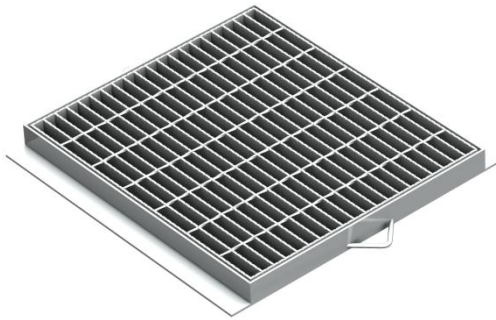
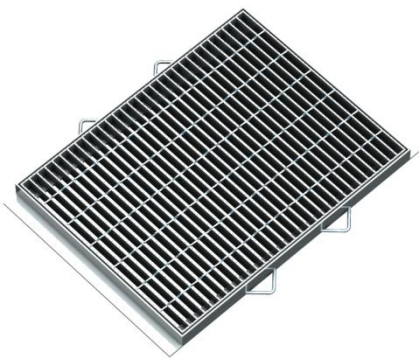
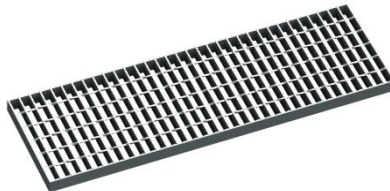


# *We're changing!*



## EGAL Grates



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Road Safety  
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# Introduction

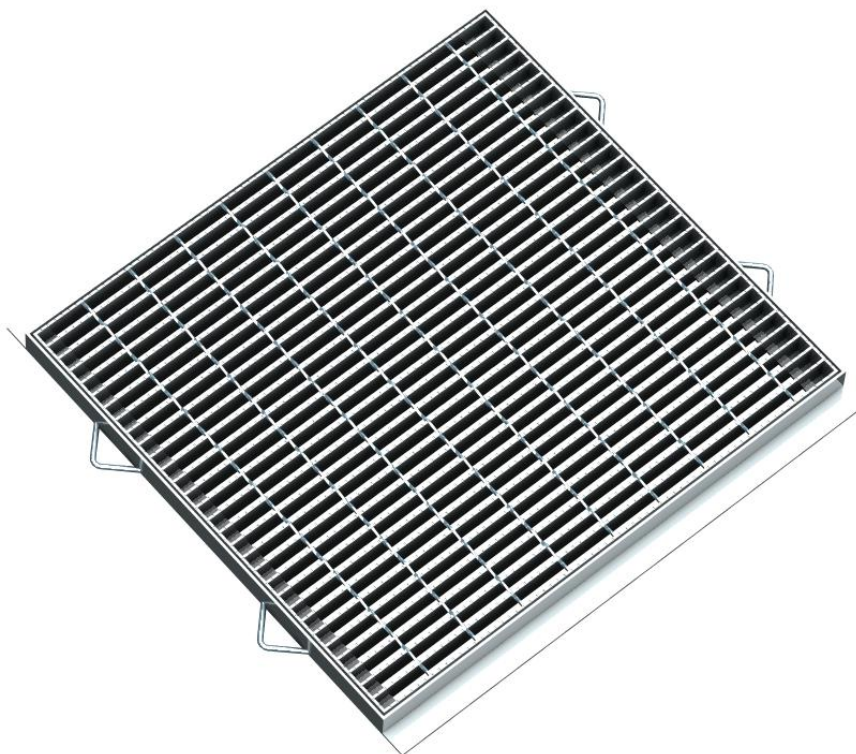
Road Safety Grating has always prided itself on leading the charge in product innovation for the stormwater drainage and management industry. Throughout 2012 we have been aggressively redesigning our range of sump grating, trench grating and access covers. Taking advantage of the latest in design techniques and materials technology and building on our almost 40 years of experience in the industry, we have sought to provide our customers with the most optimised and innovative range of products. These changes have been made as a result of extensive consultation with our customer base and local governments, addressing concerns about safety and security, while offering a cost-effective solution.

Road Safety Grating sought to introduce a sump and trench grate line that offered highly economical products, while still delivering benefits such as bicycle tyre penetration resistance, strength and long term durability. The result is the EGAL range of sump and trench grates.

Utilising load bars to retain strength and twists bars spaced to achieve bicycle tyre penetration resistance as established in AS3996 -2006, the EGAL sump grate range is available in Class B (light duty), while the EGAL trench grating range is available in both Class B (light duty) and Class C (medium duty).

