

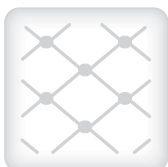
ROLLING GRILLES

Keroll

Steel galvanised
powder coated

Aluminium blank
anodised
powder coated

Stainless steel
V2A
V4A



Keroll rolling grilles made from flat material in a honeycomb pattern are the ideal, proven classic solution for meeting the highest requirements of security, frequent use and durability. Due to their solid construction, the rolling grilles are not only durable but offer outstanding burglar protection, providing security for shop windows, shop entrances as well as private windows and doors. Manually operated using a spring shaft, with a space-saving tubular motor or high performance shaft-mounted drive, each rolling grille system is individually designed in accordance with customer requirements and the specific installation circumstances. The resilient and stable grill curtains, high quality drives and reliable controls are the best all-round package for the reliable operation of rolling grille systems. Whether it is for an underground garage, shop window, door or arcade – **Keroll** can provide the right rolling grille.

Also available in a special design tested under resistance RC3 (WK3) DIN EN 1627-1630:2011

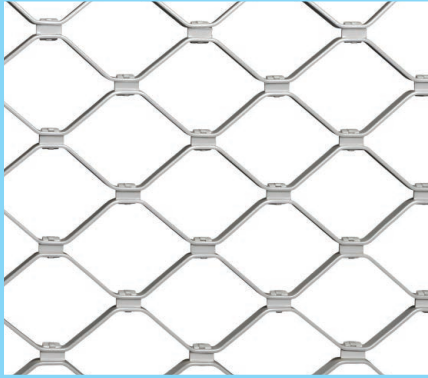


Rolling grille curtains in honeycomb pattern

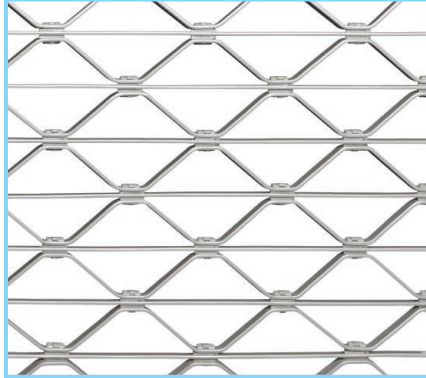
We supply single roller grille curtains for customer specific assembly of complete systems or as a replacement for existing gates. All rolling grilles are equipped with an upper suspension bar, hanger for mounting on the shaft and a bottom bar (see below).

