

Kent Pedestrian Heel Mesh Grating



Kent
STAINLESS

KENT PEDESTRIAN HEELMESH GRATING KPHMG1000

The Kent Pedestrian Heelmesh Grating is commonly manufactured for use as a ventilation grille. It is heelproof and can take loads up to FACTA AAA

Kent Pedestrian Heelmesh grating is frequently supplied with angle frame and support beams (more detail can be found on P3 &4).

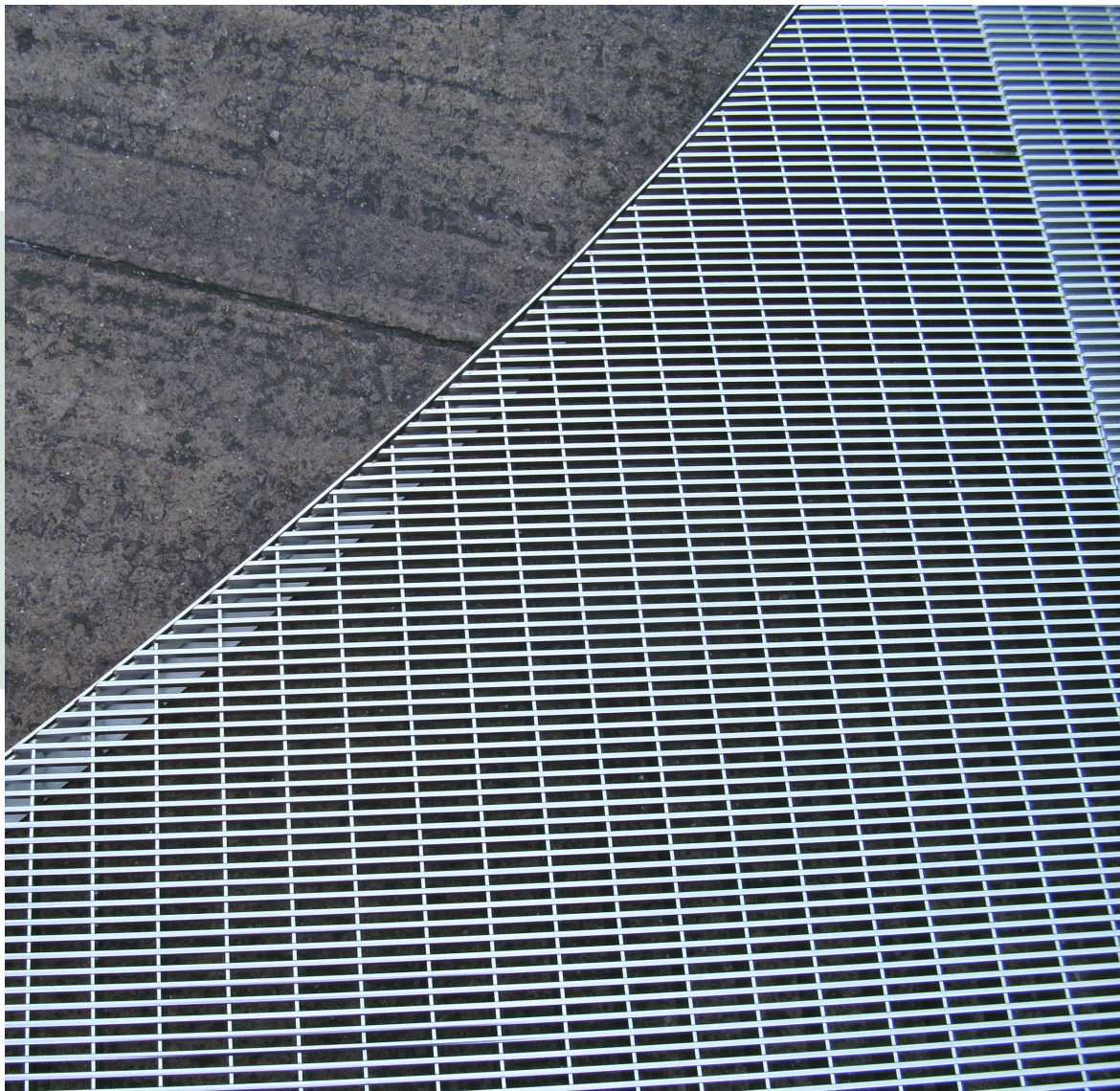
As standard this grating is manufactured to be heelsafe, The 2mm bar and 9mm or 6mm gap prevents high heels getting trapped. Increased free area / air flow can be created by retaining the 2mm bar and increasing the gaps from 6mm to 9mm. We also use 3mm bar on occasion

It is ideal where a high free area for air flow is required but the area is confined to mainly pedestrian activity.

