ARCHITECTURAL GRATINGS

ALWAYS AN EFFECTIVE SOLUTION

STACO

GRATING TECHNOLOGY

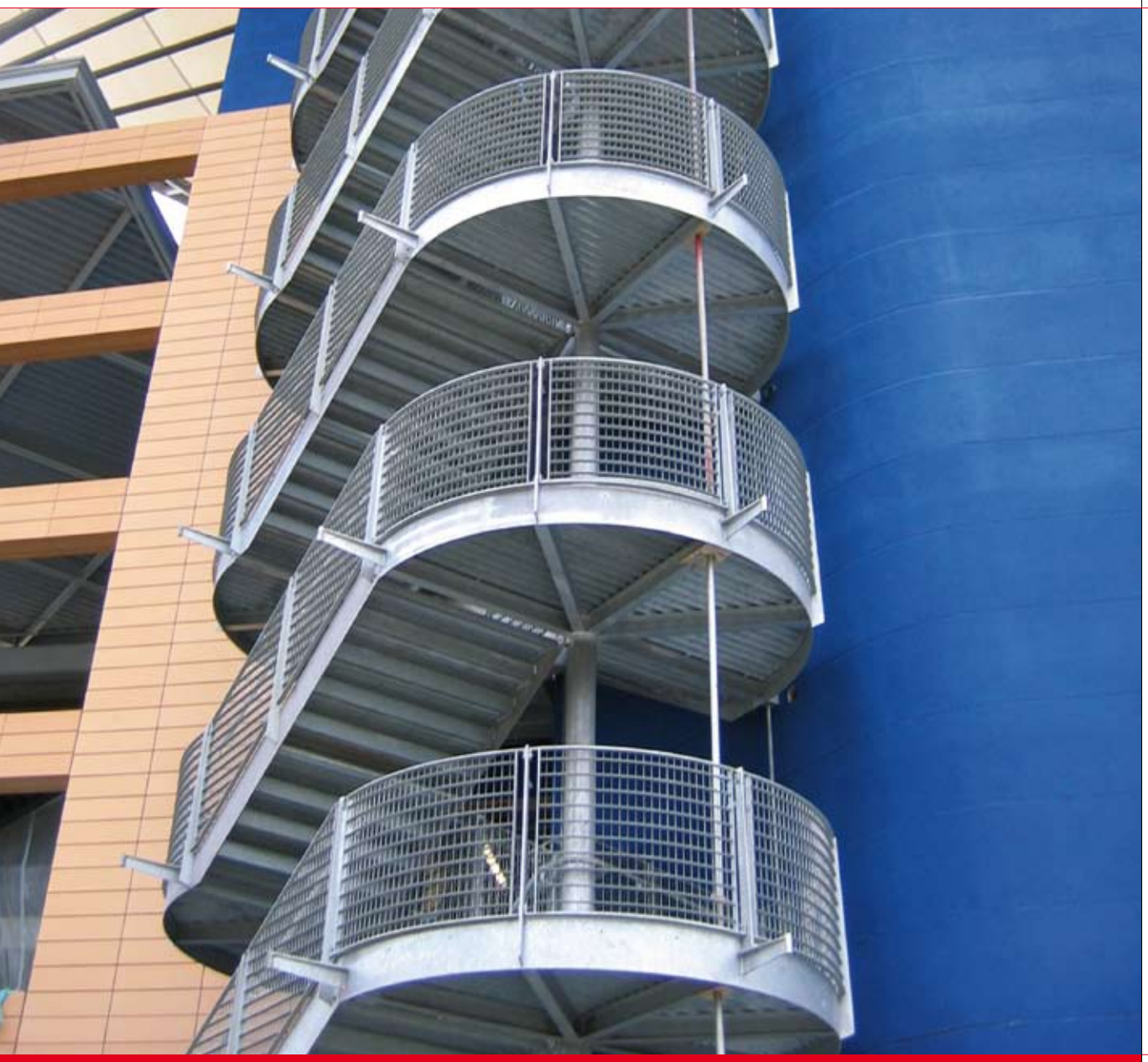
PERFECT IN FORM

Staco. Staco's manufacturing plants provide a complete range of high-quality gratings and treads. In steel, aluminium and stainless steel. Staco provides a solution for every application, from flooring and railings to cladding material. To ensure its products last as long as possible, Staco has its own galvanizing and powder-coating companies.

Staco is synonymous with an attractive price/quality ratio, innovative technology and outstanding service. Its vast range of products is ubiquitous in the non-residential sector, at garages and coachbuilders, in offshore companies, in shipbuilding, in civil engineering and in many other industries. Our gratings, steps and associated products also provide a genuine contribution to the visible architecture of countless buildings.

Nearly all our standard products can be supplied directly from stock. Although Staco's sites all use high-tech machinery, we also consider manual skill to be essential when it comes to manufacturing special custom products and constructional gratings under tight deadlines. Our experts are eager to help you find a suitable solution, giving advice on subjects like material strength, complex grating and flooring layouts and the creation of technical designs. In a nutshell, Staco is a dependable and client-focused partner.

THE POWER OF THE GROUP



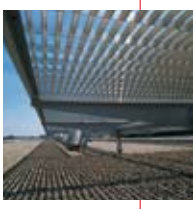
A POWERFUL NETWORK

Staco is part
of ROTO
www.rotogroep.nl

Staco is a ROTO company, a powerful network of companies specializing in expanded metal, steel and steel processing, grating technology and/or surface treatment. ROTO also represents a personal approach. At Staco, this means that the client's requirements are key.

Staco has sites in: the Netherlands, Belgium, Luxembourg, Germany, Switzerland, Poland, France and the United Kingdom.

Architectural gratings



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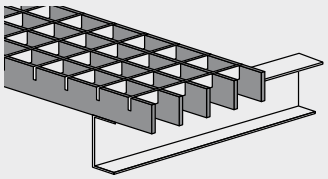
Staco provides a solution for every application; many of these solutions are included in this brochure. Our website not only provides a great deal of additional information, but also includes current stock and interactive modules for strength and permeability analyses. The website also allows you to request or download our other brochures; Floor Gratings and Treads, Pressed Gratings and Treads, and Forge-Welded Gratings. For more information, go to **www.staco.pl**

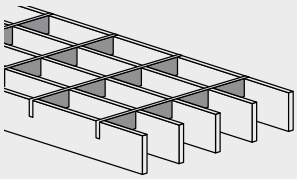
GRATINGS AND TREADS GLOSSARY

Bearing bar



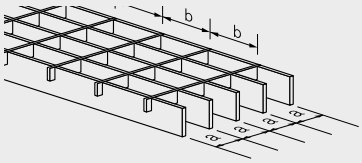
The bars that are required to take the load and should be supported at both ends. This is the first and/or underlined size.

Crossbar



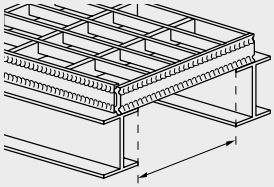
The crossbars are made of flat material. These are the bars that join the bearing bars.

Mesh size



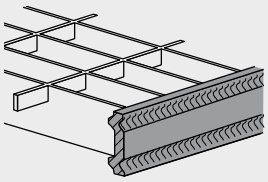
The c.t.c. mesh size is the distance between the bearing bars, followed by the distance between the crossbars.

Span



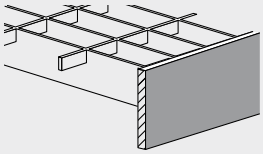
This is the clear width between the two supports. A grating can cover multiple supports.

Edges



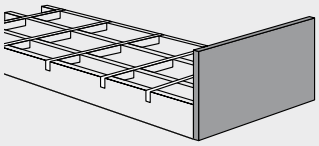
Edging is applied to the grating at the ends of the bearing bars and crossbars (i.e. right round).

Flush edge



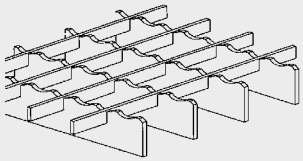
A strip welded to the grating. This strip projects below the grating.

Kicker plate



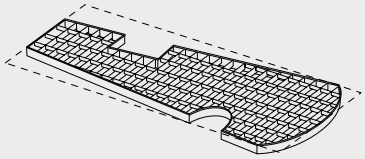
A strip welded to the grating. This strip projects above the grating.

Anti-slip



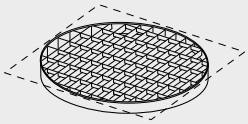
The anti-slip property is accentuated by using serrations. Both bearing bars and crossbars can be given serrated edges.

Recesses



The general term for all holes and cut-outs in the grating.

Gross grating surface area

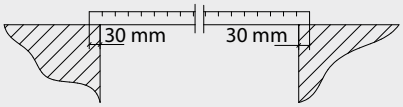


The total grating surface area before it is cut to size and any recesses are created. (see dotted line)

Net grating surface area

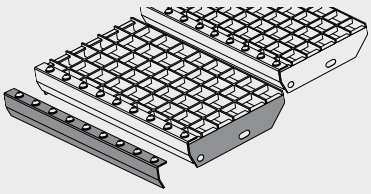
The net surface area remaining after cutting the grating to size, including recesses.

Minimum bearing bar overlap



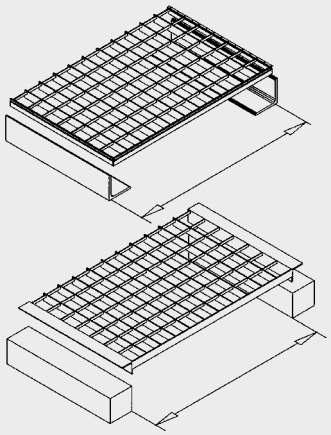
The minimum overlap of the grating is 30 mm on 2 sides of the sub-structure.

Toe edge nosing + Side plates



An anti-slip toe edge nosing has been fitted to the front of the steps. This creates a clear visual distinction between the separate steps, and also increases load capacity. The steps are fitted with welded side plates for mounting to the stair stringers, which are predrilled with the required mounting holes.

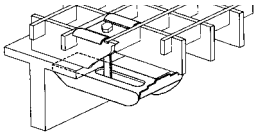
Hole size / Clear width



The net internal dimensions, between the mounting profiles, or the net recess dimensions. The grating size must be 4-8 mm smaller than the hole size.

