



Aquaflow

Plastic Drainage Products

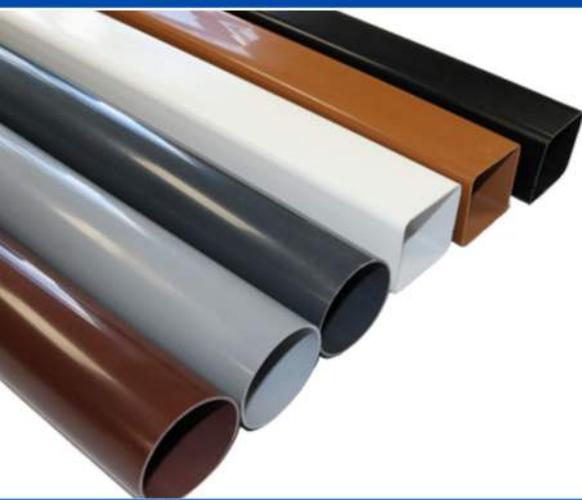
Rainwater Systems Guide

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 Kalsi Plastics (UK) Ltd



THE COMPANY

Kalsi Group is a leading manufacturer of high-quality, maintenance-free plastic building products, all expertly crafted at our advanced extrusion plant in Birmingham.

We cater to the full spectrum of the building industry, providing solutions for new builds and refurbishments across both commercial and domestic sectors. Our product range includes roofline systems, rainwater systems, underground systems, and soil & waste systems, all produced to existing British Standards using the latest in industry-leading machinery and tooling systems. We are proud to hold ISO 9001:2015, Kitemarks and BBA accreditation, underscoring our commitment to quality and excellence.

Aquacel, Aquaflow, and Aquawall products are readily available from a vast network of stockists throughout England, Scotland, Wales, and Ireland. Our dedicated and adaptable delivery service ensures that every order arrives punctually and in perfect condition. We are continually expanding our fleet of vehicles to guarantee even faster delivery times.

Our telephone sales department is highly valued for its friendly and responsive customer service. Trained to assist with ordering and delivery queries, our team is always on hand to provide expert advice. Additionally, our regional sales team, covering all parts of the UK and Ireland, is well-versed in our full product range and is equipped to offer professional guidance and support.

At Kalsi Group, we place a strong emphasis on innovation and customer support, continuously striving to meet and exceed our customers' expectation and satisfaction.



APPLICATION

Aquaflow Rainwater Systems offer advanced guttering solutions designed for efficient rainwater management in both new builds and refurbishment projects, whether commercial or domestic. These systems effectively channel rainwater away from buildings, reducing the risk of water damage and flooding, and are designed to blend seamlessly with various architectural styles, providing a durable and low-maintenance solution.



MANUFACTURING PROCESS

All Aquaflow products are manufactured from unplasticised polyvinyl chloride (PVCu) and adhere to the material requirements specified in BS EN 12200-1:2000 and BS EN 1462:2004. Rainwater gutters and pipes are produced through a continuous extrusion process, while fittings are crafted using high-pressure injection moulding machines. Each fitting is manufactured to precise tolerances, ensuring accurate incorporation of design features for reliable performance.



KM 585011
ISO 9001:2015

COLOURS

Aquaflow Rainwater Systems are available in a variety of colours, including white, black, brown, light oak, grey, and anthracite grey. Our Half-Round and Krown Ogee profiles are also offered with a cast iron effect. For more details on ordering specific colour ranges, please refer to our product guide.

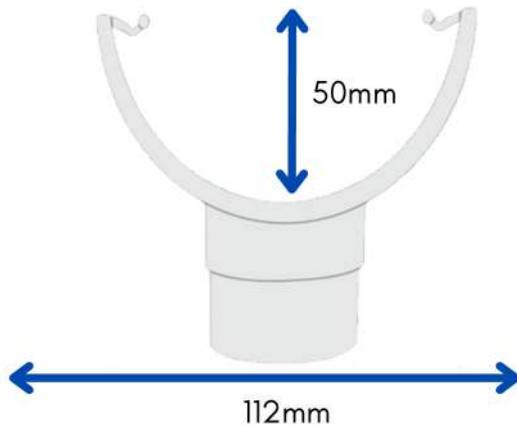
All of our products are manufactured using a co-extrusion process, which ensures a high-gloss finish. This not only enhances the aesthetic appeal but also provides superior weathering performance and a consistent match between the gutters and fittings.