The same grille structure can be made in planks to be used as channel/trench drain gratings and is dealt with in a separate brochure.

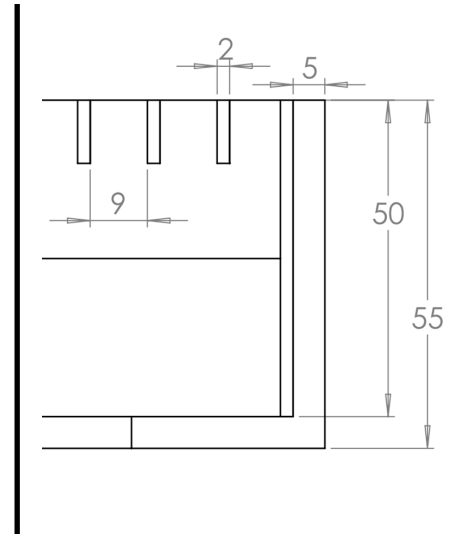
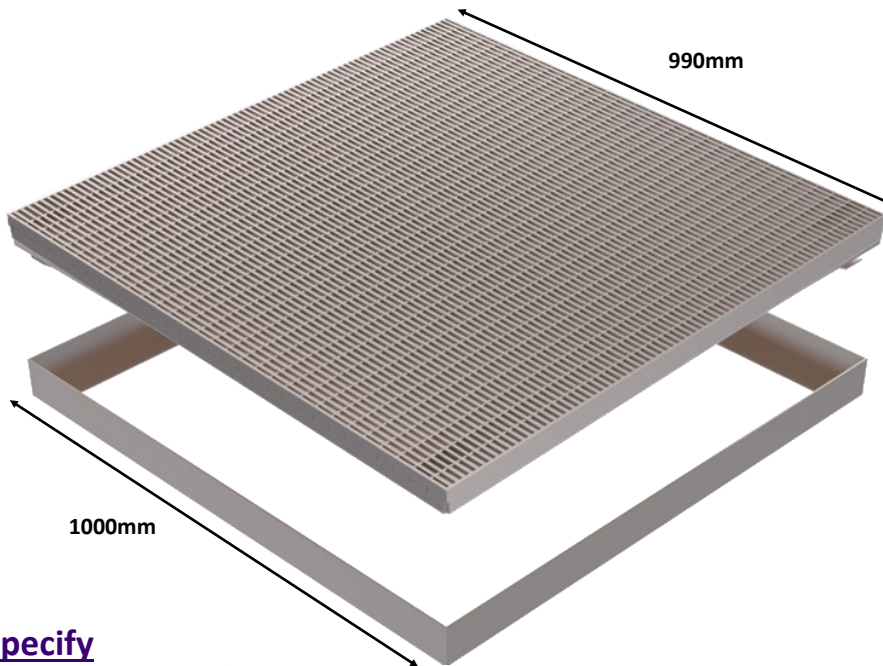
Features:

- Heel safe (ADA and EN1433)
- Up to FACTA AAA Loading
- 2mm bar and 9mm gap as standard
- Grade 316 Stainless steel as Standard
- Hidden Lockdown Points available
- Electropolished as standard—Dip Passivated finish also available



Regents Place, London—2mm Bar / 6mm Gap, FACTA A Loading

KENT PEDESTRIAN HELLMESH GRATING KPHMG1000



Specify

Customise your size, or go with our standard 1000mm x 1000mm x 50 mm
(Loading chosen will may dictate a deeper grating)

Decide between
2mm bar and 9mm gap or
2mm and 6mm gap -or
state free area desired

Specify:

Kent Pedestrian Hellmesh Grating KPHMG1000; Outside Frame 1000mm length, 1000mm width, 50mm Depth in 55mm Frame; Hidden Lock Points; Grade 316 Stainless Steel; Electropolished finish; 9mm bar, 9mm slot, and FACTA A Loading