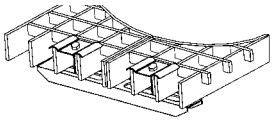
FASTENERS FOR GRATINGS AND TREADS

Fastening set



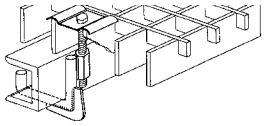
- upper clamp (saddle)
- tap bolt + nut M8
- lower bracket

Coupling set



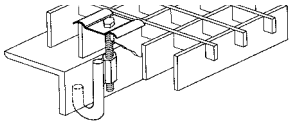
- 2 x upper clamps (saddle)
- 2 x tap bolt + nut M8
- 1 x solid lower bracket (coupling strip)

U-hook set



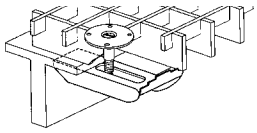
- upper clamp (saddle)
- U-hook, various sizes
- tap bolt M8

J-hook set



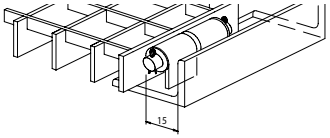
- J-hook set, upper clamp (saddle)
- J-hook, various sizes tap bolt M8

Fastening set with plate

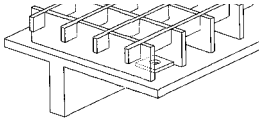


- plate
- bolt + nut M8
- lower bracket

Hinge

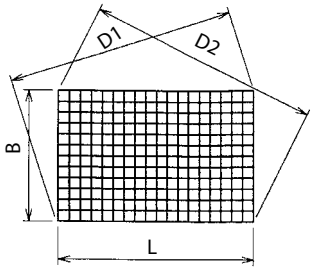


Welded plate



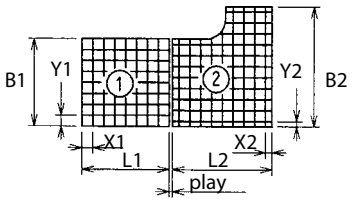
- welded material as in drawing

TOLERANCES R-TYPES

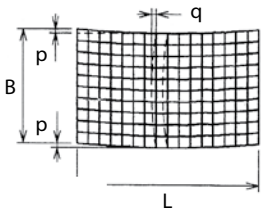


L = ± 0 - 4 mm
B = ± 0 - 4 mm
D1 - D2 = max. 0.010 x L

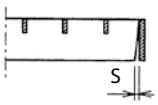
- Bearing bars max. 150 x 5 mm
- Mesh size min. 11 and max. 100 mm
- Grating surface max. 2 m²
- Grating length/width max. 2000 mm



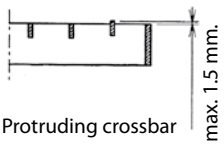
The sizes "X" and "Y" are derived from "B" and "L" and can therefore vary per grating. On request, these can be made uniformly along one side.



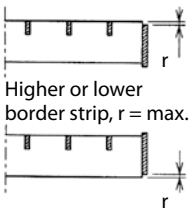
Grating deflection
p = max. 0.0025 x L
q = max. 0.0025 x B



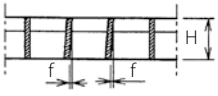
End of bearing bar
S = max. 0.1 x H



Protruding crossbar



Higher or lower border strip, r = max. 1 mm.

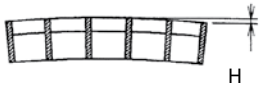


Oblique bearing bars
f = max. 0.1 x H
h = max. ± 3 mm

Concave or spheroid along bearing bar

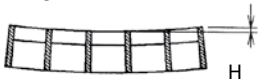
h = max. 3 mm if L < 600
h=max. 1/200 x L if L > 600 max. 8 mm.

h = max. 3 mm if L < 600
h=max. 1/200 x L if L > 600 max. 8 mm.



Concave or spheroid along crossbar

h = max. 3 mm if B < 600
h = max. 1/200 x L if B > 600 max. 8 mm.



h = max. 3 mm if B < 600
h = max. 1/200 x L if B > 600 max. 8 mm.

PLATFORM GRATINGS

Platform gratings consist of robust type RR or RH pressed gratings, onto which wooden or plastic elements are mounted. Platform gratings are constructed to form a continuous appearance whole when assembled. The crossbars project approximately 2 mm above the wooden elements and are available in a variety of anti-slip versions. Platform gratings can be supplied in any required height or thickness, even partly replacing some of the steel structure if necessary. The range is also complemented with treads that can be fitted with the same type of wood as the platform gratings.

PLATFORM GRATINGS TYPE RV

Application:
Platform gratings and treads are especially well suited to durable, aesthetic applications.
The use of organic shapes can give a square or plaza a very individual character. The enormous design freedom allows the installation of specific spotlighting features, providing the option of lighting building facades.

Materials:
- steel S235jr
- stainless-steel quality AISI 304 (1.4301)
- stainless-steel quality AISI 316L (1.4404)

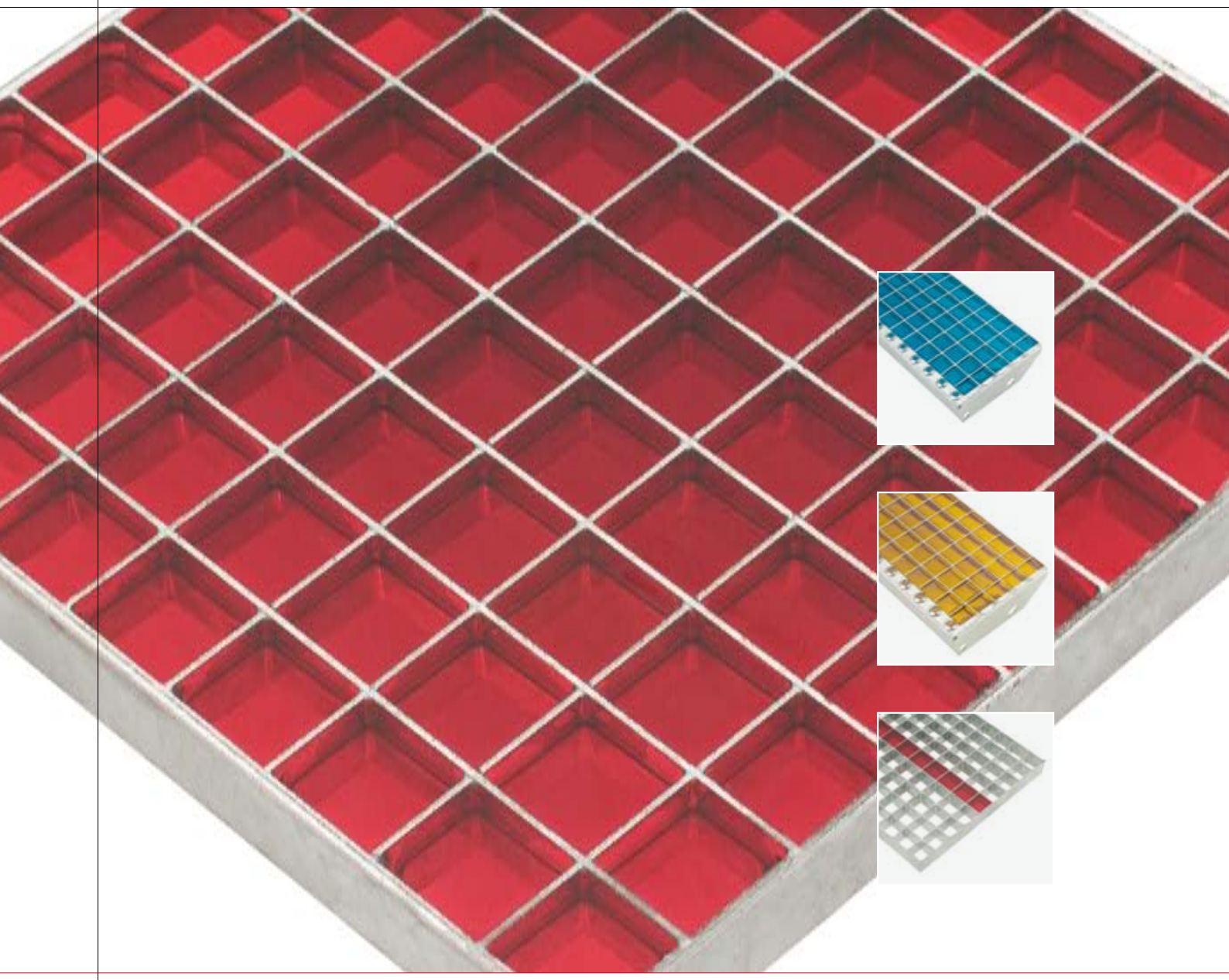
The appropriate wood type depends on design, weather conditions and required appearance. Staco has established partners who can provide the right wood.

Anti-slip versions for better grip:
- type RR.AD and RH.AD
- smooth bearing bar.
- waffle pattern bearing bar.
- anti-slip serration bearing bar.

Drainage:
- regular holes on the underside of the bearing bars encourage effective drainage

Dimensions:
Platform gratings are tailor made according to wood type and application. Variables, such mesh size, span, thickness, edging, side plates and wood types, are so diverse that our staff would be very happy to provide you with special advice.

For anti-slip classes, go to www.staco.pl



GLASS-FILLED GRATINGS

Any required Staco quality grating or tread of types RR, RH or RK can be filled up with a plastic 'glass' inlay. Irrespective of shape or version. A glass inlay can be applied to just one mesh, or to a row of meshes or to the entire grating area. The various options for types RR, RH of RK can be found in the brochure 'Floor gratings and Treads' or at **www.staco.pl**

GLASS-FILLED GRATINGS TYPE RR/RH/RK

Application:
The significant difference in expansion coefficient between the grating and the glass filling means this type of grating is only suitable for indoor use.

Uses include furniture, wall coverings, shop fitting and escape routes, for which the filled mesh is fitted with led lighting. Since it is possible to apply different colours to each mesh, this product opens up all sorts of architectural options.

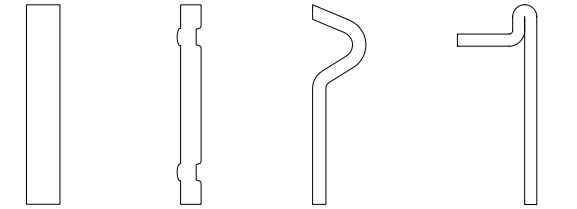
Versions:
The 'glass' can be supplied in transparent, half transparent and opaque finishes.

