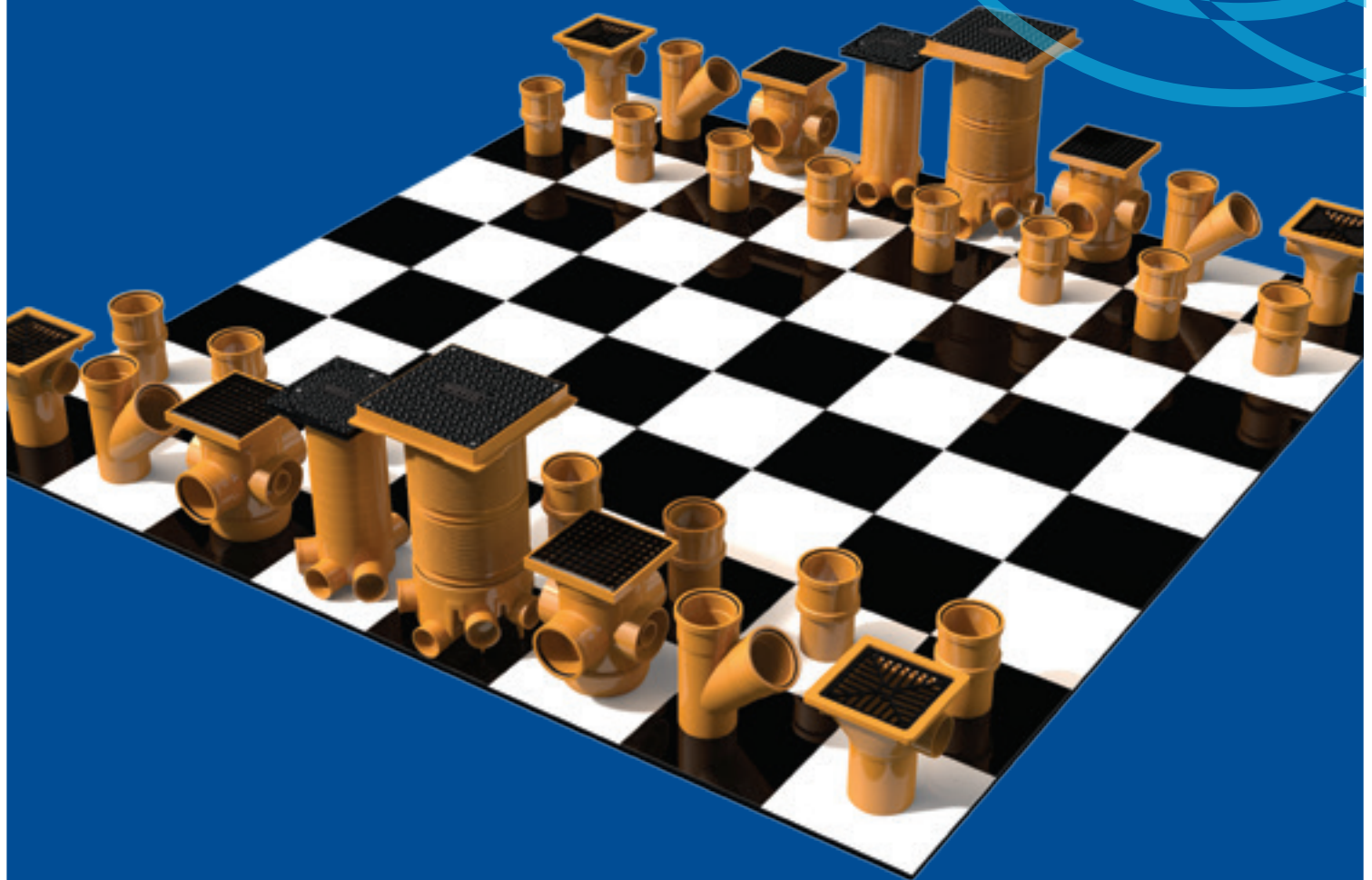
Above and Below Ground Systems

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CHECKMATE!



CHECK IT'S WAVIN

For quality across the board, its got to be Wavin pipes and fittings. Why get pawned off with second best? Each piece is precision made to the highest specification for total reliability. So check it's Wavin! Your move.

For product information contact: Wavin Ireland, Balbriggan, Co. Dublin. Tel: 01-8020200

www.wavin.ie

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Tel: 01 8020202 | www.wavin.ie | ie.info@wavin.com



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Dear Customer,

I appreciate that it's somewhat unusual to have an introduction to a Trade Price List, but 2018 is a big year for Wavin Ireland and not just because we plan to strengthen and grow our market-leading position on the island, but because we're 60 years manufacturing in Ireland and that in itself is worth a few words to mark the occasion.

60 years in business is a major milestone and a landmark worth noting and spending some time to celebrate. Even though I'm 10 years in the business, I'm still a relative newcomer in this industry compared to some of my colleagues and predecessors in Wavin who have passed on the baton. If I cast my mind back to 2008 when I joined, we were 50 years old but the landscape then was very different as Ireland and the industry were plummeting into the abyss of what was to be the worst recession in modern history. Thankfully we survived it but not without significant restructuring and cost reduction which many of you experienced in your businesses. The market today is much improved and the sun is once again shining on our industry which is at the very core of the fabric of Ireland. We can be forgiven therefore for not celebrating our 50th given the timing, but not our 60th.

The lessons I learnt from that period were to truly value you, our customers, and your business, and the relationships I've built up with many of you through the years. Ours really is a people business with relationships being key to enabling the transactional side of buying and selling our range of products. When I think about people in Wavin, my thoughts go immediately to people like Joe Harlin, our Business Development Manager, who is due to retire this year after 46 amazing years' service. Internal people like Noel Dunne in Planning who has a similar accolade and Fergal McGeough, our Site Operations Manager, who is only a nipper with 37 years' service. New blood is vital to any business and thankfully there has been a reinvestment in people in recent years which many of you have seen through the Field Sales Team but also internally right across the business. We also plan to reshape our business and better position us for the future with investment in the site which we are presently finalising, which will give you the added assurance and reliability that Wavin is the right business partner for you going forward.

Back to 2018 and our 60th: we plan to mark the occasion with a large trade promotion and some events which I'd ask you to support us with and also to join with us in our celebrations. For this edition of the Trade Price List we've done something a little different, sharing with you some of our long heritage and history.

Thank you for your valued support and custom which is the cornerstone of our success and I hope our partnership together continues to grow and develop into the future.

Regards,

Michael O'Donohoe

Country Director - Ireland



Wavin pipes are made from
8200S PVC
supplied by
BP Chemicals International

"BP-in-drum" and "Breon" are trade marks of
The British Petroleum Company Limited



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Contractor

Because it's lighter,
Wavin water and
sewerage pipe reduces
overall laying costs by
20%. Wavin needs far
fewer joints, needs no
concrete bedding.

Worker

Again, because it's
lighter, Wavin PVC is the
easy pipe to work with.
One man can carry a
20 ft. 'Wavinewer' of
10" diameter — with one
hand! Speeds laying
time. Cuts laying costs.

Taxpayer

Indirectly, Wavin helps
lighten your load too,
by exporting more
than 50% of Irish-
made PVC pipe to world
markets — thus con-
tributing to our balance
of payments as well
as providing good
jobs for over 300
workers here at home.

Ratepayer

In these days of soaring
costs, isn't it nice to
know that someone is
reducing costs? That's
Wavin—whose water and
sewerage pipe can save
your community up to
20% in laying costs alone.

Farmer

'Wavinflow' land drainage
pipe drains your land
(without draining your
money on heavy haulage
and time-consuming
installation.) It comes in
20 ft. lengths and you
can carry up to 400 ft.
with ease.

Farmer's Wife

Thanks to the Wavin
Group Water Scheme,
thousands of farm homes
now enjoy a piped water
supply. With constant
water on tap for domestic
and farm use. All it takes
is a little co-operation
to get the Wavin Group
Water Scheme, with
Grant aid.

What's in wavin for you? Plenty.

Contact Wavin Pipes Limited, Balbriggan, Co. Dublin
for full facts on heavy duty, lightweight Wavin PVC pipe
for Water, Sewerage, Land Drainage,
or Group Water Schemes.

Wavin Ireland Ltd | Balbriggan | Co Dublin | K32 K840
Tel: 01 8020202 | www.wavin.ie | ie.info@wavin.com



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Meet the Sales Team



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Wavin Ireland – 60 years of success in Ireland

The beginning of Wavin

Wavin's story begins in the 1950's in Zwolle, the Netherlands, where company founder Johan Keller was director of WMO, the local water utility. Supplying a largely rural district and a few urban centres, the company's water supply reached its customers through a large network of mostly iron pipes.

WMO found itself battling against serious pipe corrosion and a significant loss of water; supplies of drinking water were passing through iron pipes that were corroding and leaking. Keller began looking into tailor-made plastic pipes for the supply of drinking water as a solution. He set up a small workshop in Zwolle and succeeded in developing and producing the first plastic pressure pipes for potable water. With growing interest both nationally and internationally WMO created an independent company to focus solely on pipe production. In August 1955, Wavin (a contraction of the words **W**ater and **V**INyl) was founded.

Wavin initially started out with one office and 52 employees, today Wavin is a global leader in the supply of plastic pipe systems and solutions for both above and below ground applications in projects around the world with a presence in more than 25 countries and employing approximately 5000 people.

Since the 1950's, Wavin have built an unrivalled reputation for continuous innovation, intelligent problem-solving, dedicated technical support and the highest standards.

Beyond Europe, Wavin is a subsidiary of Mexichem, a global leader in plastic piping and one of the world's largest chemical and petrochemical companies.



Loading Wavin Pipe at Cian Park, Drumcondra for export to UK, 1960

Wavin Ireland

Wavin Ireland was one of the first subsidiaries outside of Holland, it was founded by David McIlvenna and Tom McMahon in 1958. The two entrepreneurs had become aware of the production of PVC pipes and fittings by Wavin in the Netherlands. With the support of the Irish Government they quickly established a manufacturing facility and Wavin Pipes was formed. The venture had a strong backing from the IDA and then then Minister for Industry & Commerce, Sean Lemass.



Opening Balbriggan Site June 1962

The Early Years

Wavin Ireland began life in a small industrial unit in Cian Park Drumcondra in 1958 employing just 20 people. In the mid 1950's Armagh County Council became the first local authority anywhere on the island to use Wavin pipes and this business quickly expanded nationwide to Local Authorities, Group Water Schemes and National Utility Providers.

Wavin enjoyed prosperous growth and production grew from 240 tons in the first year of operations to over 10,000 tons by 1970. As Wavin grew there was a need to move operations. In 1962 Wavin relocated to a new 26 acre purpose-built site in Balbriggan where they remain today. The official opening was performed by the then Taoiseach Sean Lemass who later served as Wavin Ireland's first Chairman.

A company of Innovation

Wavin have long been known for their innovative nature, in 1978 Wavin Ireland developed and launched the market leading AJ. It has been the number one selling WAJ on the Irish Market over the last 40 years and has been one of Wavin Ireland's most successful export products, a position that is still maintained today.

Outside of their core market Wavin develop the Wavin Hula Hoop and Wavin Hurley. The Wavin Hurley was predicted to be a huge success and was launched on the Late Late Show. The Hula Hoop was met with such popularity and demand that street traders travelled from Dublin and queued outside our Balbriggan facility to purchase the them.



Moulding Department 1982

Wavin Today

Today Wavin employs over 85 people across Manufacturing, Distribution, Sales & Marketing, Technical Support, Finance and Administration. Wavin Ireland aims to maintain its position as a leading manufacturer of building products. Our objective is to provide our customers with the right product, at the right time, and at a competitive price. Our mission is to generate continuous value for our employees, customers, partners, and shareholders. For our customers we are the supplier of choice due to a complete, competitive, innovative and sustainable portfolio for Above and Below Ground applications.

From modest beginnings Wavin Ireland has grown to become the largest manufacturer and leading supplier of plastic pipe systems and solutions in Ireland. Continued investment has ensured that we possess the most up to date manufacturing technology to enable us to maintain our position as market leader.



Hans Postma 1983

As we now enter a mature market where Plastics are the dominant player, Wavin will continue to respond to the different challenges that both the economy and the market, face. Wavin will always continue to innovate and develop, and bring new products to the market place. It is to be hoped that Wavin will celebrate another 60 years in business. I think we can be confident of that.



J. Darby, J. McKenna, G. Cooper, E. Carr, P. Merry, M. Eustace, G. Stacey – Wavin Sales Team mid 1960's at Ballymun



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Wavin Through



Left to right; Frank Maguire, Jack Morgan, Paddy Boschell, Robert Cullen, Corad McGeough, Pat Green, Neil Kennedy, Dave Cheeseman, Larry Carr, Fergal McGeough – Wavin 1981



Holmpatrick Hotel 1962 – Official opening of Wavin



Wavin Ireland – Works council 1969



Wavin workshop 1983



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The Years



Leo Murrey at Stubbe 350 in 1965



Wavin Scrapping Ankerwerk AV 76. March 1986



Wavin Sales Team mid 1960's at Ballymun.
Left to right; Messrs J. Darby, J. McKenna, G. Cooper, L. Carr, P. Merry, M. Eustace, G. Stacy



Back Row; Frank Maguire, Jack Morgan, Paddy Boschell, Robert Cullen, Catherine Short. **Front Row;** Jackie Kelly, Richard Guildea, John O'Byrne, Michael Eustace, Billy Carey, Jimmy Dunne.



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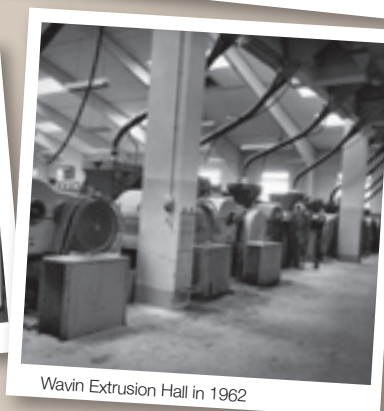
Wavin Lab 1981. John Fairman & Angela Smith



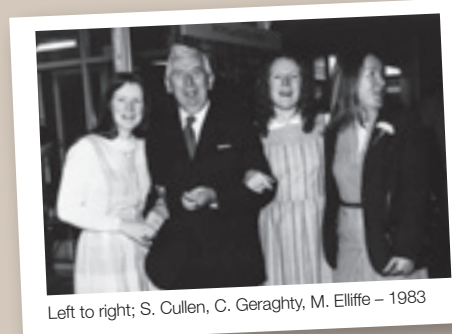
Des Byrne, John Boland T.D & Patricia Gallen 1983



Des Byrne & David McIlvenna 1983



Wavin Extrusion Hall in 1962



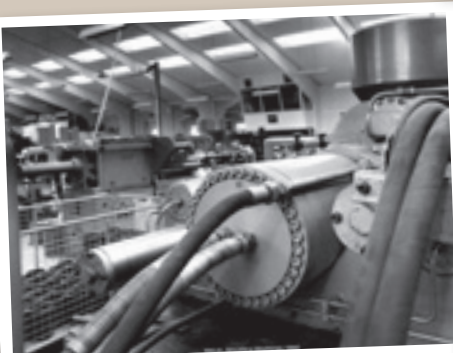
Left to right; S. Cullen, C. Geraghty, M. Elliffe - 1983



Wavin Balbriggan 1983



Wavin Advert 1960. Dublin



Wavin moulding machines 1962



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P. Faulkner in cold mix Wavin plant 1975



Cold mix Wavin plant 1975



Wavin 1962



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**who
ever
heard of
Wavin
wall
ties?**

**who
ever
heard of
rusty
plastic?**

**this new plastic wall-tie
weighs less, costs less**

It's made by Wavin Pipes Limited, Balbriggan. Tel: 212260.

And, you'll be glad
to know, there
are a lot more
where this one came from

wavin

Wavin wall-ties
are only available
through the Builders
and Hardware Merchants.

For further information and details of generous discounts ring 212260

Irish Hardware and Allied Trader – June 1970

Joe Harlin reflects on 46 years in Wavin

As Joe Harlin retires on the 11th March 2018 after 46 years in Wavin, it is worthwhile reflecting on the changes that he has seen over that period. When he joined Wavin in October 1971 as a Lab Technician, little did he realise that he would spend the next 46 years working in the same organisation. He had just started studying in the Dundalk RTC which is now the Dundalk IT, doing a science course. One of the conditions of his employment was that he would continue his studies which he duly did as a block release student attending college on a full day and two nights per week. He worked as a Lab Technician for 6 years before joining the Group Water Scheme sales team. This team consisted of 3 people, a manager Vincent Barlow (RIP) and two reps. Ciaran Boland, one of the reps covered an area north of a line from Dublin to Galway and Joe covered south of that line. At that time the road network was not what it is today, with a journey from Balbriggan to West Cork taking up most of the day. Areas that were very busy at this time included Kerry, West Cork, Limerick, Clare and Tipperary. After 2 years in this position, Joe was then asked by the Sales & Marketing Manager, Larry Carr, would he transfer to the commercial team which called on Builders Merchants, Contractors, End Users etc. He covered the following area which included Louth, Meath, Cavan, Monaghan, Westmeath, Leitrim, Longford and Wicklow. After a couple of years, he lost Wicklow and gained Donegal.

In 1981, an opportunity arose for Joe to work in Saudi Arabia for Wavin. Wavin had a joint venture with an Arab Sheik, named Tarek bin Laden and Joe spent the next 6 months living in Jeddah and working throughout the Kingdom. He would always admit that he thoroughly enjoyed this experience which knocked some of the rough edges off him. He had the option to stay but Ireland called him home. He reverted to his job here, got married and got on with life. He would admit that he was very lucky in that he found his true vocation in life and always enjoyed it.

In 2004, Brendan Murphy was appointed Sales Director in succession to Larry Carr who had become MD. Within 12 months, Joe was appointed Key Account Manager with responsibility for developing business with Associated Hardware, National Hardware, Amalgamated Hardware, McMahon's, Heat Merchants and Dairygold/4 Homes. This challenge he very much enjoyed and through this job, he was able to develop contacts with their members. Up to the present day, he continues with part of this job which now includes United Hardware, Amalgamated Hardware and Heat Merchants. He also covers an area which includes Louth, Meath, Westmeath and part of Offaly. He would now say that the merchant trade has changed dramatically over the last 20 years with merchants now more professional than ever before.

Away from work, Joe was very actively involved with the GAA, having played Club Football with St Patrick's in Stamullen, his local parish. He was also involved in Club Administration for several years. On his return from working in Saudi Arabia, he became very involved in Refereeing and was very fortunate to have refereed every final within his own county of Meath. He developed a reputation as a very strict referee which resulted in him been appointed to "referee" troublesome matches. He was also very fortunate to referee at intercounty level. When injury brought an end to his career, he then became very involved in refereeing issues. He served as Referees County Administrator for 11 years, was a Referee's Tutor at National level, assessed Referees at National and Provincial Level, and sat on a Referee's Committee in Croke Park for 3 years.

Joe has also had the misfortune to have suffered from Bowel Cancer but fortunately for him, he has made a full recovery and has continued to live life to the full. He would readily admit that the friendships that he made in both the GAA and the Builders Merchant Trade had a major impact on him when he was sick. The letters, cards and phone calls that he received had a very positive influence on him during a very difficult time.



Joe Harlin
Business Development Manager

'From at all Wavin we would like to congratulate Joe on a fantastic 46 years and wish him the very best in retirement.'

Wavin's contribution to Irish Life

The contribution of Wavin Pipes to rural water supply has been enormous. Wavin is credited with inventing and pioneering the use of plastic pipe for water distribution. Wavin, together with the Department of Environment and Macra na Tuaithe brought running water to rural homes across Ireland through the Group Water Schemes initiative. Group water schemes became a household expression throughout Ireland as did the name the brand name Wavin.

The supply of piped water had an enormous contribution to the social and economic development of rural communities across Ireland and brought about fundamental changes to the quality of life and living standards for those living in rural Ireland. The absence of a reliable and safe water supply had raised questions about the economic future for rural Ireland, without the necessary infrastructure, the potential for growth in rural Ireland was seriously hindered.



This is a true story and all names used are real to protect the guilty

This woman is one of the guilty, well maybe we shouldn't say guilty, but we do think something should be done about this sort of thing. Although we can help, the first move is up to you. All it needs is a bit of organisation.

How do you go about installing a communal water system? How do you find out about material and installation costs? —your group will expect the best value for their investment. . . What about pipe durability and maintenance? — that's going to come under discussion too. . .

And what about pipe sizes?—you must ensure an adequate supply for all members, without involving the group in an unnecessary extravagant scheme. . .

The answer? Get in touch with the experts:

WAVIN PIPES LTD.

(Wavin Water System approved for Government grants).

This woman (or someone) has already done so

Life before Wavin

Up until the 1950's piped water supply in Ireland was virtually unheard of outside of Ireland's major towns and cities. According to the census of 1946, just 8.6 per cent of rural homes had water on tap. This generally came in the form of a private well or from rainwater collection, for the rest drawing water from a pump was their only access to water.

It can be hard to imagine how difficult life was in Ireland before the arrival of running water and we can only appreciate the position when something interferes with our supply. The reality of non-piped water provisions was drawing water supplies from wells, rivers and lakes and this came with serious health and sanitation issues.

A world before piped running water translates into a home without a toilet, bath or sink let alone washing machine or dish washer, clothes were washed by hand and it was difficult to maintain hygiene around the house. Water was of such value that it was rarely thrown out until after being put to several uses – it may originally have been used to wash clothes, then used to mop floors etc.

Access to clean water was scarce, on the Aran Islands families collected rainwater for drinking and used old stockings and tights to filter it. In Clonmel drinking water was taken from the river, which was also used as an outfall for sewage from the local hospital.

Raising the standards of Rural Living

Economic development and growth was not feasible in rural Ireland without a piped water supply. The benefits of a piped supply were felt both industrially through development as well as rurally through improvements made to farming practises and efficiencies. For example, Wavin piping made it possible to graze stock in fields which traditionally had to be laid for meadows because they had no water. Durable and easy to handle plastic piping enabled farmers to bring water to the most inaccessible places, thus improving farm practises and outputs from farms.



Group Water Scheme

The first Group Water Scheme was developed in the late 1950's and is credited to Father Joe Collins who arrived in Kilbride as parish priest in 1957. Collins originally trained as an engineer and sought to organize a water supply to the local houses from the springs. He was committed to providing running water, toilets and bathrooms to the homes in the townland Kilbride, Co. Wicklow. The first Scheme was made up of 3 miles of Wavin 60mm hard PVC pipe.

A national water strategy aimed at increasing the provision of piped water in rural areas was subsequently rolled out and grants were provided to incentivize group water schemes. Grants covered two thirds of the cost of the work and each scheme was asked to contribute the balance, this was made up of both monetary contributions and voluntary labour. The more labour that was done by the Group the less financial commitment needed.

Once the scheme was organised and approved a detailed drawing of the works was produced and sent to Wavin for pricing. Wavin worked collaboratively with each scheme sending their Technical Representative down to train the group in best practise techniques to ensure a smooth and efficient project completion.

Group Water Schemes were an outstanding success and changed the lives for many people living in rural Ireland. Figures from the 2006 census note that 173,000 homes received their water via the rural schemes. Not only did rural Ireland benefit from Group Water Schemes but the philosophy and practises were employed by Governments in India and Africa for Group Water Scheme development.

INSTALLING A COMMUNAL WATER SYSTEM?

How do you find out about material and installation costs?—your group will expect the best value for their investment . . . What about pipe durability and maintenance?—that's going to come under discussion too . . . And what about pipe size?—you must ensure an adequate supply for all members, without involving the group in an unnecessary extravagant scheme . . .

The answer is to get in touch with the experts—

WAVIN PIPES LIMITED

A Wavin representative will be at your service to advise and assist you throughout the whole operation.

WAVIN have installed 100 schemes in 20 countries.

WAVIN Pipes are approved for Government grants.


WAVIN Pipes are made entirely in the Republic of Ireland.

So write or ring



PIPES LIMITED

BALBRIGGAN, CO. DUBLIN. PHONE: 212260




This is a typical pump

To solve problems like this Wavin offers a long lasting, long service life water supply system with adequate strength and balance.

This situation can be corrected in a matter of minutes by installing a group scheme connected to your town with people who do not want to be bothered.

Wavin 110mm pipes and fittings are approved for Government grants and are made in Ireland. They are also available in 60mm and 90mm diameters. They are also available in 110mm and 150mm diameters.

If you're thinking of installing a group scheme contact the Wavin representative who will be at your service to advise and assist you throughout the whole operation.



WAVIN PIPES LIMITED
Balbriggan, Co. Dublin
Telephone 212260

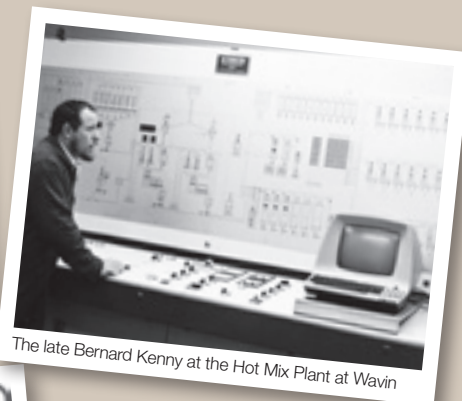


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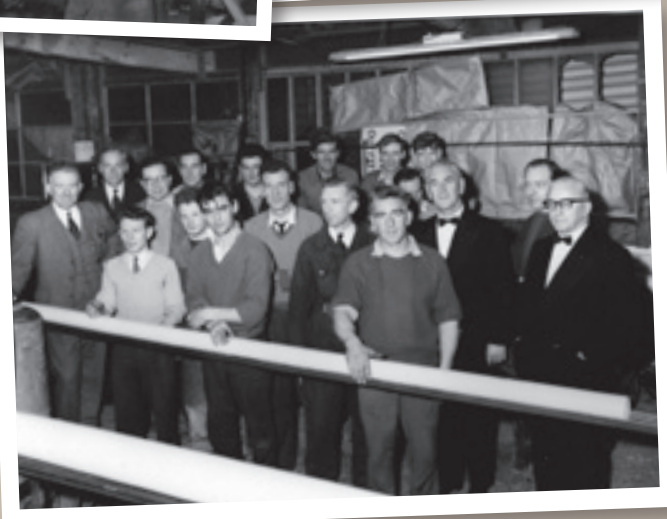
Wavin Through



The late Bernard Kenny at the Hot Mix Plant at Wavin



Left to right; James Tully TD, David McIlvennue, Bill O'Farrell & Seán Kennedy 1976



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The Years



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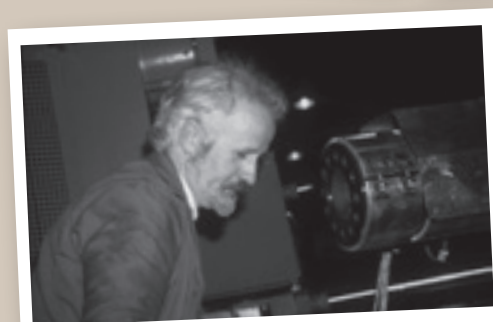
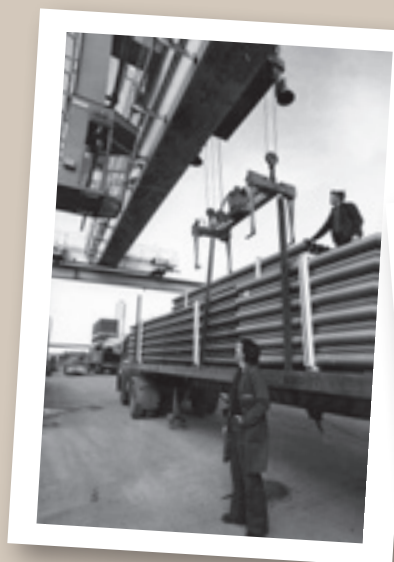
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Fr O'Flynn saying prayers at Wavin Opening June 1962

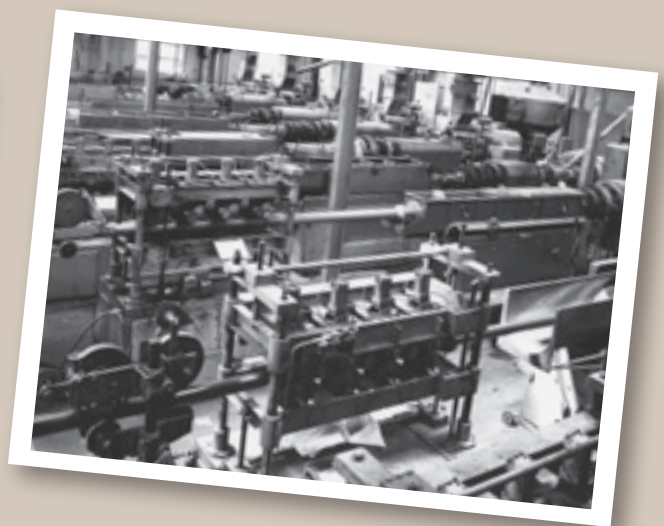


H. Reilly TC speaks to guests



Joe Russell 1990





Alan Guildea, Martin Behan, Joe Harlin & Jimmy Harris 1983



Left to right; Pappy Roe, Frank Maguire, Pat Pyne, Liam Hogan, Bert Hartford, Paudge Cullen, Mick Kennedy & Paddy Dunne 1989



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Greatest thing since the Ash!

Plastic Hurleys? They laughed at first at the very idea. But then they played with the Caman Wavin – and now it has caught on with schools around the country. So much so that Wavin now introduces its Caman in 28" and 30" sizes, in addition to the 32". All unconditionally guaranteed and at highly competitive prices. For a free sample, quantity costs – plus details of very attractive gifts with orders of 100 – send coupon today. (Offer limited to school and club secretaries only).



camán wavin

FREE OFFER! Please send one inch Caman with full details. Post to:
Sean Kennedy, Marketing Manager, Wavin, Balbriggan, Co. Dublin.

Name (Secretary) _____

1978 Advertisement

FOR
SMOOTHER!
GREENER!
GREENS!

Consult

wavin

about

A SPRINKLER SYSTEM THAT
IS WORTHY OF A TROPHY

WAVIN

Leading Manufacturers of P.V.C.
Products will be pleased to help you
Install in over 50 Leading Irish Golf Clubs

For Expert Advice, Write or Phone

Wavin Pipes Ltd.
Balbriggan, Co. Dublin

Phone 33390

Carrolls International
Tournament Cork Golf
Club - 1965

The wonder of Wavin . . .



A pipe joint so simple that it can be fitted in seconds—to last a century.

A system so versatile that it is used for plumbing, drainage, irrigation, watermains, racecourse railings, paddock fencing, electrical conduits and ducting and the handling of industrial chemicals.

Transportation, handling and installation expenses so low that costs are slashed.

THESE ADD UP TO THE WONDER OF WAVIN

wavin PIPES LIMITED

BALBRIGGAN, DUBLIN, IRELAND.
TEL. BALBRIGGAN 146 TELEKIOS • LONDON—LIVERPOOL—BELFAST

Dunlop Cup Scramble Programme - 24th April 1965

Mr. MacCoy!
Another Irish Winner —
At Wilmington, Delaware

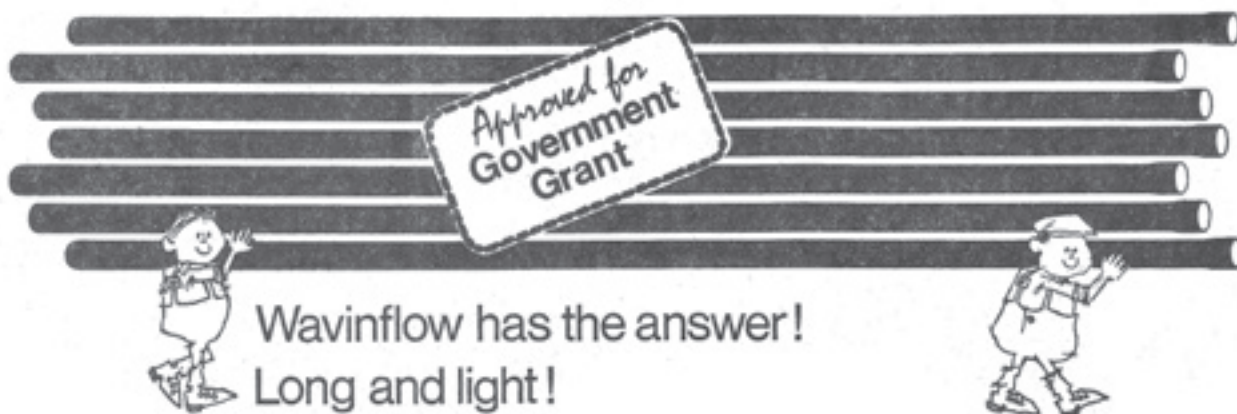
Re! It's the race rail we're talking about, not the horses . . . The MacCoy hard polyvinyl plastic Race Rail . . . Made in Ireland and installed at race tracks throughout the United States and Canada . . . erected with unskilled labour . . . needs no painting or maintenance—can't corrode or rust . . . Can't injure stock—no nails, can't splinter, guaranteed non-pollutant . . . Costs as little as \$2 per yard . . . MacCoy Rails have already been installed at Belmont Park, New York; Aqueduct Park, New York; Arlington, Chicago; Woodbine, Toronto; Centennial, Denver; Delaware Park, Santa Anita, California; Royal Ascot, England; and also at Leopardstown and the Curragh in Ireland.

THE MacCoy Paddock Rail

Designed and Manufactured in Ireland by MacCoy Rail Co. Ltd., Balbriggan, Co. Dublin.

American Supplement Irish Times - 3rd May 1965

Easier farm drainage?



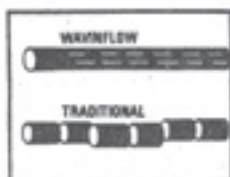
Wavinflow has the answer!
Long and light!

Breakage Eliminated

Virtually unbreakable. Losses normally experienced in loading, unloading, stringing out and laying are eliminated.

Greater Lengths

Supplied in 20 ft. lengths, Wavinflow can be laid very quickly. A joint only every 20 feet — but a real joint!



Ease of Jointing

A simple push-fit joint — but really effective for hand or machine laying.



Extreme Lightness

200 feet under one arm! 25,000 feet in one load! Less fatigue. Less labour. Less damage to soil structure.



Better Flow

Straighter lines and better joints result in better flow. Unaffected by acids or alkaline salts — suitable for any soil.

Wavinflow



Wavinflow 50: 2" diam.
Wavinflow 70: 2 1/2" diam.

Slotted P.V.C. Land Drainage Pipes - Wavin Pipes Ltd., Balbriggan, Co. Dublin. Telephone 212280. Available from leading distributors and builders' merchants.

1960's Advertisement

What this country needs is a good squeeze!

A lot of our land — about 2.5 million acres in fact — is all wet. Water-logged. Undrained. Underproductive.

Yet it does not seem so long ago when that soggy statistic read 4 million acres. Since then, progressive farmers — aided by the Department of Agriculture Land Reclamation Scheme — have done a mighty job of land drainage.


It's a slow task putting in the plumbing that nature forgot — but a productive one for the farmer. And the nation.

How many acres do you have lying there wet and wasteful? Even one acre is one too many. For advice on Gravel Aids write to The Dept. of Agriculture Land Reclamation Department

O'Connell Bridge House, Dublin They've got the facts, and we've got the pipe — "Wavinflow." The slotted PVC pipe that's light on your back

and on your pocket. One man can carry a bundle of 400 ft.; one truck up to 35,000 ft. While you're thinking of drainage, write to Wavin Pipes Ltd., Balbriggan, Co. Dublin for the full story of what "Wavinflow" offers you.

wavin



BP Wavin pipes are made from **RAISON PVC** imported by **BP Chemicals International**

"BP", "wavin" and "Raison" are trademarks of The British Petroleum Company Limited

© 1971 Wavin Pipes Ltd.

The Sunday Press - 7th November 1971

Below ground water management solutions

Bringing residential and
commercial projects to life



Wavin Ireland Ltd | Balbriggan | Co Dublin | K32 K840
Tel: 01 8020202 | www.wavin.ie | ie.info@wavin.com



CONNECT TO BETTER

Introduction to Wavin Sewer Below Ground Systems

Wavin Economy Sewer

Wavin Economy Sewer range is available in 110mm and 160mm fittings.

Wavin Premium Sewer

Wavin Premium Sewer is our range of highly engineered 110mm & 160mm superior quality sewer fittings.

Strictly the Professional's Choice, this Premium Range is reputedly unmatched because of its unique product features:

- ⦿ Security – Contains the unique WAFIX® Triple Seal
- ⦿ Flexibility – Because of the WAFIX® seal the capacity for connection misalignment tolerance is significantly more generous than other fittings
- ⦿ Durability – The toughened outer ring offers protection to the premium fitting during transportation and connection
- ⦿ Ease of Use – The curved insertion sill of the fitting acts as a lead in guide for easy and accurate alignment and connection

Wavin Sewer pipe and fittings are manufactured in accordance with EN13476, EN1401, to BBA and IAB, as applicable.



Wavin Large Diameter Sewer

Large Diameter Sewer pipe and fittings are manufactured in accordance with EN1401, EN13476 and IAB, as applicable.

The Large Diameter Sewer Range consists of pipes and fittings up to 456mm (dependent on size/components).

Key to Abbreviations

P/E

Pipe and fittings with both ends plain or with one plain end and one special end.

S/S

Pipe and fittings with one or more ring-seal or push-fit sockets, but always one plain or special end.

D/S

Fittings with ring-seal or push-fit sockets on two ends.

T/S

Fittings with ring-seal or push-fit sockets on all three ends.

S/SW

Fittings with one or more ring-seal sockets but always one solvent socket.

SW/S

Fittings with one or more solvent sockets and one plain or special end.

D/SW

Fittings with solvent sockets at all ends.

Important Note:

Fittings will only be supplied in the pack quantities shown.




Please quote part number when ordering.

Email: ie.info@wavin.com Tel: +353 (0) 1802 0202

U-Drain Economy Fittings Below Ground Systems

Wavin Economy Range (110mm and 160mm) – Certified to EN1401 Standard

	Product Code	Size / Description	Pack Qty	Price Each €
	D6001	Couplers 110mm (4in)	25	9.29
	D6002	160mm (6in)	8	19.35
	D6108	Repair Collars 110mm (4in)	25	11.09
	D6141	160mm (6in)	12	24.33
	D6005	Double Socketed 45° Branches 160mm x 110mm (6in x 4in) x 45°	4	43.49
	D6004	160mm x 160mm (6in x 6in) x 45°	3	43.49
	D6015	Double Socketed 90° Branches 160mm x 110mm (6in x 4in) x 90°	4	36.01
	D6027	160mm x 160mm (6in x 6in) x 90°	4	43.49
	D6003	Triple Socketed 45° Branches 110mm x 110mm (4in x 4in) x 45°	8	25.06
	D6007	160mm x 110mm (6in x 4in) x 45°	4	46.97
	D4008	160mm x 160mm (6in x 6in) x 45°	4	48.69
	D6006	Triple Socketed 90° Branches 110 x 110mm (4in x 4in) x 92½°	10	25.06
	D4009	160 x 110mm (6in x 4in) x 90°	5	46.96
	D4011	160 x 160mm (6in x 6in) x 92½°	4	48.69
	D6028	Single Socketed Short Radius Bends 110mm (4in) x 15°	30	13.33
	D6030	110mm (4in) x 30°	25	13.33
	D6032	110mm (4in) x 45°	20	13.33
	D6038	110mm (4in) x 87.5°	12	18.36
	D6029	160mm (6in) x 15°	8	14.31
	D6031	160mm (6in) x 30°	8	30.25
	D6033	160mm (6in) x 45°	8	30.25
	D6039	160mm (6in) x 87.5°	6	30.25

	Product Code	Size / Description	Pack Qty	Price Each €
		Double Socketed Swept Bends		
	D6026	110mm (4in) x 15°	15	18.36
	D6025	110mm (4in) x 30°	15	18.36
	D6019	110mm (4in) x 45°	20	17.51
	D6040	110mm (4in) x 92°	12	17.51
	D6049	160mm (6in) x 92°	6	33.06
	D6051	160mm (6in) x 45°	9	33.06
		Level Invert Reducer		
	D6113	160mm x 110mm (6in x 4in)	20	33.06
		Stoppers		
	D6088	110mm (4in) Plug	120	33.06
	D6084	110mm (4in) End Cap	130	33.06

BUDGET CONSCIOUS CONSULTANTS



time is money

**now you can save
valuable hours
running 30 feet
lengths of**

wavinsewer

**whatever the weather, in the fastest
possible time.**

Wavins trend-setting sewer system offers 15 big advantages

SMOOTH BORE

Superior hydraulic efficiency at flatter gradients is achieved by the very smooth interior surface of Wavinsewer pipes and its precision joints.