The light-weight range has been designed with residential properties in mind, achieving the delicate balance between strength, safety and affordability.

Road Safety Grating remained highly conscious of the cost-competitiveness of our products while redeveloping the range. A major component of the redesign was the ability to streamline the manufacturing process while reducing material waste. The EGAL range of trench and sump grates epitomise the success that Road Safety Grating has achieved in its effort to deliver a range of products that offer essential safety features, such as bicycle tyre penetration, while retaining strength and affordability.



## EGAL – What's it all about?

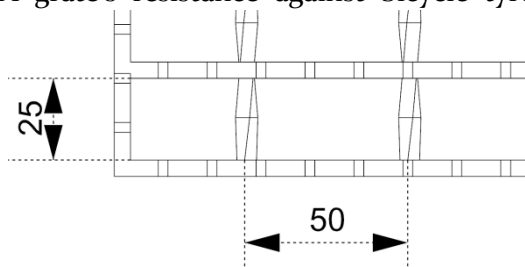
In developing the EGAL range of sump and trench grates, Road Safety Grating was heavily committed to designing a range of grates that were highly economical. This was achieved through the use of mesh sheets, offering a light-weight product that retains appropriate strength for its class rating, while having the added advantage of meeting bicycle tyre penetration resistance standards.

EGAL grates utilise light load bars, supported by a frame with two sides bearing and tied together with light-weight twist bars, helping to distribute loads throughout the grate and establishing excellent resistance against all forms of tyres. The significant weight reductions in the EGAL range has been achieved through efficient use of materials to meet the needs of residential and light-traffic applications. Tailor made for areas experiencing both light vehicular traffic and frequent pedestrian access, the EGAL range also includes an anti-slide resistance, offering good grip for both tyres and footwear. Light enough for regular access, while strong enough for regular car traffic, the EGAL range is ideal for most residential applications, offering a safer, more economical alternative to heavier grates designed for more frequent bombardment by heavy loads.

The EGAL range consists of class B (light duty) sump grates in a variety of sizes, as well as class B (light duty) and class C (medium duty) trench grates. All EGAL grates include a mild steel frame, with trench grating also available with a pre-formed trench.

## Bicycle Tyre Penetration Resistance

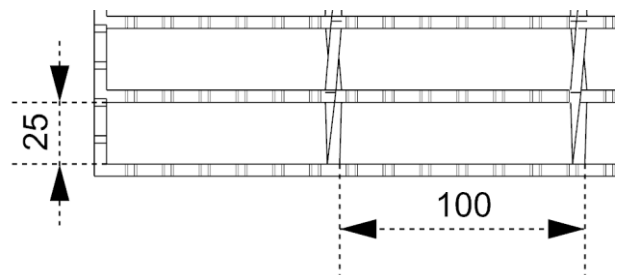
A grate's resistance against bicycle tyre penetration is often a primary concern in choosing grates for residential applications and so the EGAL range of trench and sump grates has been designed to exceed the BTPR requirements established in AS3996 – 2006.



The maximum clear opening on trench grates is 45mm x 25mm, with 5mm twists bars centred 50mm apart over the width of the grate. With a slot width of 25mm (<28mm), and 5mm load bars,

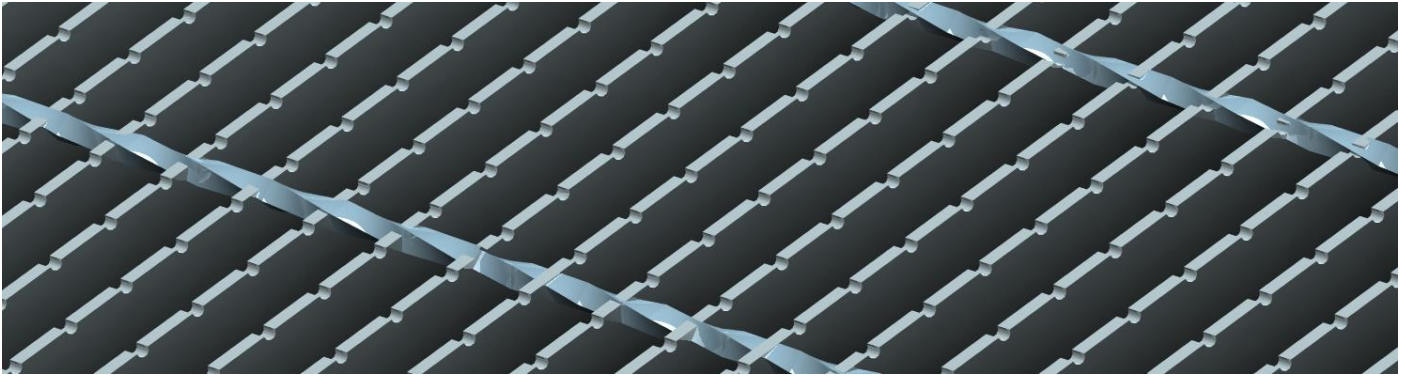
AS3996 – 2006 requires that the spacing between the twists bars does not exceed 120mm. The spacing of 50mm (maximum) is therefore twice as small as that needed to achieve bicycle tyre penetration resistance, making EGAL trench grates highly resistant to bicycles, wheelchairs and prams.