Colours:
The inlay can be supplied is any colour required.

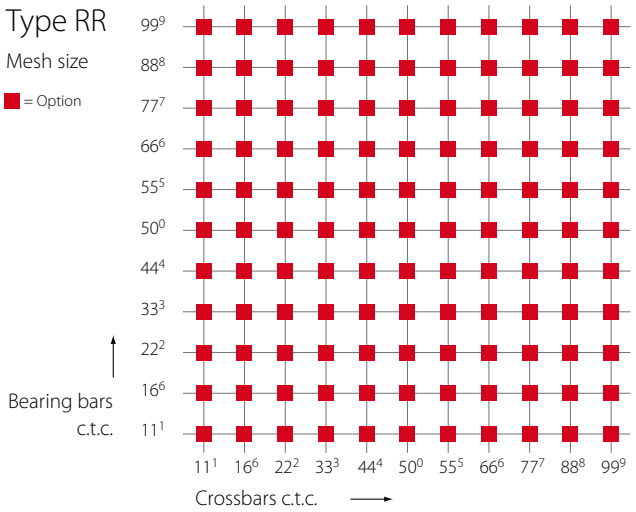
For anti-slip versions, please refer to page 13.

For anti-slip classes, go to www.staco.pl

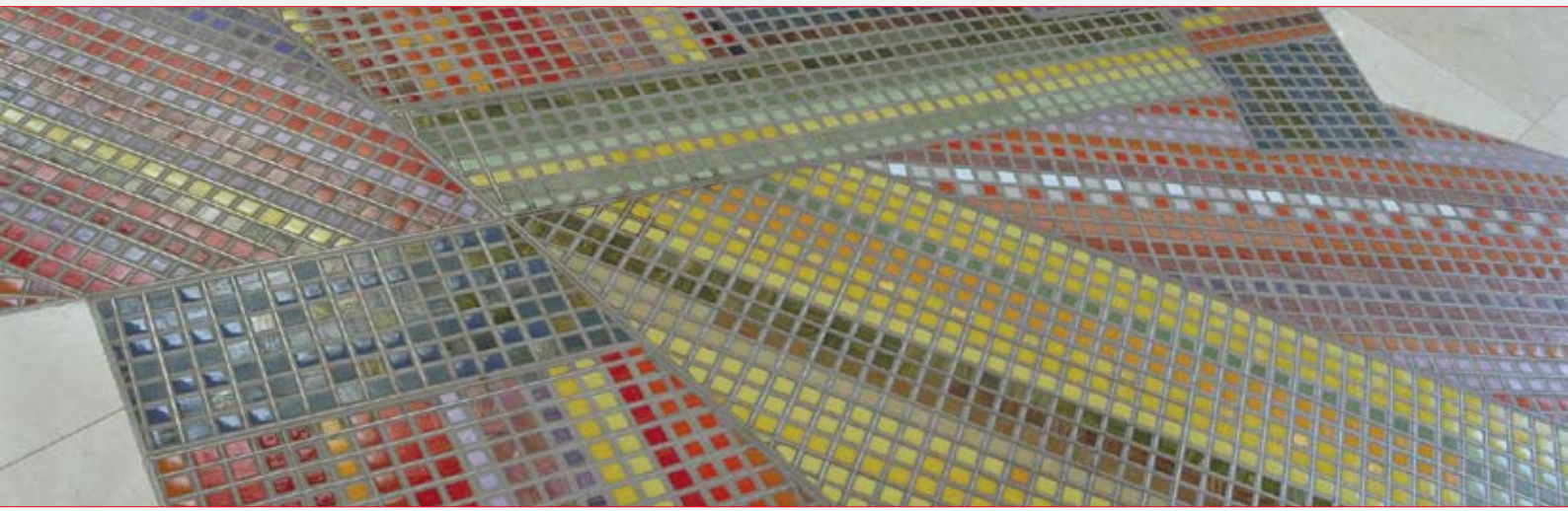
Examples of edge bar

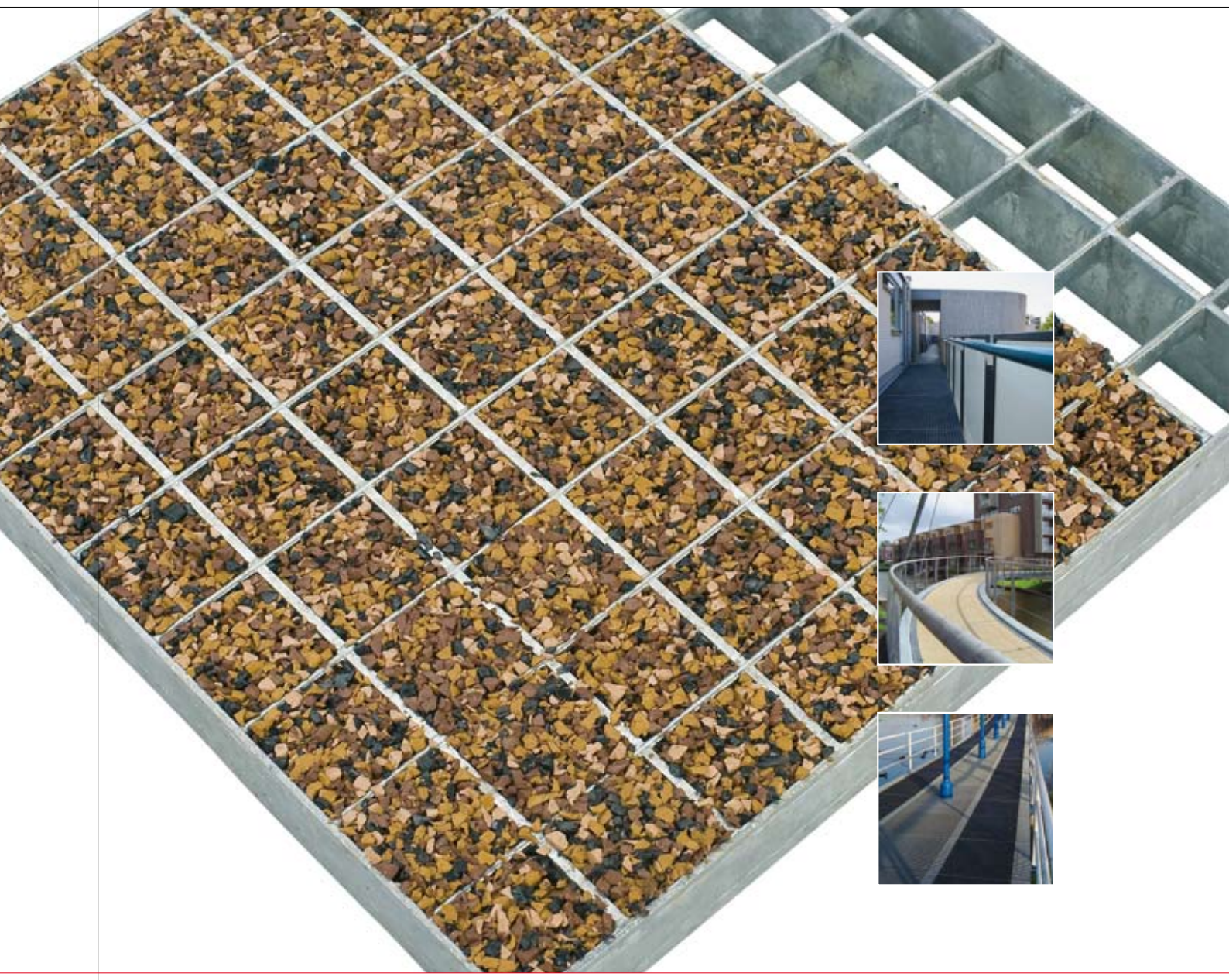


The table below illustrates the possible variations in mesh size.



For RH and RK mesh size charts, go to www.staco.pl





ARTDECK®

Unusual architectural objects can be given an entirely unique character with the patented Art**deck**®. Filling the mesh spaces of the versatile Staco gratings and treads with coloured plastic granules creates a characteristic well-drained Art**deck**®.

GRANULATE-FILLED GRATINGS TYPE RR/RH/RK

Application:

Artdeck® treads, platforms, bridge decks, working platforms, flyovers and drilling rigs. Artdeck® is exceptionally well-suited for decorating and improving concrete walkways (e.g. for wheelchair access).

Properties:

- Artdeck® is anti-slip
- permeable, creating well-drained, self-supporting surfaces
- sound-deadening, reducing irritating noise in open stairwells
- non-transparent, providing those with a fear of heights a greater feeling of safety
- unlimited creativity for designing patterns with various colours
- also possible to fill only partial gratings
- can also be supplied in drained-controlled version This means that the water is drained under controlled conditions, allowing you to walk underneath without getting wet.

Materials:

- steel S235jr
- stainless-steel quality AISI 304 (1.4301)
- stainless-steel quality AISI 316L (1.4404)

For mesh size charts: see page 11.

Anti-slip versions for better grip:

Type RR.AD, RH.AD and RK.AD
Serrated bearing bars.

Type RR.AV and RH.AV
Serrated crossbars.