MINIMUM RISK OF CLOGGING

The long lengths of Wavinsewer and the precision made uPVC fittings virtually eliminate the danger of obstructions or interruption to the flow.

20 FT. (6M) CHAMFERED LENGTHS

Wavinsewer is supplied in standard 20 ft. (6m) lengths and 30 ft. (9m) lengths are available to order. These can be cut on site to any required length.

HIGH ABRASION RESISTANCE

Wavin uPVC sewers makes resistance to abrasion by such materials as sand and gravel of no real consequence.

SUPERIOR CORROSION RESISTANCE

Wavinsewer is unaffected by normal sewage and sewer gases. PVC has the highest resistance to corrosion of all extruded plastic pipes.

SEWERS MAY BE PRESSURISED

As Wavinsewer is similar to the Wavinmain* pressure pipe system it follows that uPVC sewers can be subjected to an internal water pressure. *PVC Watermain

LIGHT IN WEIGHT

Impressive savings in transport, handling and laying of Wavinsewer is readily apparent when one considers the extreme lightness and length of these pipes. Two men, can in fact, carry a 6m length of 323mm (12 ins.) with little effort.

MINIMUM TRENCH WIDTH

Long lengths of pipe combined with the simple Wavin jointing system means that trench widths are cut to a minimum. The speed of laying ensures that trenches may be quickly refilled.

MINIMUM GRADIENT

Flatter gradients are possible when laying Wavinsewer due to the excellent flow characteristics of uPVC.

SPEEDILY LAID

The laying of Wavinsewer pipe on a prepared gravel bed is a quick straightforward operation. Traditional pipes used for sewers require jointing of short pipes in the trench, resulting in wide expensive trenches and slow construction. Due to the speed of laying, best use can be made of favourable weather and costly delays are avoided.

RAPID WATERTIGHT JOINTING TECHNIQUE

The Wavin system of pipe jointing gives an unprecedented rate of sewer construction. A joint on a 160mm (6 in.) sewer can be made in seconds.

LESS MANHOLES REQUIRED

Closely spaced manholes are in many cases unnecessary when using Wavin.

CONCRETE PROTECTION UNNECESSARY

No concrete is necessary with flexible pipe such as a uPVC sewer.

FLEXIBILITY IN DESIGN

The many desirable properties of Wavin uPVC sewers may be used to best advantage if the design of a scheme is based from the outset on this material.

For full details of the **wavinsewer**

Service contact the Northern Ireland Branch



The Largest Manufacturers of PVC Pipes in Great Britain.

Ulster Largest Stockist:

WAVIN PIPES (N.I.) LIMITED
ANTRIM ROAD, LISBURN
NORTHERN IRELAND

Phones: Lisburn 3478/5356

Wavin Premium



Wavin Premium is our range of highly engineered 110mm & 160mm superior quality fittings. Strictly the professionals choice, this premium range is reputedly unmatched because of it's four unique product features.

Why is the Wavin Premium range so great?

Security

The premium range contains the unique **WAFIX™** triple seal with ensures connections are absolutely watertight with no chance of ground water infiltration or seal dislodgement during connection.

Flexibility

Because of unique design of the **WAFIX™** triple seal, the capacity for connection misalignment tolerance is significantly more generous than other fittings, offering up to double the deflection tolerance of it's nearest competitors.

Durability

The toughened outer ring offers protection to the premium fitting during transportation and connection. It's also designed to withstand extreme weather conditions such as sub zero temperatures.

Ease of use

The curved insertion sill of the fitting acts as a lead in guide for easy and accurate alignment and connection.

Look for Wavin Premium fittings in your local merchants.

Premium U-Drain Pipe and Fittings Below Ground Systems

Pipe

Wavin Sewer Pipe is manufactured and independently certified to a range of standards including EN1401*, EN13476, BBA & IAB as applicable. Wavin Sewer Pipe complies with Table 7 of Irish Building Regulations Part H 2010 – Drainage and Waste Water Disposal. *EN1401 is available on request only.

	Product Code	Size / Description	Wall Thickness	N° Pipes per Frame	Price Per Length €
	D3901	WavSpec SN8 – Irish Water Compliant – EN13476 160mm (6in)	4.7mm	46	138.05
	D3761	WavSpec SN8 – Irish Water Compliant – EN1401 140mm (4in)	3.2mm	46	124.62
	D3822 D3823	WavSpec SN4 – Building Regulations Part H – EN13476 110mm (4in) 160mm (6in)	3.2mm 4.0mm	114 46	115.04 207.95
	D3761 D3763	WavSpec SN4 – Building Regulations Part H – EN1401 110mm (4in) 160mm (6in)	3.2mm 4.0mm	114 46	124.62 225.27
	D3776	Wavtec – BBA 11/4825 110mm (4in)	2.6mm	114	95.87
	D3796	Tritec – IAB 97/0089 160mm (6in)	3.9mm	46	173.29
	D3752	Percolation Pipe 110mm (4in)	2.6mm	114	107.39

Note: All pipes are 6m length with integral socket at one end and plain end chamfered.

Fittings

Wavin Sewer Fittings are manufactured and independently certified to EN1401.

	Product Code	Size / Description	Pack Qty	Pallet Qty	Price Each €
	D4001	Couplers 110mm (4in)	20	420	10.03
	D4002	160mm (6in)	8	120	20.89
	D4108	Repair Collars 110mm (4in)	20	420	11.98
	D4141	160mm (6in)	8	120	26.28
	D4115	Double Socketed 90° Branches 160mm x 110mm (6in x 4in) x 45°	1	1	50.78
	D4127	160mm x 160mm (6in x 6in)	1	–	52.59
	D4003	Triple Socketed 45° Branches 110mm x 110mm (4in x 4in) x 45°	8	72	32.12
	D4005	160mm x 110mm (6in x 4in) x 45°	4	36	50.71
	D4004	160mm x 160mm (6in x 6in) x 45°	4	36	52.59
	D4006	Triple Socketed 90° Branches 110mm x 110mm (4in x 4in) x 92½°	10	90	32.12
	D4028	Single Socketed Short Radius Bends 110mm (4in) x 15°	20	180	14.39
	D4030	110mm (4in) x 30°	20	180	14.39
	D4032	110mm (4in) x 45°	20	180	14.39
	D4038	110mm (4in) x 87½°	12	108	15.45
	D4031	160mm (6in) x 30°	1	90	32.67
	D4033	160mm (6in) x 45°	1	72	32.67
	D4039	160mm (6in) x 87½°	1	40	35.70
	D4019	Double Socketed Swept Bends 110mm (4in) x 45°	20	180	18.91
	D4040	110mm (4in) x 92½°	12	108	18.91
	D4014	160mm (6in) x 15°	1	–	35.70
	D4015	160mm (6in) x 30°	1	–	35.70
	D4049	160mm (6in) x 92½°	1	–	38.88
	D4330	4in Single Socket 110mm 0–30° Adjustable Bend	5	–	21.63

Premium U-Drain Pipe and Fittings Below Ground Systems

	Product Code	Size / Description	Pack Qty	Pallet Qty	Price Each €
	D4332	4in Double Socket 110mm 0–30° Adjustable Bend	5	–	27.13
	D4089	Plain Stopper 160mm (6in)	10	–	17.86
	D4113	S/S Level Invert Reducer 160mm x 110mm (6in x 4in)	15	–	28.62
	D4041	Long Radius Bends 110mm (4in) x 11¼°	1	–	35.70
	D4043	110mm (4in) x 22½°	1	–	35.70
	D4045	110mm (4in) x 45°	1	–	35.70
	D4047	110mm (4in) x 90°	1	–	39.16
	D4042	160mm (6in) x 11¼°	1	–	69.65
	D4044	160mm (6in) x 22½°	1	–	69.65
	D4046	160mm (6in) x 45°	1	–	69.65
	D4048	160mm (6in) x 90°	1	–	75.57
	D4112	Moulded Mid Radius Bend 110mm (4in) x 92½° (Includes fixed rings both ends)	5	–	32.36
	D4077	Cleaning Eyes 110mm (4in)	5	–	28.92
	D4078	160mm (6in)	1	–	45.96
	D4079	uPVC to S.G. Spigot Adaptors 110mm (4in)	25	–	16.18
	D4080	160mm (6in)	10	–	40.47
	D4085	Puddle Flanges 110mm (4in)	1	–	12.16
	D4086	160mm (6in)	1	–	27.06



Denis Hickey Advertisement



Gully Traps and Fittings

Below Ground Systems









Gully Traps


	Product Code	Size / Description	Pack Qty	Pallet Qty	Price Each €
	D4092	Plain Gully and Grid 110mm	6	96	38.58
	D4093 D3993	Adjustable Gully 110mm 110mm Bulk Box	6 40	96 –	38.58 38.58
	D4090	Universal Gully 110mm	5	80	48.31
	D4308	Bottle Gully 110mm	1	–	47.81
	D4309	S/S Back Inlet Bottle Gully 87.5° 110mm provides access to the drainage system for cleaning, supplied with side bosses closed but with 110mm back boss open.	30	–	46.07
	D8951	D/S Bottle Gully 110mm with square open and vertical inlet gratings	30	–	34.64
	D8952	D/S Yard Gully With square open grating	30	–	34.64

	Product Code	Size / Description	Pack Qty	Pallet Qty	Price Each €
	D4149	Gully Grids 160mm x 160mm	1	–	2.48
	D4310	Bottle Gully Grating (spare) 110mm	1	–	4.05
	D4311	Bottle Gully Sealed Access Cover 110mm	1	–	22.48
	D4168	Sealed Access Plate 160mm x 160mm	10	–	16.41
	D4365	Cover and Frame (spare) For use with D4308/D4309	1	–	10.27
	D8906	Ductile Iron Grating (black) For use with D4308/D4309	1	–	28.57
	D8953	Sealed Access Cover (black) Complete with sealing ring and screws – for use with D8592	1	–	21.74
	D8955	Vertical Inlet Grating and Frame (spare) For use with D8951/D8592/ D4308/D4309	1	–	10.27
	D8956	Square Grating and Frame (spare) For use with D8951/D8592/ D4308/D4309	1	–	10.27
	D4265	Vertical Inlet Cover (spare, black)	10	–	8.96
	D4192	Gully Riser 160mm	10	–	14.17
	D8968	Gully Riser For use with D8951/D8592	1	–	10.25

Gully Traps and Fittings

Below Ground Systems

	Product Code	Size / Description	Pack Qty	Pallet Qty	Price Each €
	D4137	Universal Gully Base 110mm	1	–	23.60
	D4118	Universal Gully Hopper 110mm	1	–	30.85
	D4138	Adjustable Gully Hopper 110mm	1	–	15.22
	D8730	P/E Plain Hopper with 150mm spigot 110mm	5	–	12.16
	D8726	P/E Vertical Inlet with 150mm spigot 110mm	5	–	16.27
	D4225	P/E Sealed Access Hopper with 150mm spigot 110mm	1	–	32.64
	D8925	Gully Plug New Spigot – for use with D4308/D4309	10	–	3.04
	D4095	Trapped Yard Gully 300mm x 600mm x 110mm outlet	1	–	165.86

	Product Code	Size / Description	Pack Qty	Pallet Qty	Price Each €
	D4096	Yard Gully Ductile Iron Grating and Frame	1	–	272.10
	D4097	Yard Gully Catchment Bucket	1	–	202.32
	D4139	Road Gully 450mm x 900mm x 160mm outlet	1	–	202.30

DONT

waste your time and money on old-fashioned waste systems

Old-fashioned means breakable, hard-to-handle and heavy. It also means preparing a concrete bed and making 20 joints, or more, to every 60 foot run. In short: old-fashioned sewage systems waste time and money you can't afford.

And you had no choice but to pay up and smile.

Now you have good reasons to smile. Now you can choose New Wavinsewer in uPVC.

Drop a length of Wavinsewer house drain. It won't break. Lift a 20 foot length. You can do it with one hand! Lay a 60 foot length. Joints included it takes about five minutes. Because a 60 foot length of Wavinsewer needs no more than 2 or 3 joints. And instead of having to prepare a concrete bed for your

system as usual, you prepare a simple gravel bed. These are the reasons why Wavinsewer costs 20% less to lay.

Wavinsewer is the complete sewage system in terra cotta colour. Sizes range from 4 to 14 inches in diameter. Pipes. Fittings. The lot. All in

uPVC. All approved for Government Grant. And all first grade. Even if you were to buy second grade old-fashioned stuff you'd still be wasting your time and money.

If you can't find Wavinsewer at your stockist, write direct to Wavin Pipes Limited.

wavinsewer

To Wavin Pipes Limited, Balbriggan, Co. Dublin.
I like what you say. Now prove it to me. Rush me a free copy of the Wavinsewer Manual.

NAME _____

ADDRESS _____

new uPVC Wavinsewer costs 20% less to lay

Large Diameter Sewer Pipes and Fittings

Below Ground Systems

Large Diameter Sewer Pipes

Wavin Large Diameter Sewer Pipe is manufactured and independently certified to a range of standards including EN1401, EN13476 & IAB as applicable. Wavin Sewer Pipe complies with Table 7 of Irish Building Regulations Part H 2010 – Drainage and Waste Water Disposal.

	Product Code	Size / Description	Wall Thickness	N° Pipes per Frame	Price Per Length €
	D3904	WavSpec SN8 – Irish Water Compliant – EN13476 244mm (9in)	7.2mm	16	499.12
	D3905	315mm (12in)	9.3mm	9	698.82
	E4921	WavSpec SN4 – Building Regulations Part H – EN13476 244mm (9in)	5.9mm	16	415.93
	E4920	315mm (12in)	7.7mm	9	582.35
	E4507	WavSpec SN4 – Building Regulations Part H – EN1401 315mm (12in)	7.7mm	9	706.59
	E4516	400mm (16in)	9.8mm	9	1436.83
	E4529	Tritec – IAB 97/0089 244mm (9in)	6.25mm	16	346.61
	E4530	315mm (12in)	7.7mm	9	485.25
	E4508	Local Government Spec 1977 – 6m P/E 456mm (18in) Plain ended at both ends	11.0mm	4	1391.89

Note: All pipes are 6m length with integral socket at one end and plain end chamfered.

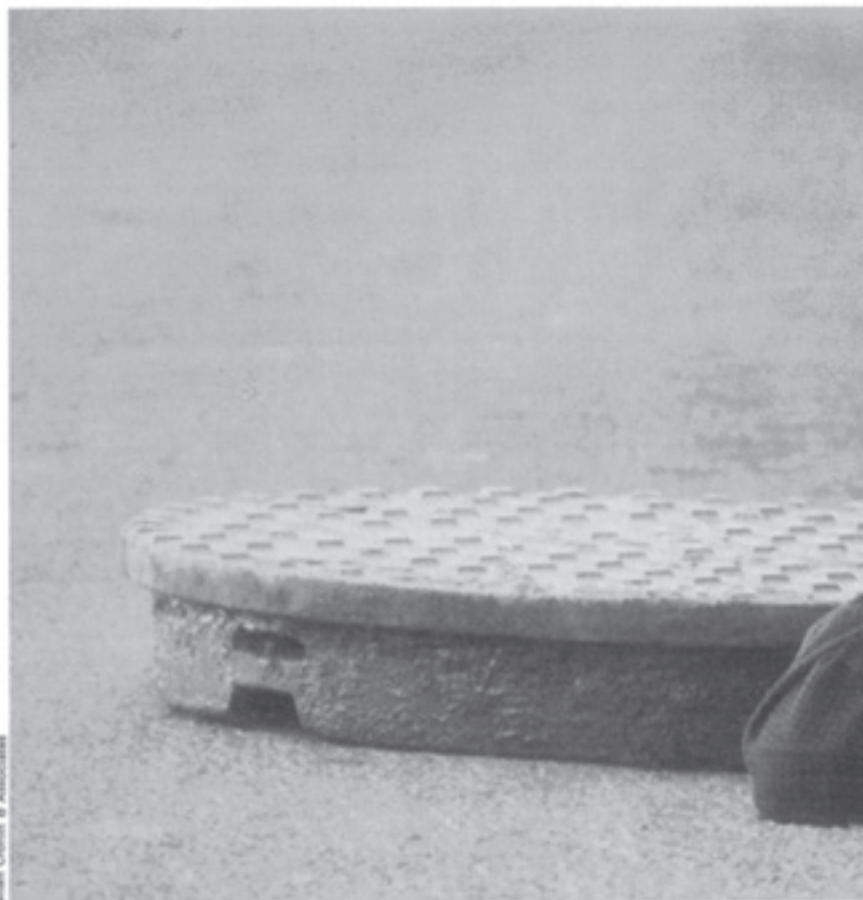
Large Diameter Sewer Pipes and Fittings Below Ground Systems

Fittings

Wavin Large Diameter Sewer Fittings are manufactured in accordance with EN1401.

	Product Code	Size / Description	Pack Qty	Price Each €
		D/S Couplers		
	E5002	244mm (9in)	1	47.23
	E5009	315mm (12in)	1	88.75
	E5041	400mm (16in)	1	220.30
	E2848	456mm (18in) – Solvent joint	1	224.59
		D/S Repair Collars		
	E5216	244mm (9in)	1	47.68
	E5109	315mm (12in)	1	91.33
		D/S Branches 90°		
	E5108	244mm (9in) x 110mm (4in)	1	148.28
	E5013	244mm (9in) x 160mm (6in)	1	148.28
	E5099	244mm (9in) x 244mm (9in)	1	189.39
	E6021	315mm (12in) x 110mm (4in)	1	200.42
	E6022	315mm (12in) x 160mm (6in)	1	200.42
	E5024	315mm (12in) x 244mm (9in)	1	229.30
	E5023	315mm (12in) x 315mm (12in)	1	301.90
	E5235	400mm (16in) x 110mm (4in)	1	443.42
	E6110	400mm (16in) x 160mm (6in)	1	452.30
	E6201	400mm (16in) x 315mm (12in)	1	484.35
	E5138	400mm (16in) x 400mm (16in)	1	527.07
	E5140	456mm (18in) x 456mm (18in)	1	717.15
		D/S Branches 45°		
	E5106	244mm (9in) x 110mm (4in)	1	148.28
	E5006	244mm (9in) x 160mm (6in)	1	148.28
	E6023	315mm (12in) x 110mm (4in)	1	227.89
	E5015	315mm (12in) x 160mm (6in)	1	237.91
	E5115	315mm (12in) x 315mm (12in)	1	301.90
	E6189	400mm (16in) x 110mm (4in)	1	443.42
	E5045	400mm (16in) x 160mm (6in)	1	452.30
	E6192	400mm (16in) x 315mm (12in)	1	484.35
	E6193	400mm (16in) x 400mm (16in)	1	527.07
		Oblique Saddles 45°		
	E4009	244mm (9in) x 110mm (4in) x 45°	1	117.33
	E4010	244mm (9in) x 160mm (6in) x 45°	1	135.70
	E4012	315mm (12in) x 160mm (6in) x 45°	1	232.48
		Square Saddles 90°		
	E4016	244mm (9in) x 110mm (4in) x 90°	1	117.33
	E4017	244mm (9in) x 160mm (6in) x 90°	1	135.70
	E6039	315mm (12in) x 110mm (4in) x 90°	1	173.64
	E6040	315mm (12in) x 160mm (6in) x 90°	1	192.94
	E6205	400mm (16in) x 110mm (4in) x 90°	1	272.63
	E6206	400mm (16in) x 160mm (6in) x 90°	1	283.23
	E5166	456mm (18in) x 110mm (4in) x 90°	1	272.63
	TBC	456mm (18in) x 160mm (6in) x 90°	1	283.23

	Product Code	Size / Description	Pack Qty	Price Each €
	S/S Short Radius Bends			
	E5097	244mm (9in) x 15°	1	134.27
	E5113	315mm (12in) x 15°	1	171.65
	E5226	400mm (16in) x 15°	1	456.25
	E5125	244mm (9in) x 30°	1	134.27
	E5028	315mm (12in) x 30°	1	171.65
	E6208	400mm (16in) x 30°	1	456.25
	E5025	244mm (9in) x 45°	1	134.27
	E5027	315mm (12in) x 45°	1	225.88
	E5243	400mm (16in) x 45°	1	456.25
	E5029	244mm (9in) x 90°	1	161.48
	E5031	315mm (12in) x 90°	1	266.25
	E5165	400mm (16in) x 90°	1	488.32
	S/S Long Radius Bends 90°			
	E5036	244mm (9in) – S/S	1	381.36
	E5044	315mm (12in) – S/S	1	810.20
	Long Radius Bends 45°			
	E5037	244mm (9in) – S/S	1	242.51
	E5055	315mm (12in) – S/S	1	455.30
	E5168	400mm (16in) – P/E	1	1215.03
	S/S Long Radius Bend 22½°			
	E5038	244mm (9in) – S/S	1	242.51
	E5056	315mm (12in) – S/S	1	553.89
	E5135	400mm (16in) – P/E	1	1203.88
	Long Radius Bends 11¼°			
	E5039	244mm (9in) – S/S	1	193.53
	E5057	315mm (12in) – S/S	1	210.24
	E5136	400mm (16in) – P/E	1	684.57
	Spigot Adaptors			
	E5088	244mm (9in)	1	92.34
	E5090	315mm (12in)	1	122.30
	Plain Stoppers			
	E5103	244mm (9in)	1	76.01
	E5119	315mm (12in)	1	96.35
	Sewer Reducers			
	E5139	244mm (9in) x 110mm (4in)	1	91.88
	E5100	244mm (9in) x 160mm (6in)	1	108.36
	E5117	244mm (9in) x 200mm (8in)	1	129.83
	E5105	315mm (12in) x 244mm (9in)	1	164.48
	E5126	315mm (12in) x 160mm (6in)	1	156.63



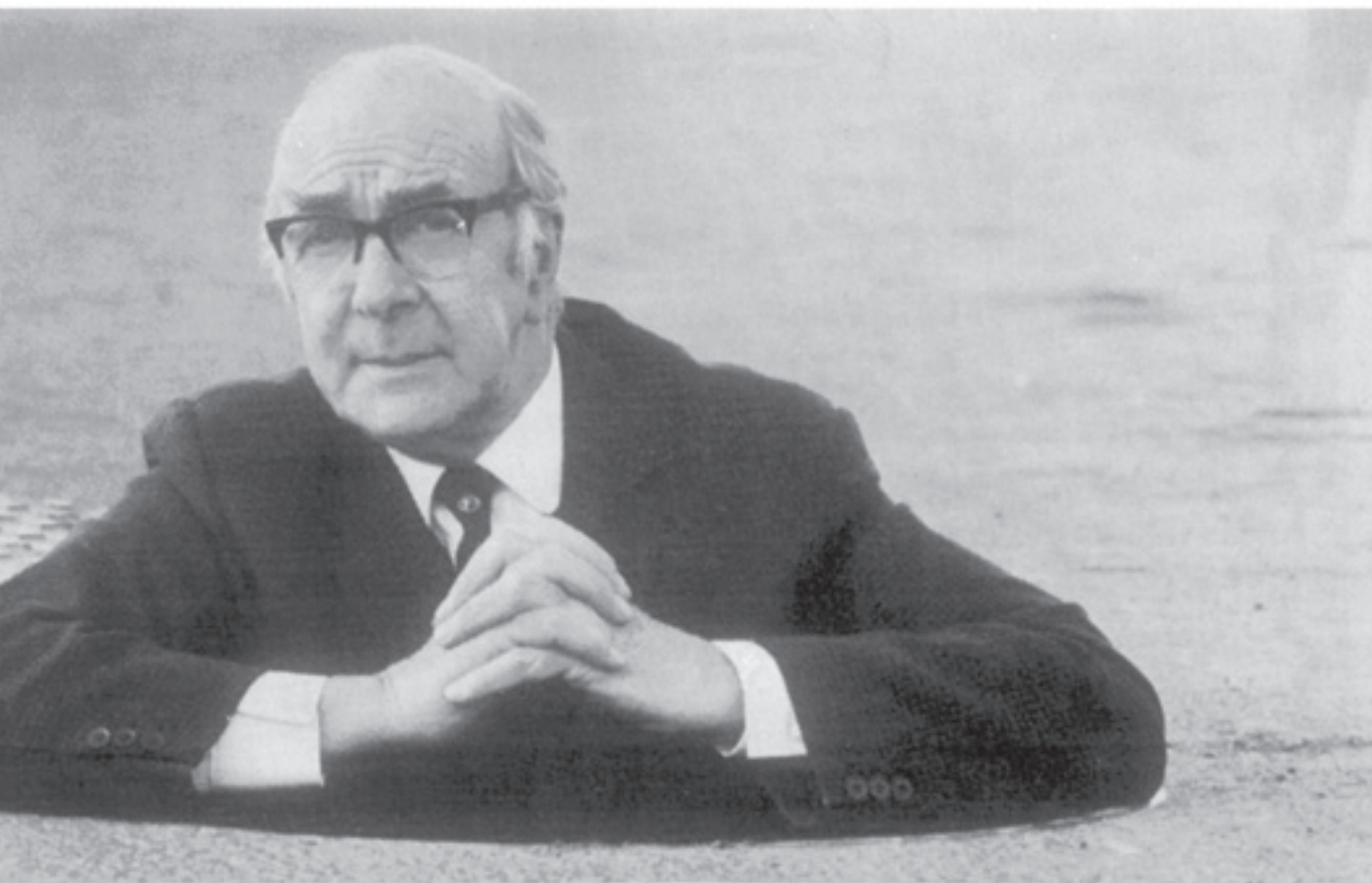
Brian Conlon & Associates

How to save

Buy 'Wavinsewer'. Why?

- 1.** It's so light—one man can lift a 20 ft. length. With ease. (Without getting a hernia).
- 2.** 'Wavinsewer' needs fewer joints. Much fewer. Would you believe only 2 or 3 to every 60 ft. ? (Count how





Save 20% on sewer pipe costs.

many joints you need with the other kind of pipe for that length!)

3. Because it's made from PVC—or what some would call "hard plastic"—it won't break. Drop it, and you won't drop any money.

4. Again, because it's tough,

'Wavinsewer' needs no cuddling into specially-prepared concrete beds. Mother Earth's gravel will do fine.

Add up all these reasons and what do you get? At least 20% savings in laying costs. If you don't believe it—ask any worker which pipe he would

rather work with. The heavy, old type? Or the lighter, easier 'Wavinsewer'?

wavin

For more information, send for free, new 'Wavinsewer' manual to Wavin Pipes Limited, Balbriggan, Co. Dublin.

wavin

CONNECT TO BETTER



underground revolution saves labour lowers costs

Frankly, an underground revolution has been needed for a long time. The old-fashioned sewage systems are far too demanding in time and costs. They break too easily. Need elaborate concrete beds. Require 20 joints, or more, to every 60 foot run. They're heavy and hard to handle. And for this you paid up and smiled. But, like we said, there's been an underground revolution. Now Wavinsewer in uPVC has arrived. Drop a length of Wavinsewer. It won't break. Lift a twenty foot length. You can do it with one hand! Lay a sixty foot length. Joints included it takes about five minutes. Because a sixty foot length of Wavinsewer needs no more than 2 or 3 joints. And instead of having to lay a concrete bed for your system as usual, you prepare a simple gravel bed. *These are the reasons why Wavinsewer costs 20% less to lay.* Wavinsewer is the complete sewage system in terra cotta colour. Sizes range from 4 to 14 inches in diameter. Pipes. Fittings. The lot. All in uPVC. All approved for Government Grant. And all first grade. Even if you were to buy second grade old-fashioned stuff you'd still be wasting your time and money.

If you can't find Wavinsewer at your stockist, write direct to Wavin Pipes Limited.

JOIN THE NEW uPVC WAVINSEWER REVOLUTION AND SAVE 20% LABOUR COSTS!

wavinsewer

a great Irish product.

TO Wavin Pipes Limited,
Balbriggan, Co. Dublin.

I like what you say. Now prove it to me.
Rush me a free copy of the Wavinsewer
Manual.

Name

Address

Wavin UltraRib

Reliable
Efficient
Performance
UltraRib

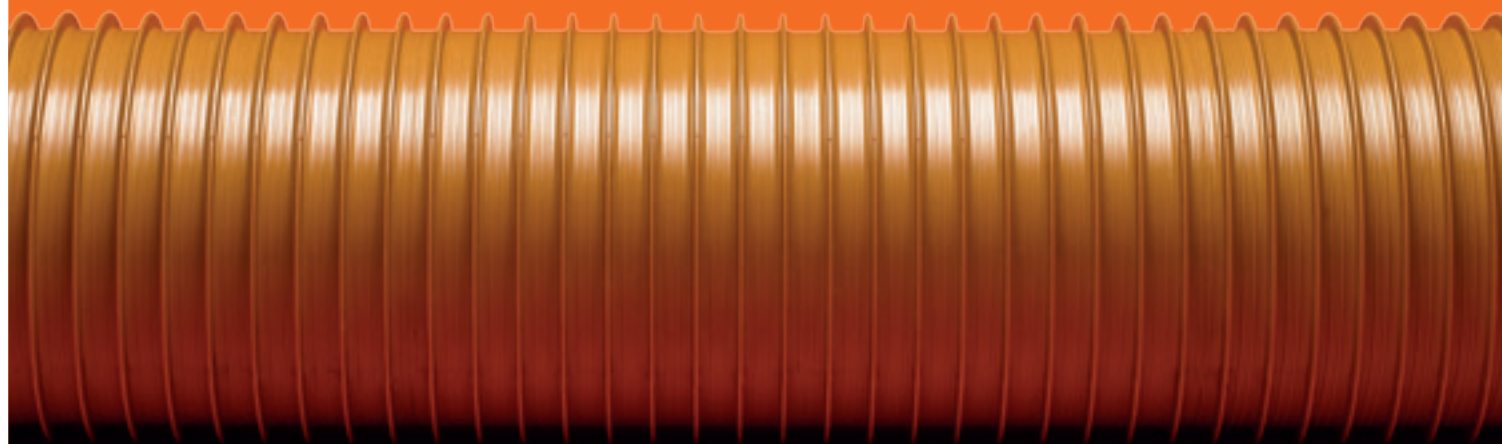


Designed and manufactured to exceed all required industry standards for PVC-U systems, Wavin UltraRib has provided foul and surface water solutions that have been relied upon for over 25 years.

For an ultra reliable and ultra efficient foul and surface water solution that offers ultra performance, you can rely on Wavin UltraRib.






BS EN 13476-3







UltraRib Below Ground Systems

Irish Water Approved (EN 13476- SN8)

Pipe

	Product Code	Size / Description	Pack Qty	Price per length €
		Plain Ended Pipe		
	6UR073	150mm (3m length)	36	61.89
	9UR073	225mm (3m length)	16	121.26
	12UR073	300mm (3m length)	9	179.89
		Single Socketed Pipe		
	6UR043	150mm (3m length)	36	64.59
	9UR043	225mm (3m length)	16	131.82
	12UR043	300mm (3m length)	9	191.11
	6UR046	150mm (6m length)	36	120.33
	9UR046	225mm (6m length)	16	235.10
		Single Socketed Rocker Pipe		
	6UR869	150mm (600mm length)	1	29.06
	9UR869	225mm (600mm length)	1	33.77
	12UR869	300mm (600mm length)	1	48.94







Fittings

	Product Code	Size / Description	Pack Qty	Price each €
		D/S Slip Couplers		
	6UR105	150mm	1	8.87
	9UR105	225mm	1	145.74
	12UR105	300mm	1	245.57
		D/S Pipe Coupler		
	6UR205	150mm	1	19.68
	9UR205	225mm	1	45.31
	12UR205	300mm	1	105.04
		D/S Adaptor		
	6UR106	150mm	1	159.42
	9UR109	225mm	1	260.68
	12UR112	300mm	1	289.10
		D/S Adaptor		
	6UR129	150mm	1	36.42
		S/S Adaptor		
	6UR141	150mm	1	52.63

	Product Code	Size / Description	Pack Qty	Price each €
	6UR142	D/S Adaptor 150mm	1	56.07
	6UR143	S/S Adaptor 150mm	1	50.34
	6UR099	S/S Level Invert Reducer 150x110mm	1	26.60
	9UR095	S/S Level Invert Reducer 225x150mm	1	45.39
	12UR093	D/S Level Invert Reducer 300x225mm	1	196.72
	6UR163	S/S Short Radius Bend – 45° 150mm	1	34.71
	6UR560	D/S Short Radius Bend – 87.5° 150mm	1	64.65
	6UR561	D/S Short Radius Bend – 87.5° 150mm	1	49.77
	9UR561	225mm	1	287.01
	12UR561	300mm	1	487.25
	6UR563	D/S Short Radius Bend – 45° 150mm	1	29.40
	9UR563	225mm	1	145.50
	12UR563	300mm	1	317.42





UltraRib Below Ground Systems

	Product Code	Size / Description	Pack Qty	Price each €
		D/S Short Radius Bend – 30°		
	6UR566	150mm	1	29.40
	9UR566	225mm	1	145.50
	12UR566	300mm	1	317.42
		D/S Short Radius Bend – 15°		
	6UR567	150mm	1	29.40
	9UR567	225mm	1	145.50
	12UR567	300mm	1	317.42
		D/S Equal Junction – 87.5°		
	6UR193	150mm	1	32.13
		D/S Equal Junction – 45°		
	6UR213	150mm	1	32.13
	9UR213	225mm	1	376.35
	12UR213	300mm	1	633.35
		D/S Unequal Junction – 87.5°		
	6UR199	150x110mm	1	32.13
		D/S Unequal Junction – 45°		
	6UR219	150x110mm	1	77.42
	9UR224	225x110mm	1	231.70
	9UR226	225x160mm	1	257.16
	12UR236	300x160mm	1	379.68
		D/S Unequal Junction – 45°		
	9UR227	225x150mm	1	278.97
	12UR237	300x150mm	1	414.72
	12UR240	300x225mm	1	917.07
		P/E Screwed Access Cover		
	6UR292	150mm	1	54.92

	Product Code	Size / Description	Pack Qty	Price each €
	6UR290	S/S Screwed Access Cover 150mm	1	58.54
	6UR296	P/E Socket Plug 150mm	1	19.00
	9UR296	225mm	1	91.82
	12UR296	300mm	1	122.81
	6UR600	S/S Trapped Road Gully 450mm diameter x 900mm deep	1	168.45
	6UR590	450mm diameter x 750mm deep	1	146.46
	6UR395	Jointing Lubricant 2.5kg tub	1	90.85
	6UR396	5.0kg tub	1	162.93
	6UR993	Inflatable Testing Plug 150mm	1	130.31
	6UR117	Ring Seal 150mm	5	1.67
	9UR117	225mm	5	6.67
	12UR117	300mm	5	10.00
		Note: Ring Seals to be ordered separately		

Domestic Channels Below Ground Systems

Channel Drain

	Product Code	Size / Description	N° per Pallet	Price Each €
	DOC.210	OsmaChannel 1m 80mm overall depth, complete with lockable galvanised grating	45	66.05
	DOC.260	OsmaChannel End Plate	1	24.51
	DOC.410	Osma RainChannel 1m 87mm overall depth, black polypropylene channel complete with self locking plastic grating	48	48.42
	DOC.460	RainChannel End Plate	10	6.04

Introduction to Chambers Below Ground Systems

Wavin Access Junctions, Inspection Chambers and Manhole Systems

Wavin has revolutionised the Irish Chamber market by offering an innovative suite of chambers from 315mm Access Junctions up to 1000mm Manholes.

Now there's a better, safer, more cost-effective way of keeping the way clear for maximum drainage and flow efficiency – The Wavin Chamber Range.

Wavin 315mm Access Junction (WAJ)

The 315mm Access Junction is the compact solution for 110mm and 160mm OD underground sewage and drainage systems around private housing developments and other buildings.

- ⌚ Full Plastic in PVC-U
- ⌚ Corrosion Resistant, durable
- ⌚ Adjustable frame and cover: Tilts and rotates to suit site conditions
- ⌚ Ten flow profile designs
- ⌚ Wafix Sealing Construction
- ⌚ Manufactured and independently certified to EN13598-1 and EN13598-2 (as applicable)

Wavin 450mm Inspection Chamber

The Wavin 450 non entry chamber is a solution for inspection points for 110mm and 160mm OD underground sewage and drainage pipe systems.

- ⌚ Lightweight
- ⌚ Easy to Install
- ⌚ Modular System: shaft can be built up to required length if NIC system required
- ⌚ Manufactured and independently certified to EN13598-2

Inspection Chambers and Manhole Systems

Tegra 600 Inspection Chamber

The Tegra 600 Inspection Chamber consists of the base, corrugated single wall shaft and adjustable cover.

Available in 6 different flow profiles. All flow profiles have adjustable base connections.

- ⌚ Manufactured and independently certified to EN13598-2

Tegra 1000 Inspection Chamber

The Tegra 1000 manhole base is available in 6 different flow profiles and is suitable for pipe connections from 60mm up to 400mm.

- ⌚ Complies with EN13598-2

All Tegra 1000 flow profiles with connections 160mm to 315mm can be supplied with adjustable connectors on request.

Important Note:

Fittings of all products must be ordered in their pack multiples as illustrated in price list.

Email: ie.info@wavin.com Tel: +353 (0) 1802 0202



What does 'WAJ' stand for?



Wavin Access Junctions



Other Access Junctions

- | | |
|--|---|
| <input checked="" type="checkbox"/> Wafix innovative triple seal which ensures a secure fit | <input type="checkbox"/> Single lip seal with potential for dislodgement |
| <input checked="" type="checkbox"/> Wavin Wafix socket profile ensures unique high angle of deflection | <input type="checkbox"/> Less connection flexibility due to low deflection angle |
| <input checked="" type="checkbox"/> WAJ loading category A15 clearly marked | <input type="checkbox"/> No visible loading category |
| <input checked="" type="checkbox"/> Independently certified to EN13598-1 ♡ | <input type="checkbox"/> No third party certification |
| <input checked="" type="checkbox"/> WAJ number clearly marked on both box and product | <input type="checkbox"/> No AJ markings making it difficult to identify in the merchants yard |
| <input checked="" type="checkbox"/> WAJ can be tilted on uneven surfaces | <input type="checkbox"/> Less flexibility for tilting on uneven surfaces |
| <input checked="" type="checkbox"/> Waste directional flow arrows | <input type="checkbox"/> No directional flow arrows leading to risk of installation errors |
| <input checked="" type="checkbox"/> Wall thickness (4.1mm) ensures a stronger fitting | <input type="checkbox"/> Lesser wall thicknesses |



wavin
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GROUND CONTROL

The launch of the WAJ was one small step for Wavin, one giant leap for the builder in Ireland. After all, Armstrong was a hard act to follow. Today's range of Wavin Access Junctions are used universally for flexibility and total ground control. Look up and you'll see another Wavin star, the versatile WAJ Riser. For total control, make certain the pipe and fittings you use are Wavin.