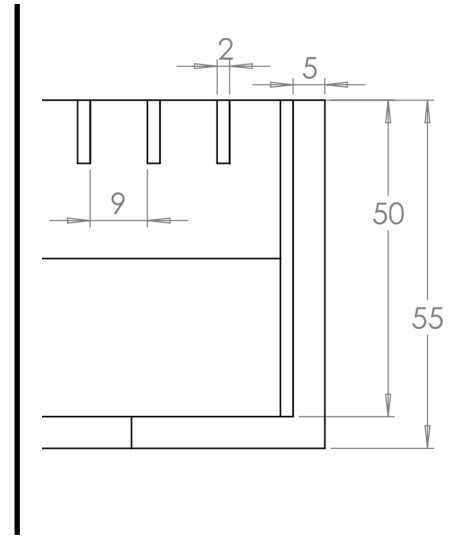
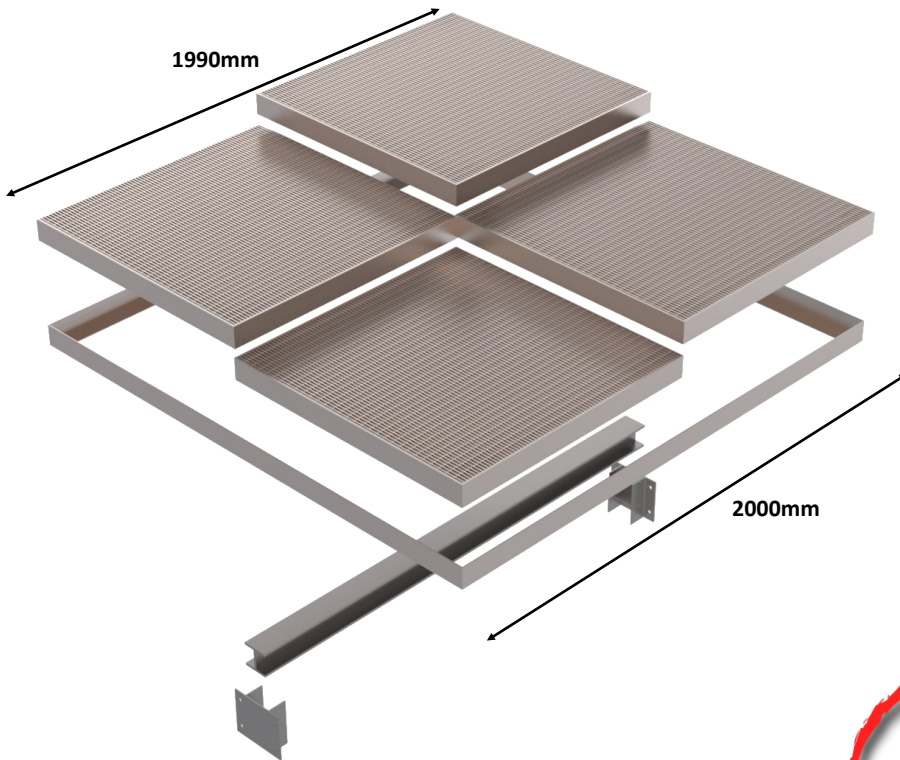
Choose your steel:
Grade 304 Stainless steel
Grade 316 Stainless steel

Choose your loading
FACTA A, FACTA AA, FACTA AAA

Product code	Bar	Gap	Depth	Frame Depth	Max Free Area
KPHMG1000 (2/9)	2	9	50	55	75%
KPHMG1000 (2/6)	2	6	50	55	68%
KPHMG1000 (3/8)	3	8	50	55	66%

Bespoke:

Modify the dims in the model number eg KPHMG1000/500 - or KPHMG606/306 to suit paving & grout pattern



Decide between
2mm bar and 9mm gap or
2mm and 6mm gap -or
state free area desired

Customise your size, or go with our standard
2000mm x 1000mm x 50 mm
(Loading chosen will may dictate a deeper
grating)

Specify:

Kent Pedestrian Heelmesh Grating KPHMG2000; Outside Frame 2000mm length, 1000mm width, 50mm Depth in 55mm Frame; Hidden Lock Points; Grade 316 Stainless Steel; Electropolished finish; 2mm bar, 9mm slot, and FACTA A Loading