Sump grates utilise twist bars centred every 100mm, with the same 25mm opening between load bars. The requirement for BTPR is therefore the same, that the clear opening between twist bars does not exceed 120mm. With 95mm between twist bars, the EGAL sump grate also exceeds the requirements for BTPR. All EGAL sump and trench grates have been subject to the BTPR tests as established in AS3996 – 2006 and have succeeded in meeting test requirements. For more information on bicycle tyre penetration resistance requirements, refer to section 3 of AS3996 – 2006 or contact us.

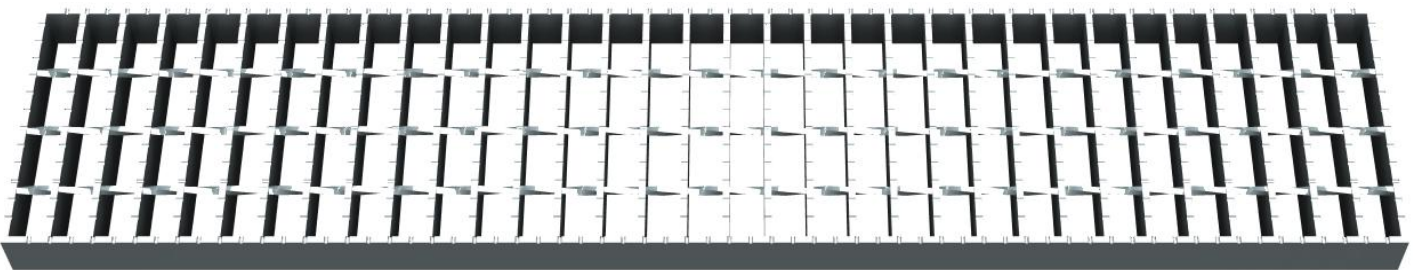




## Slide Resistant Design

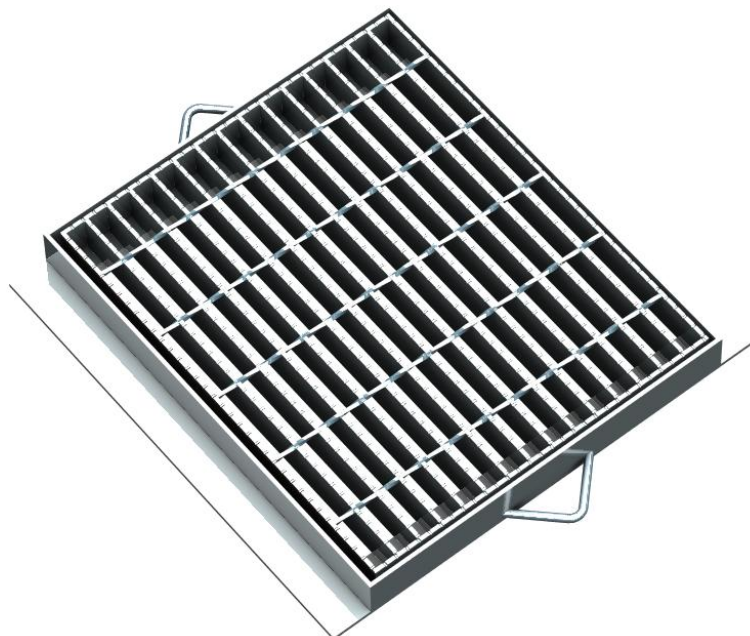


Safety is a major priority, whether mitigating risks to the public or ensuring the safety of your children playing in the driveway, every safety feature that a grate can offer is essential. In addition to the bicycle tyre penetration resistance of the EGAL range, the grates also include a slide-resistant serration.