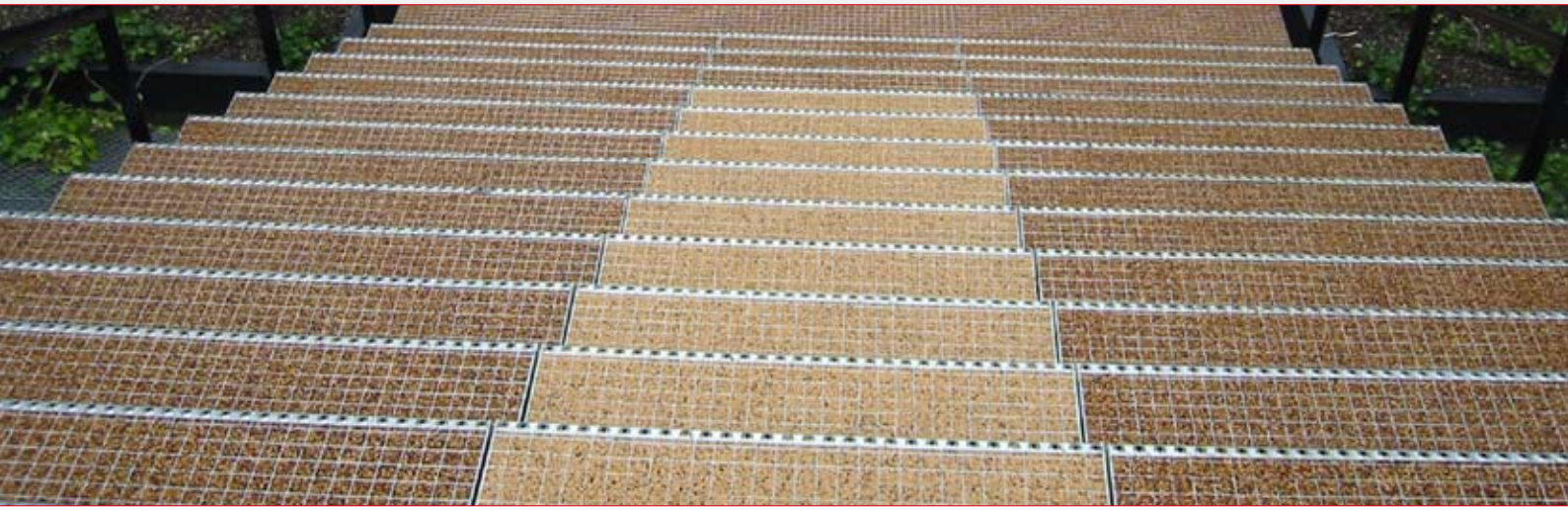
Type RR.ADV and RH.ADV
Serrated bearing and crossbars.

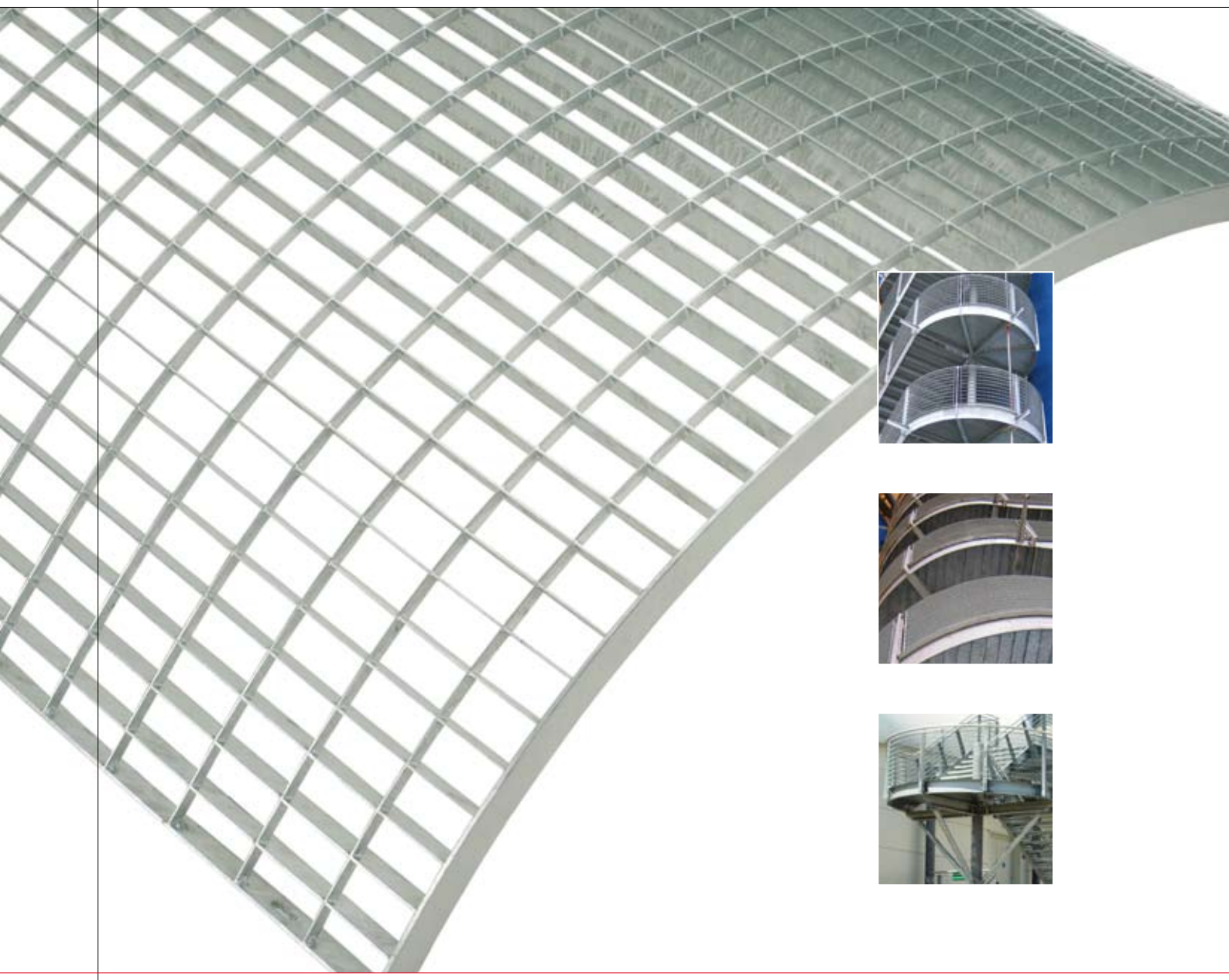
Strength analysis:

Standard strength analysis charts for grating types RR, RH and RK, with the maximum load weight increased to approximately 10 kg/m.^{2}.

Technical specifications Artdeck®:

Walkway:	plastic granules
Material:	EPDM
Surface structure:	natural (unpolished)
Hardness:	70 shore A
Surface stiffness:	FSC 2000 adequate – very good
Fire classification:	T2





CURVED GRATINGS

Form follows function. Based on this principle, Staco products provide versatile innovations for prestigious architectural objects. Staco gratings of type RR can be produced in a curved shape. The holes in the sides of the bearing bars allow curved parts to be joined together. Application of a double-layered powder coating to the gratings after they have been deformed provides architects with countless options for exciting and imaginative concepts.

CURVED GRATINGS TYPE RR

Application:
Curved gratings are mainly used for balconies and stair-wells, for fencing off outdoor furniture or as art objects in parks and gardens.

Direction of rolling:
Pressed gratings of type RR can only be rolled in the direction of the crossbars.

Material:
- steel quality S235jr
- stainless steel on request

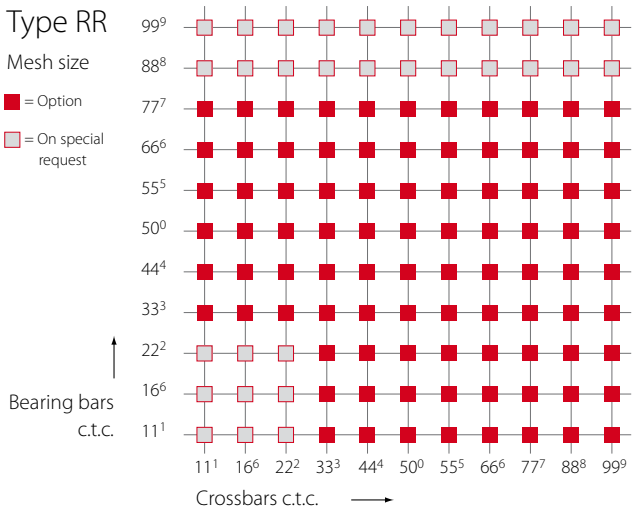
Fastening:
- holes in edge
- mortised plates
- welded plates

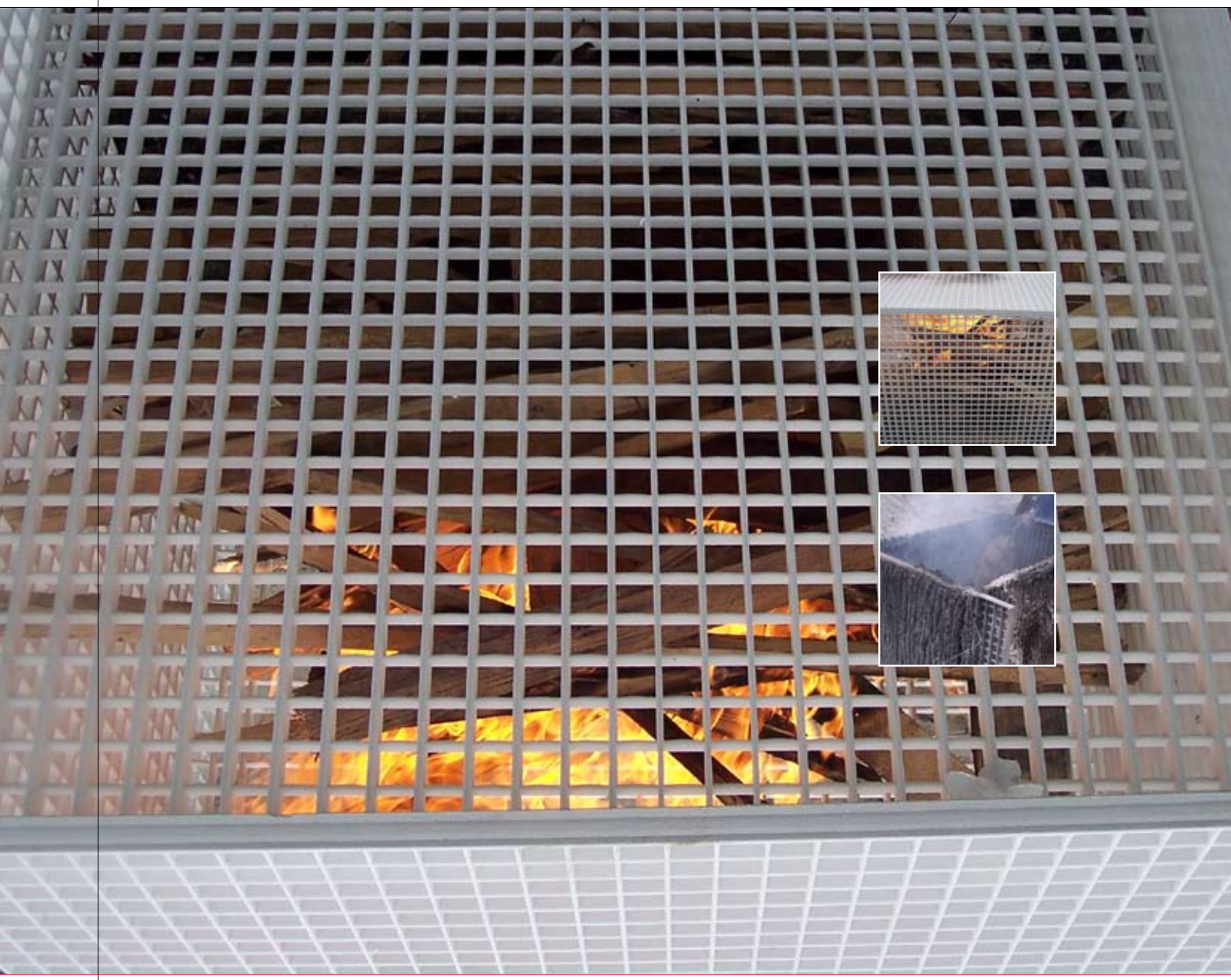
Edge bar:
Variable (depending on bar thickness)
Other options on request

Recesses:
On request.