The all-round performer

Wavin Ireland Ltd | Balbriggan | Co Dublin | K32 K840
Tel: 01 8020202 | www.wavin.ie | ie.info@wavin.com













CONNECT TO BETTER

Inspection Chambers and Manholes Below Ground Systems




WAJ 110mm (4in)

Manufactured and independently certified to EN13598-1



	Product Code	Size / Description	Pack Qty	Pallet Qty	Price Each €
	D4150	WAJ 1 110mm (4in) Straight through	2	36	87.28
	D4151	WAJ 2 110mm (4in) Left or right hand 90° bend	2	36	102.61
	D4152	WAJ 3 110mm (4in) Left hand 90° junction	2	36	97.85
	D4153	WAJ 4 110mm (4in) Left hand 45° junction	2	36	97.85
	D4101	WAJ 5 110mm (4in) Left or right hand 45° junction	2	36	109.25
	D4154	WAJ 7 110mm (4in) Right hand 90° and 45° junction	2	36	109.25

	Product Code	Size / Description	Pack Qty	Pallet Qty	Price Each €
	D4156	WAJ 12 110mm (4in) Right hand 45° junction	2	36	97.85
	D4157	WAJ 13 110mm (4in) Right hand 90° junction	2	36	97.85
	D4158	WAJ 16 110mm (4in) Left hand 90° and 45° junction	2	36	109.24
	D4159	WAJ 18 110mm (4in) Two 90° inlet junction	2	36	115.48

WAJ Cover and Frame

	Product Code	Size / Description	Pack Qty	Pallet Qty	Price Each €
	D4492	WAJ Cover and Frame – A.15 loading 300 x 300mm WAJ Cover and frame	10	240	47.51
	D4490	300 x 300mm Cover A.15 Loading	10	240	31.69
	D4491	300 x 300mm Frame (Black)	1	–	15.87

Inspection Chambers and Manholes Below Ground Systems

	Product Code	Size / Description	Pack Qty	Pallet Qty	Price Each €
	D4493	WAJ Cover and Adjustable – A.15 loading WAJ Adjustable top/frame (terracotta)	1	–	44.50
	D4494	WAJ Cover and adjustable top/frame with locking screws	1	–	74.15
	D4183	WAJ Risers 315mm diameter x 150mm high	3	108	34.26

WAJ 160mm (6in)





Manufactured and independently certified to EN13598-2

	Product Code	Size / Description	Pallet Qty	Price Each €
	D4461	WAJ 1 160mm (6in) Base only straight through	–	174.73
	D4464	WAJ 4 160mm (6in) Base only left hand 45°	–	188.57
	D4465	WAJ 5 160mm (6in) Base only left or right hand 45°	–	212.14
	D4462	WAJ 12 160mm (6in) Base only right hand 45°	–	188.57

	Product Code	Size / Description	Pallet Qty	Price Each €
	D4471	1 Metre Shaft	9	82.93
	D4480	C I Cover and Skirt EN124.B125 loading	9	240.76

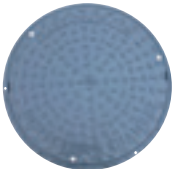



Wavin 450mm

Manufactured and independently certified to EN13598-1

	Product Code	Size / Description	Pallet Qty	Price Each €
	D4303	Universal Inspection Chamber Bases 110mm x 110mm	16	340.01
	D8923	160mm x 110mm	16	342.33
	D8922	160mm x 160mm	1	159.94
	D4304	Inspection Chamber Shaft 450mm	16	87.50

Inspection Chambers and Manholes

Below Ground Systems

	Product Code	Size / Description	Pallet Qty	Price Each €
	D8965	Circular Cover and Frame PP 3.5 KN lockable	1	74.40
	D4305	Inspection Chamber Plug (spare) 110mm	10	3.63
	D8936	Ductile Iron Cover and Frame EN124.B125 for Inspection Chambers	1	122.33
	D8938	Square Cover and Frame PP (BS EN 124) 50kn	1	70.70

An underground revolution by Wavin

Wavin has revolutionised the Irish Chamber market by offering an innovative suite of Chambers from 315mm access junctions up to 1000mm manholes.

Now there's a better, safer, more cost-effective way of keeping the way clear for maximum drainage flow efficiency – the Wavin Chamber range.

Meet the family



Wavin 315 (WAJ)

The compact solution to 110mm and 160mm OD underground sewage and drainage pipe systems



Wavin 450

A non-entry inspection chamber that allows access for inspecting, testing and cleaning. The Wavin 450mm is lightweight and easily installed



Tegra 600

A non-entry inspection chamber which provides excellent resistance to ground movement and heavy traffic loads. Available in six profiles with adjustable base connections. The Tegra 600 is an intrinsic part of the intelligent network solution.




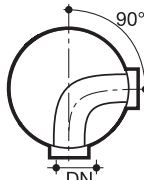
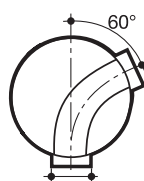
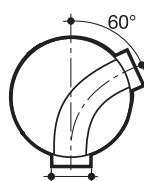
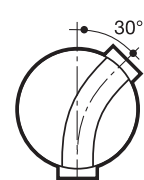
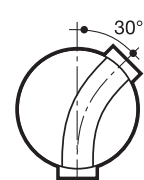
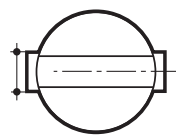
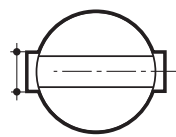

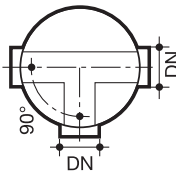
Tegra 1000

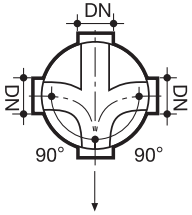


A man-entry inspection chamber which is airtight, waterproof, hydraulically superior, chemically resistant and has long term durability.

Inspection Chambers and Manholes Below Ground Systems



Tegra 600

Manufactured and independently certified to EN13598-2

	Product Code	Size / Description	Price Each €
		90° Bases	
	D2001533	160mm	160.43
	D2001530	200mm	163.41
	D2001531	250mm	195.24
	D2001532	315mm	210.17
			
		120° Bases (60°)	
	D2001541	160mm	161.20
	D2001538	200mm	163.55
	D2001539	250mm	199.69
	D2001540	315mm	215.65
			
		150° Bases (30°)	
	D2001537	160mm	160.05
	D2001534	200mm	163.81
	D2001535	250mm	196.19
	D2001536	315mm	208.76
			
		180° Bases	
	D2001525	160mm	156.72
	D2001526	200mm	166.17
	D2001527	250mm	192.31
	D2001528	315mm	207.81
			
		Base Tees	
	D3012391	160mm	167.92
	D3001917	200mm	173.28
	D3000243	250mm	216.08
	D3001919	315mm	236.43
			


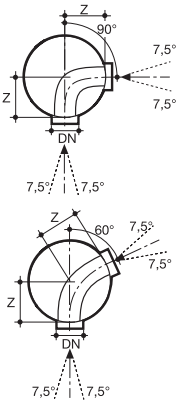
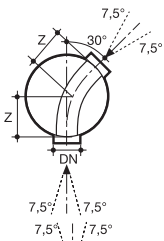
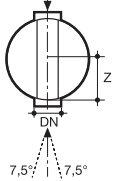
	Product Code	Size / Description	Price Each €
 		Base Crosses	
	D3012392	160mm	177.85
	D3000245	200mm	184.91
	D3000246	250mm	231.87
	D3000247	315mm	263.84
		Tegra 600 Shafts	
	D3071397	L= 1m	55.46
	D4027039	L= 6m	391.35
	D3024789	L= 3.65m with a socket	234.80
 		Blank Base	
	D4000666	Without inlets & outlets	150.84
		Accessories	
	D3066759	Tegra 600 Biscuit	117.48

Inspection Chambers and Manholes Below Ground Systems

	Product Code	Size / Description	Price Each €
		Tegra Adaptors	
	D4765	200mm x 9"	31.46
	D3066682	250mm x 9"	31.46
	D4767	315mm x 9"	47.19
	D3069836	Tegra In-Situ Connector 160mm	12.80
	D4764	Tegra In-Situ Connector 200mm	P.O.R
	D4005551	Tegra Hole Saw 160mm	309.80
	D4024645	Tegra Hole Saw 200mm	205.43

Tegra 1000 Manhole

Complies with EN13598-2

	Product Code	Size / Description	Price Each €
		Manhole Bases 90°	
	3041541	160mm	579.93
	3041545	200mm	551.69
	3041559	250mm	657.72
	3041585	315mm	628.75
		Manhole Bases 60°	
	3041544	200mm	553.38
	3041548	250mm	651.29
	3041584	315mm	622.27
		Manhole Bases 30°	
	3023767	200mm	552.80
	3041547	250mm	655.19
	3041583	315mm	625.65
		Manhole Bases 180°	
	D3041540	160mm	585.56
	D3023747	200mm	545.49
	D3041546	250mm	661.36
	D3023762	315mm	632.69
		45° Double Junction (Left or Right Inlet)	
	D3041542	160mm	657.29
	D3023791	200mm	576.54
	D3041560	250mm	745.15
	D3041586	315mm	687.28

Inspection Chambers and Manholes Below Ground Systems

Product Code		Size / Description			Price Each €
 	D3041543	160mm	90° Double Junction (Left or Right Inlet)		655.59
	D3023797	200mm			575.14
	D3041582	250mm			750.09
	D3041587	315mm			691.79
		D3023807	1000mm x 600mm opening	Manhole Cone	
	D4613	Note: Seals need to be ordered separately	Sealing Ring for Manhole		29.77
	D3023312	L= 1.2m	Manhole Shafts		183.79
	D3023311	L= 2.4m			350.93
	D3023310	L= 3.6m			505.21
	D3021035	L= 6.0m			825.78
		D3066758	Tegra 1000 Concrete Biscuit	Accessories	
	D4032050	1.63mm length	No. of Steps	No. of Brackets	200.52
	D4032049	2.83mm length	6	1	307.45
	D4032048	4.03mm length	10	1	449.64
	D4032047	5.23mm length	14	2	557.68
			18	2	
	D4032025	Ladder Strip plus 2 brackets	Ladder bracket		36.60
	D3040837		Ladder Plug		2.10

Stormwater Management Below Ground Systems

AquaCell Eco

Application

AquaCell Eco is manufactured from specially reformulated, recycled material and has been specifically designed for shallow, non-trafficked, landscaped applications. AquaCell Eco is NOT suitable for locations subject to high water tables.

AquaCell Eco is typically suitable for installations to a maximum depth of 1.5 metres, to the base of the units from ground level, with a minimum cover depth of 0.3 metres, (Wavin recommendation, is to allow a cover depth of 0.5 metres).

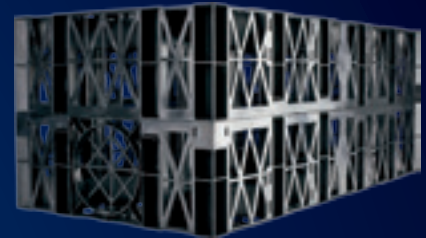
Any installation using AquaCell Eco must NOT be subjected to additional loading at any time. Trafficking by construction plant on site, including mechanical equipment, must be avoided.

If trafficking of the buried tank by construction plant or, other vehicles is unavoidable, the installation should be constructed using AquaCell Core units.

The width of an AquaCell Eco installation should not exceed 12 metres to allow for mechanical backfilling without loading. There is no limit to the length of the installation.

Features and Benefits

- ① Manufactured from specially reformulated, recycled material
- ① Suitable for both soakaway and attenuation applications
- ① Proven vertical loading capacity of: 17.5 tonnes/m²
- ① Proven lateral loading capacity of: 4.0 tonnes/m²
- ① Integral "hand holds" for ease of carrying/handling
- ① Black in colour, for ease of identification from other AquaCell units
- ① BBA approved – Certificate No 03/4018



AquaCell Prime

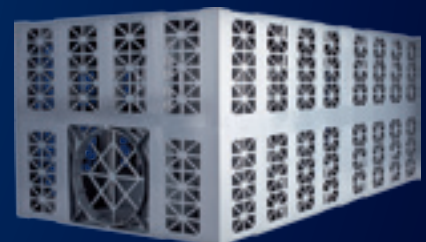
Application

AquaCell Prime is manufactured from specially reformulated, recycled material. It is ideal for use in both shallow and deep applications, subject to either regular traffic loading – such as car parks (for vehicles up to 12 tonnes) or for landscape areas.

Typically AquaCell Prime is suitable for installations to a maximum depth of 3.70m (landscaped) and 3.45m (trafficked), to the base of the units from ground level, in best soil conditions.

Features and Benefits

- ① Manufactured from specially reformulated, recycled material
- ① Suitable for both soakaway and attenuation applications
- ① Suitable for use in areas subject to regular traffic loading, i.e. car parks
- ① Proven vertical loading capacity of: 45.6 tonnes/m²
- ① Proven lateral loading capacity of: 7 tonnes/m²
- ① Grey in colour, for ease of identification from other AquaCell units
- ① BBA approved – Certificate No 03/4018
- ① Ideal for all types of projects including major attenuation and infiltration schemes



Stormwater Management Below Ground Systems

AquaCell Core

Application

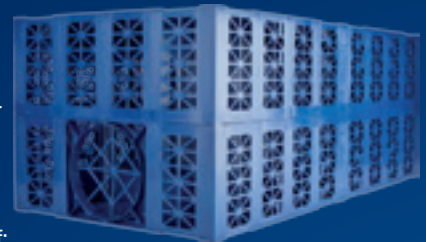
AquaCell Core has been designed for use in deep applications, subject to both regular and heavy traffic loadings, such as cars and HGV's (for vehicles up to 44 tonnes). In addition AquaCell Core can also be used for deep soakaways and landscaped applications.

Typically for use down to depths of 4.25m (landscaped), 4.1m (trafficked by cars) and 4m (trafficked by HGV's), to the base of the units from ground level, in best soil conditions.

Trafficking by heavy construction plant on site, including mechanical equipment, must be avoided until the minimum cover depth of 0.9 metres is in place.

Features and Benefits

- ① Suitable for regular and heavy traffic loadings
- ① Proven vertical loading capacity of: 56 tonnes/m²
- ① Proven lateral loading capacity of: 7.7 tonnes/m²
- ① Dark blue in colour, for ease of identification from other AquaCell units
- ① BBA approved – Certificate No 03/4018
- ① Ideal for all types of shallow and deep projects including major attenuation and infiltration schemes



AquaCell Plus

Application

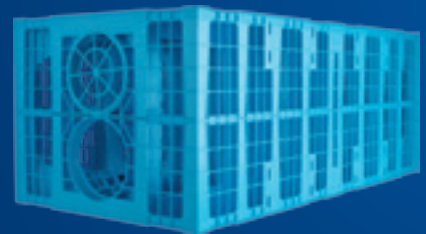
AquaCell Plus has been designed primarily for use in applications where inspectability is required, and is suitable for use in all applications from landscaped areas to heavily trafficked areas (for vehicles up to 44 tonnes). The units can be used in combination with AquaCell Prime and Core (and with Eco if there is at least one layer of AquaCell Prime or Core in between the Plus and Eco layer).

Extra lateral loading capacity allows installation at greater depths. Integral inspection channels in each unit combine to create viewing channels for the full length of the installed structure.

Typically for use down to depths of 5.08m (landscaped), 4.78m (trafficked by cars) and 4.48m (trafficked by HGV's), to the base of the units from ground level, in best soil conditions. Trafficking by heavy construction plant on site, including mechanical equipment, must be avoided until the minimum cover depth of 0.9 metres is in place.





Features and Benefits

- ① Suitable for extra deep installations
- ① Inspectable (supplied with end cap for use when an inspection channel is not required)
- ① Proven vertical loading capacity of: 65 tonnes/m²
- ① Proven lateral loading capacity of: 8.5 tonnes/m²
- ① Light blue in colour, for ease of identification from other AquaCell units
- ① BBA approved – Certificate No 03/4018

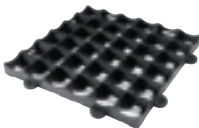
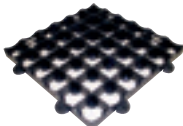




Stormwater Management Below Ground Systems

AquaCell Modular Units

	Product Code	Size / Description	Pack Qty	Price Each €
	E4568	AquaCell Eco 160mm	1	P.O.R
	E4567	AquaCell Prime 160mm	1	P.O.R
	E4560	AquaCell Core 160mm	1	P.O.R
	E4566	AquaCell Plus 160mm	1	P.O.R

AquaGrid

	Product Code	Size / Description	Pack Qty	Price Each €	
	E0AG550	AquaGrid 50 500mm x 500mm x 50mm, supplied complete with three pins	92	P.O.R	
	E0AG575	AquaGrid 75 500mm x 500mm x 75mm, supplied complete with three pins	60	P.O.R	
		Ancillary Items			
	E0AG502	AquaGrid Pins For use with both 50mm and 75mm units	90	P.O.R	
	E0AG504	AquaGrid Demarcation Blocks 50mm – for identification of car parking areas, for use with the 50mm deep systems	50	1	P.O.R
	E0AG505	75mm – for identification of car parking areas, for use with the 75mm deep systems	75	1	P.O.R

Q-Bic Plus Below Ground Systems

Introduction to Q-Bic Plus

The Q-Bic Plus geocellular system has been uniquely engineered to combine ease of access and speed of installation. The system is a fully BBA approved, modular SuDS technique for managing stormwater.

Applications

The Q-Bic Plus system can be used either as a temporary storage tank or a soakaway, particularly where accessibility into the tank is required. It is suitable for a wide range of landscaped and trafficked applications, including:

- Landscaped
- Parks
- Domestic gardens
- Residential developments
- Car parks & roads
- Industrial/commercial areas

Infiltration or attenuation?

The Q-Bic Plus range can be used either as:

- A soakaway (when using the Perforated Base Plate) whereby the units will be installed in suitable pervious soils so the units can be wrapped in a geotextile to allow infiltration of the stormwater into the surrounding ground, or
- As an attenuation tank (when using the Solid Base Plate) in impervious ground (e.g. clay) where infiltration is not possible, here the units are wrapped in a geomembrane (which is in turn wrapped in a protective geotextile layer) so that the structure can hold the stormwater temporarily until local drainage flows can accept it for normal disposal at a permissible outflow rate

Features & benefits

The Q-Bic Plus range can be used either as:

- Fully BBA approved under certificate No. 17/5394
- Proven vertical loading capacity of 32.5 tonnes/m² and lateral loading capacity of 10.8 tonnes/m²
- The open void structure gives class leading levels of access for inspection and maintenance, with;
 - 70% open floor space with both vertical and lateral access, allowing easy deployment of inspection and cleaning equipment
 - Inspection access and inlets/outlets that can be placed in almost any position
 - Guide channels inside the system, ensuring smooth, unobstructed access
- Fast, easy to install units, with push-fit functionality and patented integrated connectors, with no need for separate pegs or clips
- Modular design gives freedom to configure any shape of tank to suit the site conditions
- Lightweight and easy to carry with ergonomic hand grips and a walkable top deck
- Can be used as part of a SuDS scheme to help reduce flood risk

The Q-Bic Plus system is modular in its design and comprises of easy to install components that can be designed to create a tank or soakaway to suit the needs of a specific site. The components are explained below:

Connection Plate

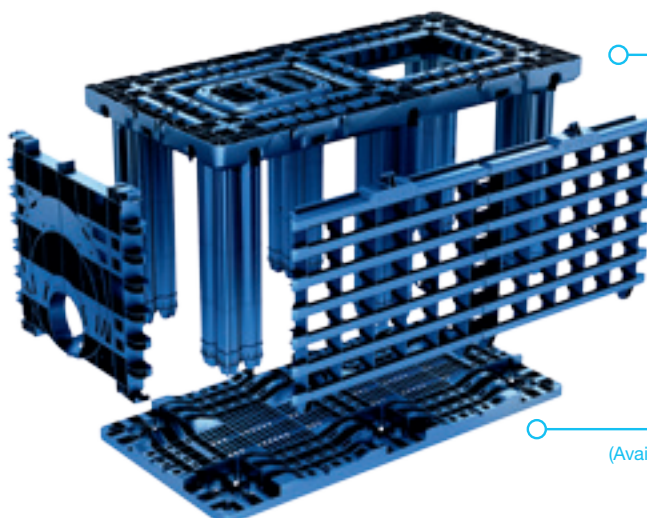
(Available with a 160mm dia open socket or 315mm dia open socket)

Column Unit

Side Plate

Base Plate

(Available as a solid or perforated plate)



Stormwater Management Below Ground Systems

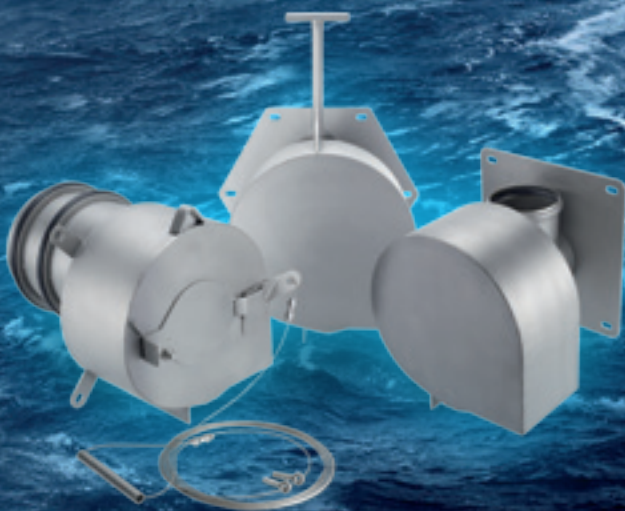
Q-Bic Plus

	Product Code	Size / Description	Pack Qty	Price Each €
	3059730	Q-Bic Plus Infiltration Unit 1200 x 600 x 600mm	1	P.O.R
	3059732	Q-Bic Plus Solid Base Plate (attenuation applications) 1200 x 600 x 70mm	1	P.O.R
	3059731	Q-Bic Plus Perforated Base Plate (infiltration applications) 1200 x 600 x 70mm	1	P.O.R
	3059733	Q-Bic Plus Lateral Side Plate (infiltration applications) 1184 x 543 x 50mm	1	P.O.R
	3070654	Q-Bic Plus Set Right & Left Side Plate 600mm	1	P.O.R
	3059735	Q-Bic Plus Kit Pipe Connector 160-400mm	1	P.O.R
	3023813	Q-Bic Plus Ventilation System 315mm	1	P.O.R

Stormwater Management

There's a
new force in
vortex valves

Wavin + Mosbaek
A powerful partnership






Wavin Ireland Ltd | Balbriggan | Co Dublin | K32 K840
Tel: 01 8020202 | www.wavin.ie | ie.info@wavin.com



CONNECT TO BETTER


Stormwater Management Below Ground Systems

Vortex Flow Control Valves

	Product Code	Size / Description	Price Each €
	—	Tornado* Comes complete with an integral pivoting bypass door and stainless steel wire rope, facilitating emergency drain-down from ground level. Spigot or plate fixing options available.	P.O.R
	—	Hurricane* Comes complete with lifting handle, which enables easy and convenient de-mounting/ mounting of the valve from ground level. Spigot or plate fixing options available.	P.O.R
	—	Typhoon* Comes complete with integral draindown facility via a removable up-stand pipe from ground level. Spigot or plate fixing options available.	P.O.R

* The vortex valves are bespoke and custom built for any required discharge rate, contact Technical Design for more information.

Oil Separators




	Product Code	Size / Description	Pack Qty	Price Each €
	NS3/300/FR	NS Oil Separator Range – Full Retention Including alarm – excluding shaft section and cover and frame NS3-EN858 class 1, Oil Separator – c/w alarm – 3 l/s with a 300 litre sand trap and a 110mm inlet / outlet	1	4999.46

Stormwater Management Below Ground Systems

	Product Code	Size / Description	Pack Qty	Price Each €
	NS3/600/FR	NS3-EN858 class 1, Oil Separator – c/w alarm – 3 l/s with a 600 litre sand trap and a 110mm inlet / outlet	1	7402.62
	NS6/600/FR	NS6-EN858 class 1, Oil Separator – c/w alarm – 6 l/s with a 600 litre sand trap and a 160mm inlet / outlet	1	7652.95
	NS10/1000/FR	NS10-EN858 class 1, Oil Separator – c/w alarm – 10 l/s with a 1000 litre sand trap and a 160mm inlet / outlet	1	7974.80
	NS6/600/BP*	NS Oil Separator Range – By-Pass Including alarm and by-pass – excluding shaft section and cover and frame NS6-EN858 class 1, Oil Separator – c/w alarm – 6 l/s with a 600 litre sand trap and a 160mm inlet / outlet	1	8868.85
	NS10/1000/BP*	NS10-EN858 class 1, Oil Separator – c/w alarm – 10 l/s with a 1000 litre sand trap and a 160mm inlet / outlet	1	9798.66
	NCS600	Ancillary Items Chamber Shaft – 600mm diameter – for use with all NS Oil Separation Chambers	1	536.43


*Non-stock item, lead time available on request.

Garastor System

	Product Code	Size / Description	Pack Qty	Price Each €
		Garastors		
	6SC500	Storm and Surface water control chamber 500mm dia x 1m deep unit *	1	P.O.R
	6SC501	500mm dia x 1.25m deep unit *	1	P.O.R
	6SC205	Ancillary Items – Garastor Extension Kit 500mm dia TwinWall coupler and 2 ring seals, shaft of TwinWall pipe also required	1	P.O.R
	6SC200	Garastor Connection Kit Section of 150mm TwinWall pipe (220mm in length) and 2 ring seals	1	P.O.R

*Non-stock item, lead time available on request.

Silt Traps




	Product Code	Size / Description	Pack Qty	Price Each €
	E6LB600	Silt Trap 500mm dia x 1.25m depth* For non loaded applications	1	1416.24

*Non-stock item, lead time available on request.

Stormwater Management Below Ground Systems

	Product Code	Size / Description	Pack Qty	Price Each €
	E6LB300	Domestic Silt Trap 250mm x 750mm depth with 110mm dia inlet and outlet spigots	1	204.39
	D4317	Domestic Silt Trap Cover 250mm Square Cover, 10.Kn Loading	1	37.50
	E6LB301	Extension Piece for 6LB300 250mm x 500mm depth (effective length = 335mm)	1	113.50
	6LB302	Silt Trap Bucket for 6LB300 200mm x 210mm depth	1	121.69

Stormwater Management Accessories

	Product Code	Size / Description	Pack Qty	Price Each €
	E6UR141	Ancillary Items – S/S Adaptor 150mm 6UR [▲] socket x 160mm BS EN 1401 spigot for connection of UltraRib to infiltration unit	1	86.49
	E6UR099	S/S Level Invert Reducer 150mm to 110mm pipe	1	31.76
	E6TW141	S/S Adaptor 150mm 6TW [●] socket x 160mm BS EN 1401 spigot	1	31.28

[▲] UR = UltraRib, [●] TW = TwinWall

	Product Code	Size / Description	Pack Qty	Price Each €
	D4113	S/S Level Invert Reducer 160mm to 110mm	1	P.O.R
	E4D916	PE Adaptor 160mm spigot connection to Wavin AquaCell	1	15.36
	E4552	Flange Adaptor 150mm 6UR socket for connection of UltraRib to infiltration unit at positions other than preformed opening (6LB104) Note : Made to order only	1	147.82
	E4556	Flange Adaptor 225mm 9UR socket for connection of UltraRib to infiltration unit (6LB106) Note : Made to order only	1	164.49
	E4565	AquaCell Clip (spare) For joining units (6LB105)	1	2.01
	E4562	AquaCell Shear Connector (spare) For joining in multi-layer installations (6LB102)	1	1.50
	6LB201	AquaCell Plus End Cap (spare) For blocking off unused inlets/outlets	1	P.O.R



PIONEERS OF TOMORROW
60
1958 - 2018

wavin
CONNECT TO BETTER

Alas, too many a lass still goes to the well.

The trek to the well went out when piped water came in. When Wavin first started the Group Water Scheme.

Even though thousands of rural families now enjoy the benefits of water as a result — the fact is that more than 200,000 Irish farm homes still do not have water on tap.

Startling isn't it, in this day and age? To be without the comfort and convenience of water for domestic and farm use.

The materials, the men, and the grants are there to help provide most every small community in Ireland with its own piped water supply. All it takes is a little community cooperation.

How about you and your neighbours? If you think it's high time you had water on tap, drop a line to Group Water Scheme, Wavin Pipes Limited, Balbriggan, Co. Dublin.

We'll send you all the helpful facts on what to do, who to see, how to get grants, and so on.



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Wavin pipes are made from
8400N PVC
supplied by
BP Chemicals International



"BP-Insulated" and "Briox" are trade marks of The British Petroleum Company Limited

Wavin Ireland Ltd | Balbriggan | Co Dublin | K32 K840
Tel: 01 8020202 | www.wavin.ie | ie.info@wavin.com

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CONNECT TO BETTER

WavinMain

Below Ground Systems

Hard uPVC Watermain Piping

Manufactured in accordance with EN1452






	Product Code	Size / Description	N° per Frame	Pressure Rating	Price Per Length €
		6m Length Pipes – Integral Socket			
	F2221	63mm	124	10 bar	64.81
	F2223	90mm	126	10 bar	121.49
	F2226	110mm	105	10 bar	177.74
	F2229	160mm	39	10 bar	321.79
	F2224	90mm	126	12.5 bar	151.85
	F2227	110mm	105	12.5 bar	222.15
	F2230	160mm	39	12.5 bar	402.30

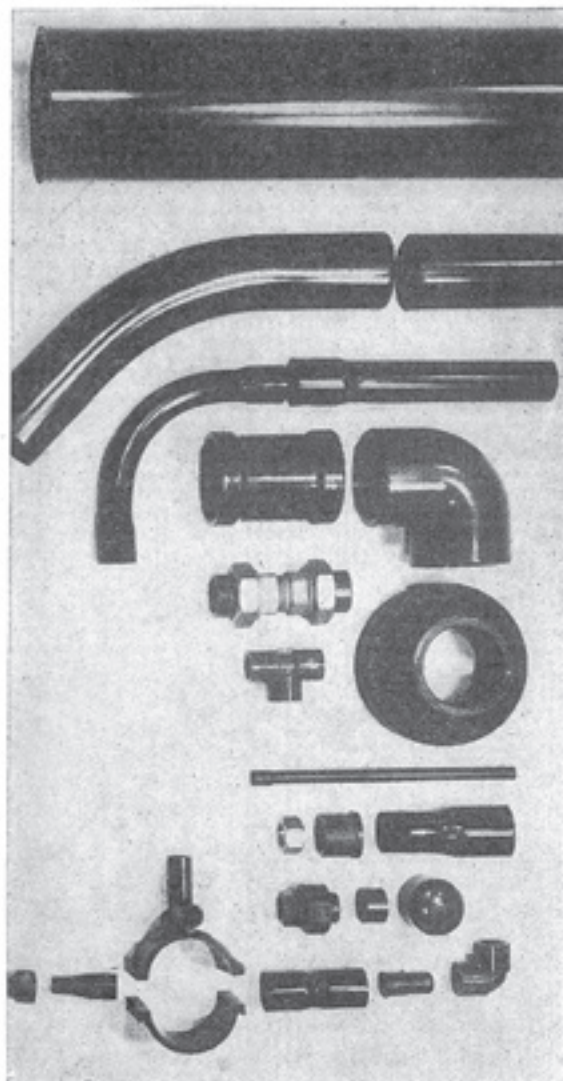
Couplers and Repair Collars (minus centre stop)

	Product Code	Size / Description	Pack Qty	Pressure Rating	Price Each €
		Couplers			
	F2231	63mm	56	12.5 bar	10.77
	F2233	90mm	26	12.5 bar	18.50
	F2235	110mm	18	12.5 bar	25.71
	F2237	160mm	8	12.5 bar	47.62
		Repair Collars			
	F2232	63mm	56	12.5 bar	13.82
	F2234	90mm	26	12.5 bar	26.14
	F2236	110mm	18	12.5 bar	33.54
	F2238	160mm	8	12.5 bar	67.13

WavinMain Below Ground Systems

Hard uPVC Watermain Fittings

	Product Code	Size / Description	Pack Qty	Pressure Rating	Price Each €
		90° Bends Inclusive of Socket			
	F2261	63mm	1	12.5 bar	27.01
	F2264	90mm	1	12.5 bar	56.18
	F2269	110mm	1	12.5 bar	74.79
	F2273	160mm	1	12.5 bar	210.47
		45° Bends Inclusive of Socket			
	F2262	63mm	1	12.5 bar	27.01
	F2266	90mm	1	12.5 bar	47.74
	F2270	110mm	1	12.5 bar	63.77
	F2274	160mm	1	12.5 bar	169.45
		22½° Bends Inclusive of Socket			
	F2263	63mm	1	12.5 bar	27.01
	F2267	90mm	1	12.5 bar	47.74
	F2271	110mm	1	12.5 bar	63.79
	F2275	160mm	1	12.5 bar	169.44
		11¼° Bends Inclusive of Socket			
	F2272	110mm	1	12.5 bar	63.78
	F2278	160mm	1	12.5 bar	169.44
	F2948	Wavinlite Lubricant 800gm Tub	12		12.88



And how much would these save you?

Just a few items from Wavin's cold-water systems in Hard PVC. In all bores from $\frac{1}{2}$ inch upwards (to 12 inches, if you need!) Lighter and cheaper than copper. Full range of precision-made couplings, bends, joints, inlets and what-have-you. All fit together in seconds with a dab of cement. Full details from your local stockist or Wavin Pipes Limited




Wavin Pipes Ltd., Balbriggan, Co. Dublin. Tel. 212260 (5 lines)
 WAVIN Hard PVC Piping / for cold water plumbing!

June 1965 Advertisement

Aquaforce Below Ground Systems

Pipes

Manufactured in accordance with BS PAS 27  Kitemark Licence No. 55037





	Product Code	Size / Description	N° per Frame	Pressure Rating	Price Per Length €
		6m Length Pipes-Integral Socket			
	F8103	110mm	114	10 bar	116.18
	F8105	110mm	114	12.5 bar	253.37
	F8107	110mm	114	16 bar	324.40
	F8104	160mm	46	10 bar	462.53
	F8106	160mm	46	12.5 bar	579.94
	F8108	160mm	46	16 bar	777.68

Note: Large sizes available, made to order (200mm/250mm/315mm)

Couplers and Repair Collars

	Product Code	Size / Description	Pack Qty	Pressure Rating	Price Each €
		Couplers			
	F8304	110mm	18	12.5 bar	56.89
	F8305	160mm	8	12.5 bar	63.93
		Repair Collars			
	F8314	110mm	18	12.5 bar	53.68
	F8315	160mm	8	12.5 bar	72.39

PVC-A Fittings

	Product Code	Size / Description	Pressure Rating*	Price Per Length €
		90° Bends		
	F8321 F8325	110mm 160mm	12.5 bar 12.5 bar	74.81 210.47
		45° Bends		
	F8322 F8326	110mm 160mm	12.5 bar 12.5 bar	63.77 169.45
		22½° Bends		
	F8323 F8327	110mm 160mm	12.5 bar 12.5 bar	63.79 169.45
		11¼° Bends		
	F8324 F8328	110mm 160mm	12.5 bar 12.5 bar	63.79 169.45



Every farmhouse should have one.

More than 160,000 homes still don't. Because they don't have a piped water supply.

Which is a pity in this age. Because help and now, increased grants are available through the Group Water Scheme, instituted by the Dept. of Local Government. Thousands of rural homes around

the country now enjoy the bountiful benefits of running water as a result of this Scheme.

To avail of it you've got to help yourself first. By getting together with your neighbours – and agreeing to cooperate. Then drop a line to the Department of Local Government, Group Water Scheme.

O'Connell Bridge House, Dublin 2 for all the facts on how to bring the Scheme to your area.

We come into the picture later with the pipe to carry the water – "Wavinmain" pipe and fittings. Wavin, Ireland's most popular PVC pipe for water, sewerage, and land drainage.

wavin




Wavin Pipes Ltd. Ballbriggan, Co. Dublin

1960's Advertisement

Polyethylene Pipe Below Ground Systems

Wavin Polyethylene (MDPE, HPPE)

Manufactured in accordance with EN12201

	Product Code	Size / Description	Length	Pressure Rating	Price Per Length €
		Medium Density PE (MDPE 80) – Blue			
	H9610	20mm	25m	12.5 bar	P.O.R
	H9614	20mm	50m	12.5 bar	P.O.R
	H5536	20mm	100m	12.5 bar	P.O.R
	H9611	25mm	25m	12.5 bar	P.O.R
	H5540	25mm	50m	12.5 bar	P.O.R
	H5537	25mm	100m	12.5 bar	P.O.R
	H5524	32mm	25m	12.5 bar	P.O.R
	H9615	32mm	50m	12.5 bar	P.O.R
	H5555	32mm	100m	12.5 bar	P.O.R
	H5541	50mm	100m	12.5 bar	P.O.R
	3038250	50mm	150m	12.5 bar	P.O.R
	H5550	63mm	100m	12.5 bar	P.O.R
		High Performance PE (HPPE 100) – Blue			
	H2997	90mm	12m	SDR 17	P.O.R
	H3019	90mm	100m	SDR 17	P.O.R
	H2991	110mm	12m	SDR 17	P.O.R
	H3018	110mm	100m	SDR 17	P.O.R
	H3024	125mm	12m	SDR 17	P.O.R
	H3025	125mm	100m	SDR 17	P.O.R
	H3029	160mm	12m	SDR 17	P.O.R
	H3017	180mm	12m	SDR 17	P.O.R
		High Performance PE (HPPE 100) – Blue			
	H2994	90mm	100m	SDR 11	P.O.R
	H2999	110mm	12m	SDR 11	P.O.R
	H3000	110mm	100m	SDR 11	P.O.R
	H3015	125mm	12m	SDR 11	P.O.R
	H3027	125mm	100m	SDR 11	P.O.R
	H3020	160mm	12m	SDR 11	P.O.R
	H3023	180mm	12m	SDR 11	P.O.R

16 Bar = SDR 11, 10 Bar = SDR 17 Note: SDR 9, SDR 21, SDR 26 and SDR 33 are available on request.

Standard Dimensional Ratio (SDR): The Standard Dimension Ratio (SDR) is used to describe the relationship between pipe diameter, wall thickness and therefore the pressure rating of the pipe. The relationship between the pipe OD and the wall thickness remains constant for all pipe sizes for a given pressure rating, and can be expressed in the following equation:

$$\text{SDR} = \frac{\text{Pipe Outside Diameter (minimum)}}{\text{Pipe Wall Thickness (minimum)}}$$

Crack Resistant Pipe Below Ground Systems

Wavin Polyethylene Pipe

Applications

Increasingly, conventional PE pressure pipe installation in an equalizing bed is being replaced by trenchless procedures such as, for example, ploughing, horizontal drilling or bursting, as well as pipe installations without an equalizing bed. Such alternative installation methods, however, expose the pipes to additional short and long-term loads, such as those resulting from adjacent stones or obstacles in the bedding zone.

