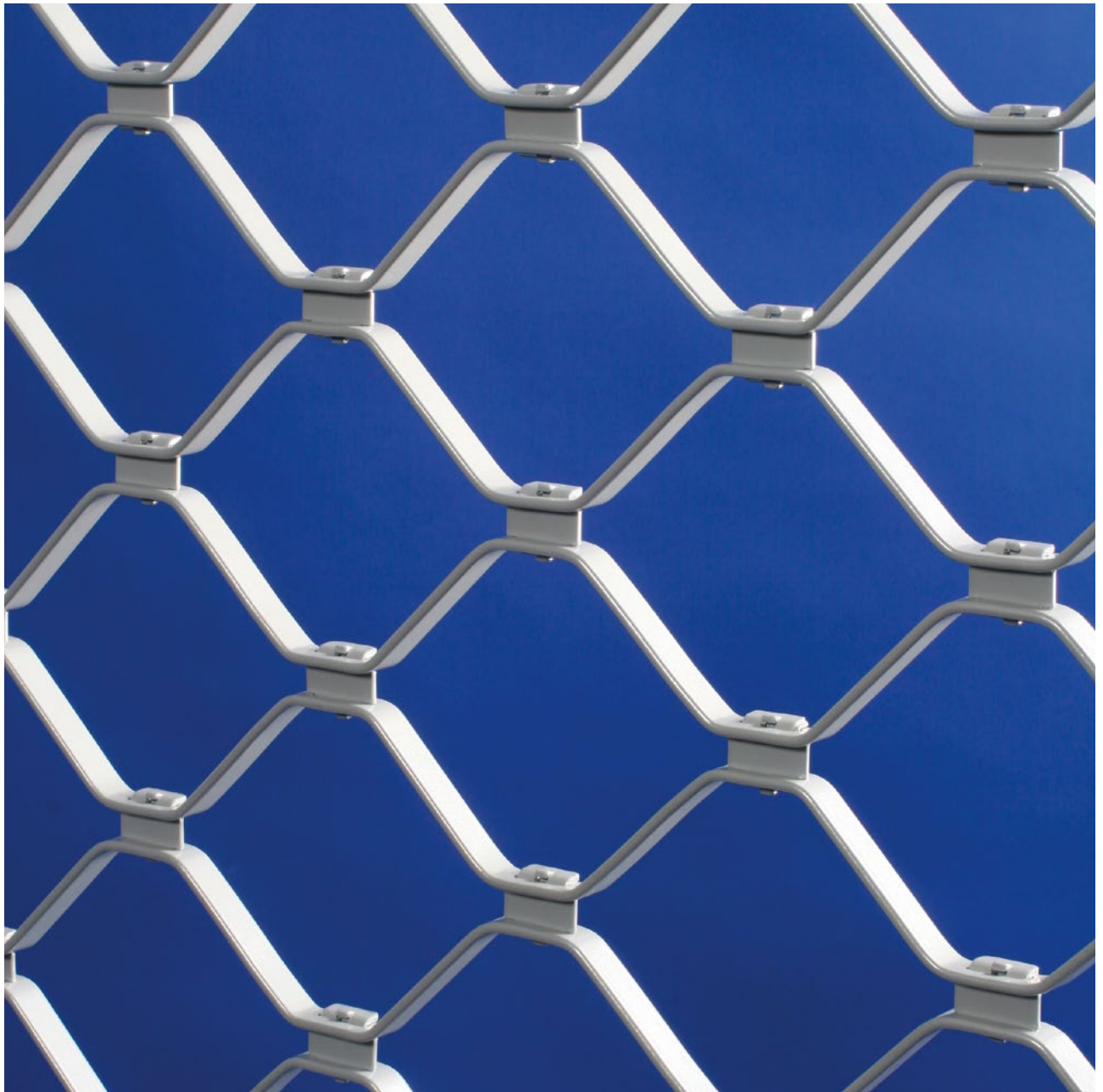


# Rolling grilles HONEYCOMB DESIGN

From curtains to complete gate systems







**Rolling grilles**  
**Folding grilles**  
**Spring shafts**  
**Rolling shutters**

For special design:



Always up to date  
as a member of  
BVT

# Rolling grilles HONEYCOMB DESIGN

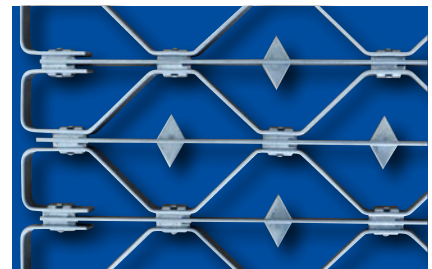
-  **Steel** | galvanised or galvanized + powder-coated
-  **Stainless steel** | natural, polished or powder-coated
-  **Aluminium** | anodised, powder-coated
-  **Aluminium reinforced** | natural, with stainless steel joints or powder-coated



straight honeycomb 185

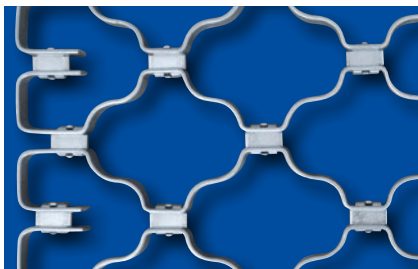


straight honeycomb 185  
with cross bars

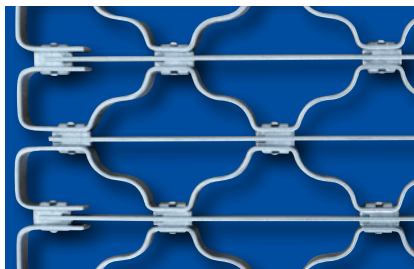


straight honeycomb 185  
with cross bars and spikes\*

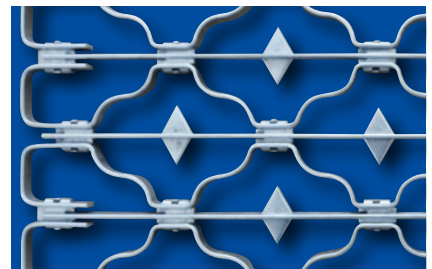
\* except for aluminium design



bent honeycomb 160

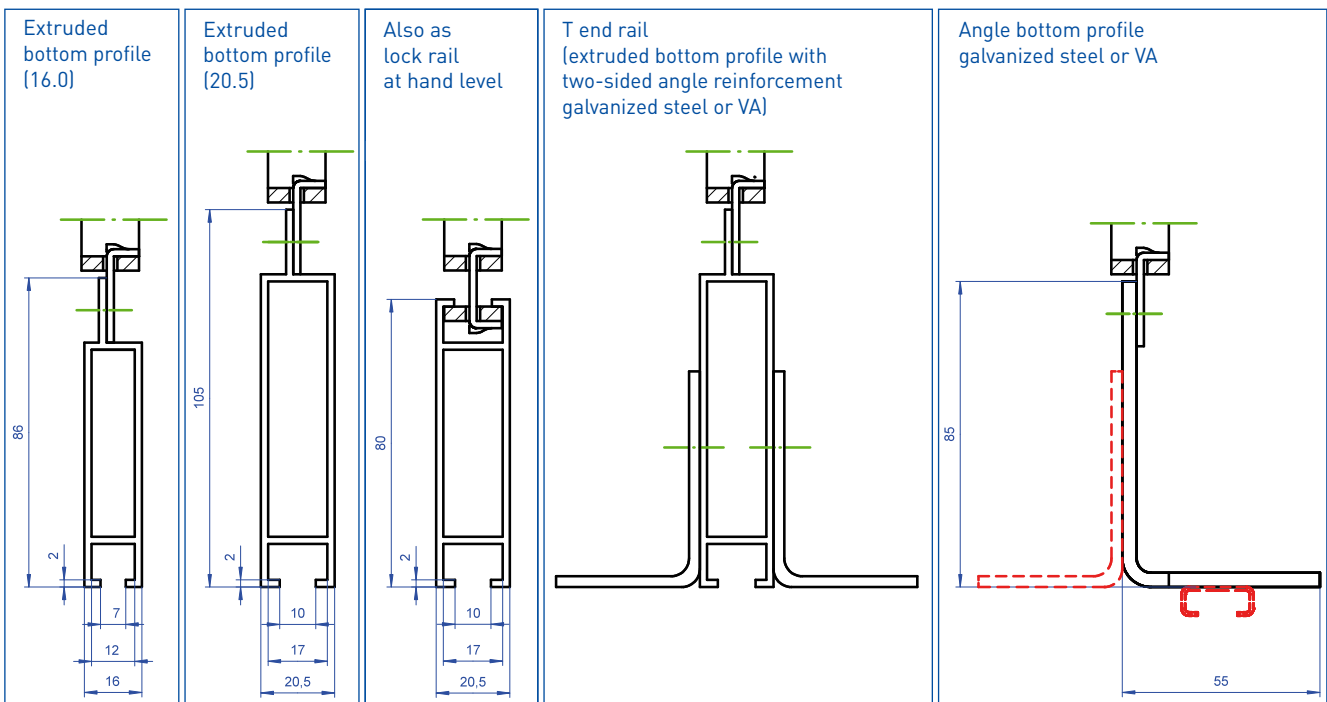


bent honeycomb 160  
with cross bars



bent honeycomb 160 with cross  
bars and spikes\*

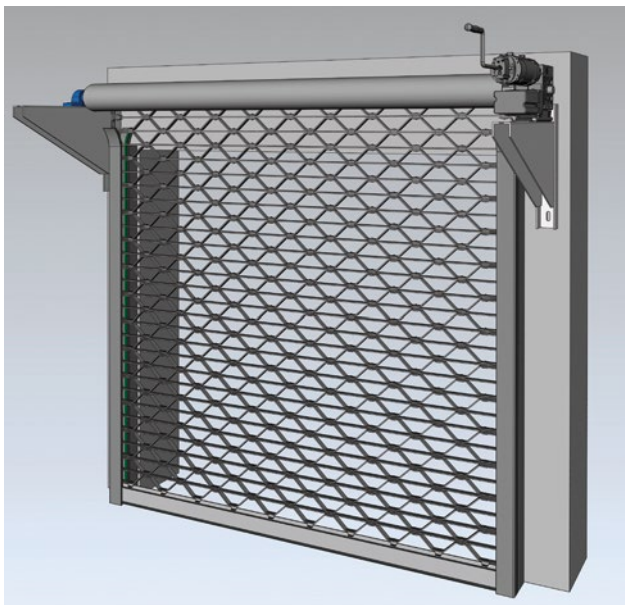
\* except for aluminium design





### General information

**OCO rolling grills have offered tried-and-tested protection against burglary and vandalism for decades. Thanks to their honeycomb structure and the flat steel used, they offer high security and transparency.**



**OCO security rolling grills in steel or stainless steel offer the perfect solution for mechanical security. Not only do they give their owners a feeling of security: they also scare away potential intruders due to the increased effort and therefore risk.**

- ▶ With over 99% of the security rolling grills purchased from us, not even damage has resulted from attempted break-ins (at least at the location protected by the rolling grill).