Straight honeycomb

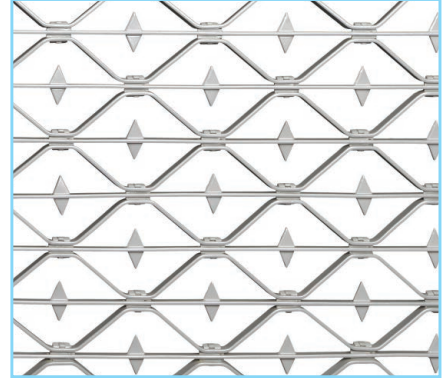
Honeycomb measurements 185 x 120 mm



with crossbar

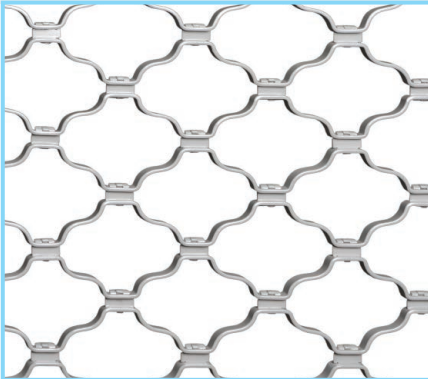


with crossbar and top steel + stainless steel only

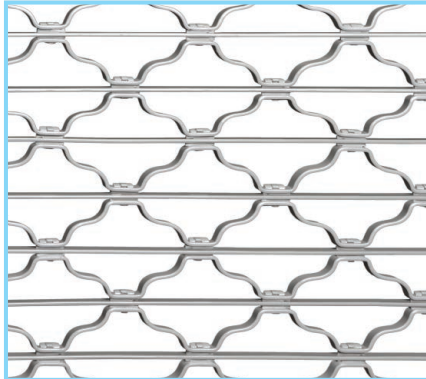


Curved honeycomb

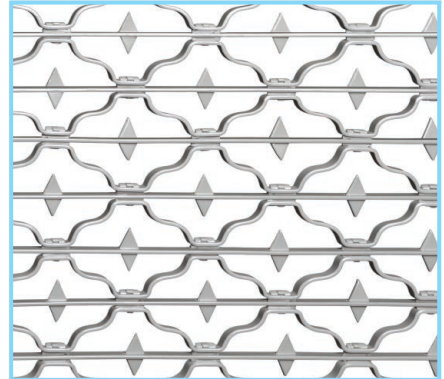
Honeycomb measurements 160 x 120 mm



with crossbar

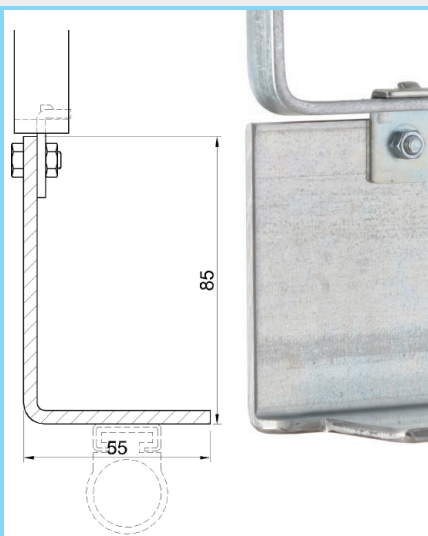


with crossbar and top steel + stainless steel only

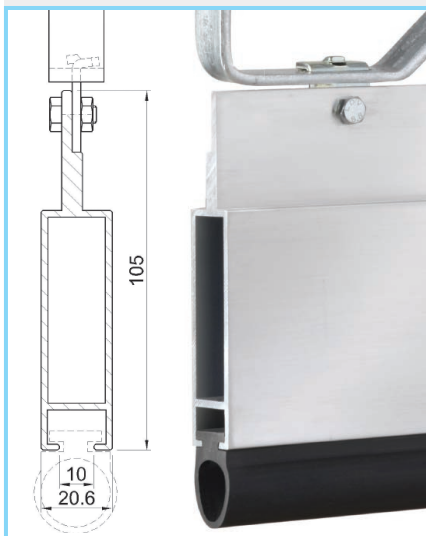


Bottom bars

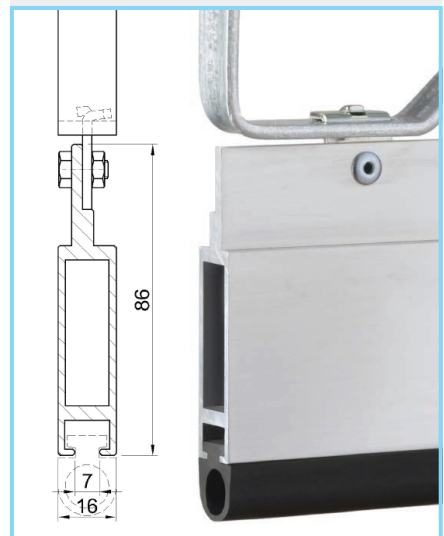
Steel angle bottom bar, side notch corresponds to guide rail depth.



Large aluminium end rail, extruded.



Small aluminium end rail, extruded.



Special bottom bars (e.g. T-model) on request and for very wide grilles.

Technical information rolling grilles curtain

Weights, production widths and deliverable guide rails

Design	Material dimensions (mm)	Weight (kg / m ²)	Width to approx. maximum (m)	Guide rails (mm)
Steel hot-galvanised or powder-coated	16 x 4	14	5	50/30/50/3
	18 x 4	15	7	70/30/70/3
	20 x 4	16	9	50/33/50/3 80/35/80/3 100/35/100/3
	23 x 4	19	22	80/35/80/3 100/35/100/3 140/35/140/3
	Additional weight for crossbar = 8 kg/m ²			
Aluminium mill-finished, anodised or powder-coated	16 x 4	5,5	4	50/38/50/3
	18 x 4	6	5,5	70/38/70/3
	20 x 4	6,5	7,5	70/38/70/3
	23 x 4	9	20	100/53/100/3
	Additional weight for crossbar = 2,5 kg/m ²			
Stainless steel surface 2B (III c) V2A - W. Nr. 1.4301 V4A - W. Nr. 1.4571/1.4401 or polished	16 x 4	14	5	50/30/50/3
	18 x 4	15	7,5	70/30/70/3
	20 x 4	16	10	80/34/80/3
	23 x 4	19	22	80/34/80/3
	Additional weight for crossbar = 8 kg/m ²			

Additional guide rails can be delivered on request.