Colour:
Any required RAL colour or architectural powder coating.

The table below illustrates the possible variations in mesh size.





FIRE GRATINGS

The Staco fire grating is any Staco quality grating equipped with multiple fire-retardant coatings. The grating can be used both indoors and outdoors. Staco fire gratings are used in situations that require good air circulation under normal circumstances, but which need the opposite effect in the event of fire.

FIRE GRATINGS TYPE RR/RH/RK

Areas of application:
Car parks, air locks, housing units for pumps, compressors or other equipment that requires air cooling.

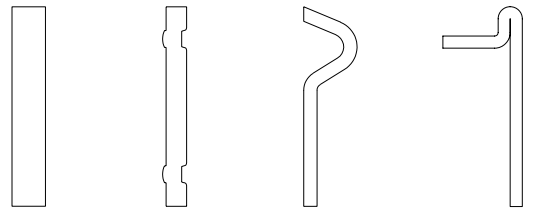
Our staff would be happy to advise you on specific areas of application.

Effect:
The grating serves as a barrier that allows air circulation for cooling or to facilitate the extraction of exhaust gases. In the event of fire, the paint swells up and hermetically seals the grating, helping to prevent the fire from spreading.

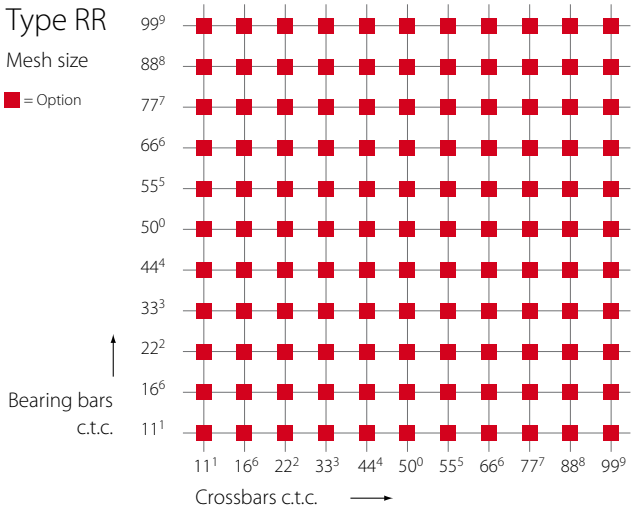
Colours:
Any required RAL colour.

For anti-slip classes, please refer to page 13.

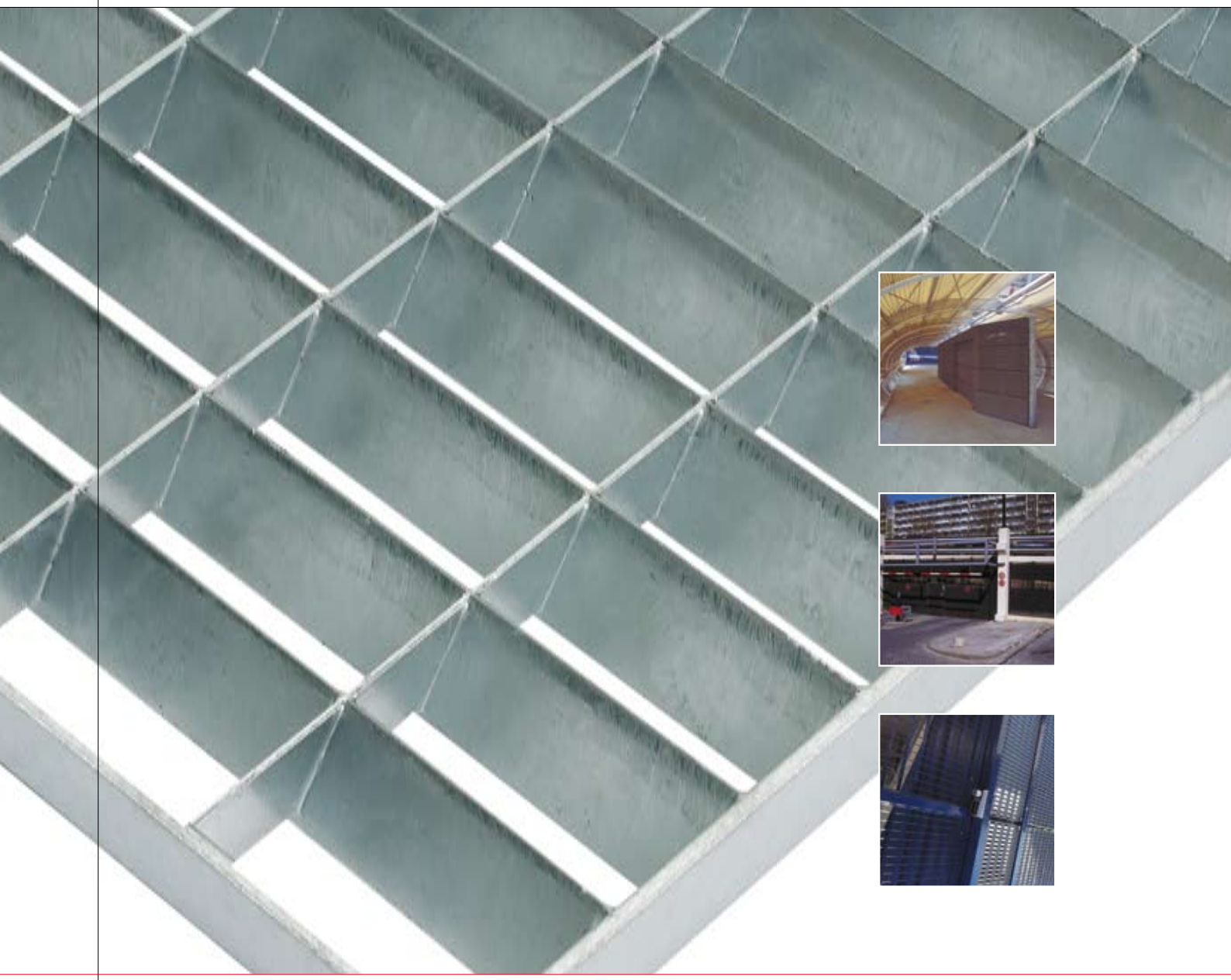
Examples of edge bar



The table below illustrates the possible variations in mesh size.



For RH and RK mesh size charts, go to www.staco.pl



LOUVRE GRATINGS

These gratings are made up of louvres, with the bearing bars fitted at an angle of either 30° or 45°. This makes them particularly well-suited as sunshades and partitions. They appear to be closed, so provide plenty of privacy when used as a partition. Varying the height of the louvres and the mesh size allows you to determine the degree of visibility through the grating. Louvre gratings can be supplied in versions that prevent rain intrusion. The border strips are made of 5 mm thick flat steel as standard. Other options on request. The louvre gratings can be powder coated in any standard RAL colour according to the VISEM norms. The colour elements guarantee a high degree of attractiveness within a total architectural design.

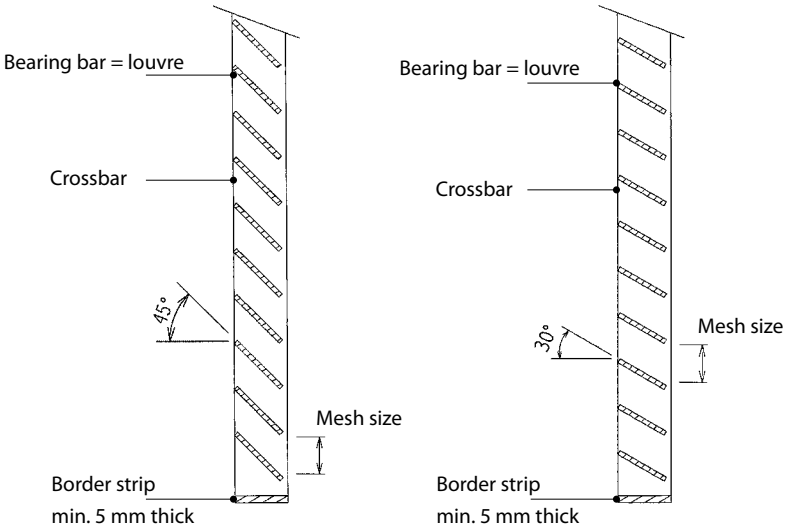
LOUVRE GRATINGS TYPE RL

Bearing bars = Louvres:
30 x 2 to 70 x 2 mm
30 x 3 to 70 x 3 mm

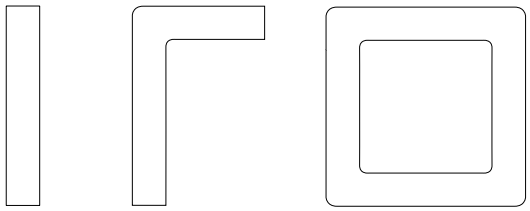
Crossbars:
25 x 2 to 40 x 2 mm
25 x 3 to 40 x 3 mm

Border strip:
5 mm flat steel / other options on request.