HALF-ROUND PROFILE

- Traditional half-round design.
- Excellent gutter flow capacity (refer to page 7).
- High-quality finish.
- Includes round-to-square adaptors for easy connection.
- Ideal for all types of homes, conservatories, and extensions.

Available in: **W** **BL** **BR** **G** **AG**



SQUARE LINE PROFILE

- Clean-cut square design.
- High gutter flow capacity (refer to page 7).
- Square-to-round adaptors for easy connection.
- Suitable for various property types including homes, conservatories, and extensions.

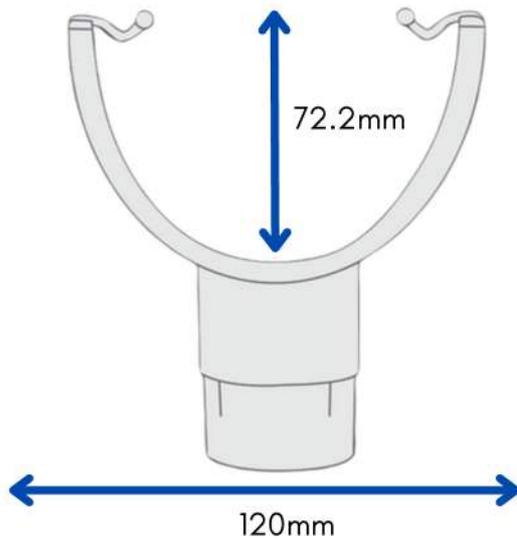
Available in: **W** **BL** **BR** **G** **AG** **LO**



DEEP FLOW PROFILE

- Semi-elliptical design.
- High gutter flow capacity, ideal for large roof areas (refer to page 7).
- High-quality finish.
- Fewer outlets and fittings required due to its capacity.