Rolled-up shutter diameter guide values

in mm for rolling grilles 16 x 4 | 18 x 4 | 20 x 4 | 23 x 4

Axle tube Ø (mm)	108	133	159				169			194				219				267			
Material dimensions	corresponds to spring housing No.:																				
	16	16	18	16	18	20	23	18	20	23	16	18	20	23	16	18	20	23	18	20	23
1,50	230	245	255	255	260	270	290	260	275	295	260	265	280	300	280	285	290	310	325	335	370
1,75	250	255	265	260	270	285	305	275	280	305	280	285	290	310	290	295	300	320	345	350	385
2,00	260	265	270	270	280	295	315	280	295	315	285	290	305	325	295	300	315	335	350	355	395
2,25	265	275	280	280	290	305	325	290	310	325	295	300	320	340	305	310	325	350	355	365	410
2,50	280	280	295	290	300	320	340	320	320	340	305	310	330	350	330	335	340	360	360	375	430
2,75	290	290	300	300	310	335	360	325	335	360	315	320	340	370	335	340	350	370	370	385	440
3,00	300	300	310	310	320	345	370	330	350	375	335	340	355	385	340	345	355	385	375	395	455
3,25	310	315	325	320	335	350	380	335	360	390	340	345	365	405	345	350	370	405	385	405	465
3,50	320	320	335	330	345	360	390	340	370	400	345	350	375	425	355	360	380	430	390	415	480
3,75	325	325	340	340	355	375	410	350	380	420	350	355	385	440	360	365	385	440	395	430	480
4,00	335	335	350	350	365	385	420	365	390	435	365	370	395	450	370	370	395	450	415	440	500
4,50	350	350	365	370	385	405	440	385	410	460	390	400	415	470	405	410	420	475	440	470	485
5,00	370	370	385	390	405	430	460	405	430	485	420	430	435	495	425	430	445	510	470	505	525

Rolling grilles systems

Standard design

Rolling grilles made from flat material in a honeycomb pattern (honeycomb measurements 185 x 120 mm). Bars are connected to each other using special, reinforced joints.

Rolling grilles designed for frequent use. Corresponding to gate width flat material of dimensions 16/18/20/23 x 4 mm, ventilation cross-section approx. 78 %.

Bottom bar optionally as extruded aluminium profile or steel angle 85/55 mm.

Constructed from galvanised steel, bright aluminium or stainless steel.

Various surface treatments such as powder coating, anodisation at additional cost. May be combined with closed roller shutter profiles. Suitable guide rails made from steel, aluminium and stainless steel. Depth corresponds to at least 1% of gate width.

Winding shaft made from steel, sized according to gate width and curtain weight, supported on side brackets.

Necessary subconstruction according to the installation situation. We supply roller grilles in a ready-to-install box system.



All rolling grille systems from Keroll comply with the valid standards and are supplied with comprehensive documentation and an individual production drawing.

Special design RC3

For increased burglar proof: Rolling grille tested under resistance class RC3 (WK3) in compliance with DIN EN 1627-1630:2011.

Galvanised steel design from 18 x 4 mm material thickness, straight honeycomb with crossbar, electromechanical locking, with tubular motor or shaft-mounted drive, exclusively in dead man's mode. Additional options for increasing security such as tear-off protection, broader material dimensions or stainless steel design can also be delivered.

Maximal size 4750 x 4750 mm (B x H) clear opening. Bigger grilles can be built according to RC3 design. Assembly only possible as inside roller.



Drive types

Depending on the intended use complete rolling grille systems are fitted with the following drives:

Spring shaft

for manual operated grilles without electrical connection. Provided with **Keroll** spring shafts (see spring shaft leaflet).

Shaft mounted (400 V)

for large doors, frequent use, e.g. underground garages or industrial doors.

Tubular motor (230 V)

for small rolling grille systems with infrequent load changes during each day, e.g. shop entrances, shop windows, private areas.

Control

Dead man's control

for operation by continuous pressure in visual range of gate.

Automatic operation

for operation in pulse or time controlled mode: Control package including all necessary safety installations, such as roll-up safety device, presence recognition and safety edge and also separating guards for barrel and drive chain.

Please visit our homepage keroll.de for further information.

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