Choose your steel:
Grade 304 Stainless steel
Grade 316 Stainless steel

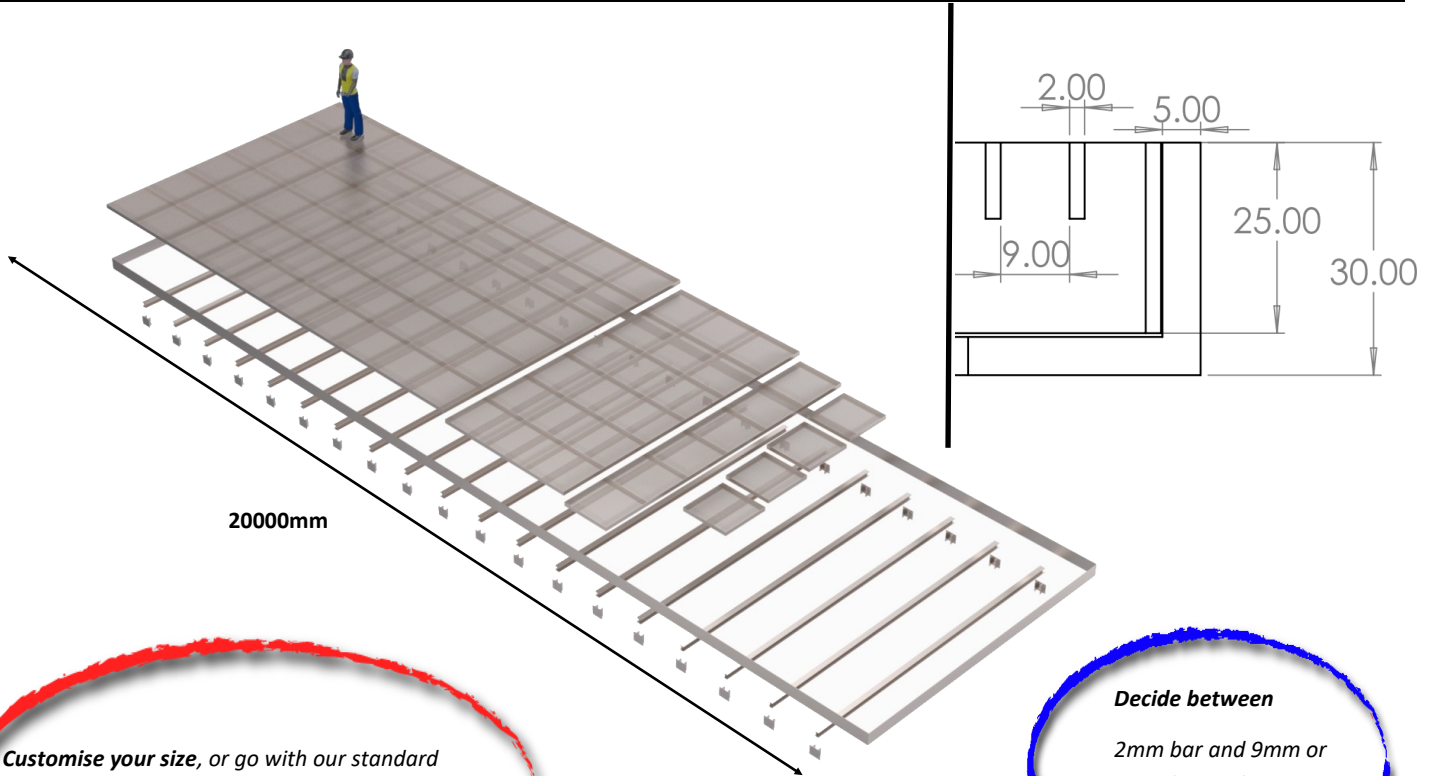
Choose your loading
FACTA A, FACTA AA, FACTA AAA

Product code	Bar	Gap	Depth	Frame Depth	Max Free Area
KDWHMG2000 (2/9)	2	9	50	55	75%
KDWHMG2000 (2/6)	2	6	50	55	68%
KDWHMG2000 (3/8)	3	8	50	55	66%

Bespoke:

Modify the dims in the model number eg KPHMG2000/1500 - or KDWHMG1930/1115 to suit paving & grout pattern

KENT DOUBLE WEDGE HEELMESH GRATING KDWHMG20000/6000



20000mm

Customise your size, or go with our standard 1000mm x 1000mm x 30mm
(Loading chosen will may dictate a deeper grating)

Decide between

2mm bar and 9mm or
2mm bar with 6mm gap -
or state free area desired

Specify:

Kent Pedestrian Heelmesh Grating KPHMG20000/6000; Outside Frame 20,000mm length, 6000mm width, 50mm Depth in 50mm Frame; Hidden Lock Points; Grade 316 Stainless Steel; Electropolished finish; 2mm bar, 9mm slot, and FACTA A Loading

Choose your steel:

Grade 304 Stainless steel
Grade 316 Stainless steel

Choose your loading

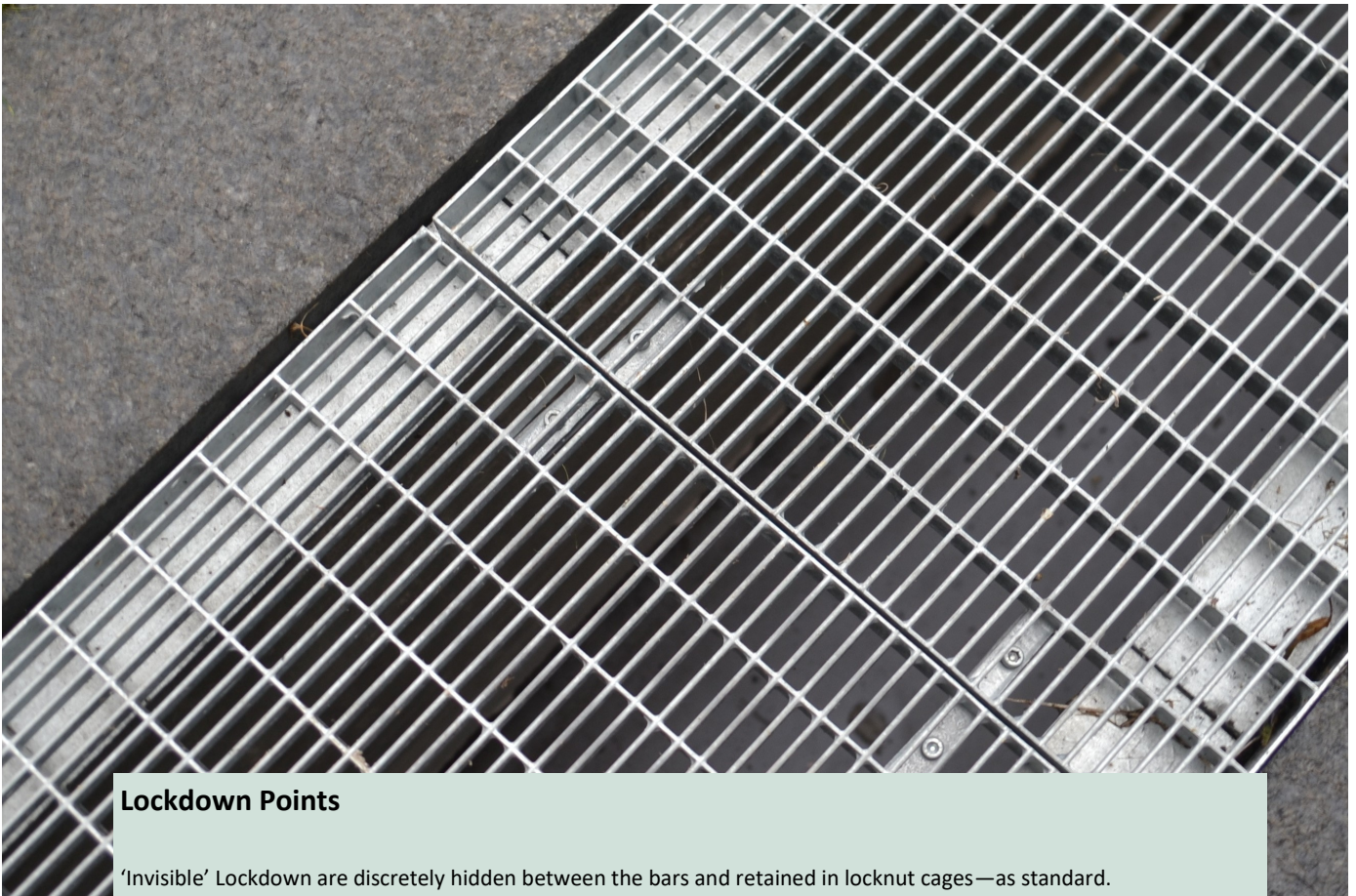
FACTA A, FACTA AA, FACTA AAA

Product code	Bar	Gap	Depth	Frame Depth	Max Free Area
KDWHMG20000/6000 (2/9)	2	9	50	55	75%
KDWHMG20000/6000 (2/6)	2	6	50	55	68%
KDWHMG20000/6000 (3/8)	3	8	50	55	66%

Bespoke:

Modify the dims in the model number eg KPHMG15000/5000 - or KPHMG11725/4325 to suit paving & grout pattern

Lockdown Point



Lockdown Points

'Invisible' Lockdown are discretely hidden between the bars and retained in locknut cages—as standard.