It has been shown that PE 100 standard materials are unable to achieve their anticipated 100-year service life where these additional stresses are present. As a result, Wavin, working in conjunction with the raw materials industry, invented the first pressure pipe design capable of resisting these stresses for more than 100 years. Today, the employed raw material is known as PE 100-RC.

Introduction to SafeTech RCⁿ

Wavin SafeTech RCⁿ is a coextruded two-layer pipe with protective properties, made from PE 100-RC materials. The acronym "RC" in the name PE 100-RC stands for "resistance to crack" and describes the resistance of a pipe material to slow crack growth. The outer signal layer, which makes up approximately 10% of the pipe wall thickness, is coloured according to the medium that is to be transported.

SafeTech RCⁿ is a PE 100-RC pipe that not only complies with European standards, but also satisfies the minimum requirements of the German PAS 1075 (publicly available specification).

System Benefits

- ① Coextruded PE 100-RC pipe with an approx. 10% outer layer, coloured for the medium
- ① Resistance against crack
Resistance against slow crack growth is ten times better compared to standard PE 100 pipes
- ① Directional Drilling
Wavin SafeTech RCⁿ pipes are suitable for all No-Dig or trenchless installations

Introduction to TS^{DOQ}

Wavin was challenged to develop a pressure pipe of which the service life would not be affected by outside damages (scoring and point loads). Point loads were an increased danger when new installation techniques (e.g. trenchless applications and installations without sand embedding) were introduced.

To meet this challenge Wavin developed its superior Wavin TS^{DOQ} (Total Security) pipe system.

Wavin TS^{DOQ} is a co-extruded three-layer pipe with inner and outer protection layers made of the innovative, extremely robust plastic XSC 50. The middle layer is made of black coloured PE 100 RC material. The three layers are integrated and cannot be separated mechanically.

System Benefits

- ① Optimum protection
Protection against point loads and surface damages
- ① Very long service life
Even with outside damages
- ① Installations with excavated trench material
No sand embedding needed
- ① Expansion of quality assurance
Wavin has expanded the quality assurance measures employed for the manufacture of Wavin TS^{DOQ}. The system not only fully complies with materials requirements according to PAS 1075, Wavin TS^{DOQ} also ensures that pipe production meets the highest quality levels (PE 100 RC + DOQ quality)
- ① Ideal for trenchless installation of new pipelines
For example horizontal directional drilling and mole ploughing
- ① To be handled as regular PE 100 pipes
Regarding bendability and fuse-ability



Crack Resistant Pipe Below Ground Systems

SDR Overview

SDR ratings/wall thicknesses for PE 100(-RC) potable water supply pipes

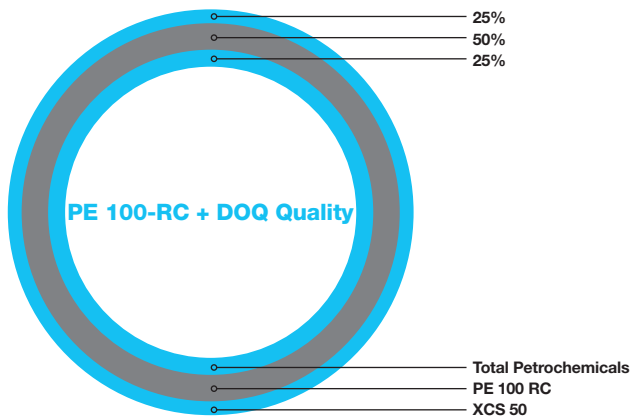
DA mm	DN For Flange Joints	PE100		PE100	
		Wavin Safetech RC ⁿ		Wavin TS ^{DOQ}	
		SDR 17	SDR 11	SDR 17	SDR 11
32	25	–	–	–	3.0*
40	32	–	–	–	3.7*
50	40	–	–	–	4.6*
63	50	–	–	–	5.8*
75	65	–	–	–	6.8*
90	80	5.4	8.2	–	8.2
110	100	6.6	10	–	10
125	100	7.4	11.4	–	11.4
140	125	8.3	12.7	–	12.7
160	150	9.5	14.6	–	14.6
180	150	10.7	16.4	–	16.4
200	200	11.9	18.2	–	18.2
225	200	13.4	20.5	13.4	20.5
250	250	14.8	22.7	14.8	22.7
280	250	16.6	25.4	16.6	25.4
315	300	18.7	28.6	18.7	28.6
355	350	21.1	32.2	21.1	32.2
400	400	23.7	36.3	23.7	36.3
450	500	26.7	40.9	26.7	40.9
500	500	29.7*	45.4*	29.7*	45.4*
560	600	33.2*	50.8*	33.2*	50.8*
630	600	37.4*	57.2*	37.4*	57.2*

SDR ratings/wall thicknesses for PE 100(-RC) waste water disposal pipes

DA mm	DN For Flange Joints	PE100		PE100	
		Wavin Safetech RC ⁿ		Wavin TS ^{DOQ}	
		SDR 17	SDR 11	SDR 17	SDR 11
50	50	–	–	–	4.6*
63	50	–	–	–	5.8*
75	65	–	–	–	6.8*
90	80	5.4	8.2	–	8.2
110	100	6.6	10	–	10
125	100	7.4	11.4	–	11.4
140	125	8.3	12.7	–	12.7
160	150	9.5	14.6	–	14.6
180	150	10.7	16.4	–	16.4
200	200	11.9	18.2	–	18.2
225	200	13.4	20.5	13.4	20.5
250	250	14.8	22.7	14.8	22.7
280	250	16.6	25.4	16.6	25.4
315	300	18.7	28.6	18.7	28.6
355	350	21.1	32.2	21.1	32.2
400	400	23.7	36.3	23.7	36.3
450	500	26.7	40.9	26.7	40.9
500	500	29.7*	45.4*	29.7*	45.4*
560	600	33.2*	50.8*	33.2*	50.8*
630	600	37.4*	57.2*	37.4*	57.2*

*Solid wall

TS^{DOQ}

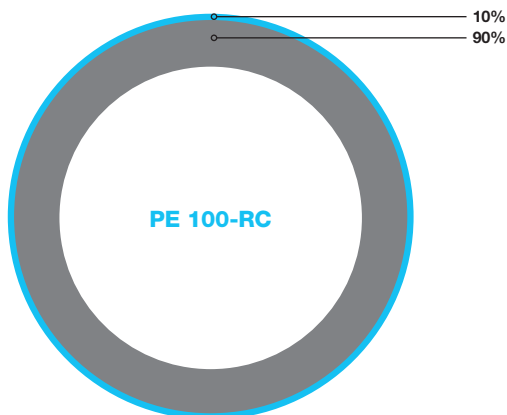


Three layer pipe

- ② Outside protection layer, against damages and scratches
- ② Inside protection layer, against long term point loads
- ② Full stress crack resistance



Safetech RCⁿ

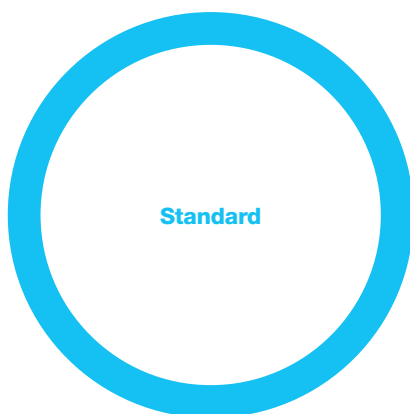


Two layer pipe

- ② Inside protection layer



Wavin PE



One layer pipe

- ② Single wall pipe
- ② Standard PE pipe
- ② Open trench, installation in sandbedding



Electrofusion Fittings Below Ground Systems

Introduction to Electrofusion Fittings

Key Approvals and Standards

All Wavin products are manufactured under a quality management system accredited to BS EN ISO 9001: 2000 (certificate No. FM00217) and which is listed in the BSI Register of Assessed Capability. Wavin pressure Pipe systems have all the relevant approvals where applicable.

PE Pipe for Potable and Non-potable Water

- BS 6920: 2000 Specification for suitability of non-metallic products for use in contact with water intended for human consumption with regard to their effect on the quality of the water

PE Pipes

- BS EN 12201: 2003 Plastic piping systems for water supply
- Polyethylene (PE)
- WIS 4-32-17 Specification for PE80 and PE100 blue and black polyethylene pipes for nominal sizes 20-160mm for pressurised water supply and sewerage duties

PE Fittings

- BS EN 12201: 2003 Plastic piping systems for water supply
- Polyethylene (PE)

Key to Abbreviations

BI – Black

Important Note:

All Wavin Electrofusion Fittings have pin size 4.0mm. For use with UK Electrofusion machines, 4.7mm adaptors may be required. EF pins or EF LED Adaptors.

Wavin Electrofusion stub flanges are not supplied with backing rings/flanges. These items need to be ordered separately.

Please quote part number when ordering.




Email: ie.info@wavin.com Tel: +353 (0) 1802 0202



Electrofusion Fittings

	Product Code	Size / Description	Pressure Rating	Price Each €
		Couplers		
	GF5705	63EF	16 Bar	P.O.R
	GF5110	90EF	16 Bar	P.O.R
	GF5130	110EF	16 Bar	P.O.R
	GF5715	125EF	16 Bar	P.O.R
	GF5717	160EF	16 Bar	P.O.R
	GF5718	180EF	16 Bar	P.O.R
		Reducers		
	GF5833	32x25EF	16 Bar	P.O.R
	GF5627	90x63EF	16 Bar	P.O.R
	GF5628	110x90EF	16 Bar	P.O.R
	GF5602	125x90EF	16 Bar	P.O.R
	GF1074	180x110EF	16 Bar	P.O.R
	GF1091	180x125EF	16 Bar	P.O.R
	GF1033	180x160EF	16 Bar	P.O.R
		Elbows 90°		
	GF5816	63EF	16 Bar	P.O.R
	GF5617	90EF	16 Bar	P.O.R
	GF5618	110EF	16 Bar	P.O.R
	GF5619	125EF	16 Bar	P.O.R
	GF5820	160EF	16 Bar	P.O.R
	GF5856	180EF	16 Bar	P.O.R
		Elbows 45°		
	GF5806	63EF	16 Bar	P.O.R
	GF5620	90EF	16 Bar	P.O.R
	GF5621	110EF	16 Bar	P.O.R
	GF5622	125EF	16 Bar	P.O.R
	GF5810	160EF	16 Bar	P.O.R
	GF5855	180EF	16 Bar	P.O.R
		Equal Tees 90°		
	GF5826	63EF	16 Bar	P.O.R
	GF5623	90EF	16 Bar	P.O.R
	GF5624	110EF	16 Bar	P.O.R
	GF5600	125EF	16 Bar	P.O.R
	GF5830	160EF	16 Bar	P.O.R
	GF5857	180EF	16 Bar	P.O.R
		Tapping Saddles		
	GF1934	63x32EF	16 Bar	P.O.R
	GF1953	90x25EF	16 Bar	P.O.R
	GF1954	90x32EF	16 Bar	P.O.R
	GF1963	110x25EF	16 Bar	P.O.R
	GF1964	110x32EF	16 Bar	P.O.R
	GF1973	125x25EF	16 Bar	P.O.R
	GF1974	125x32EF	16 Bar	P.O.R
	GF1993	160x25EF	16 Bar	P.O.R
	GF1994	160x32EF	16 Bar	P.O.R
	GF1503	180x25EF	16 Bar	P.O.R
	GF1504	180x32EF	16 Bar	P.O.R

Electrofusion Fittings Below Ground Systems


	Product Code	Size / Description	Pressure Rating	Price Each €
		Stub Flanges (Flange Adaptor)		
	GF0011	63mm	16 Bar	P.O.R
	GF0013	90mm	16 Bar	P.O.R
	GF0014	110mm	16 Bar	P.O.R
	GF0015	125mm	16 Bar	P.O.R
	GF0017	160mm	16 Bar	P.O.R
	GF0018	180mm	16 Bar	P.O.R
		Backing Rings (Steel PN16)		
	GF4393	63/DN 50	16 Bar	P.O.R
	GF4395	90/DN 80	16 Bar	P.O.R
	GF4396	110/DN 100	16 Bar	P.O.R
	GF4397	125/DN 100	16 Bar	P.O.R
	GF4382	160/DN 150	16 Bar	P.O.R
	GF4398	180/DN 150	16 Bar	P.O.R
		End Caps		
	GF5955	63EF PF (with integral pipe fixation)	16 Bar	P.O.R
	GF5937	90EF	16 Bar	P.O.R
	GF5938	110EF	16 Bar	P.O.R
	GF5939	125EF	16 Bar	P.O.R
	GF5943	160EF	16 Bar	P.O.R
	GF5942	180EF	16 Bar	P.O.R
		Lead Adaptors		
	GF5214	EF Lead Adaptors (Pair)	–	P.O.R

Note 1: All Wavin Electrofusion Fittings have pin size of 4.0mm. For use with UK electrofusion machines, 4.7mm adaptors may be required-EF pins of EF LED adaptors.






Note 2: Wavin Electrofusion stub flanges are not supplied with backing rings/flanges. These items need to be ordered separately. Class B and Eircom duct bends also available

Duct Below Ground Systems

Pipes

	Product Code	Size / Description	Pipes per Frame	Price Per Length €
		Ducting Pipes Socketed*		
	M8505	60mm	132	28.68
	M8512	100mm	137	53.34
	M8506	110mm	114	69.71
	M8511	160mm	46	132.64
	M8514	110m B Class Duct	114	174.47
	M8510	100mm Eircom Solid Wall U PVC Duct	137	25.80
	M8525	110mm Public Lighting Duct Red PVC	114	P.O.R

Fittings




	Product Code	Size / Description	Pack Qty	Price Each €
		Bends 90° Socketed		
	M9001	60mm	1	12.41
	M1157	100mm	1	22.13
	M9007	110mm	1	34.08
	M9009	160mm	1	68.85
		Bends 45° Socketed		
	M9010	60mm	1	11.17
	M1161	100mm	1	19.88
	M9005	110mm	1	30.66
	M9016	160mm	1	61.84
		Bends 22½° Socketed		
	M1142	100mm	1	21.48
	M9003	110mm	1	30.66
	M9017	160mm	1	61.84
		Bends 11¼° Socketed		
	M9002	110mm	1	30.66
	M9018	160mm	1	61.84
		Straight Connectors		
	M9008	60mm	1	2.24
	M1096	100mm	1	4.94
	M9020	110mm	1	3.54
	M9021	160mm	1	8.52

*Other speciality ducting pipe such as 450Kn etc, are available upon request





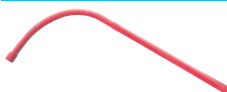




Duct Below Ground Systems

Pipes

	Product Code	Size / Description	Pipes per Frame	Price Per Length €
	M1999	ESB PVC 125mm S/S 6m length	77	54.54
	M2002	160mm S/S 6m length	46	93.74
	M1915	ESB Coils Plain Ended 50mm x 50m	1	187.70
	M1914	50mm x 100m	1	375.44
	M1913	Straight Length Plain Ended Polyethylene Duct 50mm x 6m length	144	42.88

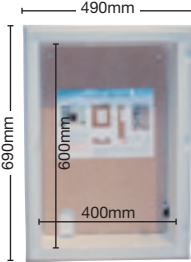
Fittings

	Product Code	Size / Description	Pack Qty	Price Each €
	M1926	ESB Bends 90° 44mm	1	25.89
	M1901	125mm	1	109.31
	M1921	160mm	1	187.86
	M1902	ESB Bends 45° 125mm	1	109.31
	M1922	160mm	1	187.86
	M1903	ESB Bends 22½° 125mm	1	93.58
	M1923	160mm	1	160.86
	M1904	ESB Bends 11¼° 125mm	1	93.59
	M1924	160mm	1	160.86
	M1925	Hockey Stick 44mm	1	27.17
	M1935	PVC Connectors 50mm	–	6.36
	M1906	125mm	–	11.40
	M1908	PVC Repair Collar 125mm	–	16.92

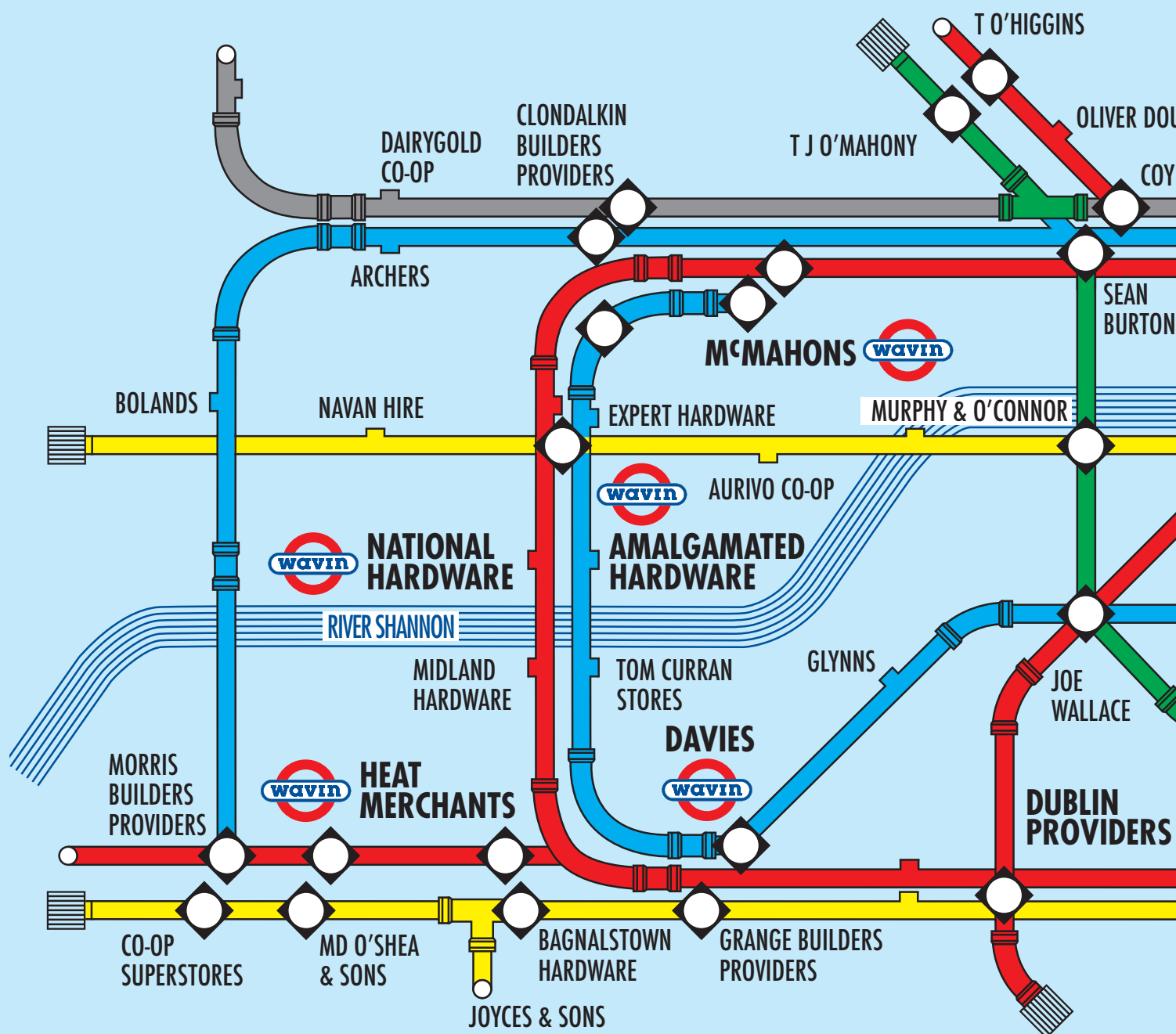
Meter Boxes

Below Ground Systems

Fittings

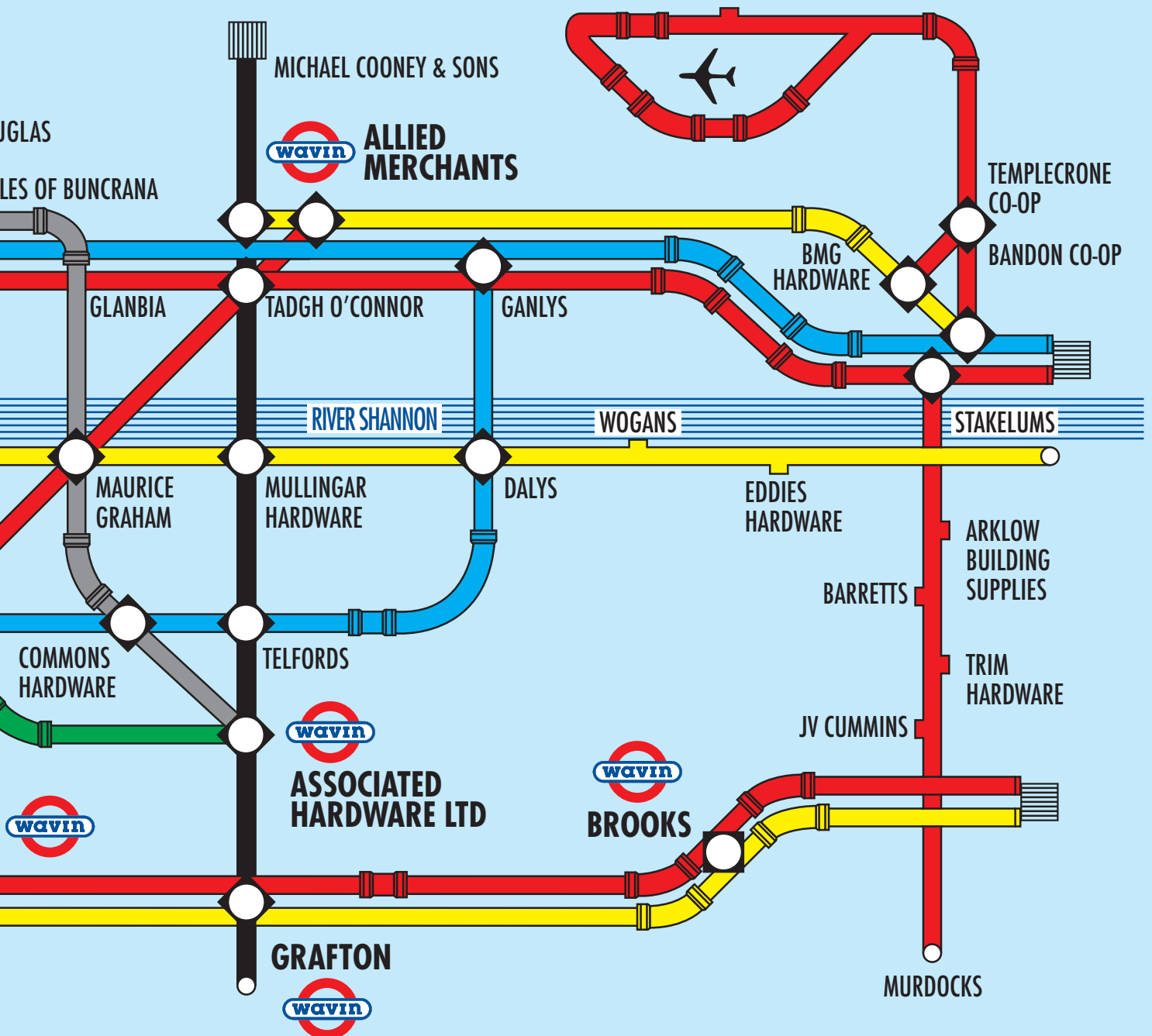
	Product Code	Size / Description	Pack Qty	Price Each €
	Q0055	Meter Cupboard ESB Meter Cupboard	60	122.26
	Q0057	ESB Meter Cupboard Door	1	66.47
	Q0058	ESB Meter Cupboard Key	1	2.84

IRELAND'S UNDERGROUND SYSTEM





Pipes and fittings



CONNECT TO BETTER

Wavin rainwater systems

The range offers a choice of five rainwater gutter profiles to meet the varying aesthetic, performance and installation requirements for all types of building, from single dwelling to large residential, commercial or industrial premises.

Gutter Profiles
PVC-U Rainwater
System



Domestic



RoundLine
112mm (4½")
Half-round
gutter



SquareLine
100mm (4")
Square section
gutter



StormLine
111mm (4¼")
Ogee profile
gutter



DeepLine
112mm (4½")
Half-round
gutter



SuperLine
125mm (5")
Half-round
gutter



RoofLine
150mm (6")
Half-round
gutter

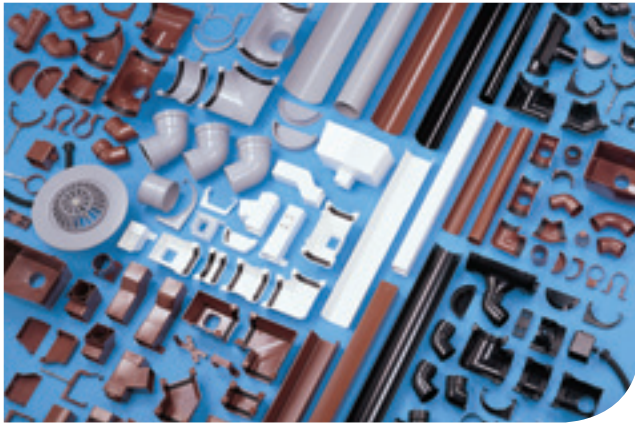
Industrial & Commercial

Wavin Ireland Ltd | Balbriggan | Co Dublin | K32 K840
Tel: 01 8020202 | www.wavin.ie | ie.info@wavin.com



CONNECT TO BETTER

Introduction to Rainwater Above Ground Systems



The Wavin range offers a choice of five rainwater gutter profiles to meet the varying aesthetic, performance and installation requirements for all types of building, from single dwelling to large residential, commercial or industrial premises. In addition, Wavin roof outlets provide efficient and reliable drainage for flat roofs.

Key to abbreviations

Bk	Black
G	Grey
W	White
P/E	Pipe and Fittings with both ends plain or with one plain end and one special end.
S/S	Pipe and Fittings with one or more ring-seal or push-fit sockets, but always one plain or special end.
D/S	Fittings with ring-seal or push-fit sockets at all ends.
S/SW	Fittings with one or more ring-seal sockets but always one solvent socket.
SW/S	Fittings with one or more solvent sockets and one plain or special end.
D/SW	Fittings with solvent sockets at all ends.

Important Note:

Fittings of all products must be ordered in their pack multiples as illustrated in price list.

Gutter Profiles

StormLine 111mm – Classic Ogee Rainwater System

- Smart, efficient rectilinear profile
- Suitable for domestic and small commercial buildings
- For roof areas up to a maximum of 220m/sq with one downpipe
- Compatible with both 61mm SquareLine and 68mm RoundLine downpipes systems without adaptors
- Available in Black and White

SquareLine 100mm (4") – Square Section Gutter System

- Smart, efficient rectilinear profile
- Suitable for domestic buildings
- For roof areas up to a maximum of 148m/sq with one downpipe
- Connects to 61mm square (via adaptor) 68mm round downpipes, installed either flush to the wall or off the wall
- Available in Black and White

RoundLine 112mm (4½") – Half-round Gutter System

- Classic, simple shape
- Ideal for domestic/housing projects
- For roof areas up to a maximum of 115m/sq with one downpipe
- Connects to 68mm round downpipe
- Available in Black, White and Grey

DeepLine 112mm (4½") – Half-round Gutter System

- DeepLine is a semi-elliptical profile gutter
- Ideal for domestic/housing projects
- Compact higher capacity domestic system
- Connects to 68mm round downpipe
- Available in Black

SuperLine 125mm (5") – Half-round Gutter System

- Versatile system offering excellent volume removal rate
- Suitable for large domestic roof areas and small commercial buildings
- For roof areas up to a maximum of 180m/sq with one downpipe
- Connects to 68mm round downpipe
- Available in Black, White and Grey

RoofLine 150mm (6") – Half-round Gutter System

- Very high capacity in a classic profile
- Suitable for large commercial and industrial buildings
- For roof areas up to a maximum of 310m/sq with one downpipe
- Connects to 110mm (4") round downpipe
- Available in Black and Grey

Please quote part number when ordering.

Email: ie.info@wavin.com Tel: +353 (0) 1802 0202



Now
a rainwater system
that needs no
maintenance!

this gutter will never need
paint, never need any
maintenance work, just
put it up and forget it.



It's strong



it's rigid



it's light



it's
simple
to erect

This Wavin P.V.C. is designed to stand up to the roughest conditions. Unbelievably strong—it's made from tough unplasticised P.V.C. which makes it impervious to atmospheric corrosion, consequently saving you the cost of painting and repair work.

The Wavin gutter is reinforced by the introduction of a special feature called "Profiling" which gives strength where most needed. This unique feature (patent applied for) ensures extra rigidity making the Wavin gutter the best on the market.

The Wavin gutter is extremely light. In fact—a twelve foot length of Wavin profiled gutter weighs less than 5 lbs. This makes it easy to handle, easy to carry about. A great advantage when you are working on top of a ladder.

The Wavin gutter couldn't be more simple to erect. No cements. No adhesives. No gutter bolts. The parts simply "CLICK" together. You can put up the Wavin system in far less time and with far less trouble than the conventional systems.

If you've ever had the job of erecting, painting or repairing a rainwater system . . . you'll welcome this new Wavin system . . . it wipes out all that sort of drudgery. It is technically superior to most other rainwater systems. It's simple to erect and it is completely modern. The Wavin System is approved for grants by the Department of Local Government.

Get the facts on this new **WAVIN PVC PROFILED RAINWATER SYSTEM**

Designed, Developed and Manufactured in Ireland by

June 1965 Advertisement

Rainwater Above Ground Systems

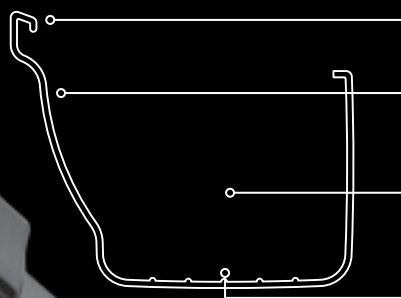
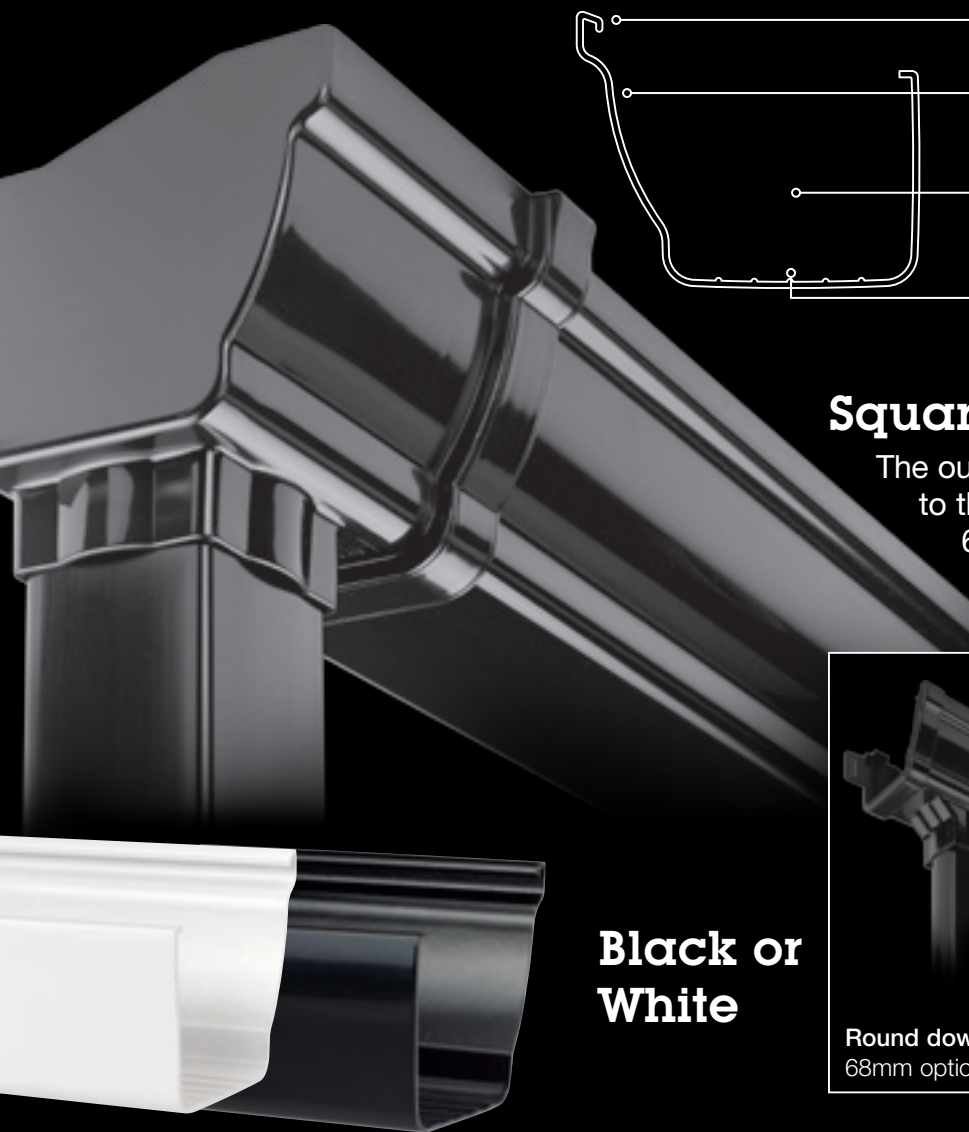
Wavin StormLine

Manufactured to comply with BS EN 607/1462

	Product Code	Description	Nom Dia mm	Pack Qty	Colour Ref	Price Each €
	T9874	Gutter 4.0m	111	4	Bk W	42.08
	Gutter Union, Brackets and Spacer					
	T9809	Gutter Union	111	10	Bk W	7.00
	T9819	Gutter Support Bracket	111	10	Bk W	2.97
	T9849	Gutter Hanging Bracket	111	20	Bk W	3.47
	T0044	Gutter Spacer Bracket	111	20	Bk W	1.40
	Outlets and Stopends					
	T9841	Stopend – External LH	111	10	Bk W	5.78
	T9851	Stopend – External RH	111	10	Bk W	5.78
	T9840	Stopend – Internal LH	111	5	Bk W	4.83
	T9850	Stopend – Internal RH	111	5	Bk W	4.83
	T9807	Stopend Outlet LH	111	5	Bk W	10.22
	T9808	Stopend Outlet RH	111	5	Bk W	10.22
	T9806	Running Outlet	111	5	Bk W	12.27
	Gutter Angles					
	T9843	90° Internal Seals	111	5	Bk W	12.49
	T9853	90° External Seals	111	5	Bk W	12.49
	T9844	45° Internal Seals	111	5	Bk W	12.49
	T9854	45° External Seals	111	5	Bk W	12.49
	T9798	Fabricated Angle	111	1	Bk W	27.54
	Spares					
	T9864	Gutter Seal	–	1	Bk	1.45
	T9816	Flexiclip	–	1	Bk W	0.96

Note: For details of 61mm (2¼") and 68mm (2½") pipe and fittings to use with the StormLine Rainwater Systems – See pages 90 and 94.

StormLine



High front edge

To catch and control run-off, and prevent overshoot

Internal rail

To provide forward fixing point for concealed hanging bracket

High capacity

To cope with intense rainfall volumes

Internal ribs

To help flow through of water – and reduce blockages

Square or Round

The outlet itself enables direct connection to the existing 61mm square or 68mm round downpipe systems – without requiring any adaptor.



