Technical data sheet
Drainage grate with perforation

with round perforation

with square perforation

with rectangular perforation

with narrow slit perforation

with wide slit perforation

Manufacturer

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Product description

Drainage gratings with perforation are box gutter cover gratings with perforations in various shapes.

There is a choice of five different variants for the perforation:

1.   with round perforation

2.   with square perforation

3.   with rectangular perforation

4.   with narrow slit perforation

5.   with wide slit perforation

The grates are available in stainless steel (*V2A*) and hot-dip galvanised steel.

Load class

The drainage grates with perforation are designed in accordance with load class A15 (*walkable*).

Grate dimensions

1.   with round perforation

Stainless steel version

Inlet width	Height	Circle Ø
100 mm	10 mm	8.5 mm
	20 mm	8.5 mm
140 mm	10 mm	8.5 mm
	20 mm	8.5 mm
160 mm	20 mm	8.5 mm
200 mm	20 mm	8.5 mm
250 mm	20 mm	8.5 mm

Execution in hot-dip galvanised steel

Inlet width	Height	Circle Ø
100 mm	10 mm	8.5 mm
140 mm	10 mm	8.5 mm
160 mm	20 mm	8.5 mm
200 mm	20 mm	8.5 mm
250 mm	20 mm	8.5 mm

2.   with square perforation 8 x 8 mm

Stainless steel version

Inlet width	Height	Square
100 mm	10 mm	8 x 8 mm
	20 mm	8 x 8 mm
140 mm	10 mm	8 x 8 mm
	20 mm	8 x 8 mm
160 mm	20 mm	8 x 8 mm
200 mm	20 mm	8 x 8 mm
250 mm	20 mm	8 x 8 mm

Execution in hot-dip galvanised steel

Inlet width	Height	Square
100 mm	10 mm	8 x 8 mm
140 mm	10 mm	8 x 8 mm
160 mm	20 mm	8 x 8 mm
200 mm	20 mm	8 x 8 mm
250 mm	20 mm	8 x 8 mm

3. with rectangular perforation 30 x 5 mm

Stainless steel version

Inlet width	Height	Rectangle
100 mm	10 mm	30 x 5 mm
	20 mm	30 x 5 mm
140 mm	10 mm	30 x 5 mm
	20 mm	30 x 5 mm
160 mm	20 mm	30 x 5 mm
200 mm	20 mm	30 x 5 mm
250 mm	20 mm	30 x 5 mm

Execution in hot-dip galvanised steel

Inlet width	Height	Rectangle
100 mm	10 mm	30 x 5 mm
140 mm	10 mm	30 x 5 mm
160 mm	20 mm	30 x 5 mm
200 mm	20 mm	30 x 5 mm
250 mm	20 mm	30 x 5 mm

4. with narrow slit perforation 30 x 5 mm

Stainless steel version

Inlet width	Height	Slot
100 mm	10 mm	30 x 5 mm
	20 mm	30 x 5 mm
140 mm	10 mm	30 x 5 mm
	20 mm	30 x 5 mm
160 mm	20 mm	30 x 5 mm
200 mm	20 mm	30 x 5 mm
250 mm	20 mm	30 x 5 mm

Execution in hot-dip galvanised steel

Inlet width	Height	Slot
100 mm	10 mm	30 x 5 mm
140 mm	10 mm	30 x 5 mm
160 mm	20 mm	30 x 5 mm
200 mm	20 mm	30 x 5 mm
250 mm	20 mm	30 x 5 mm

5. with wide slit perforation 30 x 10 mm

Stainless steel version

Inlet width	Height	Slot
100 mm	10 mm	30 x 10 mm
	20 mm	30 x 10 mm
140 mm	10 mm	30 x 10 mm
	20 mm	30 x 10 mm
160 mm	20 mm	30 x 10 mm
200 mm	20 mm	30 x 10 mm
250 mm	20 mm	30 x 10 mm

Execution in hot-dip galvanised steel

Inlet width	Height	Slot
100 mm	10 mm	30 x 10 mm
140 mm	10 mm	30 x 10 mm
160 mm	20 mm	30 x 10 mm
200 mm	20 mm	30 x 10 mm
250 mm	20 mm	30 x 10 mm

Inlet cross-sections of the grates

1.   with round perforation Ø 8.5 mm

Inlet width 100 mm: 142 cm²/m

Inlet width 140 mm: 199 cm²/m

Inlet width 160 mm: 236 cm²/m

Inlet width 200 mm: 312 cm²/m

Inlet width 250 mm: 369 cm²/m

2.   with square perforation 8 x 8 mm

Inlet width 100 mm: 160 cm²/m

Inlet width 140 mm: 224 cm²/m

Inlet width 160 mm: 266 cm²/m

Inlet width 200 mm: 352 cm²/m

Inlet width 250 mm: 416 cm²/m

3.   with rectangular perforation 30 x 5 mm

Inlet width 100 mm: 180 cm²/m

Inlet width 140 mm: 252 cm²/m

Inlet width 160 mm: 325 cm²/m

Inlet width 200 mm: 413 cm²/m

Inlet width 250 mm: 525 cm²/m

4.   with narrow slit perforation 30 x 5 mm

Inlet width 100 mm: 174 cm²/m

Inlet width 140 mm: 243 cm²/m

Inlet width 160 mm: 281 cm²/m

Inlet width 200 mm: 398 cm²/m

Inlet width 250 mm: 506 cm²/m

5.   with wide slit perforation 30 x 10 mm

Inlet width 100 mm: 334 cm²/m

Inlet width 140 mm: 401 cm²/m

Inlet width 160 mm: 465 cm²/m

Inlet width 200 mm: 730 cm²/m

Inlet width 250 mm: 974 cm²/m

The standard grating length is 1,000 mm in each case.

Slip resistance

The slip resistance of the grates corresponds to slip rating class R10.

Clear mesh size

The requirements of the German Social Accident Insurance (DGVU-Information 208-007 Gratings - Selection and Operation) are met. The clear mesh width must not exceed 10 mm to ensure safe access.

Materials used

We use only European material from Germany, Sweden, France and Italy for our grates.

Material specification

Stainless steel V2A (*1.4301*) and hot-dip galvanised steel.

The material thickness is 1.5 mm in each case

Accessories

- corners, factory prepared

- grate locks made of stainless steel and hot-dip galvanised steel

Processing and care instructions

The grates can be cut to size. However, it must be ensured that the cutting medium (e.*g. saw blade, cutting disc, etc.*) is absolutely clean or does not contain any components of other metals, as otherwise corrosion may occur. All interfaces (hot-dip galvanised steel) must be cold-galvanised. In general, we recommend custom-made products ex works, as these are properly galvanised afterwards.

Dust particles of other metals or general cutting of components with flying sparks on the product are generally to be avoided. If dust particles or soiling of other metals are present, these must be removed immediately with appropriate cleaning agents.

The grates must not be cleaned with strong acids or bases, but by hand with a broom or, if necessary, with a high-pressure cleaner.

Further installation & usage instructions as well as information on the material can be found at: https://www.richard-brink.de/downloads/gesamtuebersicht.html