Allen key hex heads can be replaced with secure head fixings for high security installations



Heelproof

9mm openings standard—but changed regularly to 6mm, depending on free area to help increase air flow rate., or suitability for high heels

ADA compliant is 1/2" or 12mm,, Heelproof is 1/4" or 6mm



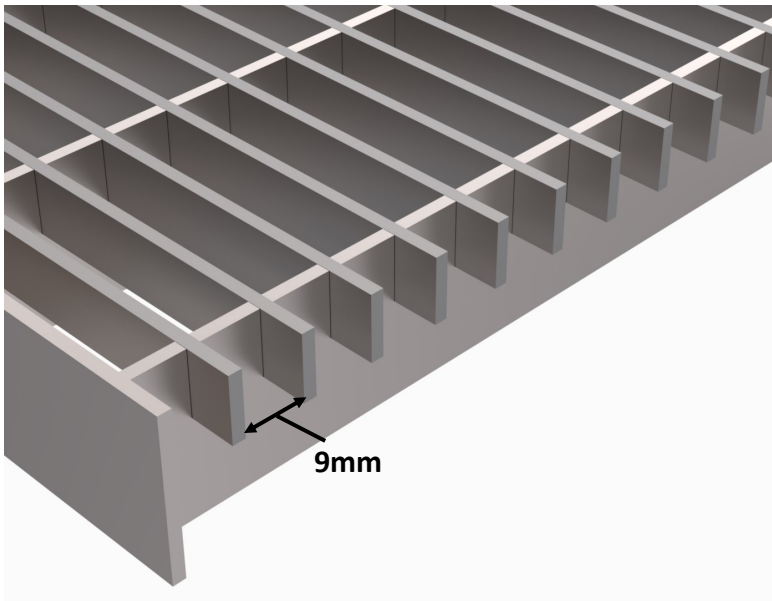
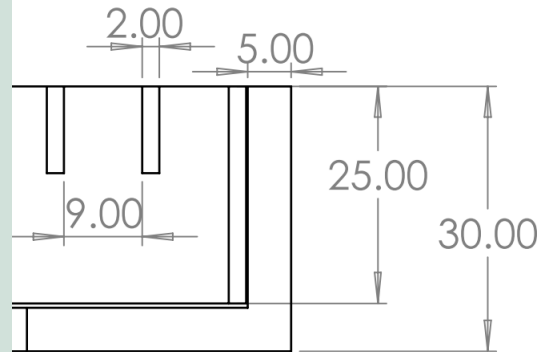
Pedestrian FACTA AAA Loading

FACTA A Loading as standard (0.6T pneumatic wheel load or 5kN)

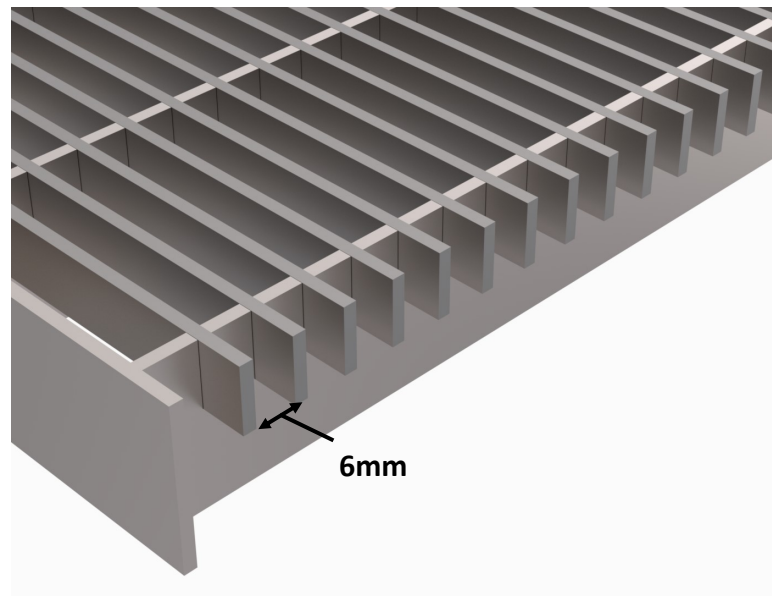
Also available up to FACTA AAA (2.5T pneumatic wheel load or 25kN)

Free Area

Free Area is determined 1st by the thickness of the bars and the gaps between the bars. A 2mm Bar with a 9mm gap will give 81% free area—minus the space taken by the load bearing bars below. These load bearing bars vary in terms of thickness and depth and the number of them. Thickness and the number of them decrease the free area—depth does not. So designers should choose their desired loading and their designed free area and make direct contact with Kent Stainless R&D dept to finalise the exact final design per project.