The slide resistant serration provides excellent grip for both footwear and tyres alike. This is essential for areas where the grates are likely to be contacted by both cars and pedestrians. While the benefits of the slide resistance for footwear are obvious, such as preventing falls, the benefits of the grip provided for tyres is often overlooked. Traditional grates, without a serration, offer very limited resistance against sliding, which becomes particularly evident when braking. The serration of the EGAL range offers a comparable slide resistance to concrete, decreasing the required braking distance of a car, even in wet conditions. This is particularly beneficial in driveways, where rapid braking may be required.











The slide resistance of the EGAL range is equally beneficial for bikes and wheelchairs, preventing slipping and other potential hazards that arise in traditional grates. The serration comes standard with all EGAL trench and sump grates.



# Available Products

## Sump Grates







EGAL sump grates are available in the following sizes in class B (light duty). Ideal for residential applications where light vehicles (typically cars) may contact the grates, but at low speeds, the EGAL range includes a mild steel frame standard.

| Pit Size     | Image   | Specifications   | Product Specification QR Code*  |
|--------------|---|--|---|
| 450 x 450mm  |    | Pit size: 450 x 450mm<br>Product Code: sg-l-msg-e4545<br>Overall Grate size: 545 x 455 x 50 mm<br>Grate Weight: 19 kg<br>Grate & Frame Weight: 27 kg<br>Features: Bike safe.<br>Slide resistant. |    |
| 600 x 600mm  |   | Pit size: 600 x 600mm<br>Product Code: sg-l-msg-e6060<br>Overall Grate size: 695 x 605 x 50 mm<br>Grate Weight: 30 kg<br>Grate & Frame Weight: 41 kg<br>Features: Bike safe.<br>Slide resistant. |   |
| 750 x 750mm  |  | Pit size: 750 x 750mm<br>Product Code: sg-l-msg-e7575<br>Overall Grate size: 845 x 755 x 50 mm<br>Grate Weight: 45 kg<br>Grate & Frame Weight: 59 kg<br>Features: Bike safe.<br>Slide resistant. |  |
| 900 x 600 mm |  | Pit size: 900 x 600mm<br>Product Code: sg-l-msg-e9060<br>Overall Grate size: 905 x 695 x 50 mm<br>Grate Weight: 45 kg<br>Grate & Frame Weight: 59 kg<br>Features: Bike safe.<br>Slide resistant. |  |
| 900 x 900 mm |  | Pit size: 900 x 900mm<br>Product Code: sg-l-msg-e9090<br>Overall Grate size: 995 x 905 x 50 mm<br>Grate Weight: 63 kg<br>Grate & Frame Weight: 79 kg<br>Features: Bike safe.<br>Slide resistant. |  |



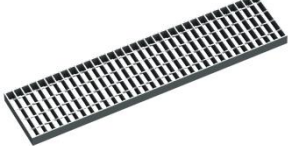



\* To view the product specification on your smart phone or tablet, scan this code. Alternatively, product specifications can be found at [www.grating.com.au](http://www.grating.com.au). For help on using the QR code, refer to the last page of this booklet.

## Trench Grates (Light Duty – Class B)

Light duty (class B) trench grates are appropriate for residential driveways with light vehicular traffic. All EGAL trench grates come standard with a frame and a pre-formed PVC trench is also available on all sizes. Trench grating is made to customers' exact specifications (eg. 3.6m in length).

| Clear Opening Size | Image  | Specifications  | Product Specification QR Code*   |
|--------------------|--|---|--|
| 100 mm             |   | Clear Opening size: 100 mm<br>Product Code (with frame): tg-l-msg-e100<br>Product Code (with channel): ptg-l-msg-e100<br>Overall Grate Size (w x d): 152 x 25 mm<br>Grate Weight (per metre): 8.5 kg<br>Channel Depth (internal): 125 mm  |   |
| 150 mm             |   | Clear Opening size: 150 mm<br>Product Code (with frame): tg-l-msg-e150<br>Product Code (with channel): ptg-l-msg-e150<br>Overall Grate Size (w x d): 200 x 25 mm<br>Grate Weight (per metre): 10.5 kg<br>Channel Depth (internal): 150 mm |   |
| 225 mm             |  | Clear Opening size: 225 mm<br>Product Code (with frame): tg-l-msg-e225<br>Product Code (with channel): ptg-l-msg-e225<br>Overall Grate Size (w x d): 305 x 25 mm<br>Grate Weight (per metre): 14.8 kg<br>Channel Depth (internal): 225 mm |  |