Choice of the following materials:
– steel quality S235jr
– stainless steel quality AISI 304 (1.4301)
– stainless steel quality AISI 316L (1.4404)
– aluminium quality AlMg3G22

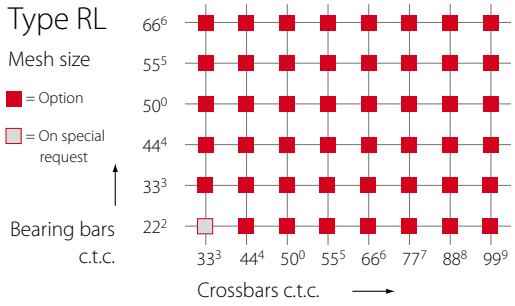


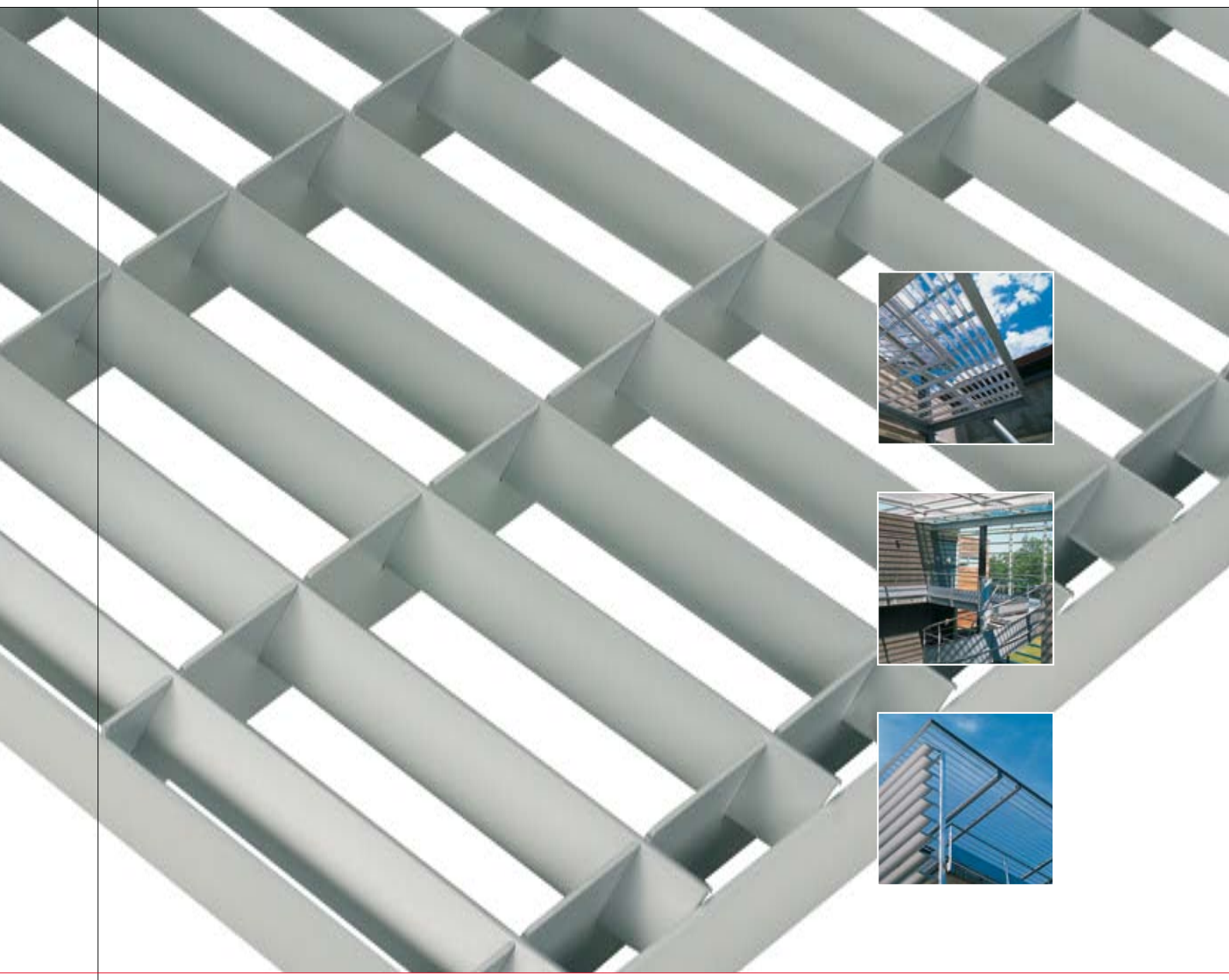
Examples of border strip



Flat edge | Hook profile | Tube profile

The table below illustrates the possible variations in mesh size.





AERO-DESIGN LOUVRE GRATINGS

Architecturally decorative. Top quality and expertise characterise the Staco products. This applies to the multitude of applications of our wide range of versatile gratings, but also to the aluminium Staco Aero-Design gratings. These machine-pressed aluminium facade or roof-covering gratings ensure maximum reduction of wind noise, thanks to the profiles that were specially developed in a wind tunnel. There are countless possible shapes and sizes, and the potential applications are virtually limitless.

LOUVRE GRATINGS TYPE RL AERO-DESIGN

Type 1 Louvre height 70 mm

- Louvre (70 x 1.5mm)
- bearing bar 50 x 3
- weight approx. 12 kg/m²
- material aluminium
- angle of the louvre 0, 30, 45 or 60 degrees
- maximum louvre width 2000 mm
- maximum bearing bar height 3500 mm

Type 2 Louvre height 40 mm

- Louvre (40 x 1.5mm)
- bearing bar 60 x 3
- weight approx. 7.5 kg/m²
- material aluminium
- angle of the louvre 0, 30, 45 or 60 degrees
- maximum louvre width 2000 mm
- maximum bearing bar height 3500 mm

Application:

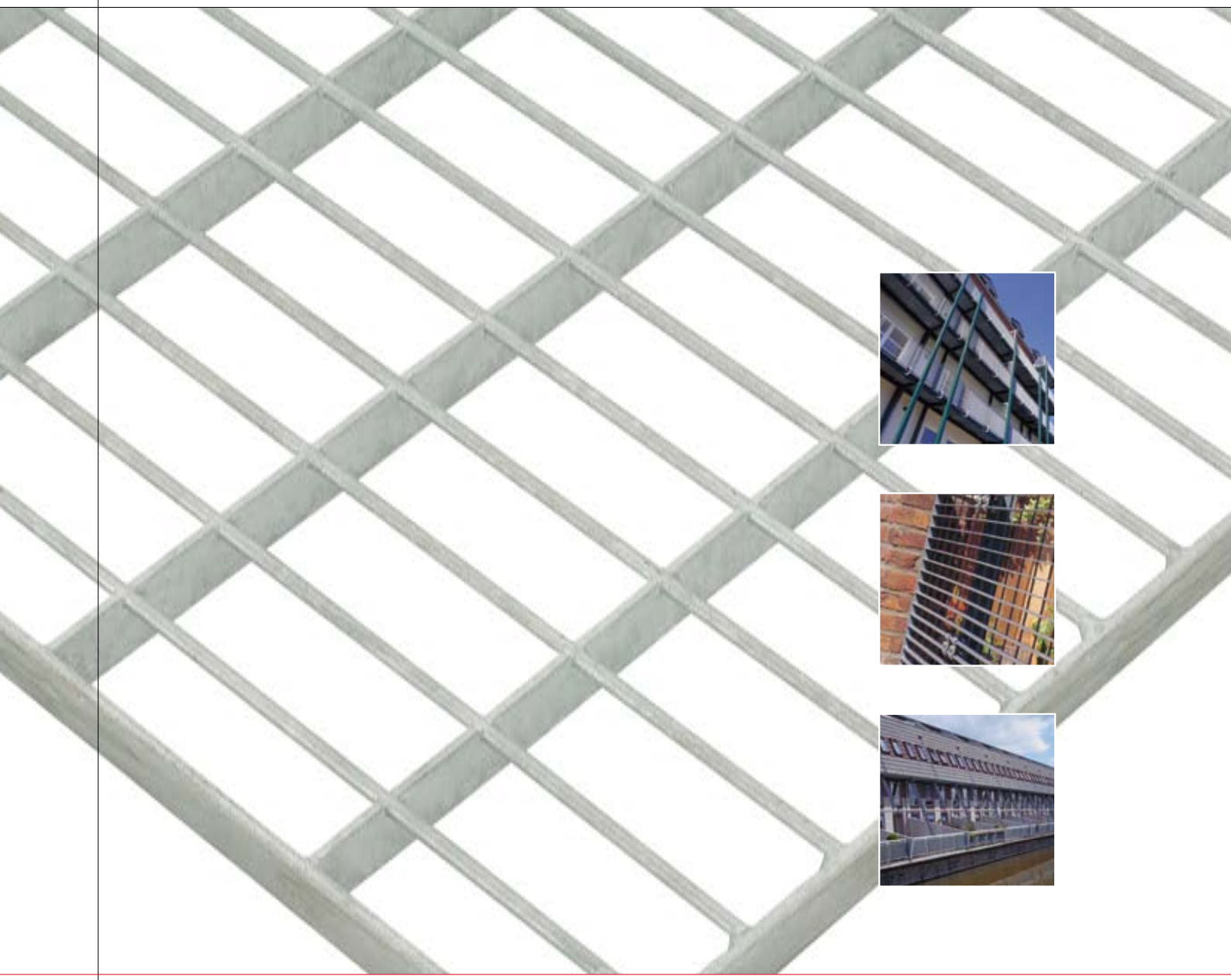
- facade or roof covering
- reflective
- allows air circulation
- lightweight aluminium
- noiseless due to profiles specially developed in wind tunnel
- creates interesting colour combinations due to reflectiveness
- false ceilings
- partition walls

Colours:

Any required RAL colour, anodised or enamelled.

Louvre cross-section Type 1

Louvre cross-section Type 2



BALCONY AND PARTITION FENCES

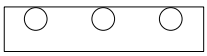
Creativity cannot be standardized. Straight or curved, with variations in the height of the bearing bars and the mesh size, galvanized or powder coated in any RAL colour you require. Custom jobs in perfect shape. In a nutshell, Staco is the perfect partner for architects, and provides the necessary expert technical support. Balcony fences are fitted with type RO gratings with 3 mm bearing bars and 5 mm round crossbars. These can be supplied in various versions, with the standard 5 mm thick, flat steel border strip being made to size on request.

GRATINGS TYPE RO/ROM

PARTITIONS TYPE RO

Bearing bars:
25 x 3 to 70 x 3 mm

Crossbars:
Round 5 mm.



