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Load Capacity of EasyDRAIN™ Channel and Grate

Description	Codes of Applicable Products
EasyDRAIN™ Polymer Channel and Polymer Grate	
<p>Tests in accordance with AS3996 have shown the EasyDRAIN™ Polymer Channel and Polymer Grate are adequate for Class A use. Further tests replicating actual service use indicate that the polymer grate can safely withstand a 500kg load applied to a 100mm wide pad across the span of the grate. The opening width and the concave cross-bar design, allows most wheels to roll across the grate from side to side without applying the full wheel load as the loads are transmitted through the channel wall to the foundations.</p> <p>The EasyDRAIN™ channel directs any applied loading down to the concrete encasement to the bedding material below. Thus the EasyDRAIN™ Polymer Channel and Polymer Grate , when correctly installed, can support vehicles with axle loads of up to 2 tonnes crossing the channel.</p>	<p>83300, 83390, 83387, 83330, 83400, 83800, 83301, 83391, 83331, 83401, 83302, 83392, 83332, 83402, 83520, 83620, 83320, 83350, 83420, 83820, 83321, 83351, 83421, 83322, 83352, 83422</p>
EasyDRAIN™ Polymer Channel and EURODESIGN 316 Stainless Steel Grate	
<p>A range of heel safe 316 stainless steel grates are available, which are capable of supporting light vehicles such as private cars in a car park. The stainless steel grate can be secured with a bolt arrangement, and the securing metal cross bar MUST be fitted before the channel is installed. These grates have been tested and comply with the requirements of AS 3996 for Class A loadings.</p>	<p>83308, 83309, 83396, 83335, 83403, 83803, 83430, 83397, 83336, 83404, 83431, 83398, 83337, 83405, 97841, 97842, 97843, 97850, 97835</p>
EasyDRAIN™ Polymer Channel and Galvanised Steel Round Bar Grate	
<p>Galvanised fabricated steel grates are available, which are capable of supporting light vehicles such as private cars in a car park. These grates have been tested and comply with the requirements of AS 3996 for Class A loadings.</p>	<p>83307, 83395, 21099</p>

Description	Codes of Applicable Products
EasyDRAIN™ Polymer Channel and Pressed Stainless Steel Grate	
The range of pressed stainless steel steel grates available for the EasyDRAIN™ range of channels do not meet the requirements of the Class A loading of AS 3996 as the permanent deflection of the grate was greater than the standard permits. However, during testing it was found that the grates could sustain an equivalent wheel load of 500kg. So, whilst it is able to be used in a driveway situation exposed to slow moving light vehicles such as car, it may be noticed that over time the flat upper surface may show signs of slight indentation.	83303, 83393, 83389, 83333, 83901, 83801, 97823, 97824, 96064, 96062 Also, EasyDRAIN™ Compact: 83501, 83601
EasyDRAIN™ Polymer Channel and Pressed Galvanised Steel Grate	
The range of pressed galvanised steel steel grates available for the EasyDRAIN™ range of channels do not meet the requirements of the Class A loading of AS 3996 as the permanent deflection of the grate was greater than the standard permits. However, during testing it was found that the grates could sustain an equivalent wheel load of 500kg. So, whilst it is able to be used in a driveway situation exposed to slow moving light vehicles such as car, it may be noticed that over time the flat upper surface may show signs of slight indentation.	83432, 83433, 83388, 83338, 83900, 83802, 96059, 96060, 96061, 96063
Everdrain and Evercast Grate	
It is strongly recommended that where frequent high loadings are expected, or in instances where high wheel load vehicles such as forklifts may drive along the length of the drain, that Evercast cast-iron grates are used rather than standard polymer grates. the Evercast grate is made to suit the 125mm channel, and if installed correctly can support the equivalent of AS 3996-2006 Class D loadings.	84882, 14874

Note: For best results, vehicles MUST NOT travel along the line of the channel, and the grates must be kept clear of stones and other objects which might concentrate wheel loadings onto small areas. Loads carried by vehicles with very small wheels such as forklifts and pallet trucks must not exceed 500kg load per wheel.

- Everhard Engineering Department

AS 3996-2006 Class Loadings		
Class A	Class B	Class D
Suitable for areas exposed only to pedestrian traffic - not including livestock.	Suitable for pedestrian areas open to traffic from service vehicles. Class B is often selected for applications such as car-parks where commercial and heavy goods vehicles are not permitted.	Suitable for normal roadway traffic areas exposed to commercial and heavy goods vehicles.

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