9mm



6mm

A Load Areas

AAA Load Areas

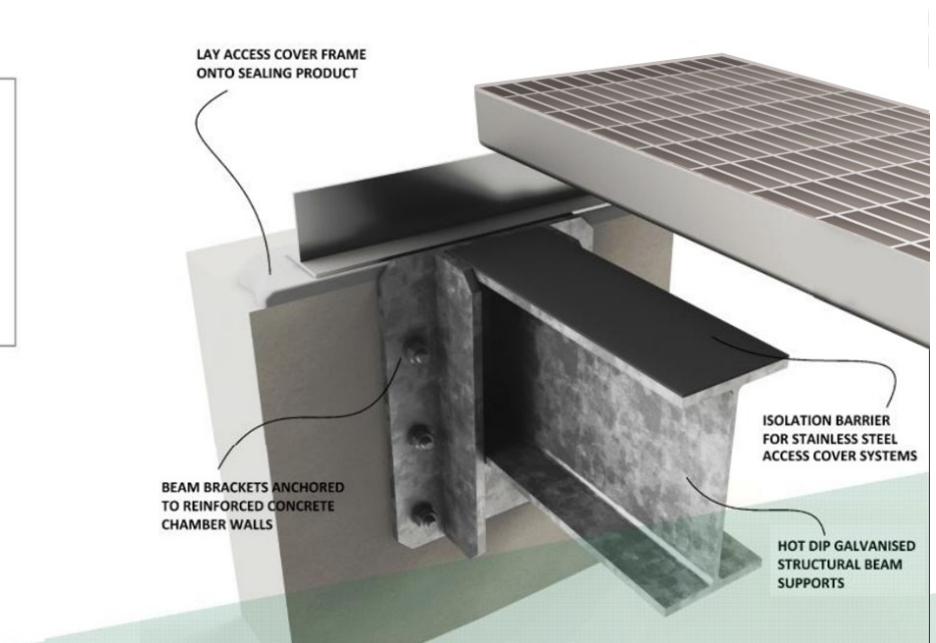
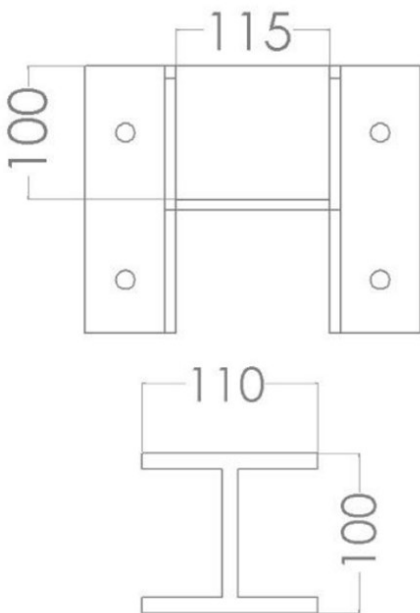


Load Class B125 and FACTA C

Removable Support Beam Size	Max Pit Clear Opening Length (L)	Beam Bracket		Beam Pocket	
		Y	X	Y	X
152 x152 x 37 kg/m UC	2000	400	375	170	250
203 x152 x 52kg/m RSJ	2750	400	375	220	250
305 x 165 x 54 kg/m UB	3900	500	375	320	250

Load Class FACTA D

Removable Support Beam Size	Max Pit Clear Opening Length (L)	Beam Bracket		Beam Pocket	
		Y	X	Y	X
152 x152 x 37kg/m UC	1300	400	375	170	250
203 x152 x 52kg/m RSJ	1750	400	375	220	250
305 x 165 x 54kg/m UB	2300	500	375	320	250
356 x 171 x 67kg/m UB	2850	500	375	370	250
457 x 152 x 82kg/mUB	3450	675	375	470	250
533 x 210 x 122kg/m UB	3900	675	425	550	300