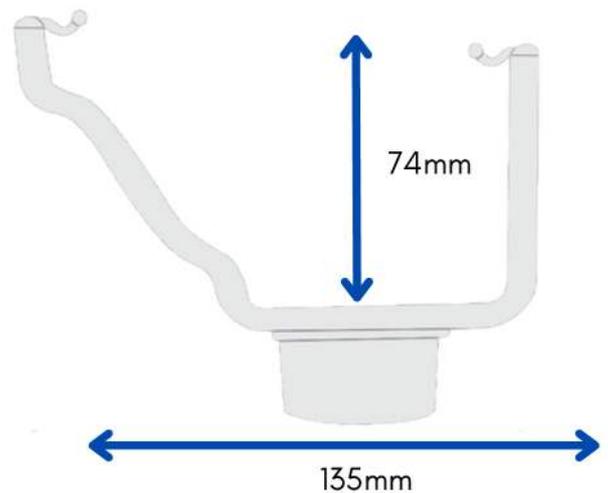
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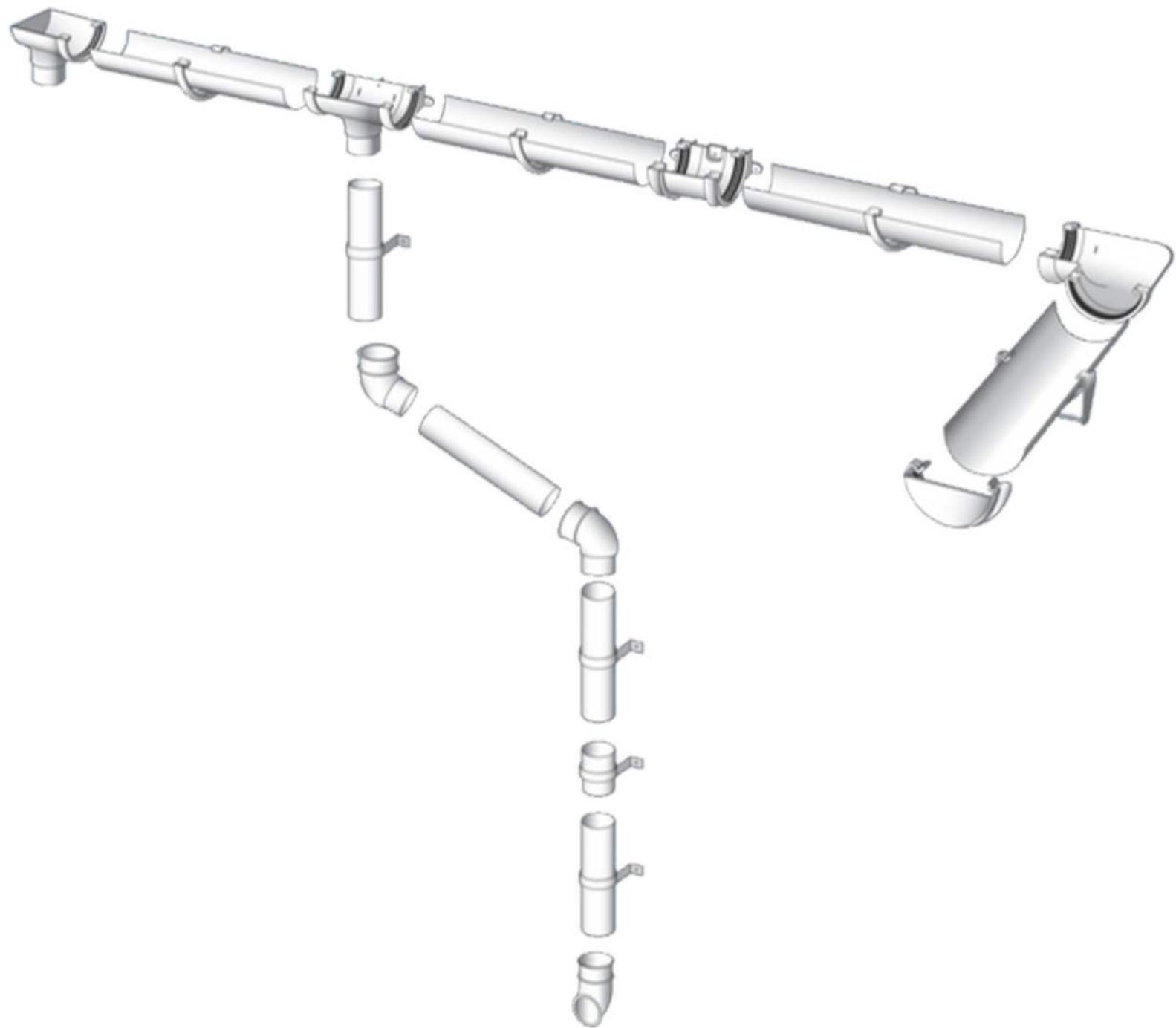