## Trench Grates (Medium Duty – Class C)

| Clear Opening Size | Image   | Specifications  | Product Specification QR Code*  |
|--------------------|---|---|---|
| 100 mm             |  | Clear Opening size: 100 mm<br>Product Code (with frame): tg-m-msg-e100<br>Product Code (with channel): ptg-m-msg-e100<br>Overall Grate Size (w x d): 200 x 40 mm<br>Grate Weight (per metre): 16 kg<br>Channel Depth (internal): 125 mm |  |
| 150 mm             |  | Clear Opening size: 150 mm<br>Product Code (with frame): tg-m-msg-e150<br>Product Code (with channel): ptg-m-msg-e150<br>Overall Grate Size (w x d): 230 x 40 mm<br>Grate Weight (per metre): 18 kg<br>Channel Depth (internal): 150 mm |  |
| 225 mm             |  | Clear Opening size: 225 mm<br>Product Code (with frame): tg-m-msg-e225<br>Product Code (with channel): ptg-m-msg-e225<br>Overall Grate Size (w x d): 305 x 40 mm<br>Grate Weight (per metre): 23 kg<br>Channel Depth (internal): 225 mm |  |

\* To view the product specification on your smart phone or tablet, scan this code. Alternatively, product specifications can be found at [www.grating.com.au](http://www.grating.com.au). For help on using the QR code, refer to the last page of this booklet.



# A Few Tips For Ordering Trench Grating

Here are a few tips when ordering trench grating:

- We assemble trench grating to an overall size, so if you order 5.2m, we will provide you with 5.2m overall, including end caps on the frame and pre-formed trench (if ordered).
- For quick and easy installation, consider the pre-formed PVC trench. It provides the formwork for the trench and so all you need to do is bed the trench and pour your concrete.
- Pre-formed trench does not include plastic end caps as standard. If you'd like end caps, specify that when ordering (they're free!).
- There are a great variety of trench grates available. Consider the application when ordering and have a look at our website to determine the features most appropriate for where the grates are being installed. If in doubt, give us a call.
- There's loads of information on trench grates in our "We're Changing - Trench Grates" booklet. Call or email us for a hardcopy, or grab one from our website. You can also get a digital copy using your smart phone and the QR code on the back cover of this booklet.

## How We're Not Changing

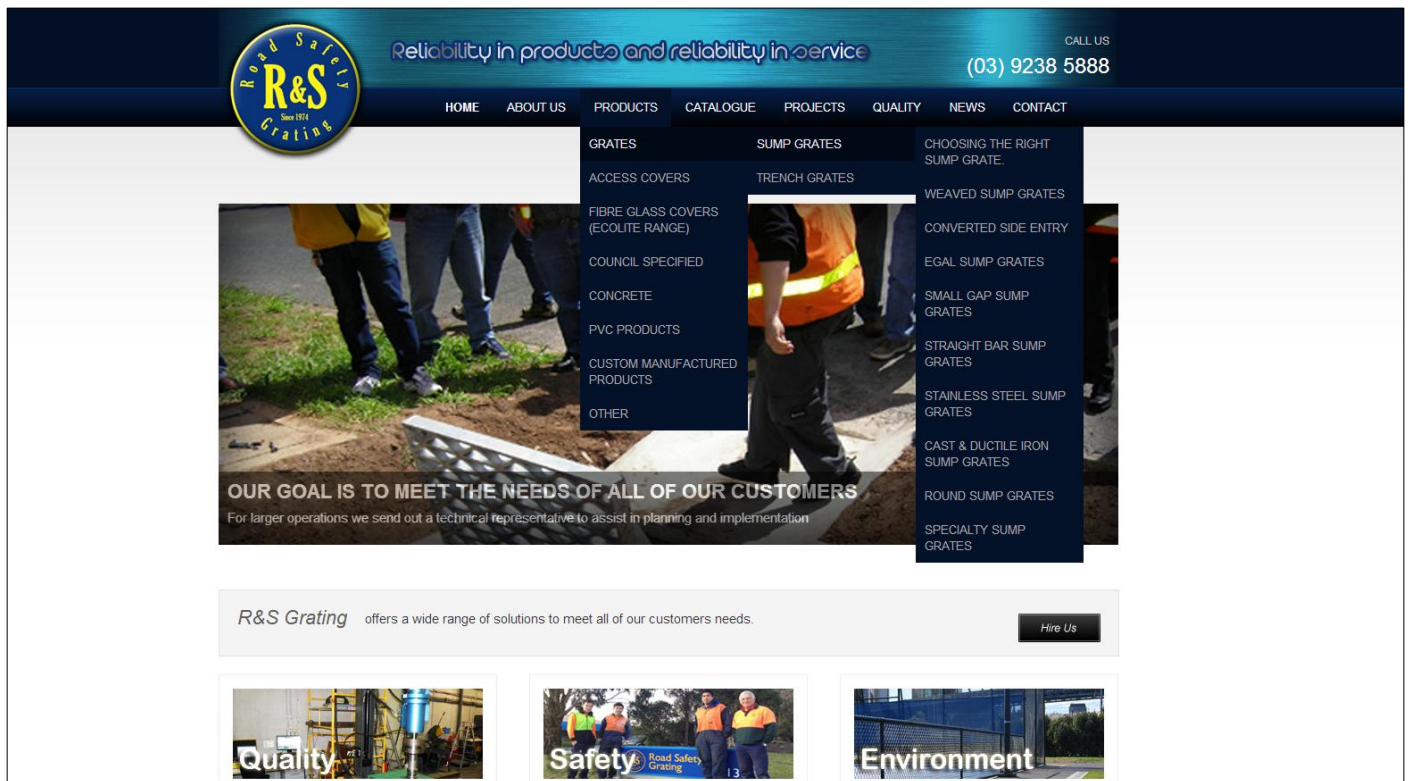
While Road Safety Grating is making many changes to our product range to offer our customers more innovative products at more market competitive prices, we don't want to lose some of the characteristics that have made us a market leader in the industry.