Type RO crossbar, 5mm round, fitted at the top.

Border strip:
5 mm flat steel / other options on request.

Choice of the following materials:
– steel quality S235jr
– stainless steel quality AISI 304 (1.4301)
– stainless steel quality AISI 316L (1.4404)

Examples of border strip

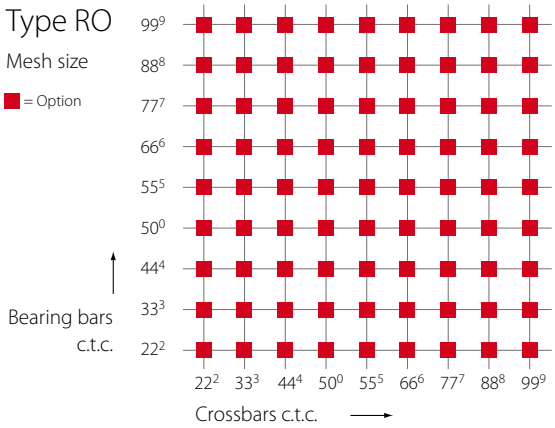
Flat edge

PARTITIONS TYPE ROM

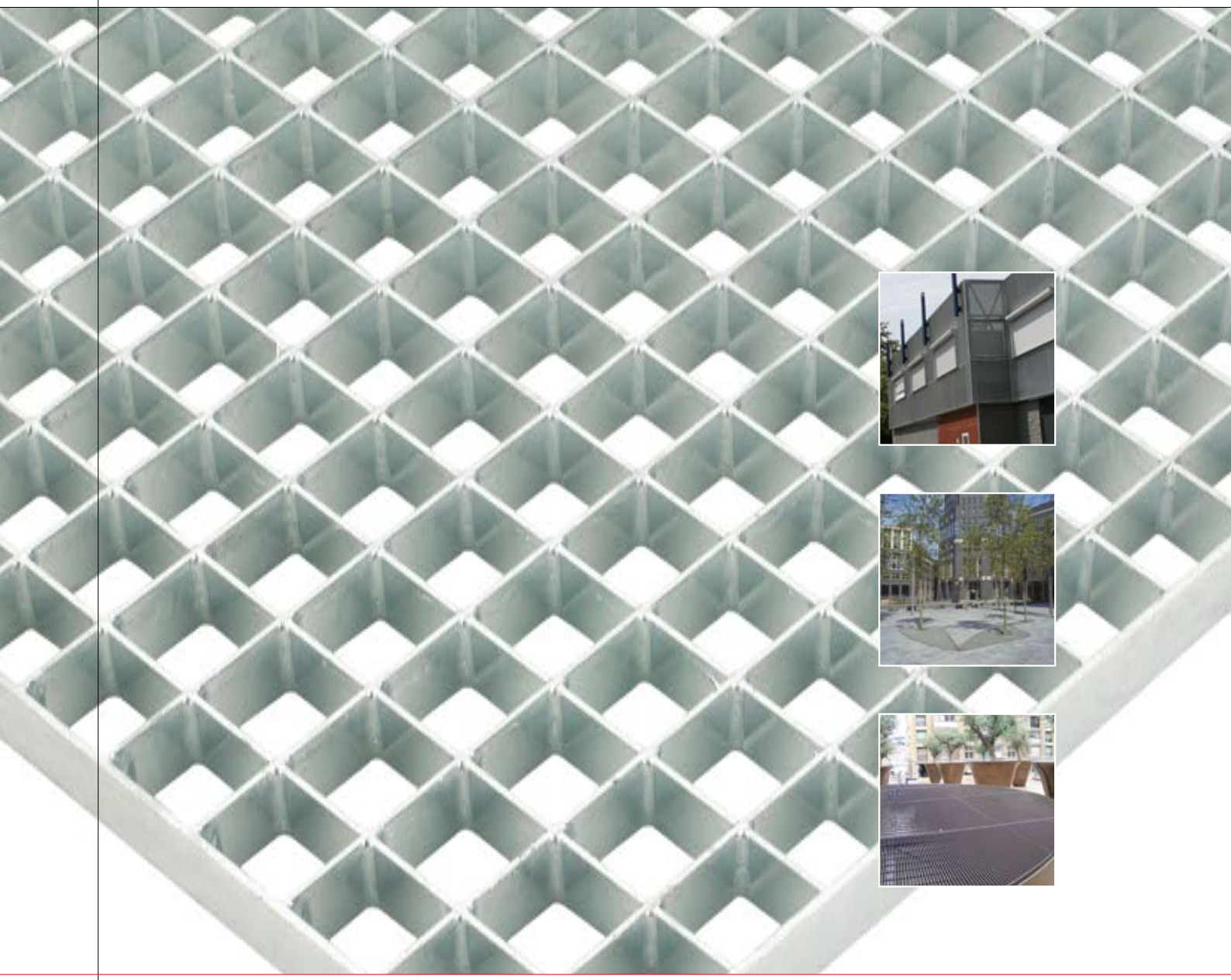
Specifications identical to type RO with the only difference that the type ROM crossbars are fitted in the middle.

Type ROM crossbar, 5mm round, fitted in the middle.

The table below illustrates the possible variations in mesh size.



ROM mesh sizes on request.



FULL GRATINGS

This type of grating is fitted with identical bars in both directions according to the so-called full grating principle. With their visual uniformity, they offer architects ample scope for exciting and imaginative concepts. They are frequently used as sun blinds and awnings. These gratings can be powder coated in any standard RAL colour according to the VISEM norms, to form an attractive and intriguing key element in the total concept.

FULL GRATINGS TYPE RK

Bearing bars:
- 30 x 2 to 50 x 2 mm
- 30 x 3 to 50 x 3 mm

Border strip:
Variable (depending on bar thickness)
Other options on request.

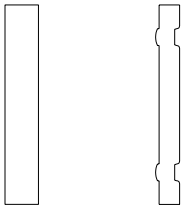
Choice of the following materials:
– steel quality S235jr
– stainless steel quality AISI 304 (1.4301)
– stainless steel quality AISI 316L (1.4404)
– aluminium quality AlMg3G22

Anti-slip versions for better grip:

Type RK.AD
Serrated bearing bars.

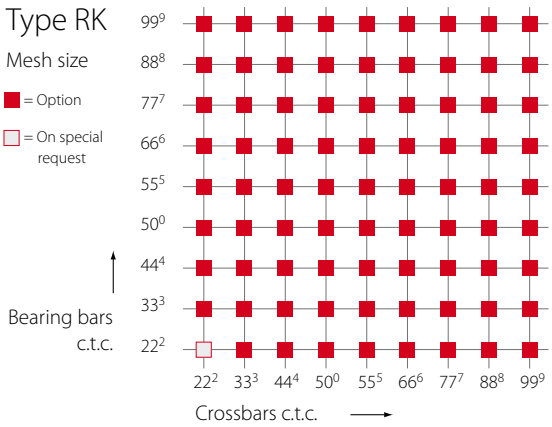
For anti-slip classes, go to www.staco.pl

Examples of border strip



Flat edge Butted edge

The table below illustrates the possible variations in mesh size.



GRATING TREADS TYPE RR/RH

Anti-slip versions for better grip:

Type TR.AD
Serrated bearing bars.

Type TR.AV
Serrated crossbars.

Type TR.ADV
Serrated bearing and crossbars.

For stocks of treads, go to www.staco.pl

For anti-slip classes and mounting plate specifications, please refer to www.staco.pl

L +0 -3	+ B 5 -	Bearing bar height					permissible point load	
		a	b	c	d	e	f	N[1)]
600 30 x 2	240	30	55	70	120	85	30	1500
	270	30	55	70	150	85	30	1500
	305	30	55	70	180	90	30	1500
600 30 x 3	240	30	55	70	120	85	30	1500
	270	30	55	70	150	85	30	1500
	305	30	55	70	180	90	30	1500
800 30 x 2	240	30	55	70	120	85	30	1200
	270	30	55	70	150	85	30	1200
	305	30	55	70	180	90	30	1200
800 30 x 3	240	30	55	70	120	85	30	1500
	270	30	55	70	150	85	30	1500
	305	30	55	70	180	90	30	1500
900 30 x 3	240	30	55	70	120	85	30	800
	270	30	55	70	150	85	30	800
1000* 30 x 2	240	30	55	70	120	85	30	1200
	270	30	55	70	150	85	30	1200
1000* 30 x 3	240	30	55	70	120	85	30	960
	270	30	55	70	150	85	30	960
	305	30	55	70	180	90	30	960
1000 30 x 3	240	30	55	70	120	85	30	1500
	270	30	55	70	150	85	30	1500
	305	30	55	70	180	90	30	1500
1200 40 x 3	240	40	55	70	120	85	30	1500
	270	40	55	70	150	85	30	1500
	305	40	55	70	180	90	30	1500

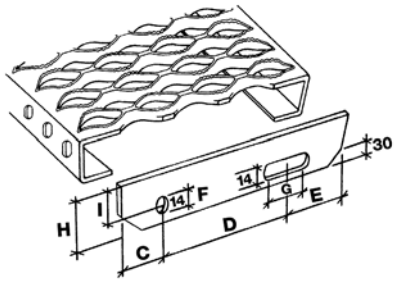
The preferred lengths are 800 mm and 1000 mm.

* Take account of load

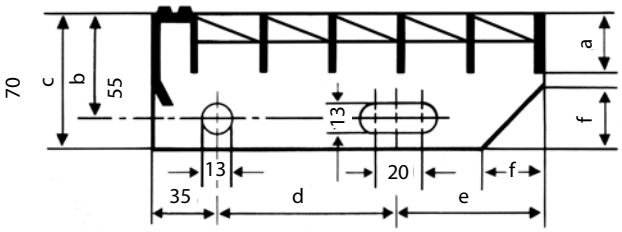
Perfo designs

Toe edge nosing	C	D	E	F	G	H	I
180	35	90	55	14	20	70	55
240	35	120	85	14	20	70	55
300	35	180	85	14	20	70	55

Other dimensions on request.