KLASSIC OGEE PROFILE

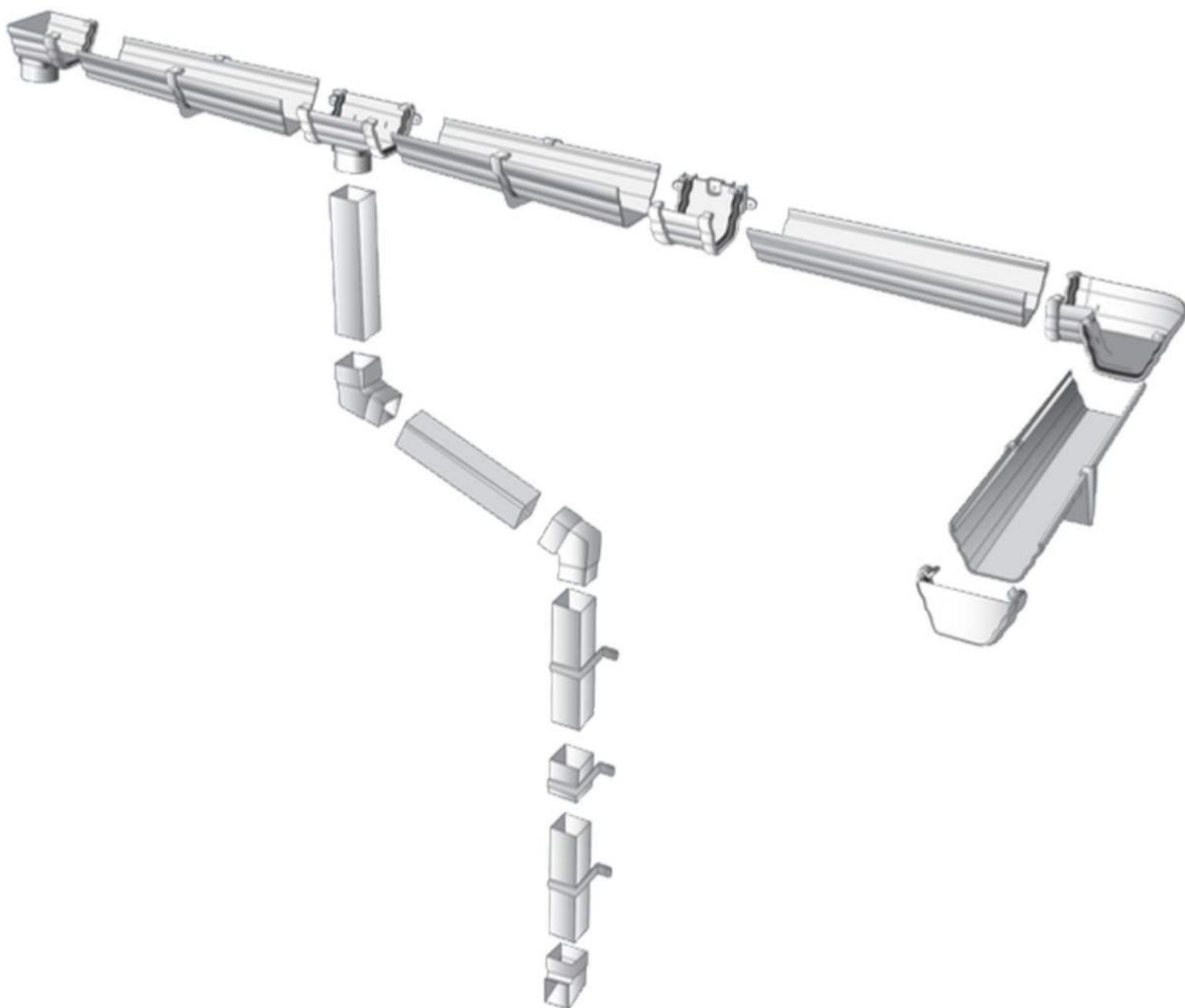
- Attractive ogee design.
- High gutter flow capacity (refer to page 7).
- High-quality finish.
- Compatible with both round and square downpipes.

Available in: **W** **BL** **BR** **LO**





| Manufacturer | Half-Round Profile | Square Line Profile | Deep Flow Profile | Klassic Ogee Profile | Krown Ogee Profile | 160mm Kommercial Profile | 200mm Kommercial Profile |
|------------------|--------------------|---------------------|-------------------|----------------------|--------------------|--------------------------|--------------------------|
| Brett Martin | ✓ | ✗ | ✓ | ✗ | ✗ | ✗ | ✗ |
| FloPlast | ✓ | ✓ | ✓ | ✗ | ✗ | ✗ | ✗ |
| Freeflow | ✓ | ✓ | ✓ | ✗ | ✗ | ✗ | ✗ |
| Gerberit Terrain | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ |
| Hepworth | ✓ | ✓ | ✓ | ✗ | ✗ | ✓ | ✗ |
| Hunter | ✓ | ✓ | ✓ | ✗ | ✓ | ✗ | ✓ |
| Marley | ✓ | ✗ | ✓ | ✗ | ✗ | ✓ | ✓ |
| Marshall Tufflex | ✓ | ✓ | ✓ | ✗ | ✗ | ✗ | ✗ |
| Osma (Wavin) | ✓ | ✗ | ✓ | ✗ | ✗ | ✓ | ✗ |
| Polypipe | ✓ | ✓ | ✓ | ✗ | ✗ | ✓ | ✗ |