Round downpipe
68mm option



Square downpipe
61mm option

Black or White

Fixing holes

Alternative option: angled for accessibility

Side fixing wings

To enable line and level adjustment

Screw retainer

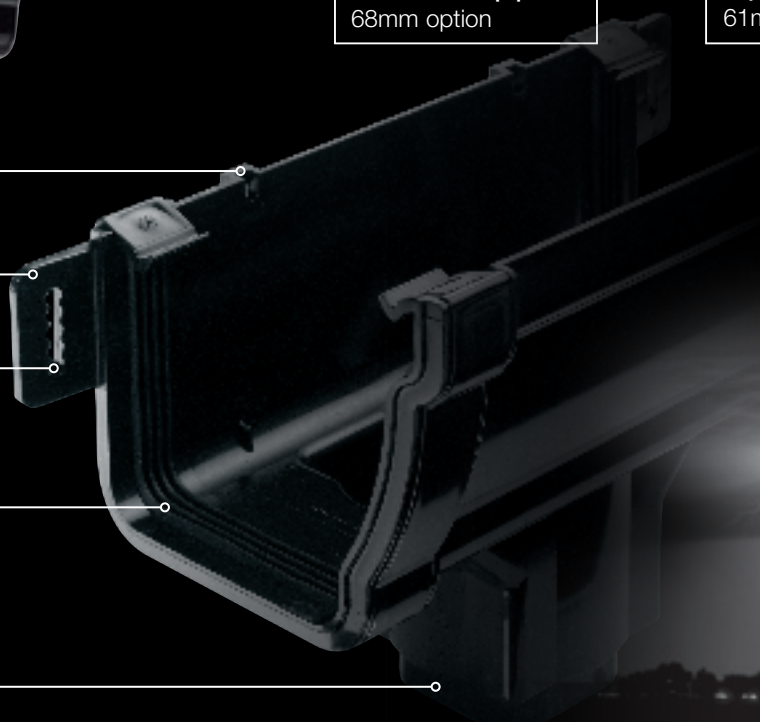
Unique: to hold first-fix screws in place

Bespoke seal

Multi-ribbed for extra sealing contact

Downpipe restraint

More secure hold: valuable for needs of taller buildings



Wavin SquareLine

Manufactured to comply with BS EN 607/1462

	Product Code	Description	Nom Dia mm	Pack Qty	Colour Ref	Price Each €
	T8874	Gutter 4.0m	100	5	Bk W Bn	34.24
	T8805	Brackets and Gutter Union Gutter Joint Bracket	100	20	Bk W Bn	4.77
	T8809	Gutter Union	100	10	Bk	6.85
	T8809	Gutter Union	100	5	W Bn	6.85
	T8819	Gutter Support Bracket	100	20	Bk W Bn	1.97
						
	T8806	Outlets and Stopends Running Outlet	100	10	Bk W Bn	10.78
	T8811	Stopend – External	100	10	Bk W Bn	3.54
	T8810	Stopend – Internal	100	5	Bk W Bn	2.88
	T8807	Stopend Outlet	100	10	Bk W Bn	7.43
	T8803	Gutter Angles 90°	100	10	Bk W Bn	8.76
	T8804	45°	100	5	Bk W Bn	9.19

Rainwater Above Ground Systems

Wavin Square Down Pipe Systems

Manufactured to comply with BS EN 607/1462

(To suit SquareLine and StormLine)

	Product Code	Description	Nom Dia mm	Pack Qty	Colour Ref	Price Each €
		Down Pipes				
	T8884	4.0m Pipe – Plain Ended	61	5	Bk W Bn	34.24
	T8888	5.5m Pipe – Plain Ended	61	5	Bk W Bn	49.76
		Pipe Brackets and Connectors				
	T8823	Pipe Connector	61	5	Bk W Bn	5.99
	T8834	Pipe Bracket	61	5	Bk W Bn	2.78
		Bends, Shoe and Wall Offsets				
	T8862	Pipe Bend – 87.5°	61	5	Bk W Bn	8.47
	T8838	Pipe Wall Offset	61	10	Bk W Bn	4.82
	T8835	Pipe Branch – 67.5°	61	5	Bk W Bn	14.29
	T8825	Offset Bend – Socket	61	20	Bk W Bn	5.11
	T8826	Offset Bend – Spigot	61	10	Bk W Bn	5.11
	T8832	Pipe Shoe and Bracket	61	5	Bk W Bn	6.47
	T8816	Flexiclip	–	1	Bk W Bn	0.82
	T8837	2 ¼" Outlet Adaptor – Square to Round	61	5	Bk W Bn	8.46

Wavin RoundLine









Manufactured to comply with BS EN 607/1462

	Product Code	Description	Nom Dia mm	Pack Qty	Colour Ref	Price Each €
	T0072	Gutter 2.0m	112	5	Bk	20.91
	T0074	4.0m	112	5	G Bk W	41.88
Union, Brackets and Spacer						
	T0009	Gutter Union	112	10	Bk	7.21
	T0019	Gutter Support Bracket	112	40	Bk W	2.53
	T0019	Gutter Support Bracket	112	20	G	2.53
	T0005	Gutter Joint Bracket	112	10	Bk	4.05
	T0005	Gutter Joint Bracket	112	5	G W	4.05
Outlets and Stopends						
	T0011	Stopend – External	112	10	Bk	3.73
	T0011	Stopend – External	112	5	G W	3.73
	T0010	Stopend – Internal	112	5	G Bk W	3.73
	T0624	Running Outlet – Straight	112	5	G Bk W	13.41
	T0625	Swivelock Running Outlet – Bent	112	2	Bk	14.06
	T0007	Stopend Outlet	112	5	Bk	8.80
Gutter Angles						
	T0003	90°	112	5	G Bk W	7.97
	T0016	60°	112	5	Bk	13.39
	T0004	45°	112	5	Bk W	13.39
Spares						
	T0064	Gutter Seal	–	5	G	1.16
	T0116	Flexiclip	–	1	Bk	0.95

Rainwater Above Ground Systems

Wavin DeepLine

Manufactured to comply with BS 4576

	Product Code	Description	Nom Dia mm	Pack Qty	Colour Ref	Price Each €
	T9974	Gutter 4.0m	113	5	Bk	46.15
	T9909	Union and Bracket Gutter Union	113	5	Bk	8.29
	T9919	Support Bracket	113	40	Bk	2.91
						
	T9906	Outlet and Stopends Running Outlet	113	5	Bk	15.42
	T9910	Internal Stopend	113	5	Bk	4.29
	T9911	External Stopend	113	5	Bk	4.29
	T9903	Gutter Angles 90 Deg Gutter Angle	113	5	Bk	9.17
	T9904	45 Deg Gutter Angle	113	5	Bk	15.40
	T9964	Spares Gutter Seal	–	10	Bk	1.33
	T9916	Flexiclip	–	5	Bk	1.10

Wavin SuperLine

Manufactured to comply with BS 4576

	Product Code	Description	Nom Dia mm	Pack Qty	Colour Ref	Price Each €
	T0574	Gutter 4.0m	125	5	Bk	43.03
	T0509	Union and Bracket Gutter Union	125	5	Bk	7.96
	T0519	Gutter Support Bracket	125	5	Bk	2.67
	T0511	Outlet and Stopends Stopend – External	125	5	Bk	5.90
	T0510	Stopend – Internal	125	5	Bk	4.45
	T0508	Running Outlet	125	5	Bk	13.04
	T0503	Gutter Angles 90°	125	5	Bk	15.27
	T0564	Spares Gutter Seal	–	10	Bk	0.96
	T0516	Flexiclip	–	1	Bk	1.33

Rainwater Above Ground Systems

Wavin Round Down Pipe Systems

Manufactured to comply with BS 4576

(To suit StormLine, RoundLine, DeepLine and SuperLine)



	Product Code	Description	Nom Dia mm	Pack Qty	Colour Ref	Price Each €
		Pipe – Plain Ended				
	T0082	2.0m	68	5	G Bk	20.25
	T0084	4.0m	68	5	G Bk W	40.45
	T0088	5.5m	68	5	G Bk	55.55
		Connectors				
	T0092	Connector to 2 1/2" Cast Iron RW Pipe Spigot	–	5	Bk	9.21
	T0149	Connector to 110mm PVC Drain Socket/ Spigot	–	5	Bk	11.27
	T0024	Pipe Connector	–	5	G Bk W	7.65
		Bends and Shoe				
	T0025	Offset Bend – 67.5° Socket	68	10	Bk	5.88
	T0025	Offset Bend – 67.5° Socket	68	5	G W	5.88
	T0026	Offset Bend – 67.5° Spigot	68	10	Bk	5.88
	T0026	Offset Bend – 67.5° Spigot	68	5	G W	5.88
	T0161	Bend – 92.5°	68	5	Bk	14.03
	T0035	Single Branch – 67.5°	68	5	Bk W	27.42
	T0037	Shoe	68	5	G Bk W	7.65
		Brackets and Spacers				
	T0033	Pipe/Socket Bracket	68	10	Bk	4.62
	T0034	Pipe Bracket	68	20	Bk	3.38
	T0034	Pipe Bracket	68	5	G W	3.38
	T0038	Socket Bracket	68	10	Bk	3.38

Wavin RoofLine

Manufactured to comply with BS 4576

	Product Code	Description	Nom Dia mm	Pack Qty	Colour Ref	Price Each €
	T5674	Gutter 4.0m	150	5	Bk	134.30
	T5609	Union and Brackets Gutter Union	150	5	Bk	17.32
	T5619	Gutter Support Bracket	150	10	Bk	15.45
						
	T5611	Outlet and Stopends Stopend – External	150	5	Bk	12.12
	T5610	Stopend – Internal	150	5	Bk	9.43
	T5606	Running Outlet	150	5	Bk	24.97
	T5603	Gutter Angles 90°	150	5	Bk	30.53
	T5616	Spares Flexiclip (Also available to special order in Grey) For 110mm(4") Roofline Pipe & Fittings see Wavin Soil	150	1	Bk	2.24

Wavin Outlet Hoppers

	Product Code	Description	Nom Dia mm	Pack Qty	Colour Ref	Price Each €
	T0332	Rainwater Hoppers 68mm Round Down Pipe	68	5	G Bk W	40.51
	T8830	61mm Square Down Pipe	61	5	Bk W	43.30
	T5326	Roofline Hopper Head	–	5	Bk G	58.51

Introduction to Soil and Waste Above Ground Systems



Soil Systems

The Wavin Push-fit Soil system meets performance and installation requirements for all types of building, from single dwellings to large residential, commercial or industrial premises. In addition, WC Connectors provide efficient and reliable connection to all WC layouts.

PVC-U Ring Seal – Soil System: WavinSoil

- ⌚ Simple to use system: saves time and site costs
- ⌚ Quick, efficient assembly by means of push fit jointing and **some solvent joints**
- ⌚ Available in Black, Grey and White (dependent on size/component)
- ⌚ Manufactured in PVC-U to BS EN 1329-1: 2000

WC Connectors – PVC-U WC Connectors

- ⌚ Connectors for all WC configurations, including WC manifold branches
- ⌚ Designed to connect up to 8 WCs onto 1 float

Waste Systems

The Wavin Solvent Weld system is available to meet all waste requirements. The system fully co-ordinates with Wavin Push-fit Soil system.

ABS Solvent Weld – Waste System: WavinWeld

- ⌚ 32mm, 40mm and 50mm pipes and fittings
- ⌚ Available in Grey and White
- ⌚ Manufactured in ABS (Acrylonitrile Butadiene Styrene) to BS 5255:1989

Key to abbreviations

Bk	Black
G	Grey
W	White
P/E	Pipe and Fittings with both ends plain or with one plain end and one special end.
S/S	Pipe and Fittings with one or more ring-seal or push-fit sockets, but always one plain or special end.
D/S	Fittings with ring-seal or push-fit sockets at all ends.
S/SW	Fittings with one or more ring-seal sockets but always one solvent socket.
SW/S	Fittings with one or more solvent sockets and one plain or special end.
D/SW	Fittings with solvent sockets at all ends.

Important Note:

82mm and 160mm Soil Pipes & Fittings are available in pack quantities and special order only.

Fittings will only be supplied in the pack quantities shown.

Please quote part number and colour when ordering.

Email: ie.info@wavin.com Tel: +353 (0) 1802 0202


Soil Above Ground Systems

Soil Pipe and Fittings

	Product Code	Description	Nom Dia mm (in)	Pack Qty	Colour Ref	Price Each €
		Pipe – Socketed				
	C1765	4.0m	82 (3)	91	G	86.91
	C3766	3.0m	110 (4)	114	G Bk	58.14
	C3765	4.0m	110 (4)	114	G Bk W	84.48
	C3770	6.0m	110 (4)	114	G Bk	126.73
	C6765	4.0m	160 (6)	25	G	194.37
		D/S Repair Coupler				
	C8459		110 (4)	20	G Bk W	11.94
	C6459		160 (6)	1	G	45.88
		D/S Coupler				
	C8028		110 (4)	20	G Bk W	10.57
	C6028		160 (6)	1	G	50.47
		Reducers				
	C8464	S/S 110mm x 82mm	110 (4)	5	G	27.01
	C8465	S/S 110mm x 50mm	110 (4)	5	G	15.44
	C6490	S/S 160mm x 110mm	160 (6)	1	G	39.02
		Brackets				
	C8042		110 (4)	10	G Bk W	6.40
	C6042		160 (6)	1	G	10.40
		Adjustable Pipe Bracket				
	C8736		110 (4)	1	G Bk	50.71
	C6736		160 (6)	1	G	67.79
	C8691	Pipe or Socket Bracket	110 (4)	10	Bk	11.94
		S/S Short Radius Bends				
	C8029	S/S Short Radius Bend 87.5°	110 (4)	12	G Bk W	15.89
	C8467	S/S Short Radius Bend 67.5°	110 (4)	5	G	22.12
	C6467		160 (6)	1	G	93.95

Soil Above Ground Systems

	Product Code	Description	Nom Dia mm (in)	Pack Qty	Colour Ref	Price Each €
S/S Short Radius Bends – continued						
	C8031	S/S Short Radius Bend 45°	110 (4)	20	G Bk W	15.89
	C6031		160 (6)	1	G	88.49
	C8468	S/S Short Radius Bend 15°	110 (4)	5	G	22.12
D/S Short Radius Bends						
	C8032	D/S Short Radius Bends 87.5°	110 (4)	12	G Bk W	21.94
	C8034	D/S Short Radius Bends 45°	110 (4)	20	G Bk W	21.94
Access Bend						
	C8001	S/S Access Bend with Screwed Access Door – 87.5°	110 (4)	5	G Bk W	50.38
Adjustable Bend						
	C8469	S/S Adjustable Bend 0-90°	110 (4)	1	G	38.29
Single Branches						
	C8190	S/S Branch 87.5°	110 (4)	5	G Bk W	24.97
	C6190		160 (6)	5	G Bk W	P.O.R
	C8460	S/S – 87.5° with 5x Boss Upstand	110 (4)	5	Bk	46.50
	C8033	S/S – 87.5° Plain	110 (4)	12	G Bk W	30.25
	C8035	S/S – 45° Plain	110 (4)	20	G Bk	30.25

	Product Code	Description	Nom Dia mm (in)	Pack Qty	Colour Ref	Price Each €
Single Branches – continued						
	C8473	S/S Branch 45°	110 (4)	5	G	27.43
	C6491	S/S – Unequal Branch 87.5° with 2 x Boss Upstand	160 (6) / 110 (4)	1	G	P.O.R
Double Branches						
	C8230	S/S – 87.5° with 2 x Boss Upstand	110 (4)	1	G	P.O.R
	C8047	S/S Corner Branch	110 (4)	1	G	182.37
	C6492	S/S – Unequal Branch 87.5° with 2 x Boss Upstand	160 (6) / 110 (4)	1	G	P.O.R
Access Branch						
	C8036	D/S Single Access Branch - 87.5° with Screwed Access Door and 2 x Boss Upstand	110 (4)	1	G Bk	53.39
Bossed Pipes						
	C8462	Double Solvent Weld to 32mm	110 (4)	5	G Bk	12.27
	C8461	Double Solvent Weld to 40mm	110 (4)	5	G Bk W	12.27
	C8588	Double Solvent Weld Short Boss Pipe	110 (4)	5	G Bk W	9.69
	C8589	S/S with 4 x Boss Upstand	110 (4)	5	G Bk	22.86

Soil Above Ground Systems

	Product Code	Description	Nom Dia mm (in)	Pack Qty	Colour Ref	Price Each €
	C8319	Strap On Boss D/S Single Access Branch - 87.5° with Screwed Access Door and 2 x Boss Upstand	110 (4)	5	G Bk W	8.16
	C8274 C6274	Bossed Access Pipe Bossed Access Pipe With Screwed Access Door and 3 x Boss Upstand	110 (4) 160 (6)	1 1	G Bk G	47.71 112.03
	C8302 C6302	Terminal Fittings Balloon Grating	110 (4) 160 (6)	5 1	G Bk W G	6.16 20.97
	C8018	SW/S Roof Cowl	110 (4)	1	G Bk	40.91
	C8303	Air Admittance Valves Wavin 40	40 (1½)	1	W	61.06
	C8721	Wavin 110	110 (4)	1	W	210.34
	C8597	Soil Manifolds Six Boss Universal Manifold	110 (4)	1	G	58.12
	C8595	S/S 3 Boss Universal Manifold with 2 Plugs	110 (4)	1	G	55.33
	C8355	All Fit Reducer Bend 90°	40	1	W	5.50
	C8354	All Fit Reducer	50	1	W	9.07
	C3038437	All Fit 90° Spigot Bend	50	1	W	14.25

	Product Code	Description	Nom Dia mm (in)	Pack Qty	Colour Ref	Price Each €
	C8485	Fire Stop Seal	110 (4)	1	Rd	117.81
	C8705	Pipe Flashings Varipitch - for Flat Roofs (110mm Pipe)	–	1	Bk	44.93
	C8706	Varipitch - for Pitched Roofs (110mm Pipe)	–	1	Bk	49.57
	C8414	Rainwater Fittings S/W/S Domed Roof Outlet - with Solvent Socket	110 (4)	1	G	83.56
	T5326	Hopper Head	110 (4)	5	G Bk	58.54
	C8904	Easy-Fit Pan Connectors WC Connector Long Bend 90°	110 (4)	1	W	19.41
	C8640	WC Connector Straight	110 (4)	1	W	12.99
	C8642	WC Connector Offset	110 (4)	1	W	14.17
	C8641	WC Connector Bend 14°	110 (4)	1	W	14.17

Soil Above Ground Systems

	Product Code	Description	Nom Dia mm (in)	Pack Qty	Colour Ref	Price Each €
	C8404	Easy-Fit Pan Connectors – continued Straight Extension Piece	110 (4)	1	W	11.18
	C8646	Flexible Pan Connector – Fits inside 110mm (4)	110 (4)	1	W	58.27
	C8398	Boss Connectors S/S	32 (1¼)	10	G Bk W	6.85
	C8399		40 (1½)	5	G Bk W	6.85
	C8360		50 (2)	5	G Bk W	8.12
	C8644	Internal Drain Connectors 32mm x 40mm	110 (4)	5	Bk	16.18
	C8645	50mm	110 (4)	5	Bk	16.18
	C8050	Reducer Bush 110mm x 50mm x 50mm	110 (4)	1	G	6.40
	C8708	Plugs Plain Ended Socket Plug with Screwed Access	110 (4)	1	G Bk W	26.34
	C6708		160 (6)	1	G	70.72
	C8709	Plain Ended Socket Plug with 1 x Boss Upstand	110 (4)	5	G Bk	13.92
						

"Still living in the thirties, Dad?"



Look, the way to make money in plumbing is to cut your costs of materials. Right? And cut your labour-time. Right?

RIGHT! It's easy. Turn to the Wavin system and forget all other forms of piping. Why?

YOU SAVE ON MATERIAL —
You can buy Wavin hard PVC Pipe for as little as 2.4 a foot.

YOU SAVE ON TIME — Wavin is easy to transport and handle. It can be joined — permanently — in seconds.

YOU HAVE A COMPLETE RANGE —
Wavin is a complete system. Your stockist carries everything a plumber needs for any job.

YOU SAVE YOURSELF TROUBLE —
All the modern Plumber needs is a hacksaw and a tin of cement. In short, for a water or chemical plumbing job, Wavin is the cleanest, quickest, neatest, most convenient money-earner. Quote on Wavin!

wavin

worth looking into ...

1960's Advertisement

White Waste Above Ground Systems

Waste Pipe and Fittings

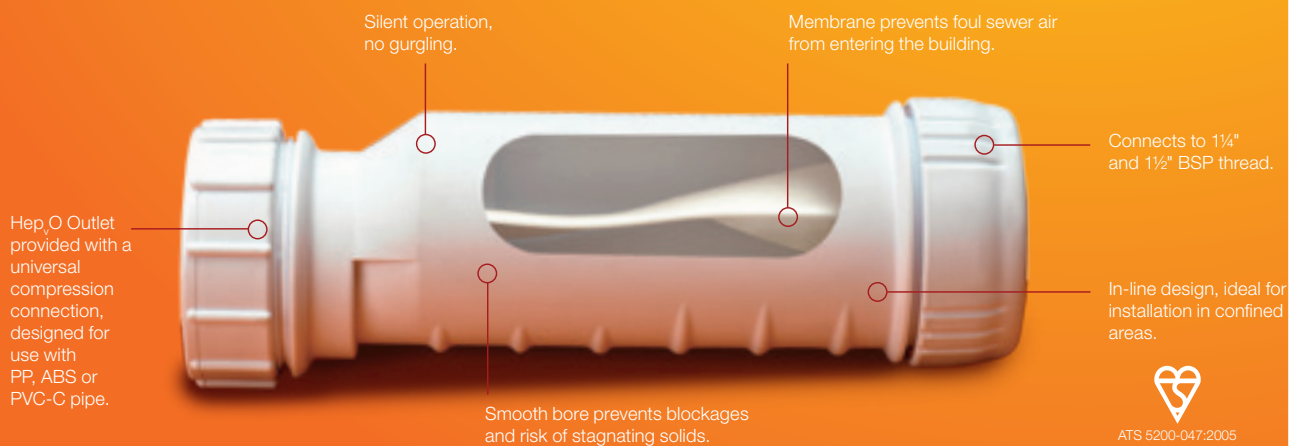
	Product Code	Description	Nom Dia mm (in)	Pack Qty	Colour Ref	Price Each €
		Pipe				
	B0018	For disposal of all normal domestic waste water up to 70°C	32 (1¼")	20	W	18.23
	B0019	4.0m uPVC	40 (1½")	20	W	21.47
	B0031	For disposal of all normal domestic waste water up to 93°C	50 (2)	10	W	41.12
		3.0m ABS				
Fittings – ABS						
		Straight Connector				
	B0823	For disposal of all normal domestic waste water up to 93°C	32 (1¼")	20	W	3.24
	B0843	D/S	40 (1½")	30	W	4.17
	B0863		50 (2)	5	W	5.25
Bends						
	B0833	D/S Knuckle Bend – 90°	32 (1¼")	10	W	3.54
	B0853		40 (1½")	20	W	3.76
	B0820	D/S Bend – 87.5°	32 (1¼")	25	W	3.95
	B0840		40 (1½")	10	W	4.17
	B0860		50 (2)	5	W	9.72
	B0821	D/S Bend – 45°	32 (1¼")	20	W	4.79
	B0841		40 (1½")	20	W	5.25
	B0861		50 (2)	5	W	9.43
Tees						
	B0822	Equal Tee – 87.5°	32 (1¼")	10	W	7.42
	B0842		40 (1½")	5	W	8.99
	B0862		50 (2)	5	W	15.07
	B0902	Equal Tee – 45°	32 (1¼")	10	W	7.42
	B0903		40 (1½")	5	W	8.98
	B0904		50 (2)	5	W	15.07
	B0854	Equal Cross Tee – 87.5°	40 (1½")	5	W	29.48

	Product Code	Description	Nom Dia mm (in)	Pack Qty	Colour Ref	Price Each €
	B0835	Connectors Straight Tank Connector	32 (1¼")	10	W	7.42
	B0850	Reducers (Level Invert) 40mm to 32mm (1½" x 1¼")	–	5	W	3.64
	B0856	50mm to 32mm (2" x 1¼")	–	5	W	5.02
	B0876	50mm to 40mm (2" x 1½")	–	5	W	5.02
	B0825 B0845 B0865	Access Plug Access Plug	32 (1¼") 40 (1½") 50 (2)	5 15 5	W W W	6.65 8.98 15.07
	3035263	Iron Connectors Female Iron Connector	32 (1¼")	5	W	10.92
	3035254		40 (1½")	10	W	11.55
	3032440	Male Iron Connector	32 (1¼")	5	W	10.92
	3034963		40 (1½")	10	W	10.92
	B0824 B0844 B0864	Bracket Pipe Bracket	32 (1¼") 40 (1½") 50 (2)	30 30 10	W W W	6.65 8.98 15.07
	A0616	WavinWeld Solvent Cement Solvent Cement 250ml Tin	–	50	–	23.32

Introduction to Hep_vO Above Ground Systems

Hep_vO Hygienic Self-Sealing Waste Valves

- ① Hep_vO is a self-sealing waste valve which prevents foul sewer air from entering a building
- ① Hep_vO is suitable for use as an alternative to a traditional water trap. As it doesn't rely on trapped water to create a seal, Hep_vO cannot lose its seal due to evaporation, movement or siphonage
- ① With its space saving design, Hep_vO can be installed horizontally or vertically
- ① Hep_vO allows the admittance of air into the waste system and can replace the need for AAV's in branch ventilation
- ① 32 and 40mm fittings: Hep_vO valves, knuckle adaptors, running adaptors and tundish kit (32mm only)
- ① Manufactured in white polypropylene
- ① For installation information, please refer to the Hep_vO Product and Installation Manual



ATS 5200-047:2005

HepFlex and HepvO Above Ground Systems

Flexible Waste and HepvO Hygienic Self-Sealing Waste Valves

	Product Code	Description	Nom Dia mm (in)	Pack Qty	Colour Ref	Price Each €
Flexible Waste Pipe						
	FBP3	HepFlex Pipe 3.0m	32 (1¼")	1	W	24.76
	FCP3	3.0m	40 (1½")	1	W	24.76
	FBP6	6.0m	32 (1¼")	1	W	49.56
	FCP6	6.0m	40 (1½")	1	W	49.56
S/W Spigot Fitting						
	FSBW6	HepFlex Spigot Fitting 32mm	32 (1¼")	1	W	1.48
	FSCW6	40mm	40 (1½")	1	W	1.48
Flexible Waste Connector						
	FSBW30	– Spigot : Spigot 32mm Hepflex fabricated length effective length 315mm	32 (1¼")	1	W	10.23
	FSCW30	40mm Hepflex fabricated length effective length 315mm	40 (1½")	1	W	11.32
HepvO						
	BV1	HepvO Hygienic Self Sealing Waste Valve 32mm	32 (1¼")	1	W	21.32
	CV1	40mm	40 (1½")	1	W	21.32
	BV11	HepvO Knuckle Adaptor 32mm	32 (1¼")	1	W	4.17
	CV11	40mm	40 (1½")	1	W	4.17
	BV3	HepvO Running Adaptor – 32mm	32 (1¼")	1	W	4.17
	CV3	for installing HepvO in a pipe run 40mm	40 (1½")	1	W	4.17
	BV1/21 ♥	HepvO Tundish Adaptor Kit 32mm	32 (1¼")	1	W	30.16

Hep₂O

Plumbing and Heating Systems

For speed, ease
and reliability.
It must be Hep₂O.

Demounting made easy
with the handy HepKey.[™]



Hep₂O comes with the longest
guarantee in the industry.



Comprehensive range
of fittings available in Metric
and Imperial dimensions
to suit every job.

Secure joint recognition
with In4sure[™] technology.



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CONNECT TO BETTER



How much is this costing you?

In time? In labour costs? In trouble and mess? Maybe you didn't know that you can replace the whole shebang with a hacksaw and a tin of Wavin cement—making a greater profit in the process? Take a look at the opposite page.



WAVIN Hard PVC Piping / for progressive plumbers

The Irish Plumbing and Heating Engineer – June 1965

Introduction to Hep₂O Plumbing Above Ground Systems



Hep₂O flexible push fit plumbing has been developed in response to installer feedback, and has a number of unique and innovative features and benefits including;

- ⌚ In4Sure™ joint recognition – tells you when the pipe is in
- ⌚ Secure demounting with the new HepKey™ system
- ⌚ New, improved SmartSleeve™ stays captive in the pipe
- ⌚ 50 year industry leading Guarantee
- ⌚ Flexible pipe which comes off the coil straight

Standards and Approvals

Hep₂O meets the requirements of Class S of BS 7291, parts 1 and 2 and is manufactured within a Quality Management System which satisfies BS EN ISO 9002.

Hep₂O is also approved by WRAS – deemed safe for use in the supply of drinking water.

Guarantee

As a result of its rigorous Quality Management programme, Hep₂O carries a 50 year guarantee against defect in materials or manufacturing of all their pipe and fittings.



Ranges

Imperial and Metric

The flexible plumbing system is available in both imperial and metric sizes.

The fittings are distinguishable by their internal sleeve collars:

- ⌚ Imperial – Grey Internal Collar
- ⌚ Metric – White Internal Collar

Important Note:

Fittings of all product ranges must be ordered in their pack multiples as illustrated in price list.

Hep₂O fittings are pre-lubricated, no additional lubrication is required.

DO NOT use any flux, jointing compound or non Hep₂O lubricant on Hep₂O fittings.

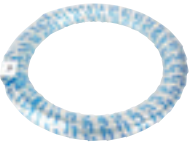
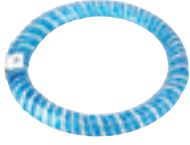



Key to abbreviations

Wh	White
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Email: ie.info@wavin.com Tel: +353 (0) 1802 0202

Hep₂O Flexible Plumbing – Metric Above Ground Systems

Polybutylene Pipe

	Product Code	Description	Nom Dia mm	Pack Qty	Colour Ref	Price Each €
Pipe Coils						
		Standard				
		Straight Coiled Lengths in SmartPack dispensers				
	HXP100/15W	100m	15	1	Wh	194.51
	HXP50/22W	50m	22	1	Wh	174.52
		Barrier				
	HXXE100/15W	100m	15	1	Wh	213.93
	HXX50/22W	50m	22	1	Wh	140.96
	HXX25/28W	25m	28	1	Wh	191.97
Pipe in Pipe System						
	HXXC50/15 BU	50m	15	1	Blue	165.54
	HXXC50/15 RD	50m	15	1	Red	165.54
	HXXC50/22 BU	50m	22	1	Blue	214.54
	HXXC50/22 RD	50m	22	1	Red	214.54
Please Note: Order pipe by unit (coil) not by metre						
Pipe Lengths						
		Standard				
	HXP06/15W	6.0m	15	40	Wh	12.18
	HXP06/22W	6.0m	22	20	Wh	21.63
	HXP06/28W	6.0m	28	12	Wh	35.31
		Barrier				
	HXX06/15W	6.0m	15	40	Wh	13.40
	HXX06/22W	6.0m	22	20	Wh	23.90
	HXX06/28W	6.0m	28	12	Wh	44.46



Hep₂O Flexible Plumbing – Metric Above Ground Systems

Demountable Fittings

	Product Code	Description	Nom Dia mm	Pack Qty	Colour Ref	Price Each €
		SmartSleeve Pipe Support				
	HX60/15W		15	50	–	13.67*
	HX60/22W		22	50	–	20.68*
	HX60/28W		28	20	–	15.42*
		*priced per pack				
		Straight Connector				
	HD1/15W		15	10	Wh	2.23
	HD1/22W		22	10	Wh	3.31
	HD1/28W		28	5	Wh	8.42
		Socket Reducer				
	HD2/22W	22 x 15mm	22	10	Wh	2.30
	HD2/28W	28 x 22mm	28	5	Wh	5.25
		Spigot Elbow 90°				
	HD4/15W	Single Socket	15	5	Wh	3.60
	HD4/22W		22	5	Wh	5.25
		Elbow 90°				
	HD5/15W		15	10	Wh	2.33
	HD5/22W		22	10	Wh	3.33
	HD5/28W		28	5	Wh	8.65
		Obtuse Bend 135°				
	HD8/15W	Single Socket	15	10	Wh	2.86
	HD8/22W		22	10	Wh	3.79
		Equal Tee				
	HD10/15W		15	10	Wh	3.86
	HD10/22W		22	10	Wh	4.93
	HD10/28W		28	5	Wh	11.43
		End Reduced Tee				
	HD12/22W	22 x 15 x 22mm	22	5	Wh	5.14
	HD12/28W	28 x 22 x 28mm	28	5	Wh	11.10
		Branch Reduced Tee				
	HD13/22W	22 x 22 x 15mm	22	5	Wh	4.42
	HD13A/28W	28 x 28 x 15mm	22	5	Wh	11.96
	HD13/28W	28 x 28 x 22mm	28	5	Wh	11.96

	Product Code	Description	Nom Dia mm	Pack Qty	Colour Ref	Price Each €
	HD15/22W	Branch Reduced Tee – Spigot 22 x 22 x 15mm	22	5	Wh	3.23
	HD14/22W	Branch and One End Reduced Tee 22 x 15 x 15mm	22	5	Wh	5.14
	HD14/28W	28 x 22 x 22mm	28	5	Wh	11.10
		Tank Connector with BSP tail & backnut (For cold water use only)				
	HX20/15W	BSP 1/2"	15	10	Wh	3.11
	HX20/22W	BSP 3/4"	22	10	Wh	3.95
	HX20/28W	BSP 1"	28	5	Wh	P.O.R
		Straight Tap Connector with brass nut and alternative rubber washer				
	HD25A/15W	BSP 1/2" *	15	10	Wh	4.78
	HD25B/15W	BSP 3/4" *	15	5	Wh	5.38
	HD25B/22W	BSP 3/4" *	22	5	Wh	5.54
		Bent Tap Connector with brass nut and alternative rubber washer				
	HD27/15W	BSP 1/2" *	15	5	Wh	4.93
		Flexible Tap Connectors Hep ₂ O x BSP Nut (with Brass Nut and rubber washer)				
	HD125A/15W	300mm BSP 1/2" *	15	2	Braided	8.76
	HD125B/15W	300mm BSP 3/4" *	15	2	Braided	10.38
	HD125B/22W	300mm BSP 3/4" *	22	2	Braided	10.38
		* For intermittent hot and cold water use up to a maximum of 65°C. Not for use with Central Heating				
		Hep ₂ O Brass Service Valve x BSP Nut (with Brass Nut and rubber washer)				
	HD125E/15W	300mm BSP 1/2" *	15	2	Braided	23.82
	HD125E/22W	300mm BSP 3/4" *	22	2	Braided	44.79
		* For intermittent hot and cold water use up to a maximum of 65°C. Not for use with Central Heating				

Hep₂O Flexible Plumbing – Metric Above Ground Systems


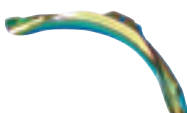




	Product Code	Description	Nom Dia mm	Pack Qty	Colour Ref	Price Each €
		Flexible Tap Connectors – continued				
		Hep ₂ O x Monobloc Mixers				
	HD125F/15W•	300mm x 15mm x M10 *	15	Pair	Braided	15.70
	HD125G/15W•	300mm x 15mm x M12 *	15	Pair	Braided	15.70
		* For intermittent hot and cold water use up to a maximum of 65°C. Not for use with Central Heating				
		• Please note sold and priced as a pair				
		Hand-Titan™ Tap Connector with rubber washer				
	HD26A/15W	BSP 1/2" *	15	5	Wh	2.25
	HD26B/15W	BSP 3/4" *	15	5	Wh	2.59
	HD26B/22W	BSP 3/4" *	22	5	Wh	3.22
		* For intermittent hot and cold water use up to a maximum of 65°C. Not for use with Central Heating				
		Straight Conversion				
	HD45/5W	1/2" x 15mm	15	10	Wh	2.13
	HD45/7W	3/4" x 22mm	22	10	Wh	2.81
	HD45/1W	1" x 28mm	28	5	Wh	7.48
		Elbow Conversion				
	HD46/5W	1/2" x 15mm	15	10	Wh	2.20
	HD46/7W	3/4" x 22mm	22	10	Wh	2.89
	HD46/1W	1" x 28mm	28	5	Wh	7.71
		Demountable Stop-End				
	HD62/15W		15	10	Wh	2.17
	HD62/22W		22	10	Wh	4.81
	HD62/28W		28	5	Wh	5.53
		Push-fit Blanking Peg				
	HX44/15W	For Demountable Hep ₂ O Fittings	15	10	Wh	10.22*
	HX44/22W		22	10	Wh	10.22*
	HX44/28W		28	10	Wh	12.53*
		*priced per pack				
		Demounting Tools				
	HX78/15W	HepKey Demounting Tool	15	10	Blue	0.29
	HX78/22W		22	10	Purple	0.31
	HX78/28W		28	5	Orange	0.33
	HX79/15W	HepKey Plus Demounting Tool	15	10	Blue	0.29
	HX79/22W		22	10	Purple	0.31
	HX79/28W		28	5	Orange	0.33
		HepTool				
	HX77/10W	10/28mm Demounting Tool	10/28	10	–	2.17
	HX77/15W	15/22mm Demounting Tool	15/22	10	–	2.17

Auxiliary Fittings

	Product Code	Description	Nom Dia mm	Pack Qty	Colour Ref	Price Each €
		Adaptor				
	HX29/15W	Male BSP/Hep ₂ O socket DZR Brass BSP 1/2"	15	10	Wh	7.32
	HX29/22W	BSP 3/4"	22	10	Wh	9.56
	HX29/28W	BSP 1"	28	5	Wh	15.30
		Adaptor				
	HX28/15W	Female BSP/Hep ₂ O socket DZR Brass BSP 1/2"	15	10	Wh	7.32
	HX24/15W	BSP 3/4"	15	10	Wh	13.93
	HX28/22W	BSP 3/4"	22	10	Wh	9.56
	HX28/28W	BSP 1"	28	5	Wh	12.97
		Adaptor				
	HX31/15	Male BSP/Hep ₂ O spigot DZR Brass BSP 1/2"	15	1	–	3.56
	HX31/22	BSP 3/4"	22	1	–	4.93
	HX31/28	BSP 1"	28	1	–	14.85
		Adaptor				
	HX30/15	Female BSP/Hep ₂ O spigot DZR Brass BSP 1/2"	15	1	–	4.24
	HX30/22	BSP 3/4"	22	1	–	5.14
	HX30/28	BSP 1"	28	1	–	14.85
	HX32/15	Draincock Brass 15mm spigot DZR Brass	15	1	–	4.27
		Wall Plate Elbow				
	HX6/15W	Hep ₂ O BSP 1/2"	15	5	Wh	13.17
	HX6/22W	BSP 3/4"	22	5	Wh	14.05
	HX34/22	Cylinder Connector DZR Brass BSP 1" (cone ended socket adaptor with nut)	22	5	–	13.77
		Ball Valve				
	HX22/15W	Plated Brass (for hot & cold water use) 15x15mm	15	5	–	10.87
	HX22/22W	22x22mm	22	5	–	14.20

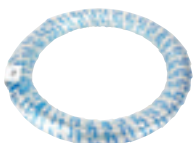
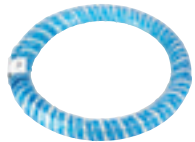
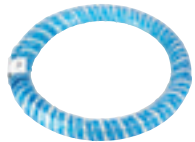



Hep₂O Flexible Plumbing – Metric Above Ground Systems

	Product Code	Description	Nom Dia mm	Pack Qty	Colour Ref	Price Each €
	HX35/15W	Gate Valve – Hot/Cold DZR Brass/Hep ₂ O ends	15	5	–	10.87
	HX35/22W		22	5	–	14.20
	HX36/15W	Stopcock – Cold Water fitted with Hep ₂ O ends	15	5	–	11.97
	HX36/22W		22	5	–	15.15
	HX37/15W	Shut-off Valve With hot/cold indicator insert * * For intermittent hot and cold water use up to a maximum of 65°C. Not for use with Central Heating	15	5	Wh	10.59
	HX38/15W	Appliance Valve With hot/cold indicator insert * * For intermittent hot and cold water use up to a maximum of 65°C. Not for use with Central Heating	15	5	Wh	9.54
	HX18/15W	Straight Service Valve With hot/cold indicator insert * * For intermittent hot and cold water use up to a maximum of 65°C. Not for use with Central Heating	15	5	Wh	14.05
	HX19/15W	Angled Service Valve With hot/cold indicator insert * * For intermittent hot and cold water use up to a maximum of 65°C. Not for use with Central Heating	15	5	Wh	14.05
	HX88/22W	Two Port Manifold 22x15mm ports Closed Spigot	22	5	Wh	4.81
	HX88B/22W	Two Port Manifold 22x15mm ports All socket	22	5	Wh	5.37
	HX89/22W	Three Port Manifold 22x15mm ports Closed Spigot	22	5	Wh	5.66

	Product Code	Description	Nom Dia mm	Pack Qty	Colour Ref	Price Each €
	HX89B/22W	Three Port Manifold 22x15mm ports All socket	22	5	Wh	6.37
	HX75/15 HX75/22	Cold Forming Bend Fixture Metal with passivate finish	15 22	5 5	– –	2.68 3.85
	HD74	Pipe Cutter – Scissor Type Standard	–	1	Rd	22.68
	HX85/15W HX85/22W HX85/28W	Pipe Clips – Screw *priced per pack	15 22 28	50 50 50	Wh Wh Wh	11.81* 21.23* 32.71*
	HX65/15W HX65/22W HX65/28W	Pipe Clips – Cable Type *priced per pack	15 22 28	50 50 50	Wh Wh Wh	9.61* 11.02* 17.50*
	HX200	Hep₂O Silicone Lubricant Spray 400 ml Aerosol Can Hep ₂ O Fittings	–	1	–	19.25
	HX81	Hep₂O Joint Test Kit	–	1	Rd	616.44

Hep₂O Flexible Plumbing – Imperial Above Ground Systems

Polybutylene Pipe

	Product Code	Description	Nom Dia Inch	Pack Qty	Colour Ref	Price Each €
Pipe Coils						
	Standard					
	Straight Coiled Lengths in SmartPack dispensers					
	HXP100/5W	100m	1/2"	1	Wh	175.06
	HXP50/7W	50m	3/4"	1	Wh	157.08
	HXP25/1W	25m	1"	1	Wh	128.96
	Barrier					
	HXX100/5W	100m	1/2"	1	Wh	175.06
	HXX50/7W	50m	3/4"	1	Wh	157.07
	HXX25/1W	25m	1"	1	Wh	128.96
Please Note: Order pipe by unit (coil) not by metre						
Pipe in Pipe System						
	Barrier					
	Coil of Hep ₂ O Acorn Barrier Pipe in Black Conduit					
	HXXC50/5 BL	50m	1/2"	1	Bl	141.25
	HXXC50/7 BL	50m	3/4"	1	Bl	202.95
Please Note: Order pipe by unit (coil) not by metre						
Pipe Lengths						
	Standard					
	HXP06/5W	6.0m	1/2"	40	Wh	10.97
	HXP06/7W	6.0m	3/4"	20	Wh	19.47
	HXP06/1W	6.0m	1"	12	Wh	31.77
	Barrier					
	HXX06/5W	6.0m	1/2"	40	Wh	12.67
	HXX06/7W	6.0m	3/4"	20	Wh	22.60
	HXX06/1W	6.0m	1"	12	Wh	43.07