- ▶ For increased security requirements, we also offer a special design with RC3 certification.

- ▶ consisting of sturdy flat material in a honeycomb structure with shift-proof joints, hinge-like interconnection (honeycomb dimensions approx. 185 x 120 mm)
- ▶ U-shaped bent panel ends with additional joint
- ▶ number of joints: approx. 90 pc/sqm
- ▶ panels approx. 15 pc/m gate height
- ▶ very high transparency (ventilation cross-section approx. 85%)
- ▶ includes anti-lift device (rope protection)
- ▶ available with pull-out protection

### RC3 rolling grills acc. to DIN EN 1627

- ▶ Up to the maximum finished dimensions of 4,750 x 4,875 mm, our rolling grills are tested as a special design in RC3 (resistance class 3 acc. to the new EU standard).
- ▶ For larger dimensions, we can produce the rolling grills with an identical construction.

### Some details about the RC3 design:

- ▶ Curtain with straight honeycomb with cross bars (standard) with dimensions 18 x 4 mm Galvanized steel
- ▶ Electromagnetic locking
- ▶ Tested bottom profile and guide rails



Standard design  
according to  
current standard  
**(DIN EN)**

## Drive types

### Electric drive

▶ **230 volts - Drive - Tubular drive**

For households or shops and shop windows. Few gate movements per day. Little side space required



▶ **400 volts – External Drive or chain drive**

For commercial buildings or for larger rolling grills with many gate movements per day with reversing contractors and emergency manual control.