Gutter flow capacity with outlet at the centre of the gutter run.

| System | Gutter Flow | Gradient 1:350 |
|----------------------|---------------------|---------------------|
| Half-Round Profile | 1.90 Litres/Sec | 2.43 Litres/Sec |
| Square Line Profile | 2.20 Litres/Sec | 3.03 Litres/Sec |
| Deep Flow Profile | 3.80 Litres/Sec | 5.00 Litres/Sec |
| Klassic Ogee Profile | 3.66 Litres/Sec | 5.13 Litres/Sec |
| Krown Ogee Profile | 3.77 Litres/Sec | 4.60 Litres/Sec |
| 160mm Kommercial | 4.60 Litres/Sec | 6.467 Litres/Sec |
| 200mm Kommercial | 12.50 Litres/Sec | 14.00 Litres/Sec |

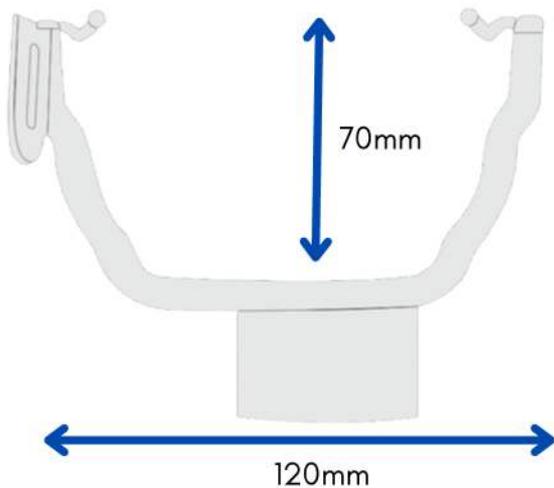
Gutter flow capacity with outlet at the end of the gutter.

| System | Gutter Flow | Gradient 1:350 |
|----------------------|--------------------|--------------------|
| Half-Round Profile | 0.95 Litres/Sec | 1.21 Litres/Sec |
| Square Line Profile | 1.10 Litres/Sec | 1.55 Litres/Sec |
| Deep Flow Profile | 2.05 Litres/Sec | 2.56 Litres/Sec |
| Klassic Ogee Profile | 1.83 Litres/Sec | 2.56 Litres/Sec |
| Krown Ogee Profile | 1.87 Litres/Sec | 2.29 Litres/Sec |
| 160mm Kommercial | 2.30 Litres/Sec | 3.23 Litres/Sec |
| 200mm Kommercial | 6.70 Litres/Sec | 8.70 Litres/Sec |

KROWN OGEE PROFILE

- Distinctive ogee design.
- High gutter flow capacity (refer to page 7).
- High-quality finish.
- Eliminates the need for right or left-hand stop ends and internal or external angles.

Available in: W BL BR LO AG



KAST IRON HALF-ROUND/KROWN OGEE PROFILES

Half-round

- Excellent gutter flow capacity (refer to page 7).
- High-quality finish.
- Suited for homes, conservatories, extensions, log cabins, workshops, and more.



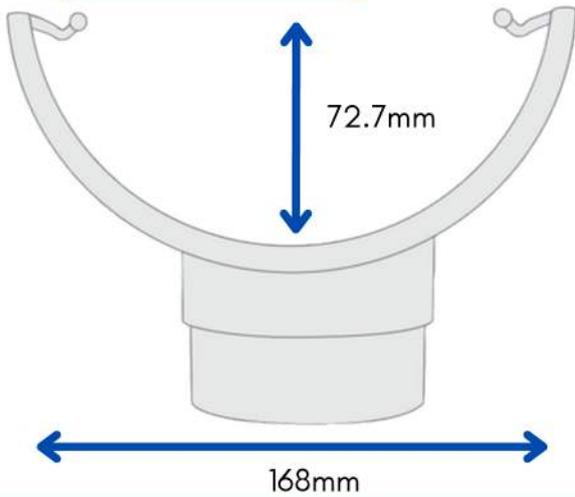
Krown Ogee

- Attractive ogee design with a cast iron effect finish.
- High gutter flow capacity (refer to page 7).
- High-quality finish.
- No need for right or left-hand stop ends or internal/external angles.

