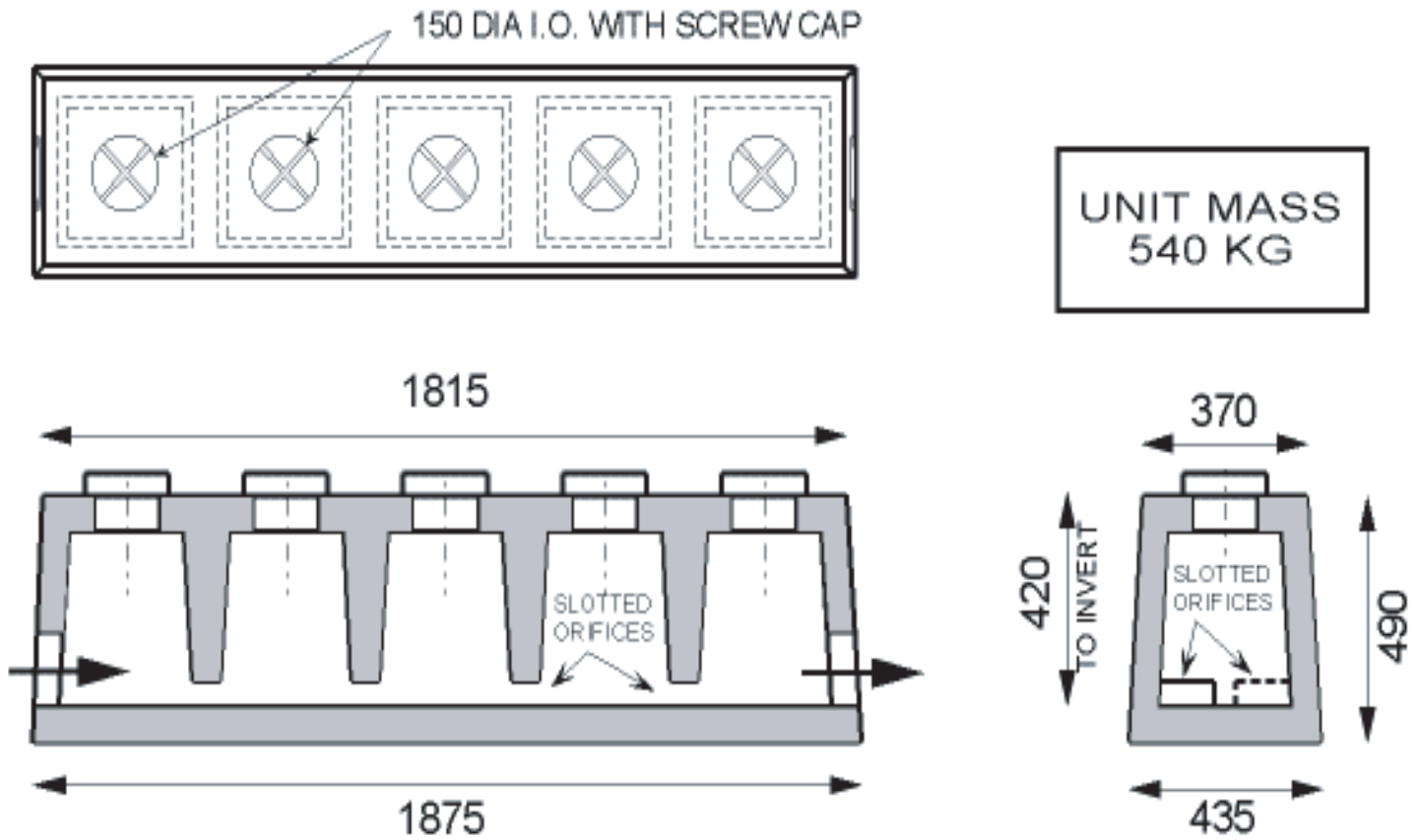




MC2 MULTICELL

FLOW CONTROL FOR ON-SITE
STORMWATER DETENTION

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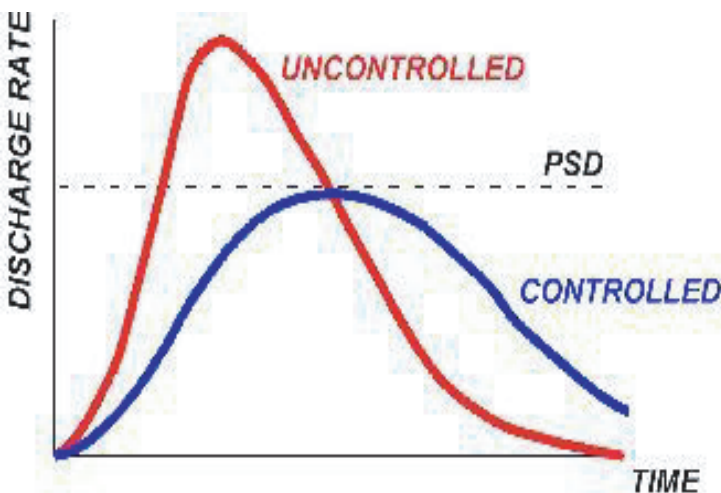


OSD - WHY ON-SITE DETENTION IS NECESSARY

When a site is redeveloped, the proportion of hard surfaces such as roofs and concrete paving is increased whilst the proportion of soft or absorbent surfaces such as lawns and gardens is reduced. These changes increase both the quantity and the flow rate of stormwater which will drain from the site. In many circumstances, the increased run-off will overload existing municipal drains and cause nuisance flooding on a regular basis. Controlling authorities will insist upon measures being taken to ensure that this overloading does not occur.

Two solutions are generally available - replace the existing municipal drains or install a stormwater detention system on the site. Both options result in direct development costs but on-site detention allows developers to retain control of the project and keep their costs to a minimum.

OSD enhances the capacity of the existing drainage system and preserves the amenity of developing localities.



OSD - HOW DETENTION SYSTEMS WORK

The analysis of run-off flow rates and storage volumes involves a significant amount of detailed calculations and should be referred to a hydraulic designer. Despite this the basic workings of a detention system are relatively simple.

At the onset of a storm, stormwater will commence to discharge from the site. The earliest flow will be from areas nearest the discharge point but the rate of flow will increase significantly as water from the furthest points of the property reaches the discharge point. As the intensity of the storm approaches its peak, the discharge rate will increase relatively sharply to a maximum. Some time after the peak has passed, the flow rate will start to subside. A plot of the flow rates would yield a triangular figure similar to the one marked