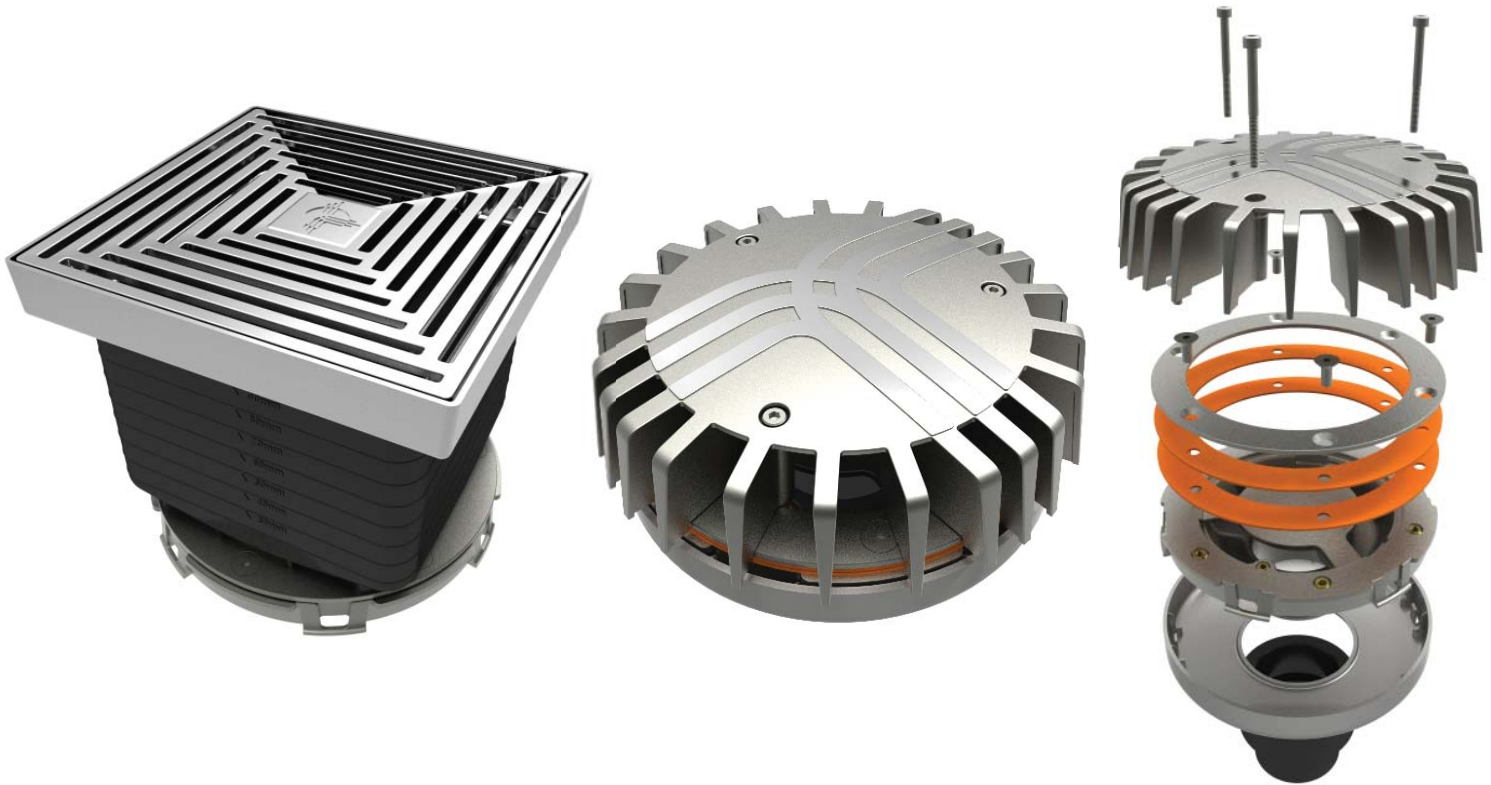


CASE STUDY / SYFON / INLET GRATE PRODUCT DESIGN



BACKGROUND

Syfon Systems are specialist roof drainage engineers with extensive experience dealing with high rainfall drainage applications.

Syfon Systems technology significantly reduces the need for downpipes as all rainwater is collected via high volume gutter inlets and then reticulated through piping systems that run at full volume with minimum or no grade.

The benefits are a more efficient system with significantly reduced pipe dimensions, higher flow rates, reduced gradients and lower capital costs.

As part of the Syfon offer an inlet grate was needed for balconies and pedestrian areas.

SOLUTION

Die cast zinc components together with HDPE pipe fittings have been engineered to create an integrated system for use in cast concrete slab constructions.

The inlet itself has been prototyped and analysed from a fluid dynamics point of view to deliver optimum flow for various size pipe connections.

The products have been designed as a premium range for use in up-market building developments and as such all the visible surfaces have a lustrous chrome finish.

Ease of installation has also been a primary consideration with the inclusion of protective covers to stop screed entering the system as well as a height adjustable drainage funnel.

Where plastics have been used they are all recyclable and are clearly identified as such.

UNO also developed the packaging for the product which included strongly branded premium packs as well as technical and installation guides.

SERVICES

- Concept Design
- Detailed Engineering Design
- Prototyping
- Production Documentation
- Packaging
- Technical Guides



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