I Beam and Bracket Support Systems

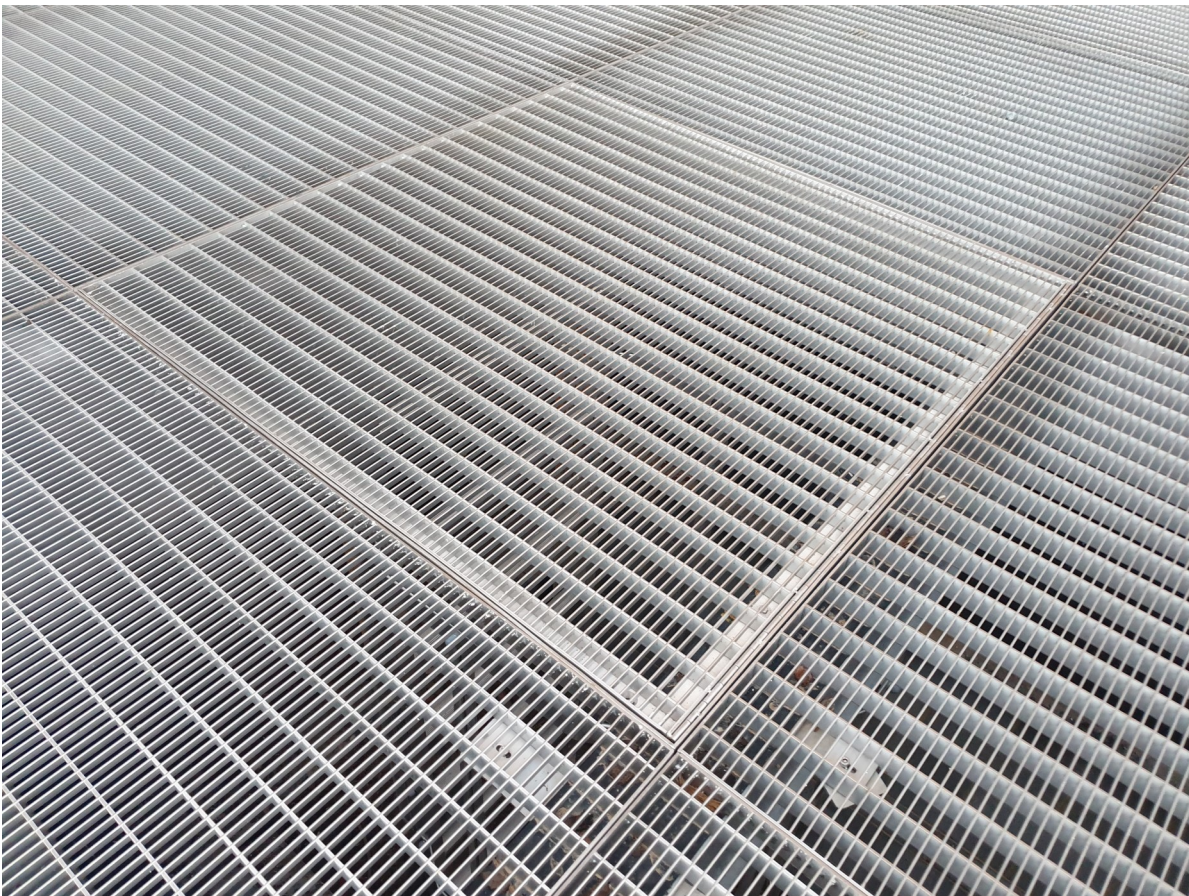
Large Ventilation Grilles are generally manufactured in several panels due to this it is necessary to have a beam System in place below the surface to support individual trays. There are two ways in which we supply these support systems. Our Technical Support team are happy to assist in providing advice in order to make sure the most suitable option is chosen.

Type 1: Vertical Wall Mounted Beam Pockets

These are wall mounted pockets which we supply to the customer which are to be bolted to the retaining wall, underneath the frame. The removable I-Beam then sits into these pockets and supports the loading on the tray or grille above. These pockets are to be bolted into place by the contractor on site.

Type 2: Recessed Beam Pockets

With this option, Recessed pockets are formed in the frame to allow space for the I-Beam to be dropped into place. In this case, both the frame and the I-Beam are supported by the cast concrete of the retaining wall.



Battersea Power Station, London, 2mm Bar / 9mm Gap - FACTA A Loading - Hinged Section

Stainless Steel Maintenance

Clean the stainless steel components using warm water with a mild detergent with a non abrasive cloth or sponge. Heavier stains may require the use of a nylon scouring pad or a stainless steel cleaner. To remove paint or graffiti (or light concrete splashes) use a cloth and alkaline or solvent paint strippers according to type of paint. For Satin Finish Stainless try to follow the direction of the grain when cleaning vigorously or polishing. For Bead Blasted Finish use a circular motion. Rust spots or 'tea stains' can occur on the surface of the material, these are normally caused by contamination from ordinary mild steel, particularly in areas where construction work has been undertaken. Where contamination of the stainless has occurred from ordinary mild steel coming into contact with the stainless, use Rust Remover 410. In cases where the surface is severely stained as a result of severe environmental conditions or scratched due to misuse, it may still be possible to restore the original finish using chemicals such as Oxalic Acid solution. There are many stainless steel polishes available to enhance the surface finish. We recommend Mister Stainless Ltd. as a provider for stainless steel cleaning products



Dublin Airport Terminal 2—2mm Bar / 6mm Gap



Regents Place, London—2mm Bar / 9mm Gap

Kent Stainless (Wexford) Ltd

Ardcavan, Wexford, Ireland

TEL NO: +353 53 9143216

UK FREEPHONE: 0800 376 8377

USA: 781 374 7391

www.kentstainless.com



Kent
STAINLESS