160MM KOMMERCIAL PROFILE

- 160mm half-round design with 110mm round pipe and fittings.
- Large gutter flow capacity (refer to page 7).
- High-quality finish.
- Ideal for large industrial and commercial buildings due to its capacity.

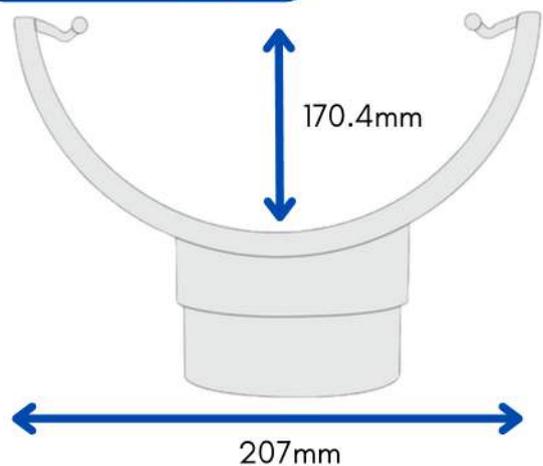
Available in: **BL** **G**



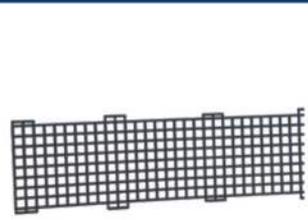
200MM KOMMERCIAL PROFILE

- 200mm half-round design with 160mm round pipe and fittings.
- Largest gutter flow capacity available (refer to page *).
- Extra fitting points for enhanced stability.
- Ideal for extensive industrial and commercial buildings.

Available in: **BL** **G**



ACCESSORIES



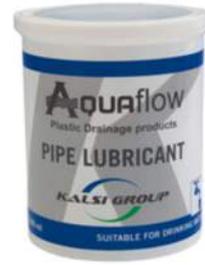
Gutter Guard
5m



Gutter Brush
4m
(White and Black)



Eaves Protector



1L Soluble
Lubricant



PVC Cement
125ml/250ml

STANDARDS

- BS EN ISO 9001:2015
- BS 4576 Part 1:1990
- BS 4515:1983

ACCREDITATIONS

- Gutters and Fittings: BS EN 607:2004
- Downpipes and Fittings: BS EN 1329-1:2020
- Gutter Brackets: BS EN 1462:2004

INSTALLATION GUIDE

For a detailed step-by-step guide on installing Aquaflow rainwater systems, please refer to the installation guide available on our website at www.kalsiplastics.co.uk, under the 'Rainwater Systems' section on the products page.



GENERAL MAINTENANCE

Maintaining your guttering system is crucial for ensuring its efficiency and preventing water damage to your property. Follow these guidelines for proper upkeep:

Check for Blockages

Inspect your gutters and downspouts for debris, such as leaves or twigs, that may block the flow of rainwater. Blockages can cause overflows and potential damage. Use tools like a gutter scoop or a small trowel to remove debris, and consider a plumber's snake or a high-pressure hose for difficult areas.

Clean Your Gutters

After removing blockages, clean your gutters thoroughly to eliminate all dirt and leaves. Use gloves for protection and ensure all debris is cleared. Rinse the gutters and downspouts with a garden hose to remove smaller particles and verify smooth water flow.

Inspect and Repair

Regularly inspect for signs of damage, such as rust, cracks, or loose sections. Address any issues immediately to prevent further deterioration. Apply a suitable sealant to fix any leaks or holes. For significant damage, replacing the affected sections of the guttering may be necessary.





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