Demountable Fittings

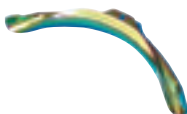





	Product Code	Description	Nom Dia Inch	Pack Qty	Colour Ref	Price Each €
SmartSleeve Pipe Support						
	HX60/5W		1/2"	50	–	13.08*
	HX60/7W		3/4"	50	–	18.90*
	HX60/1W		1"	20	–	14.15*
		*priced per pack				
Straight Connector						
	HD1/5W		1/2"	10	Wh	2.02
	HD1/7W		3/4"	10	Wh	2.59
	HD1/1W		1"	5	Wh	7.57
Socket Reducer						
	HX2/7W	3/4" x 1/2"	3/4"	10	Wh	2.10
	HX2/1W	1" x 3/4"	1"	5	Wh	4.75
Elbow 90°						
	HD5/5W		1/2"	10	Wh	2.10
	HD5/7W		3/4"	10	Wh	3.00
	HD5/1W		1"	5	Wh	7.79
Equal Tee						
	HD10/5W		1/2"	10	Wh	3.48
	HD10/7W		3/4"	10	Wh	4.44
	HD10/1W		1"	5	Wh	10.26
End Reduced Tee						
	HD12/7W	3/4" x 1/2" x 3/4"	3/4"	5	Wh	4.64
	HD12/1W	1" x 3/4" x 1"	1"	5	Wh	9.99
Branch Reduced Tee						
	HD13/7W	3/4" x 3/4" x 1/2"	3/4"	5	Wh	4.64
	HD13/1W	1" x 1" x 3/4"	1"	5	Wh	9.99
Branch and One End Reduced Tee						
	HD14/7W	3/4" x 1/2" x 1/2"	3/4"	5	Wh	4.64
	HD14/1W	1" x 3/4" x 3/4"	1"	5	Wh	9.99
Tank Connector						
		with BSP tail & backnut (For cold water use only)				
	HX20/5W	1/2" x 1/2"	1/2"	5	Wh	3.01
	HX20/7W	3/4" x 3/4"	3/4"	5	Wh	3.64

Hep₂O Flexible Plumbing – Imperial Above Ground Systems

	Product Code	Description	Nom Dia Inch	Pack Qty	Colour Ref	Price Each €
		Straight Tap Connector with brass nut and alternative rubber washer				
	HD25A/5W	1/2" x 1/2" *	1/2"	10	Wh	4.28
	HD25B/5W	1/2" x 3/4" *	1/2"	5	Wh	4.85
	HD25B/7W	3/4" x 3/4" *	3/4"	5	Wh	4.98
		* For intermittent hot and cold water use up to a maximum of 65°C. Not for use with Central Heating				
		Bent Tap Connector with brass nut and alternative rubber washer				
	HD27/5W	1/2" x 1/2" *	1/2"	10	Wh	4.42
		* For intermittent hot and cold water use up to a maximum of 65°C. Not for use with Central Heating				
		Straight Conversion				
	HD45/5W	1/2" x 15mm	1/2"	10	Wh	2.13
	HD45/7W	3/4" x 22mm	3/4"	10	Wh	2.81
	HD45/1W	1" x 28mm	1"	5	Wh	7.48
		Elbow Conversion				
	HD46/5W	1/2" x 15mm	1/2"	10	Wh	2.20
	HD46/7W	3/4" x 22mm	3/4"	10	Wh	2.89
	HD46/1W	1" x 28mm	1"	5	Wh	7.71
		Spigot/Socket Conversion				
	HX47/5W	1/2" x 15mm	1/2"	10	–	5.25
	HX47/7W	3/4" x 22mm	3/4"	10	–	8.94
	HX47/1W	1" x 28mm	1"	5	–	11.97
		Spigot/Socket Conversion				
	HX48/5W	15mm x 1/2"	1/2"	10	–	5.25
	HX48/7W	22mm x 3/4"	3/4"	10	–	8.94
	HD62/5W	Demountable Stop-End	1/2"	10	–	2.17
		Push-fit Blanking Peg For Demountable Hep ₂ O Acorn Fittings				
	HX40/5W		1/2"	10	–	3.24
	HX40/7W		3/4"	10	–	5.98
	HX40/1W		1"	10	–	7.53
		Demounting Tool HepKey Demounting Tool				
	HX78/15W		1/2"	10	Blue	0.29
	HX78/22W		3/4"	10	Purple	0.31
	HX78/28W		1"	5	Orange	0.33

	Product Code	Description	Nom Dia Inch	Pack Qty	Colour Ref	Price Each €
		Demounting Tool				
	HX79/15W	HepKey Plus Demounting Tool	1/2"	10	Blue	0.29
	HX79/22W		3/4"	10	Purple	0.31
	HX79/28W		1"	10	Orange	0.33
	HX77/10W	HepTool 1" Demounting Tool	1"	10	–	2.17
	HX77/15W	1/2"/3/4" Demounting Tool	1/2" / 3/4"	10	–	2.17

Ancillary Pipe Fittings and Accessories

	Product Code	Description	Nom Dia Inch	Pack Qty	Colour Ref	Price Each €
	HX75/15	Cold Forming Bend Fixture Metal with passivate finish	1/2"	5	–	2.68
	HX75/22		3/4"	5	–	3.85
	HD74	Pipe Cutter – Scissor Type Standard	–	1	Rd	22.68
	HX85/15W	Pipe Clips – Screw	1/2"	50	Wh	11.81*
	HX85/22W		3/4"	50	Wh	21.23*
	HX85/28W		1"	50	Wh	32.71*
		*priced per pack				
	HX65/15W	Pipe Clips – Cable Type	1/2"	50	Wh	9.61*
	HX65/22W		3/4"	50	Wh	11.02*
	HX65/28W		1"	50	Wh	17.50*
		*priced per pack				
	HX200	Hep₂O Silicone Lubricant Spray 400 ml Aerosol Can Hep ₂ O Fittings	–	1	–	19.25
	HX81	Hep₂O Joint Test Kit	–	1	Rd	616.44

Hep₂O

Plumbing and Heating Systems

Relax with Wavin underfloor heating



Wavin Ireland Ltd | Balbriggan | Co Dublin | K32 K840
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CONNECT TO BETTER

Introduction to Underfloor Heating Above Ground Systems



About Wavin UFH

Wavin UFH technology has been developed to suit different building construction types typically used – both concrete-based floors and floating floors.

It provides innovative, cost-efficient solutions for all types of environment, including residential, commercial and public buildings.

What's Different About Wavin Underfloor Heating

Wavin UFH products have been designed to provide the highest possible heating performance while using materials that will last throughout the life of the building.

The products combine easy installation with consistent performance. They ensure that the power output from the floor is determined by the product rather than by the skills or experience of the installer.

Wavin Innovation

Wavin UFH products are as easy to use as conventional radiators. They require little or no previous underfloor heating experience. No specialist tools are needed for successful installation.

They enable any installer to work more quickly to achieve a high quality result.

Wavin UFH systems for domestic applications include plumbed systems for the following floor types:

- 🕒 Sand/cement and liquid screeds
- 🕒 Fully floating timber floors

Quotations

Items illustrated in the price list cover all materials for the different system solutions. For an accurate quotation all items are priced on a project basis.

To discuss your needs simply email the UFH technical team on ie.info@wavin.com or call 01 802 0200 to discuss your requirements.

Key to abbreviations

Bk	Black
Rd	Red
W	White
Bl	Blue
G	Grey

Important Note:


Fittings of all products must be ordered in their pack multiples as illustrated in price list.

Please quote part number when ordering.


Web: www.wavin.ie Tel: 01 802 0200

Underfloor Heating Above Ground Systems

UFH Pipe – Flexius Polybutylene (PB)

	Product Code	Description	Nom Dia mm	Pack Qty	Colour Ref	Price Each €
		Pipe (16mm)				
	S16UH025	UFH Pipe Coil x 25m	16	1	Rd	P.O.R
	S16UH040	UFH Pipe Coil x 40m	16	1	Rd	P.O.R
	S16UH050	UFH Pipe Coil x 50m	16	1	Rd	P.O.R
	S16UH060	UFH Pipe Coil x 60m	16	1	Rd	P.O.R
	S16UH070	UFH Pipe Coil x 70m	16	1	Rd	P.O.R
	S16UH080	UFH Pipe Coil x 80m	16	1	Rd	P.O.R
	S16UH090	UFH Pipe Coil x 90m	16	1	Rd	P.O.R
	S16UH100	UFH Pipe Coil x 100m	16	1	Rd	P.O.R
	S16UH110	UFH Pipe Coil x 110m	16	1	Rd	P.O.R
	S16UH120	UFH Pipe Coil x 120m	16	1	Rd	P.O.R
	S16UH200	UFH Pipe Coil x 200m	16	1	Rd	P.O.R
	S16UH500	UFH Pipe Coil x 500m	16	1	Rd	P.O.R

UFH Pipe – Tigris: Multi Layer Alu-PEXc

	Product Code	Description	Nom Dia mm	Pack Qty	Colour Ref	Price Each €
		Pipe (16mm)				
	K3018297	UFH Pipe Coil x 100m	16	1	Wh	P.O.R
	K3017595	UFH Pipe Coil x 200m	16	1	Wh	P.O.R
	K3017591	UFH Pipe Coil x 500m	16	1	Wh	P.O.R

UFH – Floor Systems

	Product Code	Description	Nom Dia mm	Pack Qty	Colour Ref	Price Each €
	S3071057	Staple System Staples 60mm for 16mm UFH Pipe	16	300	Bk	P.O.R
	S3034037	Staples 40mm for 16mm UFH Pipe	16	600	Bk	P.O.R
	S3066742	Track Rail (2mm)	16	16	Bk	P.O.R
	S4038834	Track Rails Staples	–	100	Rd	P.O.R
	S15UH237	Staple Gun (40/60mm)	16	1	Bk	P.O.R
	S3071058	System Plate System System Plate (1275 x 975mm)	16	18	Bk	P.O.R
	S3071099	System Plate Tack Fastener	–	25	Rd	P.O.R
	S3071100	System Ancillaries Edge Expansion Foam (25.0m x 150mm)	–	1	Bl	P.O.R

Underfloor Heating Above Ground Systems









UFH – Control Systems

	Product Code	Description	Nom Dia mm	Pack Qty	Colour Ref	Price Each €
Digital Controls						
	S3071126	Single Zone Kit (c/w Programmable Thermostat)	–	1	W	P.O.R
	S3071174	16 Zone Control Centre	–	1	W	P.O.R
	S3071113	24V Actuator (for use with S3071174)	–	1	Bl	P.O.R
	S3071127	Flow Watch Sensor (for use with S3071174)	–	1	Bk	P.O.R
	S3071128	Wired Thermostat	–	1	W	P.O.R
	S3071169	Wired Programmable Thermostat	–	1	W	P.O.R
	S3071172	Wireless Thermostat	–	1	W	P.O.R
	S3071171	Wireless Programmable Thermostat	–	1	W	P.O.R
	S3071173	Remote Sensor Probe	–	1	Bk	P.O.R
Mains Controls						
	S3071104	8 Zone Control Centre	–	1	W	P.O.R
	S3071112	230V Actuator (for use with S3071104)	–	1	Bl	P.O.R
	S3071111	Flow Watch Thermostat (for use with S3071104)	–	1	W	P.O.R
	S3071105	neoStat (white)	–	1	W	P.O.R



	Product Code	Description	Nom Dia mm (in)	Pack Qty	Colour Ref	Price Each €
		Mains Controls – continued				
	S3071106	neoStat (black)	–	1	Bk	P.O.R
	S3071109	Remote Sensor Probe	–	1	Bk	P.O.R
	S3071108	Remote Sensor Probe Cover	–	1	W	P.O.R
	S3071107	neoHub	–	1	Bk	P.O.R
		Network Programmable Controls				
	S4038878	8 Zone Control Centre (12V)	–	1	W	P.O.R
	S4038776	Programmable LCD Thermostat (12V)	–	1	W	P.O.R
	S4038777	Programmable LCD Thermostat (12V) with Domestic Hot Water (DHW)	–	1	W	P.O.R
	S3071112	230V Actuator (for use with S4038878)	–	1	BI	P.O.R

Underfloor Heating Above Ground Systems



Manifolds

	Product Code	Description	Nom Dia mm	Pack Qty	Colour Ref	Price Each €
Manifolds						
	S3071175	Composite Manifold – Control Pack A Rated	–	1	–	P.O.R
	S3071176	Composite Manifold - Starter Pack	–	1	–	P.O.R
	S3070722	Composite Manifold - One Port Pack	16	1	–	P.O.R
	S3070723	Composite Manifold - Three Port Pack	16	1	–	P.O.R
	S4060502	Composite Manifold – Euroconus Adaptor 16x1.8 (pair)	16	1	–	P.O.R
	S3071110	Composite Manifold 22mm Isolation Valves (pair)	22	2	–	P.O.R
	S3033959	Cold Forming Bend Fixture	16	5	–	P.O.R
	S3030688	Pipe Clips – Screw	15	50	W	P.O.R

Fittings and Testing Kits

	Product Code	Description	Nom Dia mm	Pack Qty	Colour Ref	Price Each €
Fittings (16mm)						
	S16UH510	16mm Straight Connector	16	10	G	P.O.R
	S16UH530	16mm Elbow Connector	16	10	G	P.O.R
	S16UH320	16mm Pipe Support	16	50	G	P.O.R
Testing Kits						
	S16UH245	Fitting Repair Kit	16	1	G	P.O.R
	S16UH250	Pressure Test Connection Kit	16	1	G	P.O.R

UFH – Dry Construction Products

	Product Code	Description	Nom Dia mm	Pack Qty	Colour Ref	Price Each €
UFH Room Packs						
	S15UKPK1	12m ²	15	1	–	P.O.R
	S15UKPK2	18m ²	15	1	–	P.O.R
	S15UKPK3	24m ²	15	1	–	P.O.R
Panel Systems						
	S15UH601	Low-Build 15 Panel (15x600x1200mm)	15	10	–	P.O.R

Underfloor Heating Above Ground Systems

	Product Code	Description	Nom Dia mm (in)	Pack Qty	Colour Ref	Price Each €
Panel Systems – continued						
	S15UH602	Low-Build Max Straight Panel (15x600x1200mm)	15	10	–	P.O.R
	S15UH603	Low-Build Max Straight Panel (15x600x1200mm)	15	10	–	P.O.R
	S15UH604	Low-Build Max Return Panel (15x300x138mm)	15	10	–	P.O.R
	S15UH600	Low-Build Max Channel Panel (15x600x150mm)	15	10	–	P.O.R
	S15UH608	Floating Floor Panel – 25mm (600x1200mm)	15	1	–	P.O.R
	S15UH610	Joist Panel – 50mm (340x1200mm)	15	1	–	P.O.R
	S15UH612	L Bracket – Inter Joist Panel	–	1	–	P.O.R
	S15UH613	Screws & Washers – Joisted Floor (M5x70mm)	–	1	–	P.O.R
Diffuser Plates						
	S15UH605	Double Diffuser Plate – 15mm (1000x390mm)	15	10	–	P.O.R
	S15UH606	Single Diffuser Plate – 15mm (1000x140mm)	15	10	–	P.O.R

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Bringing commercial projects to life



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CONNECT TO BETTER

Introduction to Industrial and Commercial Above Ground Systems

Wavin Industrial and Commercial Systems

Wavin's range of hot & cold plumbing and soil & waste systems have been designed for industrial and commercial applications.

The range includes the K1 multilayer press fit system, Wavin AS acoustic soil, ideal for multi residential projects and Certus compact soil for when space is at a premium.

Wavin's industrial and commercial range is backed up by dedicated expert support for specifiers and contractors.

Key to abbreviations	
B	Black
G	Grey
E	Olive
W	White
Note:	When ordering Wavin AS Acoustic Soil products, do NOT add the colour reference to the end of the Cat No
P/E	Pipe and Fittings with both ends plain or with one plain end and one special end
S/S	Pipe and Fittings with one or more ring-seal or push-fit sockets, but always one plain or special end
D/S	Fittings with ring-seal or push-fit sockets at all ends
S/SW	Fittings with one or more ring-seal sockets but always one solvent socket
SW/S	Fittings with one or more solvent sockets and one plain or special end
D/SW	Fittings with solvent sockets at all ends

Symbols	
British Standards Kitemark	Identifies pipe and fittings which are manufactured under the BSI Kitemark Certification Scheme
British Board of Agrément	BBA Logo Identifies non-Kitemarked fittings which are covered by a British Board of Agrément Certificate
WRAS	Water Regulations Advisory Scheme Identifies pipe and fittings which are WRAS approved
BRE	Building Research Establishment
BRE	Identifies products which have attained BRE approval
WIS	Water Industry Specification
WIS	Identifies products which conform to Water Industry Specifications

Important Note: Fittings of all product ranges must be ordered in their pack multiples as illustrated in price list.

Acceptance

a) British Standards Institution

Certus Systems comply, where applicable, with the requirements of the following British Standards:

BS EN 1566-1: 2000 – Plastic piping systems for soil and waste discharge (low and high temperature) within the building structure – Chlorinated poly (vinyl chloride) (PVC-C).

ABS pipe clips to BS EN 1455.

BS EN 1453-1:2000 – Plastics piping systems with structured-wall pipes for soil and waste discharge (low and high temperature) inside buildings. Unplasticized poly (vinyl chloride) (PVC-U). Specifications for pipes and the system.

BS EN 1329: 2001 – Plastics piping systems for soil and waste discharge (low and high temperature) within the building structure. Unplasticized poly(vinyl chloride) (PVC-U). Specifications for pipes, fittings and the system.

BS EN 1451-1: 2000 – Polypropylene waste pipe and fittings.

BS 6209: 1982 – Solvent cement for non pressure thermoplastics pipe systems.

Requirements, test methods and evaluation of conformity.

b) LABC

Wavin AS Acoustic Soil is System Type Approved to Cert. No. 377-9-7038, Tested in accordance with BS EN 1451.

c) DIN

Wavin AS Acoustic Soil conforms with the acoustic requirements for pipework laid down in DIN 4109, achieving a sound performance of under 30dB (A) at 2l/s. Wavin AS Acoustic Soil also has worldwide approvals in Germany, Denmark, Norway, Sweden, Australia, Turkey and Poland.

d) British Board of Agrément

The system has been awarded the following certificate: 89/2174 110mm Adjustable Bends.

e) WRAS/DVGW

The K1 system is WRAS and DVGW approved for use with potable water.

The Silicone Lubricant Spray has WRAS approval for use with potable water.



Introduction to K1 Metal Plastic Above Ground Systems

K1 Metal Plastic

Press-fit Plumbing System

The versatile Tigris K1 Multilayer Press-fit System offers valuable advantages compared with traditional materials. Installation is faster and more straightforward. So time and cost can be saved.

The system can be used for sanitary (including potable water) and heating applications. The fitting incorporates the Defined Leak Function (DLF) that brings extra safety by identifying unpressed fittings.

Applications

Wavin K1 meets the requirements for drinking water installation and radiator connection systems.

It is therefore suitable for hot and cold water installations and for radiator connections in residential construction as well as in public and commercial buildings.

Thanks to an extensive range of fittings with clever special solutions the system is optimally suited not only to new construction but also to renovations of old buildings.

Wavin K1 offers a complete range of fittings in the dimensions: 16, 20, 25, 32, 40, 50, 63 and 75mm.

An extensive range of fittings, accessories and tools complements the system.



Special Advantages

The specific ways in which K1 improves on traditional, established techniques include:

- ⌚ Very fast, heat-free secure jointing
- ⌚ No need for Hot Works insurance
- ⌚ Minimal fittings required: saving time and cost

Quality

The Wavin K1 system is subject to constant internal quality controls and continuous external monitoring. Wavin K1 system meets all requirements in accordance with EN ISO 21003 standards for service conditions class 2 and 5. The system has been tested by accredited test laboratories and carries a wide set of other national approvals as well.

View the Tigris K1 illustration and see how Tigris K1 pipe gives you all the performance and durability you require, with the extra benefit of flexibility.

Please quote part number when ordering.

Email: ie.info@wavin.com Tel: +353 (0) 1802 0202



Tigris K1 Pipe

1	PPSU body: highly resistant to temperature, corrosion and scaling
2	Visible windows to show insert depth – no guesswork
3	'O' Ring ensures complete seal
4	Stainless steel sleeve for efficient, heat free jointing
5	Inner layer: superior PEX-C material
6	Aluminium layer: consistent thickness, fully detectable
7	Coupling agent: welds the aluminium to the inner and outer plastic layers
8	Outer layer: HDPE for resilience and flexibility

K1 Metal Plastic Above Ground Systems

Composite Multilayer Pipe

	Product Code	Size / Description	N° per Pack	Price per length €
	Pipes – Straight Lengths			
	K3061211	16mm x 2.0mm x 5m	1	13.45
	K3061212	20mm x 2.25mm x 5m	1	18.14
	K3061213	25mm x 2.5mm x 5m	1	30.76
	K3041228	32mm x 3.0mm x 5m	1	50.91
	K3004371	40mm x 4.0mm x 5m	1	86.96
	K3004372	50mm x 4.5mm x 5m	1	131.85
	K3028271	63mm x 6.0mm x 5m	1	P.O.R
	K3053971	75mm x 7.5mm x 5m	1	P.O.R
	Pipes – Coils			
	K3018297	16mm x 2.0mm x 100m	1	P.O.R
	K3018302	16mm x 2.0mm x 200m	1	P.O.R
	K3018299	20mm x 2.25mm x 100m	1	P.O.R
	K3018300	25mm x 2.5mm x 50m	1	P.O.R
	K3004370	32mm x 3.0mm x 50m	1	P.O.R
	Pipes – Coils Pre-insulated 6mm & 9mm			
	K340032B	16mm x 2.0mm x 50m – 6mm	1	P.O.R
	K340132B	16mm x 2.0mm x 100m – 6mm	1	P.O.R
	K340034B	20mm x 2.25mm x 50m – 9mm	1	P.O.R
	K340035B	25mm x 2.5mm x 25m – 9mm	1	P.O.R
	K340036B	32mm x 3.0mm x 25m – 9mm	1	P.O.R
	Pipes – Coils Pre-insulated 9mm & 13mm			
	K3004378	16mm x 2.0mm x 50m – 9mm	1	P.O.R
	K3004379	20mm x 2.25mm x 50m – 9mm	1	P.O.R
	K3004380	16mm x 2.0mm x 50m – 13mm	1	P.O.R
	K3004381	20mm x 2.25mm x 50m – 13mm	1	P.O.R
	Pipes – Coils (Not for potable water) *			
	K3017595	16mm x 2.0mm x 200m	1	P.O.R
	K3017597	20mm x 2.25mm x 500m	1	P.O.R
		* For radiator connection and underfloor heating only (Not for potable water)		

K1 Metal Plastic Above Ground Systems

K1 Fittings

	Product Code	Size / Description	Pack Qty	Price Each €
		Straight Connector		
	K3023348	16mm	10	3.78
	K3023359	20mm	10	4.39
	K3023360	25mm	10	7.27
	K3023488	32mm	5	11.85
	K3024665	40mm	3	20.19
	K3027832	50mm	2	29.20
	K3027847	63mm	2	55.65
	K3065639	75mm	2	71.93
		Reducing Coupler		
	K3023525	20mm x 16mm	10	4.77
	K3023526	25mm x 16mm	10	5.78
	K3023527	25mm x 20mm	10	6.26
	K3023528	32mm x 20mm	5	4.96
	K3023522	32mm x 25mm	5	11.18
	K3023529	40mm x 32mm	3	15.90
	K3027833	50mm x 32mm	2	21.88
	K3027834	50mm x 40mm	2	26.60
	K3027852	63mm x 40mm	2	44.36
	K3027850	63mm x 50mm	2	47.12
	K3065641	75mm x 50mm	2	52.53
	K3065640	75mm x 63mm	2	61.91
		Elbow 90°		
	K3023363	16mm	10	3.95
	K3023364	20mm	10	5.06
	K3023365	25mm	10	8.05
	K3023500	32mm	5	12.77
	K3024666	40mm	3	23.03
	K3024667	50mm	2	35.08
	K3027848	63mm	2	64.28
	K3065643	75mm	2	86.73
		Elbow 45°		
	K3023498	25mm	10	9.73
	K3023499	32mm	5	13.10
	K3027839	40mm	3	23.37
	K3024668	50mm	2	31.12
	K3027849	63mm	2	58.25
	K3065642	75mm	2	74.97
		Elbow 90° - Single Female BSP Thread		
	K3023546	16mm x 1/2"	10	9.01
	K3023547	20mm x 1/2"	10	9.39
	K3023548	20mm x 3/4"	10	13.97
	K3023549	25mm x 3/4"	10	14.12
	K3023540	32mm x 1"	5	21.97

K1 Metal Plastic Above Ground Systems

	Product Code	Size / Description	Pack Qty	Price Each €
		Elbow 90° – Single Male BSP Thread		
	K3023542	16mm x ½"	10	4.77
	K3023543	20mm x ½"	10	6.07
	K3023544	20mm x ¾"	10	7.42
	K3023545	25mm x ¾"	10	8.91
	K3023539	32mm x 1"	5	14.16
		Backplate Elbow Female BSP Thread		
	K3023344	16mm x ½"	10	10.75
	K3023555	20mm x ½"	10	12.57
	K3023537	20mm x ¾"	10	14.26
		Female Double Wall Plate Elbow 90°		
		Female Thread – Transition Angle		
	K3023556	16mm x ½" x 16mm	10	18.17
	K3023538	20mm x ½" x 20mm	10	19.12
		Equal Tee 90°		
	K3023345	16mm	10	5.25
	K3023346	20mm	10	6.84
	K3023347	25mm	5	12.14
	K3023521	32mm	5	17.97
	K3024664	40mm	2	32.52
	K3027829	50mm	2	47.60
	K3027853	63mm	2	84.70
	K3065644	75mm	2	114.58
		One End Branch Reducing Tee 90°		
	K3023505	20mm x 20mm x 16mm	10	7.90
	K3031029	25mm x 25mm x 20mm	10	11.01
		Double End Reducing Tee 90°		
	K3023504	16mm x 20mm x 16mm	10	7.47
	K3023510	20mm x 25mm x 20mm	5	9.88
	K3023515	25mm x 32mm x 25mm	5	15.22

	Product Code	Size / Description	Pack Qty	Price Each €
		Branch Reducing Tee 90°		
	K3023506	20mm x 16mm x 20mm	10	7.04
	K3023508	25mm x 16mm x 25mm	5	9.69
	K3023511	25mm x 20mm x 25mm	5	10.12
	K3023513	32mm x 16mm x 32mm	5	14.41
	K3023514	32mm x 20mm x 32mm	5	15.08
	K3023516	32mm x 25mm x 32mm	5	15.66
	K3023518	40mm x 25mm x 40mm	3	27.08
	K3023519	40mm x 32mm x 40mm	3	27.80
	K3027830	50mm x 25mm x 50mm	2	36.86
	K3027842	50mm x 32mm x 50mm	2	38.69
	K3027831	50mm x 40mm x 50mm	2	42.98
	K3027856	63mm x 25mm x 50mm	2	55.12
	K3027855	63mm x 32mm x 63mm	2	66.01
	K3027854	63mm x 40mm x 63mm	2	69.93
	K3065647	75mm x 32mm x 75mm	2	83.32
	K3065646	75mm x 40mm x 75mm	2	85.68
	K3065645	75mm x 50mm x 75mm	2	90.77
		Branch and One End Reducing Tee 90°		
	K3023507	20mm x 16mm x 16mm	10	6.55
	K3023509	25mm x 16mm x 16mm	5	8.86
	K3023512	25mm x 20mm x 20mm	5	9.92
	K3023517	32mm x 25mm x 25mm	5	15.71
	K3023520	40mm x 32mm x 32mm	3	26.35
	K3027846	50mm x 32mm x 32mm	2	31.19
	K3027845	50mm x 40mm x 40mm	2	39.76
		Unequal Branch and End Reduced Tee		
	K3031027	25mm x 16mm x 20mm	5	9.86
	K3031028	25mm x 20mm x 16mm	5	9.41
	K3031030	32mm x 20mm x 25mm	5	14.66
	K3027841	40mm x 25mm x 32mm	3	22.64
	K3031216	50mm x 25mm x 40mm	2	34.69
	K3027844	50mm x 32mm x 40mm	2	35.08
		One Sided Female BSP Thread Tee		
	K3023557	16mm x 1/2"	10	14.46
	K3023558	20mm x 1/2"	10	15.85
	K3023559	20mm x 3/4"	10	17.78
	K3023534	25mm x 1/2"	5	17.97
	K3023560	25mm x 3/4"	5	19.99
		Connector - Single Male BSP Thread		
	K3023495	16mm x 1/2"	10	3.66
	K3023496	20mm x 1/2"	10	4.14
	K3023550	20mm x 3/4"	10	4.80
	K3023551	25mm x 3/4"	10	5.83
	K3023552	25mm x 1"	10	9.30
	K3023541	32mm x 1"	5	11.23
	K3023553	32mm x 1 1/4"	5	14.65
	K3027836	40mm x 1 1/4"	3	17.78
	K3027837	50mm x 1 1/2"	2	29.10
	KM4032685	63mm x 2"	2	94.00

K1 Metal Plastic Above Ground Systems




	Product Code	Size / Description	Pack Qty	Price Each €
	Connector – Single Female BSP Thread			
	K3023494	16mm x 1/2"	10	7.80
	K3023361	20mm x 1/2"	10	8.19
	K3023497	20mm x 3/4"	10	10.70
	K3031057	20mm x 1"	5	19.88
	K3023362	25mm x 3/4"	10	11.81
	K3023536	25mm x 1"	5	19.92
	K3031058	25mm x 1 1/4"	3	26.72
	K3023554	32mm x 1"	5	21.32
	K3027838	40mm x 1 1/4"	3	33.63
	Tap Connector – Female BSP Thread			
	KM3023530	20mm x 1 1/2"	3	24.68
	KM3023531	25mm x 1 1/2"	3	25.61
	KM3023532	32mm x 1 1/2"	3	27.05
	KM3027835	50mm x 2 "	3	79.98
	M1 Connector – Single Female BSP Thread			
	KM4041973	16mm x 3/4"	10	9.92
	KM4032695	32mm x 1 1/4"	5	35.70
	KM4041974	40mm x 1"	5	37.94
	KM4032696	40mm x 1 1/2"	5	53.37
	KM4032698	50mm x 1 1/2"	3	57.14
	KM4032699	63mm x 2"	2	98.72
	KM4049179	75mm x 2 1/2"	2	157.19
	M1 Connector – Single Male BSP Thread			
	KM4032675	16mm x 1/2"	10	6.17
	KM4032676	16mm x 3/4"	10	10.12
	KM4032677	20mm x 1/2"	10	6.65
	KM4032678	20mm x 3/4"	10	8.77
	KM4032679	25mm x 3/4"	5	11.08
	KM4032680	25mm x 1"	5	17.34
	KM4032681	32mm x 1"	3	16.86
	KM4032682	32mm x 1 1/4"	3	26.74
	KM4032683	40mm x 1 1/4"	2	41.82
	KM4036769	40mm x 1 1/2"	2	42.20
	KM4032684	50mm x 1 1/2"	2	50.11
	KM4032685	63mm x 2"	1	93.76
	KM4049178	75mm x 2 1/2"	1	94.49

Connections to Copper

	Product Code	Size / Description	Pack Qty	Price Each €
	Couplers – Copper Connection			
	KM4032721	16mm x 15mm	5	13.64
	KM4032723	25mm x 22mm	5	26.95
	KM4037451	20mm x 22mm	5	35.94
	Connector (including tap)			
	K4026553	16mm x ½"	10	4.72
	Adaptor			
	K4013355	16mm x 15mm	2	4.72
	K3781L01620	16mm x ½"	10	4.72
	K1440243	20mm x ¾"	10	12.57







K1 Metal Plastic Above Ground Systems

Manifolds and Adaptors

	Product Code	Size / Description	Pack Qty	Price Each €
	K360303	Three Port Manifold 1/2"	1	12.33
	K360304	Four Port Manifold 1/2"	1	15.77
	K360362	Manifold Adaptors 16mm x 1/2"	10	5.16
	K360374	20mm x 3/4"	10	8.22

Accessories

	Product Code	Size / Description	Pack Qty	Price Each €
	K3023561	End Caps 16mm	10	3.83
	K3023562	20mm	10	4.26
	K3023563	25mm	5	5.49
	KM4037512	Angle Connection Line (Towel rail/radiator) 16mm	10	22.16
	KM4037506	T Connection Line (Towel rail/radiator) 16mm	10	43.03
	KM4037508	20mm	10	51.17
	K4013553	Internal Pipe Bending Springs 16mm	1	37.68
	K4013559	20mm	1	48.71
	K4013562	25mm	1	52.04
	K4013571	Pressure Stoppers 16mm	1	30.64
	K4013572	20mm	1	30.64
	K4013573	25mm	1	30.64
	K3021196	Calibration Mandrel 16mm, 20mm and 25mm	1	144.88

	Product Code	Size / Description	Pack Qty	Price Each €
	K4023365	Calibration Mandrel 32mm	1	80.22
	K4031987	Calibration Mandrel – 40-75mm 40mm	1	150.18
	K4031988	50mm	1	192.82
	K4035780	63mm	1	278.88
	K4053507	75mm	1	328.36
	K3011162	Handgrip Calibration Mandrel	1	40.52
	K4053508	Pipe Cutters 16mm – 75mm	1	167.67
	K4036273	Pipe Cutter with Hold Function 16mm – 25mm	1	139.38
	K4023077	Bending Pliers – 16-25mm 16mm, 20mm and 25mm	1	647.99

K1 Metal Plastic Above Ground Systems

Compression Fittings

	Product Code	Size / Description	Pack Qty	Price Each €
		Male Thread Screw Couplers		
	K358220	16mm x 1/2"	10	4.77
	K358420	20mm x 1/2"	10	7.23
	K358530	25mm x 3/4"	5	11.42
		Female Thread Screw Couplers		
	K358202	16mm x 1/2"	10	4.92
	K358402	20mm x 1/2"	10	6.02
	K358304	20mm x 3/4"	10	6.99
	K358305	25mm x 3/4"	5	11.42
		Screw Couplers		
	K358002	16mm x 16mm	10	8.33
	K358005	25mm x 25mm	5	19.18
		Screw Tees		
	K357002	16mm x 16mm x 16mm	10	13.59
	K357004	20mm x 20mm x 20mm	10	17.30
	K357005	25mm x 25mm x 25mm	5	31.75
		Screw Tee - Reduced		
	K357424	20mm x 16mm x 20mm	10	17.25
		Screw Tee - Female Thread		
	K357202	16mm x 1/2"	10	10.55
	K357204	20mm x 1/2"	10	13.44
		Screw Elbow 90°		
	K356002	16mm	10	9.59
	K356004	20mm	10	12.14
	K356005	25mm	5	22.02
		Screw Elbow - Male Thread 90°		
	K356220	16mm x 1/2"	10	6.41
	K356240	20mm x 1/2"	10	8.10
	K356350	25mm x 3/4"	5	14.50
		Screw Wall Connector		
	K359202	16mm x 1/2"	10	5.30
	K359402	20mm x 1/2"	10	6.41

Pressing Tools

	Product Code	Size / Description	Pack Qty	Price Each €
	K578012	Cordless Pressing Tool – 16-40mm K1 Mini Pressing Tool 16, 20, 25, 32, 40mm. Comes with 3 Jaws FOC (Up to 32mm), One Battery, One Charger and Case	1	P.O.R
		Pressing Jaws (For use with K578012)		
	K578374	16mm	1	P.O.R
	K578378	20mm	1	P.O.R
	K578380	25mm	1	P.O.R
	K578382	32mm	1	P.O.R
	K578386	40mm	1	P.O.R
	K571014	Cordless Pressing Tool – 16-75mm K1 Large Pressing Tool 16, 20, 25, 32, 40, 50, 63, 75mm	1	P.O.R
		Pressing Jaws (For use with K571014)		
	K570765	16mm	1	P.O.R
	K570775	20mm	1	P.O.R
	K570780	25mm	1	P.O.R
	K570785	32mm	1	P.O.R
	K570790	40mm	1	P.O.R
	K570795	50mm	1	P.O.R
	K572365	63mm	1	P.O.R
	K572366	75mm	1	P.O.R

Introduction to Wavin AS Above Ground Systems

Wavin AS Acoustic Soil System

Wherever low noise in discharge pipework is a design requirement, Wavin Push-fit Acoustic Soil System is an efficient, practical and cost-reducing solution.

The system delivers significant sound reduction over standard soil systems. Its mineral-reinforced molecular material, Astolan®, can absorb airborne, structural and impact sound.

Installation is fast and easy which saves time and cost, especially compared with traditional sound insulating techniques such as cast iron. Mineral wrapping is not required unless stipulated as Robust Details.

Special Advantages

- ⌚ Lightweight compared with cast iron, yet extremely robust and resistant to corrosion
- ⌚ Manufactured from sound-reducing material
- ⌚ No need for mineral wrapping
- ⌚ Push-fit technology saves installation time and cost

Features and Benefits – In Service

- ⌚ Resistant to hot water: operational temperature capability of up to 95°C short-term (90°C long-term)
- ⌚ Extremely robust: corrosion-resistant
- ⌚ Waste water drainage capability between pH2 and pH12
- ⌚ Smooth inner surface: resistant to build-up of internal deposits

Applications

- ⌚ Soil stacks in multiple-storey buildings requiring noise insulation
- ⌚ This system is also ideal for suspended pipework

Key to abbreviations	
W	White
P/E	Pipe and Fittings with both ends plain or with one plain end and one special end
S/S	Pipe and Fittings with one or more ring-seal or push-fit sockets, but always one plain or special end
D/S	Fittings with ring-seal or push-fit sockets at all ends
S/SW	Fittings with one or more ring-seal sockets but always one solvent socket
SW/S	Fittings with one or more solvent sockets and one plain or special end
D/SW	Fittings with solvent sockets at all ends




Note: When ordering Wavin Silent Soil products, do NOT add the colour reference to the end of the Cat No.