Hole sizes for edging recesses

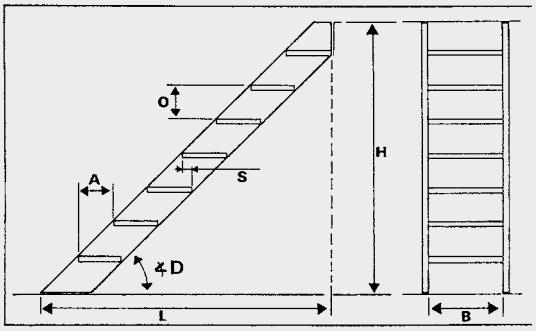


a = bearing bar height

RR treads: Holes comply with DIN 24 531 – hot-dip galvanizing complies with DIN and ISO 1461 (DIN 50 976)

GUIDELINE FOR STAIRS

The height (H), length of flight (L) and width (W) of a staircase are the most obvious dimensions for constructing stairs. However, in practice, there appears to be a certain relation between degree of pitch (D), rise (O) and run (A) for the construction of a safe and comfortable staircase. The overlap (S) should be at least 10 mm. The degree of pitch (D) should be between 30° and 45°. Since the length of flight is often insufficient, it is rarely possible to achieve the ideal pitch. A compromise has to be reached. Please refer to the table for staircases for which the pitch is known.



If the degree of pitch is not known, but the height (H) and length of flight (L) are known, then divide the length of flight (L) by the height (H). Select the closest ratio in the table below.

Example: Degree of pitch (D) : ?
Length of flight (L) : 3.0 m
Height (H) : 2.5 m

L : H = 3.0 : 2.5 = 1.2
The degree of pitch is 40°

Stair angle	60°	57°	55°	52°	50°	47°	45°	42°	40°	37°	35°	32°	30°
Effective rise	**240**	**235**	**230**	**225**	**220**	**215**	**210**	**205**	**200**	**190**	**185**	**175**	**170**
Effective run	150	160	170	180	190	200	210	220	230	250	260	280	290
Effective tread	**160**	**170**	**200**	**200**	**200**	**230**	**230**	**230**	**260**	**260**	**300**	**300**	**300**
Ratio of basic length to height	0.58	0.65	0.70	0.78	0.84	0.93	1.00	1.11	1.19	1.33	1.43	1.60	1.73

⟩ HOT-DIP GALVANIZING

⟩ **Hot-dip galvanizing in accordance with DIN EN ISO 1461:**

For permanent protection of its products, the steel gratings, treads and fasteners are hot-dip galvanized in Staco's own workshops. For more information on hot-dip galvanizing, go to **www.staco.pl**

Process:

Norm	DIN EN ISO 1461
Staining	hydrochloric acid solution
Dipping	flux solution
Drying/preheating	approx 100° Celsius
Galvanising	approx 450° Celsius

Thickness of layer in accordance with DIN EN ISO 1461:

Material thickness in mm.	Zinc coating thickness in µm.
< 1,5	45
> 1,5 – 3	55
> 3 – 6	70
> 6	85

⟩ **Finishing in accordance with DIN EN ISO 1461:**

Any irregularities are manually removed and the material is free from projections such as:

- blisters
- sharp points
- rough spots

Colour differences:

After hot-dip galvanizing, the colour of the zinc coating may change. This is usually caused by zinc iron alloy elements coming through.

Electrostatic powder coating according to VISEM quality requirements

In order to ensure Staco products have an attractive appearance, and are therefore more likely to be used in architectural applications, we equip Staco's galvanized, stainless steel and aluminium products with any required RAL colour at our in-house powder-coating units.

Staco supplies in compliance with the VISEM quality requirements for the industrial application of organic coatings on hot-dip galvanized steel. For more information on electrostatic powder coating, go to **www.staco.pl**

Process:
Coating applied in accordance with DIN EN ISO 5254

- no irregularities protruding through the coating
- steel splinters removed from visible surfaces
- no obvious irregularities visible from a distance of 3 metres, unless inherent to the hot-dip galvanizing process

Chemical pre-treatment

Drying where necessary

Application of coating

Enamelling

Advice:

In order to ensure the best result, Staco always advises applying a double-layered coating to the products.

Maintenance:

It is important that the coating is cleaned regularly to prevent chlorides from adhering to the coating and shortening its working life.

ELECTROSTATIC POWDER COATING

RAL COLOUR CHART

WEATHERPROOF POWDERS. GLOSS RATE APPROX. 70%/60O ISO 2813

RAL colour		category
YELLOW HUES		
1000	green beige	I
1001	beige	I
1002	sand yellow	I
1003	signal yellow	V
1004	golden yellow	III
1005	honey yellow	III
1006	maize yellow	IV
1007	daffodil yellow	III
1011	brown beige	I
1012	lemon yellow	III
1013	oyster white	I
1014	ivory	I
1015	light ivory	I
1016	sulphur yellow	III
1017	saffron yellow	II
1018	zinc yellow	III
1019	grey beige	I
1020	olive yellow	II
1021	rape yellow approx.	IV
1023	traffic yellow	IV
1024	ochre yellow	I
1027	curry	II
1028	melon yellow	II
1032	broom yellow	II
1033	dahlia yellow	IV
1034	pastel yellow	III
ORANGE HUES		
2000	yellow orange	IV
2001	red orange	III
2002	vermilion	IV
2003	pastel orange	III
2004	pure orange approx.	III
2008	bright red orange on request	
2009	traffic orange on request	
2010	signal orange	IV
2011	deep orange approx.	V
2012	salmon orange	II
RED HUES		
3000	flame red	III
3001	signal red	IV
3002	carmine red	III
3003	ruby red	III
3004	purple red	IV
3005	wine red	III
3007	black red	I
3009	oxide red	I
3011	brown red	II
3012	beige red	I
3013	tomato red	III
3014	antique pink	I
3015	light pink	I
3016	coral red	III
3017	rose	III
3018	strawberry red	IV
3020	traffic red	IV
3022	salmon pink	I
3027	raspberry red	III
3031	orient red	III
VIOLET HUES		
4001	red lilac	III
4002	red violet	II
4003	heather violet	III
4004	claret violet	IV
4005	blue lilac	III
4006	traffic purple	IV
4007	purple violet	IV
4008	signal violet	IV
4009	pastel violet	I
4010	telemagenta approx.	III
BLUE HUES		
5000	violet blue	I
5001	green blue	I
5002	ultramarine blue approx.	II
5003	sapphire blue	I
5004	black blue	I
5005	signal blue	II
5007	brilliant blue	I
5008	grey blue	I
5009	azure blue	I
5010	gentian blue	II
5011	steel blue	I
5012	light blue	I
5013	cobalt blue	II
5014	pigeon blue	I
5015	sky blue	I
5017	traffic blue	I
5018	turquoise blue	I
5019	Capri blue	I
5020	ocean blue	I
5021	water blue	I
5022	night blue	II
5023	distant blue	I
5024	pastel blue	II
GREEN HUES		
6000	patina green	I
6001	emerald green	II
6002	leaf green	II
6003	olive green	I
6004	blue green	I
6005	moss green	I
6006	grey olive	I
6007	bottle green	I
6008	brown green	I
6009	fir green	I
6010	grass green	II
6011	reseda green	I
6012	black green	I
6013	reed green	I
6014	yellow olive	I
6015	black olive	I
6016	turquoise green	II
6017	May green	I
6018	yellow green	III
6019	pastel green	I
6020	chrome green	I
6021	pale green	I
6022	olive drab	I
6024	traffic green	II
6025	fern green	I
6026	opal green	I
6027	light green	I
6028	pine green	I
6029	mint green	II
6031	bronze green approx.	I
6032	signal green	II
6033	mint turquoise	I
6034	pastel turquoise	I
GREY HUES		
7000	squirrel grey	I
7001	silver grey	I
7002	olive grey	I
7003	moss grey	I
7004	signal grey	I
7005	mouse grey	I
7006	beige grey	I
7008	khaki grey	I
7009	green grey	I
7010	tarpaulin grey	I
7011	iron grey	I
7012	basalt grey	I
7013	brown grey	I
7015	slate grey	I
7016	anthracite grey	I
7021	black grey	I
7022	umbra grey	I
7023	concrete grey	I
7024	graphite grey	I
7026	granite grey	I
7030	stone grey	I
7031	blue grey	I
7032	pebble grey	I
7033	cement grey	I
7034	yellow grey	I
7035	light grey	I
7036	platinum grey	I
7037	dusty grey	I
7038	agate grey	I
7039	quartz grey	I
7040	window grey	I
7042	traffic grey A	I
7043	traffic grey B	I
7044	silk grey	I
7045	telegrey 1	I
7046	telegrey 2	I
7047	telegrey 4	I
BROWN HUES		
8000	green brown	I
8001	ochre brown	I
8002	signal brown	I
8003	clay brown	I
8004	copper brown	I
8007	fawn brown	I
8008	olive brown	I
8011	nut brown	I
8012	red brown	I
8014	sepia brown	I
8015	chestnut brown	I
8016	mahogany brown	I
8017	chocolate brown	I
8019	grey brown	I
8022	black brown	I
8023	orange brown	I
8024	beige brown	I
8025	pale brown	I
8027	leather brown	I
8028	terra brown	I
WHITE/BLACK HUES		
9001	cream	I
9002	grey white	I
9003	signal white	I
9004	signal black	I
9005	jet black	I
9006	white aluminium approx.	IV
9007	grey aluminium approx.	IV
9010	pure white	I
9011	graphite black	I
9016	traffic white	I
9017	traffic black	I
9018	papyrus white	I
9021	tar black approx.	I
SPECIALS		
e.g. bronze glitters/iron glitters		IV
many options / only indoors		

CATEGORIES

I Standard RAL colour on stock at supplier

II RAL colour pigment reinforced on stock at supplier

III RAL colour extra pigment reinforced additional price

IV/V RAL special additional price

Treatment and preservation:
Powder coating Staco gratings in any required RAL colour creates an attractive appearance. Modern architecture combining both aesthetic aspects and extra protection. The RAL colour chart provides a very wide pallet of colours, with a multitude of applications.

Staco treats its products at its own galvanizing and powder-coating sites. Based on its experience, Staco always advises applying a double-layered coating to the products.

RAL is a coding system for the definition of coating colours. Our staff would be happy to answer your questions.

TREATMENT AND PRESERVATION

Staco also publishes
the following brochures

FLOOR GRATINGS
AND TREADS

SP FORGE-WELDED
GRATINGS

PERFO PLANKS
AND STAIR TREADS

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