



ACO Radius Channel System

ACO Radius Channel offers the designer a bespoke solution for drainage virtually free of the design constraints associated with standard or off-the-shelf product.

Radius channel systems can be specified with great flexibility: width, radii, channel depth and grating aperture patterns are almost infinitely variable, allowing integration with surrounding materials.



All channels are fabricated in grade 304 or 316 stainless steel ensuring years of corrosion resistant performance.

ACO bespoke products enjoy rigorous project management from initial enquiry through to delivery. Our engineers are able to offer detailed advice on all aspects of channel system design together with hydraulic analysis as required.



Using modern design and manufacturing techniques provides economical production, even over comparatively small numbers of units, provided certain principles are followed as detailed overleaf. Economies are further enhanced by ACO's continued investment in European wide state of the art manufacturing resource.

Features and Benefits



- 1 Grating type can include Brickslot for discreet appearance at surface
- 2 Optional locking for security
- 3 Designed for use in applications up to FACTA Load Class B
- 4 Various grating aperture patterns available
- 5 Stainless steel construction in grade 304 or 316 for superior corrosion resistance
- 6 Variable radii to fully integrate with landscaping design
- 7 Manufacturing technique allows for accurate radius reproduction
- 8 Channel flange joints supplied with gasket and five-point clamping for water tight seal
- 9 Variable invert depth and widths available
- 10 Optional trapped spigot outlet with flow capacity of 1.2 l/s or can be integrated with ACO EuroGully system for higher flow and serviceability
- 11 Anchor tangs for installation durability
- 12 Adjustable leveling feet to aid installation

Radius Channel System Specification Guidance

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| Channel / grate radius | Practically all radii between 0.5 and 25m are possible. Greater economy is possible where a single radius is used, for example 2.5m. Compound radii are possible. |
| Channel / grate width | Most systems are designed around a nominal channel bore of 100mm, overall width 131mm. Greater or lesser widths can be accommodated with wider options costing disproportionately more for a given load bearing performance. Up to 10mm material thickness is possible. |
| Channel invert | Either level or sloping invert systems can be manufactured. A maximum practical depth of up to 150mm is possible. ACO offer hydraulic design for complete confidence. |
| Outlet | Various combinations from a simple Ø110mm spigot through fully trapped gullies with silt baskets, and flow rates up to 11 l/s are available as standard. |
| Grating aperture pattern | Our CAD / CAM processes allow any pattern to be achieved, greater economy is gained through pattern consistency in shape and size, non-regular patterns are possible. As a general guide, aperture widths between 5mm and 18mm irrespective of length are possible. |

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