Wavin AS

Above Ground Systems

Pipes

	Product Code	Description	Nom Dia mm	Pack Qty	Colour Ref	Price Each €
		P/E Pipe				
	C3003325	3.0m	110	29	W	42.09
	C3003331	3.0m	160	20	W	62.92
	C3003332	3.0m	200	14	W	89.93
		S/S Pipe				
	C3012211	3.0m	110	1	W	44.13
	C3003362	2.0m	110	1	W	30.72
		S/S 150mm Short Length Pipe				
	C3074619	0.15m	110	1	W	6.55
	C3074622	0.15m	160	1	W	12.46

Fittings

	Product Code	Description	Nom Dia mm	Pack Qty	Colour Ref	Price Each €
		Compensator Socket				
	C3074603	Push-fit Socket	110	4	W	7.25
	C3074606		160	1	W	13.45
	C3074607	D/S with Central Register	200	1	W	15.67
		Repair Coupler				
	C3074610	D/S Sleeve	110	4	W	5.87
	C3074612		160	4	W	11.89
	C3074613		200	1	W	16.01
		S/S Reducer				
	C3074698	160/110	160/110	4	W	10.94
	C3074700	200/160	200/160	4	W	15.86
		S/S Bend – 15°				
	C3074637		110	4	W	7.77
	C3074647		160	4	W	16.86

Wavin AS Above Ground Systems

	Product Code	Description	Nom Dia mm	Pack Qty	Colour Ref	Price Each €
	C3074638	S/S Bend – 30°	110	4	W	7.86
	C3074648		160	4	W	15.44
	C3074639	S/S Bend – 45°	110	4	W	6.72
	C3074649		160	4	W	12.55
	C3074651		200	4	W	18.80
	C3074640	S/S Bend – 67°	110	4	W	8.81
	C3074641	S/S Bend – 87°	110	4	W	9.42
	C3074650		160	4	W	15.77
	C3074652		200	4	W	24.96
	C3074604	S/S Long Socket	110	4	W	9.80
	C3074653	S/S Long Bend – 45°	110	4	W	12.88
	C3074642	S/S Air Circulation Bend – 135°	110	4	W	39.30

	Product Code	Description	Nom Dia mm	Pack Qty	Colour Ref	Price Each €
		D/S Equal Branch – 45°				
	C3074673	110/110	110	4	W	14.06
	C3074681	160/160	160	2	W	24.43
	C3074682	200/200	200	1	W	35.61
	C3074674	D/S Equal Branch – 67° 110/110	110	4	W	12.60
	C3074713	D/S Equal Branch – 87° 110/110	110	4	W	12.17
	C3074680	D/S Unequal Branch – 45° 160/110	160/110	4	W	18.37
	C3074715	D/S Equal Double Branch – 87° 110/110/110	110	2	W	14.68
	C3074684	T/S Equal Corner Branch – 87° 110/110/110	110	2	W	31.16
	C3003430	Parallel Equal Branch 110/110	110	2	W	46.07

Wavin AS Above Ground Systems

	Product Code	Description	Nom Dia mm	Pack Qty	Colour Ref	Price Each €
		D/S WC Manifold Branch – Straight				
	C3020490	Straight	110	1	W	27.92
	C3020491	8°	110	1	W	27.92
	C3020492	15.5°	110	1	W	27.92
	C3020493	23°	110	1	W	27.92
	C3020494	30.5°	110	1	W	27.92
	C3020495	38°	110	1	W	27.92
	C3020496	8°	110	1	W	27.92
	C3020497	15.5°	110	1	W	27.92
	C3020498	23°	110	1	W	27.92
	C3020499	30.5°	110	1	W	27.92
	C3020500	38°	110	1	W	27.92
		S/S Rectangular Access Pipe				
	C3074687		110	4	W	27.65
	C3074689		160	4	W	44.79
		Single Boss Pipe – Spigot Tail				
	C3020506		110x32	4	W	5.36
	C3020507		110x40	4	W	6.30
	C3020508		110x50	1	W	6.17
	C3065902	Soil Manifold	50	1	W	17.75
	C3038435	All-Fit Reducer – 40:32mm	50	5	W	2.77
	C3038436	All-Fit Reduction Bend – 50:40mm	50	10	W	1.87
	C3038437	All-Fit 90° Spigot Bend – 50mm	50	5	W	7.28

	Product Code	Description	Nom Dia mm	Pack Qty	Colour Ref	Price Each €
	C4006566	Connector from Cast Iron to Wavin AS	110	1	–	7.72
	C4006568		160	1	–	17.00
	C3074704	Stop End Socket Plug	110	4	W	5.64
	C3074706		160	4	W	7.67
	C4006571	Safety Clip for Socket Plug	110	1	W	54.93
	C4006573		160	1	W	67.24
	C3020509	Fire Protection Collar Type BM 90	110	1	–	24.71
	C3020513		160	1	–	P.O.R
	C4026111		200	1	–	224.07
	C3020510	Pipe Bracket with Rubber Insert	110	1	–	7.53
	C3020514		160	1	–	8.04
	C4006563		200	1	–	P.O.R
	C3020512	Chamfering Tool	110	1	W	255.36
	C3020511	M10 x 80mm Bolt	–	1	W	P.O.R
	C3000175	Spare Sealing Ring	110	1	–	0.24
	C3000177		160	1	–	0.71
	C4025477		200	1	–	0.81
	C4006554	Spare Collar	110	1	–	1.42
	C4006556		160	1	–	3.08
	C4022836	Lubricant – 500ml Approx 30 Connections	110	1	–	4.03
	C4022836		160	1	–	P.O.R
	C4022836		200	1	–	P.O.R

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CONNECT TO BETTER

Introduction to Compact Soil and Waste Above Ground Systems

Compact Soil System

The Compact Soil system enables space saving and flexible installations for efficient removal of waste water. Reduced installed dimensions minimise duct space required, providing the ideal solution for multi-occupancy and flat developments, where space is a premium.

Features and Benefits

Space Saving

- ④ Compact Soil units allow greater design flexibility with tighter connections to 32, 40 and 50mm waste pipework
- ④ The reduced dimensions help minimise the duct space required

Ease of Installation

- ④ Branches available with rotating bases: enables connections in difficult-to-reach spaces
- ④ Innovative 'stop' position on fitting to prevent waste being installed with a fall less than 2.5°
- ④ Solvent weld and push-fit connection options

Sustainability

110mm and 160mm pipes are manufactured utilising Wavin's Recycore® Technology.



Applications

For vertical soil stacks and horizontal WC pipe in buildings where space is at a premium:

- ④ Apartment buildings
- ④ Hotels
- ④ Warehouses
- ④ Retail developments
- ④ Halls of residence
- ④ Hospitals
- ④ Offices

Compact Solvent Weld Waste System

A solvent weld waste system designed to withstand higher temperatures. The chlorinated PVC material has heat resistant properties.

The system is available in 32, 40 and 50mm sizes. It is compatible with the waste inlet connections in both the Wavin AS and the PVC-U Soil ranges.

- ④ UV resistant: suitable for exterior as well as interior installation
- ④ Manufactured to BS EN 1566-1:2000
- ④ Fire retardant properties

PVC-C for higher temperature solvent waste

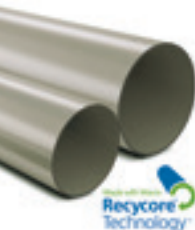

Key to abbreviations

B	Black
G	Grey
E	Olive
W	White
P/E	Pipe and Fittings with both ends plain or with one plain end and one special end
S/S	Pipe and Fittings with one or more ring-seal or push-fit sockets, but always one plain or special end
D/S	Fittings with ring-seal or push-fit sockets at all ends
S/SW	Fittings with one or more ring-seal sockets but always one solvent socket
SW/S	Fittings with one or more solvent sockets and one plain or special end
D/SW	Fittings with solvent sockets at all ends






PVC-U design flexibility for tighter waste connections

Compact Soil Above Ground Systems

Pipes

	Product Code	Description	Nom Dia mm	Pack Qty	Colour Ref	Price Each €
		Plain Ended Pipe				
	3CS074 ♡	4m	82	2	E	P.O.R
	4CS073 ♡△	3m	110	2	E	P.O.R
	4CS074 ♡△	4m	110	2	E	P.O.R
	6CS074 ♡△	4m	160	1	E	P.O.R
		Socketed Pipe				
	3CS043 ♡	3m	82	2	E	P.O.R
	3CS044 ♡	4m	82	2	E	P.O.R
	4CS043 ♡△	3m	110	2	E	P.O.R
	4CS044 ♡△	4m	110	2	E	P.O.R
	6CS043 ♡△	3m	160	10	E	P.O.R
	6CS044 ♡△	4m	160	1	E	P.O.R

Fittings

	Product Code	Description	Nom Dia mm	Pack Qty	Colour Ref	Price Each €
		Pipe Bracket				
	3CS082 ♡		82	20	E	P.O.R
	4CS082 ♡		110	20	E	P.O.R
	6CS082 ♡		160	1	E	P.O.R
		Socket Bracket				
	3CS083 ♡		82	10	E	P.O.R
	4CS083 ♡		110	10	E	P.O.R
		Pipe or Socket Bracket				
	3CS084 ♡	BZP coated steel	82	10	E	P.O.R
	4CS084 ♡	BZP coated steel	110	10	E	P.O.R
	6CS084 ♡	BZP coated steel	160	1	E	P.O.R
		Suspended Bracketing System				
		Adjustable Pipe Bracket Assembly (Not suitable for damp inaccessible voids)				
	4CS086	(pack containing threaded rod, threaded bracket, bracket plate and pipe/socket bracket) – BZP coated steel	110	1	E	P.O.R
	6CS086		160	1	E	P.O.R
		Adjustable Socket Bracket and Brace Assembly				
	4CS085	(pack containing threaded rod, threaded bracket, bracket plate, two adjustable braces and pipe/socket bracket) – BZP coated steel	110	1	E	P.O.R
	6CS085		160	1	E	P.O.R

	Product Code	Description	Nom Dia mm	Pack Qty	Colour Ref	Price Each €
	4CS104 ▼	D/SW Double Socket	110	5	E	P.O.R
	6CS104 ▼		160	1	E	P.O.R
	3CS105 ▼	D/S Double Socket – for repairs	82	5	E	P.O.R
	4CS105 ▼		110	1	E	P.O.R
	6CS105 ▼		160	1	E	P.O.R
	3CS124 ▼	S/SW Single Socket	82	5	E	P.O.R
	4CS124 ▼		110	5	E	P.O.R
	6CS124 ▼		160	5	E	P.O.R
	4CS107 ▼	S/S Connector to Cast-Iron or Clay Drain Socket	110	5	E	P.O.R
	3CS134	P/E Connector to Cast-Iron Spigot	82	1	E	P.O.R
	4CS134		110	1	E	P.O.R
	4CS119	Gasket For use with 4S134 connector	110	5	–	P.O.R
	4CS496 ▼	SW/S Reducers 110x50mm	110	5	E	P.O.R
	6CS499 ▼	160x110mm	160	1	E	P.O.R
	3CS094 ▼	S/S Reducers 82x50mm	82	5	E	P.O.R
	4CS096 ▼		110	5	E	P.O.R
	4CS095 ▼		110	5	E	P.O.R
	6CS099 ▼		160	1	E	P.O.R






Compact Soil Above Ground Systems

	Product Code	Description	Nom Dia mm	Pack Qty	Colour Ref	Price Each €
	4CS416 ♡	Expansion Cap	110	5	E	P.O.R
	6CS416 ♡	- with integral ring-seal	160	5	E	P.O.R
	4CS461 ♡	D/SW Bends	110	5	E	P.O.R
	6CS461 ♡	87.5°	160	1	E	P.O.R
	4CS462 ♡	87.5°	110	5	E	P.O.R
	4CS463 ♡	67.5°	110	5	E	P.O.R
	6CS463 ♡	45°	160	1	E	P.O.R
	6CS463 ♡	45°	160	1	E	P.O.R
	4CS263 ♡	SW/S Bends	110	5	E	P.O.R
	4CS268 ♡	45°	110	5	E	P.O.R
	4CS268 ♡	11.25°	110	5	E	P.O.R
	4CS260 ♡	SW/S Long Tail Bend	110	5	E	P.O.R
	3CS161 ♡	S/S Bends – Push-fit	82	10	E	P.O.R
	4CS161 ♡	87.5°	110	5	E	P.O.R
	6CS161 ♡	87.5°	160	1	E	P.O.R
	4CS164 ♡	87.5°	110	5	E	P.O.R
	3CS162 ♡	76°	82	5	E	P.O.R
	4CS162 ♡	67.5°	110	5	E	P.O.R
	3CS163 ♡	67.5°	82	5	E	P.O.R
	4CS163 ♡	45°	110	5	E	P.O.R
	6CS163 ♡	45°	160	1	E	P.O.R
	4CS173 ♡	S/S Adjustable Bend – 30°	110	1	E	P.O.R
	3CS435 ♡	SW/S Offset Bends – Bottom	82	5	E	P.O.R
	4CS435 ♡		110	5	E	P.O.R
	6CS435 ♡		160	1	E	P.O.R

	Product Code	Description	Nom Dia mm	Pack Qty	Colour Ref	Price Each €
		S/SW Offset Bends – Top				
	3CS440 ▼		82	5	E	P.O.R
	4CS440 ▼		110	5	E	P.O.R
	6CS440 ▼		160	1	E	P.O.R
	3CS444 ▼	S/S Offset Bend – Top/Bottom	110	5	E	P.O.R
	4CS450 ▼	D/SW Offset Bend	110	5	E	P.O.R
		Solvent Weld Boss Adaptors – 90°				
	2CS811 ▼		32	10	E	P.O.R
	2CS812 ▼		40	10	E	P.O.R
	2CS813 ▼		50	10	E	P.O.R
		Solvent Weld Boss Adaptors – Straight				
	2CS814 ▼		32	10	E	P.O.R
	2CS815 ▼		40	10	E	P.O.R
	2CS816 ▼		50	10	E	P.O.R
		Push-fit Boss Adaptors – 90°				
	2CS801 ▼		32	10	E	P.O.R
	2CS802 ▼		40	10	E	P.O.R
	2CS803 ▼		50	10	E	P.O.R
		Push-fit Boss Adaptors – Straight				
	2CS804 ▼		32	10	E	P.O.R
	2CS805 ▼		40	10	E	P.O.R
	2CS806 ▼		50	10	E	P.O.R
	4CS597	6 Boss Manifold	110	1	E	P.O.R

Compact Soil Above Ground Systems

	Product Code	Description	Nom Dia mm	Pack Qty	Colour Ref	Price Each €
	4CS595 ▾	Soil Manifold System	110	1	E	P.O.R
	2CS354	All-Fit Reducer 1½" / 40 x 1¼" / 32 for use with 4CS595	40	5	W	P.O.R
	2CS355	All-Fit Reduction Bend 2" / 50 x 1½" / 40 for use with 4CS595	50	10	W	P.O.R
	2CS356	All-Fit 90° Spigot Bend 2" / 50 for use with 4CS595	50	5	W	P.O.R
	4CS829 ▾	D/SW Double 2-Boss Branch – 87°	110	1	E	P.O.R
	4CS830 ▾	S/S Double 2-Boss Branch – 87.5°	110	1	E	P.O.R
	4CS831 ▾	SW/S Double 2-Boss Branch – 87.5°	110	1	E	P.O.R
	4CS832 ▾	D/SW Double 4-Boss Branch – 87.5°	110	1	E	P.O.R
	4CS833 ▾	S/S Double 4-Boss Branch – 87.5°	110	1	E	P.O.R
	4CS834 ▾	SW/S Double 4-Boss Branch – 87.5°	110	1	E	P.O.R
	4CS491 ▾	SW/S Corner Branch – 87.5°	110		E	P.O.R

	Product Code	Description	Nom Dia mm	Pack Qty	Colour Ref	Price Each €
	4CS850	SW/S Variable 6-Boss Branch	110	5	E	P.O.R
	4CS851	D/SW Variable 6-Boss Branch	110	5	E	P.O.R
	4CS852	S/S 6-Boss Variable Branch	110	5	E	P.O.R
	4CS888	S/S 2-Boss Access Branch	110	1	E	P.O.R
	4CS893	D/SW 2-Boss Access Branch – 87.5°	110	1	E	P.O.R
	4CS410	D/SW Single Branch – 45°	110	5	E	P.O.R
	3CS190	S/S Single 2-Boss Branch – 87.5°	82	5	E	P.O.R
	4CS892	S/SW Single 3-Boss Branch – 87.5°	110	5	E	P.O.R
	4CS889	SW/S Single 3-Boss Branch – 87.5°	110	1	E	P.O.R
	4CS890	D/SW Single 3-Boss Branch – 87.5°	110	5	E	P.O.R
	4CS891	S/S Single 3-Boss Branch – 87.5°	110	5	E	P.O.R
	6CS490	D/SW Single (No Bosses) Branch – 87.5°	160	5	E	P.O.R
	4CS895	SW/S Single 5-Boss Branch – 87.5°	110	5	E	P.O.R
	4CS896	S/S Single 5-Boss Branch – 87.5°	110	5	E	P.O.R
	4CS897	D/SW Single 5-Boss Branch – 87.5°	110	1	E	P.O.R

Compact Soil Above Ground Systems

	Product Code	Description	Nom Dia mm	Pack Qty	Colour Ref	Price Each €
	6CS895 ▼	D/SW Unequal Single 5-Boss Branch – 87.5°	160	1	E	P.O.R
	6CS896 ▼	SW/S Unequal Single 5-Boss Branch – 87.5°	160	1	E	P.O.R
	6CS897 ▼	D/S Unequal Single 5-Boss Branch – 87.5°	160	1	E	P.O.R
	6CS898 ▼	S/S Unequal Single 5-Boss Branch – 87.5°	160	5	E	P.O.R
	6CS218 ▼	S/S Unequal Junction – 45°	160	1	E	P.O.R
	6CS219 ▼	D/S Unequal Junction – 45°	160	1	E	P.O.R
	4CS483 ▼	D/SW Bossed Pipe (Solvent Weld) For 1¼" / 32mm BS EN 1329, 1455 and 1566 pipe	110	5	E	P.O.R
	4CS484 ▼	For 1½" / 40mm BS EN 1329, 1455 and 1566 pipe	110	5	E	P.O.R
	4CS588 ▼	D/SW Short Bossed Pipe	110	1	E	P.O.R
	3CS649 ▼	S/S Bossed Pipe Plain with one boss socket	82	10	E	P.O.R
	4CS586 ▼	D/SW Bossed Pipe Plain (four boss sockets)	110	1	E	P.O.R
	4CS585 ▼	SW/S Bossed Pipe Plain (four boss sockets)	110	5	E	P.O.R
	4CS590 ▼	S/SW Bossed Pipe Plain (four boss sockets)	110	5	E	P.O.R


	Product Code	Description	Nom Dia mm	Pack Qty	Colour Ref	Price Each €
	4CS581 ♡	S/S Bossed Pipe For 1¼" / 32 plastic or copper pipe	110	5	E	P.O.R
	4CS582 ♡	For 1½" / 40 plastic or copper pipe	110	5	E	P.O.R
	3CS319 ♡	Strap Boss	82	10		P.O.R
	4CS319 ♡		110	5		P.O.R
	4CS469 ♡	D/SW Access Bend – 87.5°	110	5	E	P.O.R
	4CS369 ♡	S/SW Access Bend – 87.5°	110	5	E	P.O.R
	4CS474 ♡	D/SW Bossed Access Pipe with screwed access and three boss sockets	110	1	E	P.O.R
	4CS574 ♡	SW/S Bossed Access Pipe with screwed access and three boss sockets	110	5	E	P.O.R
	6CS474 ♡	with screwed access and three boss sockets	160	5	E	P.O.R
	4CS274 ♡	S/S Bossed Access Pipe with screwed access and three boss sockets	110	1	E	P.O.R
	3CS274 ♡	S/S Access Pipe No bosses	82	1	E	P.O.R
	4CS275 ♡	Access Saddle	110	1	E	P.O.R
	3CS292 ♡	P/E Access Plug	82	1	E	P.O.R
	4CS292 ♡		110	1	E	P.O.R
	6CS292 ♡		160	1	E	P.O.R
	4CS492 ♡	SW/S Access Plug	110	5	E	P.O.R

Compact Soil Above Ground Systems




	Product Code	Description	Nom Dia mm	Pack Qty	Colour Ref	Price Each €
	4CS296 ♡	P/E Socket Plug with one boss socket	110	5	E	P.O.R
	3CS302 4CS302 6CS302	Balloon Grating	82 110 160	5 5 1	E E E	P.O.R P.O.R P.O.R
	3CS300 4CS300 6CS300	Weathering Collar	82 110 160	5 5 1	E E E	P.O.R P.O.R P.O.R
	4CS310 ♡	SW/S Vent Cowl	110	1	E	P.O.R
	3CS414 4CS414	SW/S Domed Roof Outlet	82 110	1 1	G G	P.O.R P.O.R
	4CS700	Breather Vent	110	1	W	P.O.R
	4CS701	Spare Top for 4CS700	110	1	—	P.O.R
	4CS709	SW/S Extract Valve	110	1	W	P.O.R

Compact Solvent Weld Waste Above Ground Systems





Pipes

	Product Code	Description	Nom Dia mm	Pack Qty	Colour Ref	Price Each €
		Plain Ended Pipe				
	4CP073 ♡	3m	32	10	B E W	P.O.R
	5CP073 ♡	3m	40	10	B E W	P.O.R
	2CP073 ♡	3m	50	10	B E W	P.O.R

Fittings

	Product Code	Description	Nom Dia mm	Pack Qty	Colour Ref	Price Each €
		Pipe Bracket				
	4CP081 ♡		32	40	B E W	P.O.R
	5CP081 ♡		40	35	B E W	P.O.R
	2CP081 ♡		50	20	B E W	P.O.R
		Double Socket				
	4CP104 ♡		32	20	B E W	P.O.R
	4CP104 ♡		40	20	B E W	P.O.R
	4CP104 ♡		50	10	B E W	P.O.R
		Expansion Socket with solvent socket tail				
	4CP124 ♡		32	10	E W	P.O.R
	5CP124 ♡		40	10	E W	P.O.R
	2CP124 ♡		50	5	E W	P.O.R
		Knuckle Bend - 90°				
	4CP160 ♡		32	30	B E W	P.O.R
	5CP160 ♡		40	30	B E W	P.O.R
	2CP160 ♡		50	10	B E W	P.O.R
		Bend - 87.5°				
	4CP161 ♡		32	50	B E W	P.O.R
	5CP161 ♡		40	40	B E W	P.O.R
	2CP161 ♡		50	10	B E W	P.O.R
		Bend - 45°				
	4CP163 ♡		32	20	B E W	P.O.R
	5CP163 ♡		40	20	B E W	P.O.R
	2CP163 ♡		50	10	B E W	P.O.R

Compact Solvent Weld Waste Above Ground Systems

	Product Code	Description	Nom Dia mm	Pack Qty	Colour Ref	Price Each €
		Spigot Bend – 90°				
	4CP260 ♡		32	10	B E W	P.O.R
	5CP260 ♡		40	10	B E W	P.O.R
	2CP260 ♡		50	10	B E W	P.O.R
		Tee – 87.5°				
	4CP190 ♡		32	20	B E W	P.O.R
	5CP190 ♡		40	15	B E W	P.O.R
	2CP190 ♡		50	10	B E W	P.O.R
		Access Plug				
	4CP292 ♡		32	10	B E W	P.O.R
	5CP292 ♡		40	10	B E W	P.O.R
	2CP292 ♡		50	10	B E W	P.O.R
		Reducers				
	5CP455 ♡	1½" / 40mm x 1¼" / 32mm	32	10	B E W	P.O.R
	2CP458 ♡	2" / 50mm x 1¼" / 32mm	40	10	B E W	P.O.R
	2CP456 ♡	2" / 50mm x 1½" / 40mm	50	10	B E W	P.O.R

Introduction to Wavin HDPE Above Ground Systems

Wavin HDPE

Wavin HDPE is a universal system approved for pipe installation in buildings to DIN 19535 and DIN EN 1519. The product range includes pipes and fittings with dimensions between 40mm and 315mm.

Wavin HDPE is a complete soil, waste and vent system of pipes and fittings, manufactured from high-density polyethylene (PE HD). This tough and durable HDPE system offers an extraordinary chemical resistance in combination with a high flexibility level and great impact resistance. Wavin HDPE pipes and fittings are joined by welding, making the joints resistant to tension. There are two methods of welding: butt welding and electro-fusion welding. Most Wavin HDPE products can also be used as part of negative pressure installations like the siphonic roof drainage system Wavin QuickStream.

Feature and Benefits

- **High-temperature resistance**

Wavin HDPE is resistant to temperatures of up to 90°C continuous temperature and 100°C short term
- **Flexibility**

Wavin HDPE is well suited to assemblies subjected to vibration. It is therefore ideal for use in seismic zones and across expansion joints
- **UV resistance**

With the addition of a percentage of carbon black, HDPE is UV-stabilised and can therefore be installed outdoors without degradation problems
- **Ease of welding**

An advantage of Wavin HDPE is that it can be welded (both by butt welding and with electrofusion joints), thereby providing a perfectly sealed system
- **Low weight**

Wavin HDPE's lightness makes transportation and handling easy
- **Use of adhesives**

Because of its high resistance to chemical agents, Wavin HDPE cannot be jointed with adhesives
- **Low-temperature resistance**

The elasticity of Wavin HDPE allows pipes to withstand freezing of internal water
- **Impact resistance**

Wavin HDPE's elasticity gives pipes a high impact strength at temperatures as low as -40°C. This ruggedness makes handling of pipes easy during installation

➤ Smooth Bore

The smooth surface of Wavin HDPE allows for both an optimum flow of any type of waste material and self-cleaning of pipes

➤ Fire Hazards

Wavin HDPE does not issue any toxic gases during combustion

➤ Wavin HDPE connection seals


Quick-fit coupling and expansion joint seals remain resistant to waste water from house hold appliances, laboratories and hospitals.

The seals are produced from an elastomer which guarantees sealing and durability even in extreme conditions



HDPE Above Ground Systems

Soil, Waste and Vent





	Product Code	Description	Nom Dia mm	Pack Qty	Colour Ref	Price Each €
		Pipe – HDPE				
	3075609	PE Pipe - 3 metre length	110	1	Bk	50.38
	3003465	PE Pipe - 5 metre length	40	1	Bk	23.92
	3003466		50	1	Bk	27.97
	3003467		63	1	Bk	37.08
	3003468		75	1	Bk	39.47
	3003477		56	1	Bk	33.14
	3003458		90	1	Bk	55.90
	3003459		110	1	Bk	81.01
	3003460		125	1	Bk	106.34
	3003461		160	1	Bk	180.41
	3003462		200	1	Bk	258.71
	3003463		250	1	Bk	391.27
	3003464		315	1	Bk	627.39
Reducers						
	3003820	Concentric Reducer	56/50	20	Bk	2.78
	3003798		63/56	20	Bk	4.67
	3003858		110/56	10	Bk	5.07
	3003808		110/63	10	Bk	5.11
	3003809		110/75	10	Bk	5.11
	3003810		110/90	10	Bk	5.07
	3003815		125/110	10	Bk	8.12
	3003816		160/110	5	Bk	9.01
	3018808		200/160	1	Bk	68.05
	3018809		250/200	1	Bk	150.64
	3018810		315/250	1	Bk	208.68
	3003821	Eccentric Reducer – Short	50/40	20	Bk	2.98
	3003841		56/50	20	Bk	3.26
	3003824		75/40	20	Bk	3.93
	3003825		75/50	20	Bk	3.95
	3003843		75/56	20	Bk	3.94
	3003826		75/63	20	Bk	3.95
	3003828		90/63	20	Bk	5.29
	3003829		90/75	20	Bk	5.34
	3003830		110/40	20	Bk	5.79
	3003831		110/50	20	Bk	5.64
	3003835		110/56	20	Bk	5.77
	3003832		110/63	20	Bk	5.79
	3003833		110/75	20	Bk	5.81
	3003834		110/90	20	Bk	5.75
	3003839		160/110	5	Bk	12.63
	3003840		160/125	5	Bk	12.64
	3003846	Eccentric Reducer – Long	200/110	5	Bk	92.68
	3003847		200/125	1	Bk	91.82
	3003848		200/160	1	Bk	91.82
	3070632*		250/200	1	Bk	146.32
	3014918*		315/200	1	Bk	208.68
	3003856*		315/250	1	Bk	207.80

Note: * = Segment Welded.



	Product Code	Description	Nom Dia mm (in)	Pack Qty	Colour Ref	Price Each €
	3017993	Elbows Elbow 15°	110	20	Bk	20.89
	3003576 3003584	Elbow 30°	110 160	20 5	Bk Bk	21.21 32.42
	3003561 3003565 3003597 3003569 3003572 3003574 3003577 3003582 3003585 3003588 3018821* 3018822*	Elbow 45°	40 50 56 63 75 90 110 125 160 200 250 315	10 10 20 20 20 20 25 10 5 5 1 1	Bk Bk Bk Bk Bk Bk Bk Bk Bk Bk Bk Bk	2.26 2.28 2.72 3.45 4.38 6.35 6.22 10.19 26.47 73.60 120.33 166.34
	3075824	Elbow 45° Long Tail	110	6	Bk	18.79
	3003563† 3003567† 3003598 3003570† 3003573† 3003575 3003579† 3003583† 3003587†	Elbow 88.5°	40 50 56 63 75 90 110 125 160	10 10 20 20 20 20 20 10 5	Bk Bk Bk Bk Bk Bk Bk Bk Bk	2.27 3.04 3.05 3.80 5.41 7.70 8.33 13.37 34.30
	3003943* 3018818* 3017978* 3018819*	Elbow 90° Segment Welded	160 200 250 315	10 1 1 1	Bk Bk Bk Bk	25.81 127.32 212.49 310.10
	3003940 3003600 3003944 3003622 3003602 3003603	Elbow 90° Extended	40 50 56 75 90 110	10 10 20 25 25 20	Bk Bk Bk Bk Bk Bk	2.26 2.68 3.23 5.76 7.70 7.65

Note: * = Segment Welded. † = Swept type.

HDPE Above Ground Systems

	Product Code	Description	Nom Dia mm (in)	Pack Qty	Colour Ref	Price Each €
	3003791	Airmix HDPE Airmix "sovent"	110	23	Bk	91.66
	4042219		160	10	Bk	366.75
	3003792	Branches Swept Branch 88.5°	110	10	Bk	12.70
	3003728	Double Branch 45°	110/110	5	Bk	21.03
	3003753	Y-Branch 30°	110/110	5	Bk	18.29
	3003627	Branch 45°	40/40	40	Bk	5.56
	3003631		50/40	10	Bk	5.76
	3003629		50/50	40	Bk	5.72
	3003724		56/56	20	Bk	5.44
	3003633		63/63	20	Bk	6.00
	3003649		75/56	20	Bk	6.72
	3003641		75/75	20	Bk	6.67
	3003666		110/50	10	Bk	11.45
	3003674		110/56	10	Bk	11.09
	3003668		110/63	10	Bk	11.45
	3003670		110/75	10	Bk	11.56
	3003662		110/110	15	Bk	11.63
	3003679		125/63	10	Bk	15.27
	3003685		125/110	10	Bk	15.27
	3003676		125/125	5	Bk	15.43
	3003688		160/110	5	Bk	53.13
	3003690		160/125	5	Bk	53.17
	4009725		160/160	5	Bk	52.45
	3070633*		200/110	5	Bk	114.36
	3070634*		200/160	5	Bk	119.43
	3070630*		200/200	5	Bk	171.47
	3003705*		250/110	1	Bk	191.42
	3003709*		250/160	1	Bk	211.80
	3003710*		250/200	1	Bk	211.94
	3018826*		250/250	1	Bk	291.67
	3003723*		315/110	1	Bk	338.39
	3018828*		315/160	1	Bk	338.17
	3003718*		315/200	1	Bk	354.15
	3003719*		315/250	1	Bk	358.53
	3018829*		315/315	1	Bk	427.78

Note: * = Segment Welded.

	Product Code	Description	Nom Dia mm (in)	Pack Qty	Colour Ref	Price Each €
		Branches – continued				
	3003628	Branch 88.5°	40/40	40	Bk	4.51
	3003632		50/40	10	Bk	5.77
	3003630		50/50	40	Bk	5.76
	3003726		56/50	20	Bk	5.76
	3003727		56/56	20	Bk	5.73
	3003638		63/50	20	Bk	5.96
	3003650		75/56	20	Bk	7.04
	3003642		75/75	20	Bk	7.08
	3003655		90/40	10	Bk	9.01
	3003657		90/50	10	Bk	8.98
	3003652		90/90	10	Bk	8.95
	3003665		110/40	10	Bk	10.67
	3003667		110/50	10	Bk	10.67
	3003675		110/56	10	Bk	11.04
	3003671		110/75	10	Bk	10.30
	3003663		110/110	15	Bk	10.33
	3003677		125/125	10	Bk	15.37
	3003689		160/110	5	Bk	57.41
	3003687		160/160	5	Bk	56.82
	3003698*		200/110	20	Bk	114.36
	3003702*		200/160	1	Bk	113.88
	3018831*		200/200	1	Bk	113.88
	3018002*		250/110	1	Bk	162.72
	3018003*		250/160	1	Bk	163.77
	3018833*		250/200	1	Bk	164.25
	3003704*		250/250	1	Bk	163.67
	3018834*		315/110	1	Bk	191.42
	3018835*		315/160	1	Bk	191.42
	3018836*		315/200	1	Bk	193.22
	3018837*		315/250	1	Bk	192.66
	3003713*		315/315	1	Bk	231.81
		Boss Pipe				
	3075823	Boss Pipe – Four Way Extended Spigot	110/56	6	Bk	73.76
		Connectors and Adaptors				
	4063088	Rubber Boss Adaptor	56/32	1	Bk	8.23
	4063089		56/40	1	Bk	8.33

Note: * = Segment Welded.







HDPE Above Ground Systems

	Product Code	Description	Nom Dia mm (in)	Pack Qty	Colour Ref	Price Each €
Brackets						
	4012113	Galvanised HDPE Bracket M10 Connection	40	10		3.32
	4012117		50	10		4.58
	4063090		56	1		7.72
	4012121		63	10		4.80
	4012125		75	10		4.98
	4012131		90	10		5.36
	4012137		110	10		5.85
	4012141		125	10		6.15
	4012146		160	10		6.85
	4012329	Bracket Insert	40	50		3.03
	4012331		50	50		6.08
	4063093		56	25		9.23
	4012333		63	50		7.31
	4012335		75	50		6.23
	4012337		90	50		6.42
	4012339		110	50		4.96
	4012341		125	50		6.75
	4012343		160	50		10.91
	4012345		200	20		23.83
	4023375		250	20		23.03
	4023376		315	20		31.94
	4012114	Galvanised HDPE Bracket	40 x 1/2"	50		4.16
	4012118		50 x 1/2"	10		5.34
	4063094		56 x 1/2"	50		9.89
	4012122		63 x 1/2"	10		5.83
	4012126		75 x 1/2"	10		5.89
	4012132		90 x 1/2"	10		6.74
	4012138		110 x 1/2"	10		6.80
	4012142		125 x 1/2"	10		6.72
	4012147		160 x 1/2"	10		8.33
	4012151		200 x 1"	10		24.82
	4012155		250 x 1"	10		25.18
	4012159		315 x 1"	10		29.29
	4063092	Mounting Plate	M10	50		4.34
	4012326		G 1/2"	50		4.35
Fire Collar						
	4026435	Fire Collar EFM	40 x 63	2		65.84
	4026436		75	2		68.10
	4026437		78 x 90	2		81.81
	4026438		110	2		86.97
	4026439		125	2		113.85
	4026440		135 x 160	2		156.74
	4026441		200	1		216.93
	4026442		250	1		267.54










	Product Code	Description	Nom Dia mm (in)	Pack Qty	Colour Ref	Price Each €
Spherical Branches						
	3003764	Spherical Branch, 2 Stubs Type A – 180°	110/75	5	Bk	38.92
	3003755		110/110	5	Bk	38.82
	3003756	Type B – 90°	110/110	5	Bk	38.50
	3003774	Type C – 135°	110/110	5	Bk	42.00
	3003775	Spherical Branch, 3 Stubs Type D – 135°	110/110	5	Bk	47.38
	3003776	Type E – 90°	110/110	5	Bk	46.88
	3003777	Spherical Branch, 4 Stubs Type F – 90°	110/110	5	Bk	52.02
Access Tees						
	3003739	Access Tee 45°	110/110	5	Bk	33.07
	3003743		160/110	5	Bk	81.75
	3003736	Access Tee 88.5°	75/75	10	Bk	24.93
	3003740		110/110	10	Bk	34.30
	3070631*		160/110	5	Bk	81.10
	3017974*		200/110	1	Bk	134.86
	3017975*		250/110	1	Bk	173.29
	3017976*		315/110	1	Bk	209.31
Toilet Connectors						
	3003550	Wall Mounted Toilet Connector	90/90	10	Bk	20.96
	3003554		110/110	10	Bk	20.42
	3003619	Wall Mounted Toilet Connector Elbow 90°	90/90	10	Bk	39.34
	3018007	for hanging toilets	110/90	10	Bk	39.18
	3003620		110/110	10	Bk	39.08
	3003621	Wall Mounted Double Toilet Connector Elbow 90°	110/110	5	Bk	78.98

Note: * = Segment Welded.






HDPE Above Ground Systems

	Product Code	Description	Nom Dia mm (in)	Pack Qty	Colour Ref	Price Each €
		Electro-fusion Coupler				
	3003478	– Universal Type (WAVIDUO)	40	20	Bk	5.41
	3003479		50	20	Bk	5.88
	3003489		56	20	Bk	6.35
	3003480		63	20	Bk	6.71
	3003481		75	20	Bk	7.13
	3003482		90	20	Bk	8.22
	3003483		110	20	Bk	8.22
	3003484		125	10	Bk	11.66
	3003485		160	24	Bk	20.30
	4061068		200	6	Bk	133.17
	4036299		250	2	Bk	222.86
	4036300		315	2	Bk	253.61
Sockets, Caps and Flange Adaptors						
	3003491	Push-fit Socket with Gasket and Cap	40/40	10	Bk	3.82
	3003492		50/50	10	Bk	4.57
	3003493		56/56	20	Bk	5.10
	3003495		75/75	20	Bk	7.24
	3003497		110/110	20	Bk	9.19
	3003499		160/160	18	Bk	28.88
	3003505	Expansion Socket with Gasket and Cap	40/40	20	Bk	10.08
	3003506		50/50	20	Bk	9.97
	3018008		56/56	15	Bk	13.98
	3003507		63/63	20	Bk	11.92
	3003508		75/75	20	Bk	12.66
	3003509		90/90	10	Bk	12.99
	3003510		110/110	20	Bk	13.32
	3003511		125/125	10	Bk	20.24
	3003512		160/160	5	Bk	36.76
	3003513*		200/200	15	Bk	170.37
	3070629		250/250	1	Bk	250.30
	3003515		315/315	1	Bk	431.73
	3003869	Complete Closing Cap	40	10	Bk	6.77
	3003870		50	10	Bk	6.88
	3003864		75	10	Bk	16.07
	3003873		110	10	Bk	21.87
	3003860	Weld Cap	40	20	Bk	2.84
	3003861		50	20	Bk	2.42
	3003862		63	20	Bk	2.42
	3003863		75	20	Bk	2.43
	3003865		90	20	Bk	3.07
	3003866		110	20	Bk	5.76
	3003867		125	10	Bk	7.18
	3003868		160	10	Bk	23.25
	3018708	Protection Cap for pipes and fitting	90	50	Bk	2.57
	3018709		110	40	Bk	2.83

Note: * = Segment Welded.

	Product Code	Description	Nom Dia mm (in)	Pack Qty	Colour Ref	Price Each €
Sockets, Caps and Flange Adaptors – continued						
	4025989	Flange Adaptor	75	5	Bk	23.84
	4009748		110	5	Bk	35.98
	4009750		160	5	Bk	61.02
	4009751		200	5	Bk	159.24
	4025992		250	1	Bk	283.71
	3018031		315	1	Bk	382.22
	4009793	Galvanised Steel Flange 1"	1"	20		16.19
	4009761	Brass Nut Connection	63	10		20.46
	3003925	Internal Thread Joint	50	20		46.61
	3003516	Shrink-on Socket with Seal	50	5		27.66
Accessories						
	4036330	Electrofusion Welding Tool DUO 315	–	1		2054.84
	4011398	Heat Reflector Butt-Welding Tool VR 160, 40-160mm	40-160	1		7595.70
	4011401	Heat Reflector Butt-Welding Tool Media 250, 75-250mm	75-250	1		9835.32
	4011403	Welding Mirror Complete with metal case Class X1, TP200	160	1		601.91
	4011404	Welding Mirror Complete with metal case Class X1, TP300	250	1		994.97

HDPE Above Ground Systems

	Product Code	Description	Nom Dia mm (in)	Pack Qty	Colour Ref	Price Each €
Accessories – continued						
	4011402	Heat Reflector Butt-Welding Tool Maxi 315, 90-315mm	90-315	1		19625.98
	4026014	PE Pipe Cutter	40-63	1		271.86
	4011390		50-125	1		447.87
	4011393		110-160	1		457.97
	4011396		200-315	1		2172.79
Other Processing Aids						
	4011453	PE marker pen China Marker	–	12		13.29
	4020757	PE pipe scraper	–	10		46.61
	4025509	PE cleaner 0.7 litre bottle	–	12		27.31

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We se

sell direct.