Manufacturers: GfA and MFZ



### Control systems

- ▶ Dead man's control
- ▶ Pulse control (including all security equipment)

### Spring shaft – Manual operation

- ▶ For light rolling grills with curtain weight under 100 kg with OCO spring housings (see also OCO spring shaft brochure).
- ▶ To protect against unauthorised opening, the rolling grill is equipped with a double-bit lock at hand level or a profile cylinder lock in the bottom profile. Used wherever an electrical connection is a problem or little side space is required.



### Note

- ▶ Rolling grills are available with a width up to 24.0 m\*\*.
- ▶ Powder-coating up to 9,000 mm\*\*, anodising up to 7,100 mm\*\*
- ▶ Technical drawing for every gate system
- ▶ Custom-designed according to the installation situation

\*\* Larger dimensions available on request..

## Technical data:

				Material of lattice and guide can be combined freely	
				Steel guides	with edge protection
<b>Minimum winding diameter 100 mm</b>					
Design	Dimensions mm	Weight kg/sqm	Recom. width		
<b>Steel</b> hot-dip galvanized  powder-coated up to 9,000 mm Larger available on request	16 x 4	14	5	50/30/50/3 70/30/70/3	50/35/50/3 80/35/80/3
	18 x 4	15	7	50/30/50/3 70/30/70/3	50/35/50/3 80/35/80/3
	20 x 4	16	9	50/35/50/3 80/35/80/3 100/35/100/3	50/35/50/3 80/35/80/3 100/35/100/3
	23 x 4	19	24	80/35/80/3 100/35/100/3 120/35/120/3 140/35/140/3	or special design
	Additional weight for cross bars = 8 kg/sqm				
<b>Aluminium</b> natural reinforced* (VA joints) anodised up to 7,100 mm powder-coated up to 9,000 mm Larger available on request	16 x 4	5,5	4	Aluminium	
	18 x 4	6	6	50/51/50/3,5 60/51/60/3,5	Plastic sliding guide/ sliding strip or special design
	20 x 4	6,5	8	70/51/70/3,5	
	23 x 4	9	24	80/51/80/3,5	
	Additional weight for reinforced = 1.5 kg/sqm			100/51/100/3,5	
Additional weight for cross bars = 2.5 kg/sqm					
<b>Stainless steel</b> V2A, W. No. 4301 V4A, W, No 4571, 4401 Surface 2B (IIIC)	16 x 4	14	5	Stainless steel	
	18 x 4	15	8	50/30/50/3 70/30/70/3	50/35/50/3 80/35/80/3
	20 x 4	16	10	80/34/80/3	80/34/80/3
	23 x 4	19	24	80/34/80/3	80/34/80/3
	Additional weight for cross bars = 8 kg/sqm				

\*No anodising possible for aluminium reinforced.

## Guidelines for bale diameter

Clear height + approx. 600 mm = approx. finished curtain height

Spring housing approx. equivalent to tube shaft diameter				No. 4 = 187 mm	No. 6 = 210 mm	No. 8 = 250 mm	
Tube Ø	108	133	159	171	194	219	267
Material-width	Bale diameter						
	16	16	18	16	18	20	23
1,50	230	245	255	255	260	270	290
1,75	250	255	265	260	270	285	305
2,00	260	265	270	270	280	295	315
2,25	265	275	280	280	290	305	325
2,50	280	280	295	290	300	320	340
2,75	290	290	300	300	310	335	360
3,00	300	300	310	310	320	345	370
3,25	310	315	325	320	335	350	380
3,50	320	320	335	330	345	360	390
3,75	325	325	340	340	355	375	410
4,00	335	335	350	350	365	385	420
4,50	350	350	365	370	385	405	440
5,00	370	370	385	390	405	430	460



**OCO Oesterheld GmbH**

**Rolling grilles  
Folding grilles  
Spring shafts  
Rolling shutters**

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Your specialist