We'll continue to pride ourselves on the quality of our product, using high quality materials and skilled workmanship to supply strong, durable and value-for-money products. We pride ourselves not only on the quality of our product, but also the quality of our service. We'll continue to offer a fast turnaround on both stock lines and custom made products, striving to deliver next day on stock lines and to meet customer deadlines on custom made products.

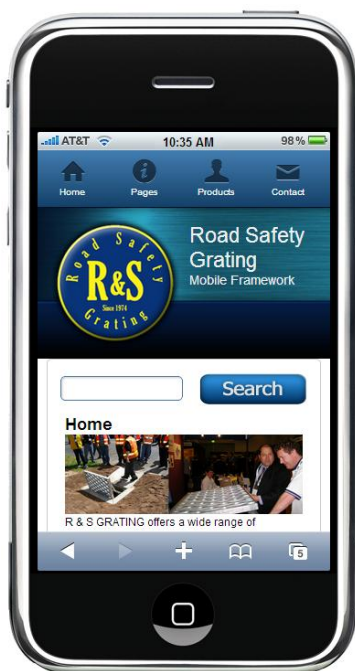
In addition, we'll continue to offer free delivery within the Melbourne metropolitan region.

# Our Website's Changing Too!

Our website has undergone a major redevelopment too! In line with our efforts to provide our customers with the most innovative products and the best service, we've upgraded our website. Visit [www.grating.com.au](http://www.grating.com.au) to download product specifications, catalogues, brochures and booklets or to learn more about how we're changing and what the new look Road Safety Grating has to offer.



# www.grating.com.au



Part of the redesign of our website includes a mobile site designed specifically for smart phones. Directly from your smart phone, you can:



Check it out now...

- Browse or search our full range of products.
- View product images, dimensions, weights and other details.
- Download or view product specifications.
- Download or view our latest catalogue and other publications.
- Stay up to date with the latest products and changes that we're introducing by subscribing to our newsletter.
- Upload images and details to our Custom Design Centre to receive a free quote.

## Help with QR codes...

Those with smartphones can use the QR codes throughout this booklet to download product specifications to their phones or tablets. You can also forward the specification to yourself by email or print the specification (if supported by your device) by scanning the code. To make use of the QR codes, you'll need a QR reader. We've recommended some free ones (without advertising) below.

### **iPhone (3G, 3GS, 4, 4S, 5) or iPad (all)...**

*We recommend...*



NeoReader – QR reader, barcode scanner, & more.

By NeoMedia Technologies, Inc.



### **Android devices...**

*We recommend...*



Google Goggles

Google Inc.



Google play



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Grates**



**Small Gap  
Grates**



**Access  
Covers**



**EGAL  
Grates**



**Trench  
Grates**



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