(Through you!)

Our firm has a firm policy — to support the man who supports us.

That means you, the merchant, who stocks Wavin PVC. All sales orders must go through a Wavin stockist (except in the odd case where the large diameter size is not carried by merchants.) That's our policy, and it makes good business sense.

For us.

And for you, too.

Wavin Pipes Limited, Balbriggan, Co. Dublin.
Manufacturers of guaranteed quality PVC water and sewerage pipe; land drainage pipe; group water scheme pipe; rainwater pipe.

wavin



CONNECT TO BETTER

General Conditions of Sale

I. General Section

1. Applicability and definitions

- 1.1 These general terms and conditions shall apply to every legal relationship between Wavin B.V. or Wavin Ireland Limited a company belonging to the Wavin B.V. group (hereinafter "Wavin") and its client (hereinafter "Client") which concerns sales, provision of services, contracting of work and/or any other performance by Wavin to Client (hereinafter "Agreement"). A reference to an Agreement shall also constitute a reference to these general conditions of sale (hereinafter "Terms and Conditions").
- 1.2 In the event of any conflict between the terms of any agreement in writing between Client and Wavin these Terms and Conditions shall prevail.
- 1.3 In these Terms and Conditions the following terms shall have the following meaning: 1) Products: all items which Wavin supplies or arranges to be supplied to the Client pursuant to an Agreement, including associated components, designs, drawings and models. Where applicable, a reference to Products may also comprise a reference to associated Services; 2) Services: all activities, not being "Works" which Wavin performs or arranges to be performed on Client's instructions, whether or not in return for payment; 3) Works (or Work): all works of a material nature which Wavin establishes or arranges to be established on Client's instructions; 4) Performance: any performance which Wavin delivers or arranges to be delivered to Client, such as Products, Services and/or Works in whatever form and/or the results thereof and/or all activities necessary for that purpose, in implementing the Agreement in full.

2. Formation, changes and cancellation of the Agreement

- 2.1 Wavin shall only be bound by oral Agreements after and insofar as they have been confirmed by Wavin in writing. All offers by Wavin, in whatever form, shall be non-binding, unless the contrary is expressly stated herein. Wavin shall not be bound by an Agreement in case of evident printing, writing and/or calculation errors.
- 2.2 Wavin shall be entitled to accept or reject orders or assignments from Client at its discretion. An Agreement shall only be formed after Wavin has confirmed an order or assignment issued by Client, or has started the execution of such order or assignment.
- 2.3 Client's general terms and conditions shall not apply to the Agreement and are hereby expressly rejected, regardless of whether Client refers to those terms and conditions in a request for a quotation or other communication addressed to Wavin. For the avoidance of any doubt, these Terms and Conditions shall apply to any Agreement to which Wavin is party.
- 2.4 All pictures and specifications of Performances in Wavin catalogues, price lists, advertisements and suchlike are estimates. Wavin does not guarantee the accuracy of the details with regard to weight, dimensions, capacity and so on. All models, samples or examples, provided by Wavin, shall be deemed to be estimates only. The nature of the Performance to be delivered may differ from these.
- 2.5 Wavin shall always be entitled to make unilateral changes to the Performance in order to improve it or in order to adhere to any relevant government regulations in Ireland or elsewhere to which Wavin is subject.
- 2.6 Client shall notify Wavin immediately of any apparent errors or defects in constructions, procedures, building materials, components, auxiliary materials, contract documents, drawings, designs and calculations relating to the Performances, which Wavin intends to supply or apply according to the documents provided to Client.

3. Delivery times

- 3.1 Client shall ensure that Wavin is provided on a due and timely basis with the information required for the proper execution of the Agreement, in accordance with any instructions from Wavin to this effect, and shall notify Wavin of any relevant government regulations

and circumstances of a special nature insofar as these are relevant to Wavin regarding such implementation.

- 3.2 If, in Wavin's reasonable opinion, the information necessary for the implementation of the Agreement has not been obtained in time, Wavin shall be entitled, after consultation with Client, either to set a new delivery date/execution date accordingly and/or to revise the price and/or to terminate the Agreement without incurring any liability to Client.
- 3.3 Delivery/execution dates issued or accepted by Wavin are only given as an indication and by approximation and are not binding upon Wavin.

4. Processing of Products/Services supplied

- 4.1 Client shall where Client acts as a consumer store, apply and process the Products and/or Services supplied by Wavin in accordance with the requirements of the Sale of Goods and Supply of Services Act, 1980.
- 4.2 Client shall comply with all instructions and regulations issued at any time by Wavin and with all relevant legislation in Ireland in respect of product safety. Client shall provide proper health, safety, security and environmental information to all persons, including but not limited to, Client's employees, contractors and customers, as required by law. Client shall irrevocably indemnify Wavin against all costs and damages (including any penalties imposed by the any relevant governmental authority in Ireland) which were incurred or suffered by Wavin because Client failed to fulfil its legal obligations under this provision.
- 4.3 If Client, in following up or implementing a Service supplied by Wavin, deviates from this Service, this shall be at the Client's sole expense and risk, unless Wavin expressly approved this deviation in advance and in writing.
- 4.4 If Client processes the Products supplied by Wavin in a manner that contravenes law, bye-laws, permits and/or safety instructions and regulations supplied by Wavin, Wavin shall have the right at its absolute discretion to halt further supplies, without Client being entitled to claim any compensation from Wavin on that account.
- 4.5 Before Client processes Services and/or Products supplied by Wavin, Client shall itself check and investigate any technical parameters applied by Wavin, or arrange for this to be done, by means of an inspection and furthermore by using all the technologies and tools that are customary in the relevant sector in accordance with the latest scientific and technical knowledge.
- 4.6 If Client's requirements in any particular circumstance demand the processing of greater or different quantities of Products than is stated in Wavin's offer, quotation, order confirmation and/or Service, or demand a greater or different deployment of labor and equipment than was originally calculated by Wavin and/or Client, the latter shall be solely responsible for this, to the exclusion of Wavin.
- 4.7 Client shall act in accordance with the Mexichem Code of Ethics which is published at www.wavin.com/web/about/governance.htm. Upon request from Client, Wavin shall send a paper copy.
- 4.8 Client agrees and undertakes and will procure that its officers, employees, agents and any other persons who perform services for it that in connection with the Agreement, will comply with all applicable laws, rules, regulations, decrees and/or official government orders of any relevant jurisdiction relating to antibribery and/or anti-corruption and/or anti-money laundering.

5. Prices and payment

- 5.1 All prices shall exclude VAT and are based on delivery EXW (in accordance with the currently applicable ICC Incoterms) and exclude packaging. Payment shall be made in Euros (€).
- 5.2 If no price was expressly agreed, the price stated in Wavin's most recent price lists shall apply.
- 5.3 If, following the conclusion of the Agreement, a change occurs in raw material prices, taxes, wages, levies, premiums of any kind, whether or not imposed by the government, Wavin shall be entitled to amend the agreed price unilaterally. If this right is exercised and Wavin wishes to increase the agreed price within three months of the conclusion of the Agreement, Client shall have two (2) weeks to terminate the

Agreement. Client shall not be entitled to claim any compensation from Wavin on that account.

- 5.4 Client shall ensure that the full price is paid into Wavin's bank account within 30 (thirty) days of the invoice date. Client shall have no rights whatsoever to suspend payment or offset any amount.
- 5.5 Unless Client objects to an invoice within 15 (fifteen) days of the invoice date, that invoice shall be deemed to have been accepted. If Client fails in its obligation to pay as referred to in Article 5.4, Client shall be in default de jure and all other claims of Wavin shall be immediately due and payable in full. In such case, Client shall be obliged to pay interest in accordance with the provisions of the European Communities (Late Payment in Commercial Transactions) Regulations 2012 on any outstanding amounts until payment in full has been received, without prejudice to any other rights which Wavin is entitled to exercise under the laws and the Agreement, including (but not limited to) full performance of the Agreement and the right to damages for breach.
- 5.6 Any turnover bonus or discount scheme shall only be due and payable after Client has fulfilled all its obligations towards Wavin.
- 5.7 If Client is in breach of one or more of its obligations under an Agreement, then, in addition to the agreed price and costs, all and any costs (including all legal costs, outlays and expenses) incurred in obtaining satisfaction paid shall be borne by Client, including also the costs to issue and send collection letters, engaging in settlement proposals and gathering information.
- 5.8 Wavin shall be entitled at its own discretion to demand advance payment or other provision of security from Client and Client will meet such a request. Wavin shall be entitled to suspend the execution of the Agreement until this has been provided, without Client being entitled to claim any compensation.

6. Force majeure

- 6.1 If Wavin is unable to fulfil its obligations under the Agreement due to acts of God, government orders, strikes, lock-outs, or other industrial action by workers or employees, inability to secure labour materials or supplies at commercially justifiable rates, accidents, plant break downs, war, civil commotion or any other circumstances, whether of the foregoing class or not, beyond the control of Wavin, Wavin shall not be liable for the non-fulfilment and every Agreement with Client is subject to cancellation, variation or suspension by Wavin as may be necessary due to circumstances of force majeure aforesaid. If fulfilment has not become permanently impossible, the obligations shall be suspended for the duration of the force majeure situation. If the period during which fulfilment is impossible exceeds two (2) months, both parties shall be entitled to terminate the Agreement forthwith, without Client being entitled to claim any compensation on that account.
- 6.2 If, when the force majeure occurs, Wavin has already delivered part Performance or can only fulfil its obligations in part, Wavin shall be entitled to invoice the part already delivered or the part to be delivered separately and Client shall be obliged to pay this invoice.
- 6.3 Force majeure on Wavin's part shall exist inter alia in the event of restrictive government measures, strikes, a lack of raw materials, illness, delays, transport problems, a (threat of) war, (full or partial) mobilization, riots, sabotage, floods, fire or other forms of destruction within Wavin's business, lockouts and breakdowns of machines or tools or other breakdowns within Wavin's business. Force majeure on Wavin's side shall also exist if one or more of the aforesaid circumstances occur within the businesses of suppliers and subcontractors of Wavin.

7. Defaults and Liability

- 7.1 In the event of any alleged breach by Wavin, Client must provide Wavin with a written notice of default, granting Wavin a reasonable period to perform of at least (14) fourteen days to be calculated as from the date of receipt of such written notice of default. If Wavin does not provide performance within this reasonable delivery/execution date, Client shall be entitled to terminate the Agreement but without prejudice to all of Wavin's accrued rights up to the date of such termination.
- 7.2 Provided that the previous clause has been observed by Client, Wavin

shall only be liable for any direct losses incurred by Client. Irrespective of the nature of any claim, Wavin will never be liable for:-

- indirect losses or consequential losses such as losses due to delays, business interruptions, loss of profits, missed savings, missed opportunities, loss of goodwill or forfeited incremental penalty payments or fines;
 - losses resulting from possible defects, inaccuracies and/or omissions in the Performance which Client failed to report in time or should have detected itself, or resulting from incorrect information or instructions provided by Client;
 - losses that originate from improper or careless use, by not (or not properly) following Wavin's directions or instructions, or by use for a purpose other than which the Products are intended.
- 7.3 In all cases, even if Wavin is liable to Client for any direct losses, Wavin's total liability shall be limited to the amount of the invoice of the Performance, with a total maximum of EUR 1,000,000 (one million), including payments made pursuant to Articles 15, 17 and 22 per event, whereby a series of events shall be deemed to constitute one event.
 - 7.4 Client shall irrevocably indemnify Wavin against all third-party claims with regard to the Performance delivered by Wavin to Client.
 - 7.5 Limitation of liability as referred to in these Terms and Conditions shall have no effect on any Performance delivered under Wavin product or project warranties insofar as such warranties expressly provide for wider liability.
 - 7.6 The limitations on Wavin's liability under paragraph 7.3 hereof do not apply in the event of death or personal injury resulting from its negligence or the negligence of a person for whom it is vicariously liable or for its fraud or fraudulent misrepresentation or for fraud or fraudulent misrepresentation of a person for whom it is vicariously liable or for any matter for which it is not permitted by law to exclude or limit or attempt to exclude or limit its liability.

8. Termination

Without prejudice to Wavin's rights under the Agreement, these Terms and Conditions or pursuant to the law, Wavin shall have the right at any time, without any obligation to send any written notice of default, to suspend or terminate (further) performance of the Agreement concluded with Client if (i) Client fails to timely or fully fulfil one or more of its obligations towards Wavin or one or more companies affiliated to Wavin, or Wavin has reasonable reasons to assume that Client will not fully or timely fulfil its obligations, (ii) Client has a receiver or provisional liquidator appointed, Client has filed a winding-up petition or an order has been granted for Client's winding-up (save for the purposes of a solvent re-structuring), or Client loses the power to freely dispose of its assets in other ways, (iii) an attachment is made against goods of Client, (iv) permits or licenses required for the implementation of the Agreement lapse or are revoked, (v) Client ceases its business or enters into any composition or arrangement with creditors (other than relating to a solvent re-structuring), (vi) more than 50% of Client's share capital is transferred, (vii) any share capital of Client is transferred to a natural or legal person that manufactures or deals in products that are competitive with Wavin's products, (viii) the control over Client changes in any other way, (ix) Client is involved in any fraudulent, misleading and/or unlawful activities, or (x) Client, in Wavin's opinion, adversely affects the reputation, good name or goodwill of Wavin or Wavin's products.

9. Intellectual property rights

- 9.1 All intellectual property rights in respect of the Performance delivered or owned by Wavin to Client, as well as any results ensuing therefrom shall remain with or be vested in Wavin, and Client shall not obtain any right in such intellectual property rights. Wavin's intellectual property rights shall include inter alia all trademarks, trade names, logos, designs, symbols, emblems, distinguishing marks, slogans, service marks, copyrights, patents, models, drawings, know-how, information, business plans, marketing strategies and any other proprietary material of Wavin, whether or not suitable for registration or trademark application (hereinafter "IPR"). The IPR may not be used,

General Conditions of Sale

copied or made available to third parties by Client, without Wavin's express prior written consent.

- 9.2 Client shall not do or omit to do anything that may harm, jeopardise or detract from Wavin's IPR. In particular, Client shall not: (a) alter, remove or disfigure IPR or other means of identification of the Performance delivered by Wavin, (b) use Wavin's IPR in such a way as to affect their distinguishing character or validity, (c) with regard to the Performance delivered by Wavin, use trademarks other than Wavin's without Wavin's express prior written consent, or (d) use trademarks or trade names that correspond to trademarks or trade names of Wavin that may thus result in confusion or deception.
- 9.3 Client shall inform Wavin immediately and in full of any actual, expected or envisaged infringement of the IPR that comes to Client's attention.
- 9.4 Client shall indemnify Wavin against all third-party claims on account of any (alleged) infringement of an industrial property right relating to the manufacture, supply or use of a Performance that has been produced or carried out in accordance with Client's specifications, or materials, drawings, models, instructions, etc., made available by Client. Client shall compensate Wavin for any and all damages, which has or will be incurred by Wavin as a result thereof, including the costs of defence. In such event, Wavin shall be entitled to suspend the execution of the Agreement, or to immediately terminate the Agreement, without Client being entitled to claim any compensation on that account.
- 9.5 To the best of Wavin's knowledge, Wavin's Products and Services do not infringe intellectual property rights of third parties. However, Wavin shall not be liable to Client in the event that the Products or Services infringe intellectual property rights of third parties. Wavin is under no obligation to indemnify Client in this respect.

10. Secrecy and publicity; Data (transfer)

- 10.1 Client shall refrain from making communications to third parties in any way, whether or not for publicity purposes, that relate to the Agreement or to the implementation thereof by either party, except with Wavin's prior express written consent, which consent shall not be unreasonably withheld.
- 10.2 Client shall maintain strict confidentiality in respect of information which is or becomes known to Client from or regarding Wavin and/or contacts of Wavin. Client shall not give third parties any form of access to or any information about (the results of) the Performance delivered by Wavin or information and data carriers which are or have become available to Client in the context of the Agreement, and shall only disclose these to its staff insofar as this is necessary for the implementation of the Agreement. Client shall impose these secrecy provisions on its staff and/or on the third parties engaged by Client in the implementation of the Agreement.
- 10.3 After the Agreement has been implemented in full, this article shall remain in full force unless and until Wavin releases Client in writing from the duty of secrecy.
- 10.4 Data supplied, whether personal or otherwise, by Client will be held and processed by Wavin, pursuant to its data quality and data security policies applicable from time to time, for the following purposes: to operate Client's account(s), to keep Wavin's customer records, for statistical analyses, to establish any identity or otherwise as required pursuant to applicable legislation, to assess Client's credit status and otherwise as considered necessary and appropriate by Wavin.
- 10.5 With due observance of the policies, mentioned in the previous paragraph, Wavin may disclose data relating to Client: to any Wavin affiliate or group company to any (sub) contractor of Wavin performing services in connection with Client's account as required or permitted by law.
- 10.6 Client acknowledges and agrees that by providing Wavin with any personal or proprietary data or information, Client hereby expressly consents to the transmission of such data or information over international borders as necessary for processing, such in accordance with Wavin/Mexichem's standard business practices.
- 10.7 Client's data will be stored and retained in accordance with Wavin's privacy policy.

11. Trade controls and boycotts

- 11.1 Nothing in the Agreement is intended, and nothing herein should be interpreted or construed, to induce or require either party to act in any manner which is inconsistent with, penalized or prohibited under any applicable laws, regulations or decrees applicable to such party which relate to foreign trade control, export controls, embargos or international boycotts of any type.
- 11.2 Client shall not export, re-export, re-sell or transfer any Product to any individual, entity or location subject to UN, US or EU sanctions or embargos.
- 11.3 Client represents and warrants that it is not embargoed or sanctioned by the UN, US or EU ("Restricted Party"), nor is Client owned or controlled by, or acting on behalf of, a Restricted Party, nor is Client located in a restricted jurisdiction.
- 11.4 Client acknowledges that Wavin reserves the right to review any transaction for export restrictions after the sale and cancel any transactions based on the results of this review, without any liability whatsoever towards Client.

II. Sale and Supply of Products

If the Agreement concluded between Wavin and Client also covers the supply of Products, the following provisions shall apply in addition to the above provisions. In the event of conflict between the above provisions and the following provisions, the latter shall prevail to the extent the supply of Products is concerned.

12. Delivery

- 12.1 Deliveries shall be made EXW in accordance with the most recent version of the ICC Incoterms.
- 12.2 If delivery on demand has been agreed, Client shall purchase all the Products within 12 months of the conclusion of the Agreement, or at least Wavin shall be entitled to invoice these Products as having been purchased within the aforesaid period.
- 12.3 Wavin shall be entitled to deliver orders in parts. Where such is customary, Wavin shall be free to supply up to 10% more or less than is stated in the order (confirmation) and to invoice accordingly.
- 12.4 Client shall be obliged to take delivery of the Products on the agreed date or in any case without delay as soon as these are reported ready for delivery by Wavin. If the Client does not accept the delivery, or if Client is negligent as to the required information or instructions needed for the delivery, Wavin will store the Products for the risk and account of Client. Client shall be liable for all the resulting costs and damage, including but not limited to the costs of storage and redelivery.
- 12.5 The risk of the Products shall pass to Client at the time that the Products are delivered at the agreed location in conformity with the Agreement, and in the absence of such a provision in conformity with the delivery condition applicable pursuant to Article 12.1. Where delivery is delayed due to circumstances caused by or within the responsibility of Client, risk of loss shall pass to Client upon Wavin's notification that Products are ready for dispatch.
- 12.6 Wavin shall be entitled, in deviation from the Products ordered by Client, to supply different products, provided that these products are of a comparable nature in terms of quality and functionality, whereby Wavin shall guarantee that equivalence towards Client.

13. Transport

If, in derogation from Article 12, Wavin arranges for the transport, this transport shall take place to only one central address, even if the Products are meant to be distributed among various locations. Client shall enable Wavin or the carriers engaged by Wavin on all working days to actually deliver the Products, and shall do everything possible in that context to prevent and limit waiting times. In unloading and receiving delivery of the Products, Client shall assist Wavin or the carrier engaged by Wavin at Client's expense, inter alia by making mechanical equipment available. In that case, Wavin shall not be required to transport the Products to be delivered beyond the point at which the vehicle

can travel across passable and safe terrain.

14. Retention of title

- 14.1 All Products supplied and still to be supplied by Wavin shall remain the exclusive property of Wavin until all the claims which Wavin holds or will obtain against the Client in relation to any Agreement for the supply of Products, including any connected delivery of Work or Services as well as any claim resulting from a breach by Client of such Agreement, have been paid in full. As long as title to the Products supplied or to be supplied has not passed to Client, Client shall not be entitled to pledge or grant a security right in the Products to a third party. However, Client shall be allowed to sell and actually deliver the Products supplied subject to retention of title to third parties in the context of its normal business operations.
- 14.2 Client shall be obliged to: 1. provide for and maintain proper insurance against fire, explosion and water damage and against theft, submitting the policy of insurance at Wavin's first request for inspection; 2. at Wavin's written request, arrange that any claims of Client under a relevant insurance policy shall be pledged for the benefit of Wavin; 3. store the Products supplied by Wavin carefully and marked as Wavin's property; and 4. at Wavin's first request co-operate with any and all reasonable measures that Wavin wishes to take as an additional security with respect to the Products and which do not unreasonably hinder Client's normal business operations.
- 14.3 Client irrevocably indemnifies Wavin for any and all consequences of theft, loss or damage of the Products, to which a retention of title applies.
- 14.4 If Client fails to fulfil an obligation towards Wavin, or gives Wavin good cause to assume that Client will fail to fulfil those obligations, Wavin shall be entitled to repossess the Products supplied subject to retention of title, or arrange for this to be done, even if these are to be detached from other items. The costs of the repossession shall be borne by Client, without prejudice to any other rights which Wavin may invoke.
- 14.5 Where Products have been delivered and have been processed or incorporated in other products or equipment, Wavin shall retain a lien until full payment of the price under the Agreement. Client undertakes to disclose the existence of this reservation of title to third parties to whom/which it may sell the products either "as is" or incorporated into another product or system so as to secure claims of Wavin on Client.

15. Complaints and inspection

- 15.1 Upon delivery, Client must inspect the Products, or arrange for this to be done, in terms of volume, numbers and defects that may be established during a normal careful inspection (hereinafter "Visible Defects"). In this context, Client shall bear the risk in respect of the random inspection.
- 15.2 Any complaints with regard to volume, numbers or Visible Defects must be reported in writing to Wavin immediately after delivery and in all cases no later than 72 hours after delivery. Client must report defects other than Visible Defects in writing to Wavin within seven days of their detection. The report must carefully describe the nature of and grounds for the complaint.
- 15.3 If Wavin delivers the Products on submission of a quality statement within the meaning of regulations on the CE hallmark, these Products shall be deemed to be good and sound, except where Client provides (technical) proof to the contrary.
- 15.4 Wavin shall make endeavors to have the delivered Products comply with the requirements of the Reach regulation (as amended from time to time) as published at www.echa.europa.eu and all obligations arising out of these regulations. Wavin shall not be liable to Client for any failure of Wavin or of any other party to comply with the requirements and all obligations arising out of the Reach regulation.
- 15.5 All Client's rights and claims regarding the payment of a sum of money and/or the repair or redelivery of the relevant Products on whatever grounds, as well as any right of Client to terminate the Agreement, shall lapse a) in the event of an overdue report pursuant to Article 15.2, b) if Wavin has not been given the opportunity immediately to check the validity of the complaint on location, or arrange for this to be done, and/or c) if 12 (twelve) months have passed since the delivery date.

III. Services

If the Agreement concluded between Wavin and Client also covers the supply of Services, the following provisions shall apply in addition to the above provisions. In the event of conflict between the above provisions and the following provisions, the latter shall prevail to the extent the supply of Services is concerned.

16. Supply of Services

- 16.1 Wavin shall endeavor to provide the Services in accordance with the latest technical knowledge and the requirements of the Sale of Goods and Supply of Services Act, 1980 where Client buys as a consumer. The Services shall be provided on the basis of information supplied by Client, whereby Client guarantees the correctness and completeness of this information. All consequences of this information being incorrect and/or incomplete shall be entirely at Client's expense and risk.
- 16.2 The Services shall always be project specific and based on the purchase and application of the Products produced and/or supplied by or on behalf of Wavin. Client shall not be allowed to use the Services provided by Wavin in combination with third-party materials, or at least the consequences of such conduct shall be entirely at Client's expense and risk.
- 16.3 All copyrights, patents and other IPR with regard to the Services, including any associated methodologies, technologies, documents and other information or knowledge, shall be or remain vested in Wavin. Where necessary, Client shall be entitled to a non-transferable, non-exclusive and free license for the agreed use of these rights.

17. Liability regarding Services

- 17.1 The Services supplied by Wavin shall be on an 'as is' basis and Wavin's liability for such Services or any inaccuracies or omissions concerning the designs, recommendations, stated dimensions, technical data sheets, samples, inspections, drawings, calculations, calculation recommendations and/or other documentation which Wavin made available in the context of the Service shall be fully excluded if, with regard to the Service concerned, no corresponding Agreement for the purchase/ sale of Products was concluded with Client or if the Services concerned were provided free of charge.
- 17.2 Client shall check the Services regarding possible faults or omissions, as soon as the Services are executed or available to Client. Client shall report any such possible fault or omission in writing to Wavin within seven days after the respective Services were rendered. If Client could reasonably not have discovered such fault or omission within these seven days, Client shall report them in writing ultimately seven days after the actual discovery thereof.
- 17.3 All Client's rights and claims regarding the payment of a sum of money and/or the rectification of the Services supplied, on whatever grounds, as well as any right of Client to terminate the Agreement, shall lapse if (a) in the event of an overdue report pursuant to Article 17.2; (b) Wavin has not been given the opportunity immediately to check the validity of the complaint on location or arrange for this to be done, and/or (c) if 12 (twelve) months have passed since the performance of the Service concerned.

IV. Contracting of Work

If the Agreement concluded between Wavin and Client also covers the contracting of Work, the following provisions of these Terms and Conditions shall apply in addition to the above provisions. In the event of conflict between the above provisions and the following provisions, the latter shall prevail to the extent the contracting of work is concerned.

18. General

- 18.1 Wavin's project records shall be deemed conclusive evidence between

General Conditions of Sale

- the parties, except where Client provides evidence to the contrary.
- 18.2 If the Uniform Administrative Conditions for the Execution of Works (UAV) 2012 apply, or at least the version then applicable, the contents of these Terms and Conditions shall prevail over those of the UAV in the event of inconsistency.

19. Client's obligations

- 19.1 Client shall ensure that Wavin has timely access to:
- permits, dispensations, orders and such like that are required for the Work;
 - the site or the water on or in which the Work must be executed;
 - the up-to-date drawings, documents and other data carriers required;
 - the other items to be provided by the pursuant to the Agreement.
- 19.2 Client shall be responsible for the constructions and procedures prescribed by or on behalf of Client, as well as for the orders, instructions, drawings, calculations, specifications, drawings, sketch designs and other data issued by or on behalf of Client, and Client shall be liable for any errors in this material. Client shall indemnify Wavin against third-party claims in this respect.
- 19.3 If building materials or auxiliary materials made available by Client should contain defects, Client shall be liable for the damage caused as a result thereof. Client shall indemnify Wavin against third-party claims in this respect.
- 19.4 If statutory regulations or government orders should set higher requirements to the Work than those laid down in the Agreement, any changes to the Work that are necessary in order to satisfy those requirements shall be charged as contract extras.
- 19.5 Client shall bear the responsibility if the building site, the old (building) materials retrieved from the Work or the (building) materials made available by Client are contaminated. The old (building) materials shall remain Client's property and Wavin shall not be responsible for their condition.
- 19.6 Client shall be responsible for the timely and correct coordination of the activities of contractors other than Wavin or Wavin subcontractors. In addition, Client shall ensure that no waiting times occur in the installation of Products or the execution of other Performances by Wavin. If third parties engaged by Client simultaneously carry out activities on site, Client must ensure that these cause no inconvenience to Wavin, and the consequences of any delay as a result of such inconvenience shall be entirely at Client's expense.
- 19.7 Client shall ensure that the designated building site is suitable for storage and is protected against theft.
- 19.8 Client shall ensure that all necessary safety measures and other precautionary measures are taken and that these are enforced during the execution of the Work. Client shall comply with any and all applicable health, safety and environmental legislation.
- 19.9 Client shall provide, free of charge, the electricity and water supply required in processing and fitting the materials in the Work, as well as the necessary sanitary facilities.
- 19.10 Where necessary for the proper implementation of the Agreement, Client shall provide Wavin free of charge with auxiliary roads, scaffolding, implements, tools and other auxiliary materials required for a timely execution, and shall keep these in good condition.

20. Wavin's obligations

- 20.1 If the engagement of a particular subcontractor is or has been prescribed by or on behalf of Client, and this prescribed subcontractor fails to perform, or to do so properly or in time, and Wavin has notified the subcontractor in this respect, Wavin shall not be liable for the subcontractor's failure to fulfil its obligation(s). Client shall reimburse Wavin for the costs incurred by Wavin as a result of the prescribed subcontractor's non-performance. Subsequently Wavin shall assign this claim against the subcontractor concerned to Client immediately at Client's request.
- 20.2 If the constructions, procedures, orders and instructions prescribed or given by or on behalf of Client apparently contain such errors or defects that Wavin would be acting in bad faith if it were to proceed with the execution of the Work concerned without bringing these to Client's attention in writing, it shall be liable for the consequences of

such omission within the limitations of liability as specified in these Terms and Conditions.

- 20.3 The execution periods shall start at the later of the following events, being: the time when Wavin received the payment of the first instalment, or (if applicable) the time of receipt by Wavin of any required information to be provided by Client in connection with the execution of the Work.

21. Risk, transfer and start of activities

- 21.1 Client shall be obliged to off-take and tolerate the Work at the time that it is delivered to Client and at the time when it is to be executed pursuant to the Agreement, and must provide Wavin with all opportunities and cooperation to that end. Insofar as Client fails to comply with this, Wavin shall be entitled, at Client's expense and risk, to take all appropriate measures (such as storage with third parties) which appear reasonably necessary to Wavin at its sole and exclusive discretion, without prejudice to Wavin's right to compensation of the resulting damage.
- 21.2 With regard to Products which are to be installed and/or which are to become part of the Work to be produced, both the risk of the Products installed and that of the Products not yet installed shall in all cases pass to Client at the moment when the Products have arrived at Client's (industrial) premises or at the building site.

22. Completion and check

- 22.1 Completion of the Work shall take place when Client signs a completion and acceptance protocol drawn up by Wavin. In all cases, the Work shall be regarded as completed as soon as Client has effectively taken the Work into operation or use. From the date of completion, Client shall be obliged to insure the Work independently, or at least all the consequences of the absence of such an insurance policy shall be at Client's expense and risk. After completion of the Work Wavin is not liable for any defects.
- 22.2 Hidden defects, which in the context of contracting of work shall be understood to mean defects which could not reasonably have been detected despite close supervision during the execution or an examination upon the completion of the Work, must be reported to Wavin in writing within seven days of their detection but no later than 12 (twelve) months after the completion of the Work. Wherever possible, initial hidden defects – provided that they are reported in time – shall be repaired free of charge by Wavin within a reasonable period to be determined by Wavin at its sole discretion, without Wavin being under any obligation to pay compensation in this respect.
- 22.3 All rights and claims regarding the payment of an amount of money and/or the repair or redelivery of the relevant Products and/or the Services supplied, on whatever grounds, as well as any right to terminate the Agreement, shall lapse a) in the event of an overdue report pursuant to Article 22.2, b) if Wavin has not been given the opportunity immediately to check the validity of the complaint on location, or arrange for this to be done, and/or c) if 12 (twelve) months have passed since the completion.
- 22.3 If Client fails to cooperate during the phase of completion and continues to do so after having received a written request to this end from Wavin, its rights to compliance and/or repair in accordance with this Article 22 shall lapse.

23. General Provisions

- 23.1 These Terms and Conditions shall be governed by and construed in accordance with Irish law and the parties hereby submit to the non-exclusive jurisdiction of the Irish Courts.
- 23.2 Any dispute, controversy or claim arising out of or in connection with the Agreement whether in tort, contract, under statute or otherwise, including any question regarding its existence, validity, interpretation, breach or termination of the Agreement shall be settled by consultation between the parties. In the event of failure of such consultations within 60 days (unless otherwise extended by mutual agreement) after receipt by the respondent party of the written notice of such matter, then the matter shall be finally and exclusively resolved by arbitration

under the arbitration rules of the United Nations Commission on International Trade Law (UNCITRAL) in force as at the date of the Agreement ("Rules"), which Rules are deemed to be incorporated by reference into the Agreement. The Tribunal shall consist of one arbitrator, to be appointed in accordance with the Rules. The seat of the arbitration shall be Dublin, Ireland. The language of the arbitration shall be English. The appointing authority shall be the President of the Law Society of Ireland. The matter and decision shall be governed by the substantive law referred to in the preceding paragraph. The arbitrator shall set forth the reasons for the award in writing. Where necessary, the decision in arbitration may be enforced by any court having jurisdiction.

- 23.3 No forbearance or indulgence by Wavin shown or granted to Client whether in respect of these Terms and Conditions or otherwise shall in any way affect or prejudice the rights of Wavin against Client or be regarded as any waiver of any of these Terms and Conditions.
- 23.4 Wavin may cancel any Agreement at any time before the Products or Services or Work as the case may be are delivered by giving written notice. Upon giving such notice Wavin shall promptly repay to Client any sums paid in respect of the Products or Services or Work as the case may be subject to any deductions as permitted by these Terms and Conditions. Wavin shall not be liable for any loss or damage whatever arising from any cancellation in accordance with this Condition 23.4.
- 23.5 Wavin reserves the right to sub-contract the whole or any part of the Agreement.
- 23.6 Any provision of these Terms and Conditions or any Agreement which is, or may be, void or unenforceable shall, to the extent of such invalidity or unenforceability be deemed severable and shall not affect any other provision the Agreement. If any court or competent authority finds any provision of these Terms and Conditions unenforceable because of the breadth of area, subject or time to which it applies, the parties agree that the provision shall be enforced to the fullest extent permissible by law of the jurisdiction where enforcement is sought.
- 23.7 Any notice under or in connection with these Terms and Conditions or any Agreement shall be in writing and shall be served by registered post or by hand on the party to the address of the party set out in the Agreement or at such other address as may subsequently be notified by one party to the other, and in the absence of any evidence of earlier receipt any notice shall be deemed to have been received: (i) if delivered by hand when left at the address for service; or (ii) if sent by registered post, on the second day after posting.

24. Website

The Wavin Ireland Limited web site is owned and operated by Wavin B.V., a company registered in The Netherlands with registered number 05014273 whose registered office is at Zwolle, The Netherlands.

Visitors to the web site are bound by the terms and conditions as detailed above so please ensure you have read these carefully before perusing the site. For the purposes of these terms and conditions, "this web site" means the Wavin Ireland Limited web site, which links to other Wavin web sites.

Other Wavin web sites may contain terms and conditions of sale which are different from these terms and conditions. On your journey around the Wavin web sites please check the terms and conditions of each web site which you visit and do not assume that these terms and conditions apply to all Wavin web sites.

Returns/ Customer Collections Procedures

Returns Procedure

The following procedure and terms and conditions apply to the return of any unwanted goods for subsequent credit. Failure to adhere to this may result in your claim being delayed and/or rejected.

- ④ Contact your Wavin Sales Representative with regard to the goods you wish to return
- ④ The Wavin Sales Representative must inspect all goods to determine:
 - The goods belong to Wavin.
 - The goods are fit for reuse/resale.
 - The goods were supplied within the preceding 6 months.
- ④ **Wavin goods that are damaged or are deemed to be unfit for resale will not be credited.** In all other cases the following applies:
 - If the goods are in their original packaging which has been unopened and is in excellent condition, a Credit Note will be issued subject to a 15% Restocking & Handling Fee.
 - If the goods are in their original packaging, but this has been opened and/or they are not deemed by the Wavin Sales representative to not be in excellent condition, a Credit Note will be issued subject to a 25% Restocking & Handling Fee.
 - If the goods are soiled, a Credit Note may be agreed subject to a minimum 50% Restocking, Reworking & Handling Fee.
 - If the goods were supplied more than 6 months from your request for their return, Wavin may agree to a Credit Note subject to the above.
- ④ In cooperation with your Wavin Sales Representative a detailed list of all goods to be returned will be compiled, which will include the Original Wavin Invoice Number(s), the Wavin Catalogue Code(s), SAP Code(s), Description and Quantity and the applicable Restocking & Handling Fee
- ④ The Customer Service Department will issue a Provisional Credit Note by fax/e-mail confirming this. Only upon the returned receipt of same with the appropriate customer authorisation signature, will the Customer Service Department proceed and issue a Returns Authorisation Form (SR2 Form)
- ④ The Distribution Department will then arrange collection of the goods to be returned within 10 working days. Returned goods without the proper documentation will not be accepted and will not gain access to Wavin Ireland's premises through Security. No credit will be given for any items not originally listed on the Provisional Credit Note. All non Wavin goods will be destroyed
- ④ The final Credit Note will be issued within 10 working days of the returned goods being delivered back to Wavin

- ④ Wavin reserves the right to refuse to accept the return of any goods, irrespective of when they were purchased and what condition they are in

Customer Collections Procedure

- ④ Customer Collections from Wavin Ireland's premises in Balbriggan, Co. Dublin are only available from 9.00am to 4.00pm. Outside of these times your request may not be facilitated and/or you may be waiting for a long period of time
- ④ Upon clearing Security, you will be directed to the Customer Service Car Park and please park your vehicle there and proceed into the Customer Service Department
- ④ In order to expedite Customer Collections in a timely fashion, you must have a valid Purchase Order Number for the goods you wish to procure. Orders should comply with our Minimum Order Value of €250 (ex-VAT), but this may be waived in exceptional circumstances in consultation and agreement with Customer Service
- ④ Customer Service will then process your order while you wait in our Customer Waiting Room. You will be advised when your order is ready for collection and you will then be directed to our Distribution Department, where you may proceed to in your vehicle across the yard. Parking is only permitted in the designated area outside Distribution or as directed by a member of staff. You may collect your order and/or it may be loaded into your vehicle as appropriate. You will be given two copies of your Collection Docket
- ④ **Wavin Ireland is committed to Health & Safety and you must observe all site rules in this regard. A copy of our Safe Loading Procedure is attached for your reference and our Distribution Department reserves the right to refuse to allow you collect your order if it deems there may be any breach of Health & Safety. Your safety is our concern!**
- ④ Upon leaving the site you will be asked to produce for Security one copy of your Collection Docket and you may then leave the site
- ④ Please note also that in the event of any account queries which could impact on Customer Service being able to process your order, you may be delayed until after lunchtime (1.00-2.00pm) to resolve any issues



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Building & Infrastructure

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For further product information visit: www.wavin.ie



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