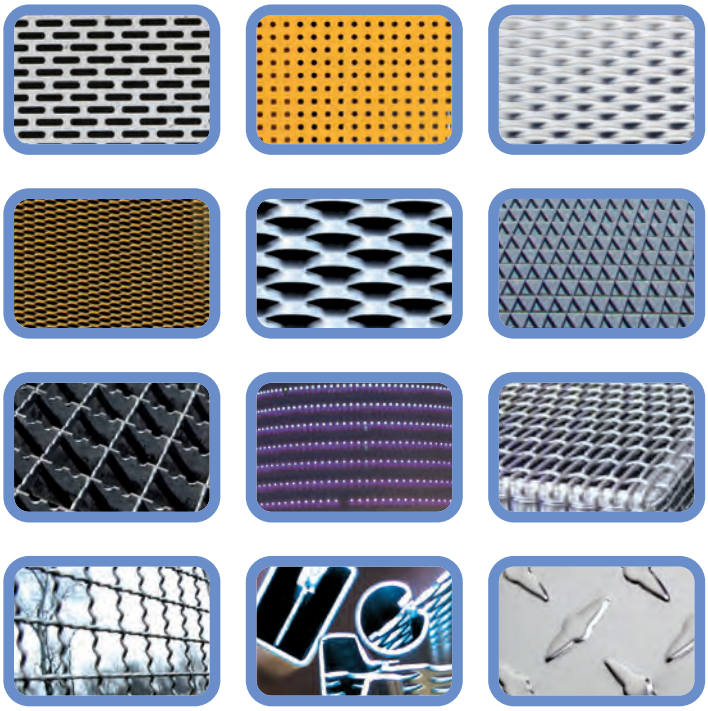
ProMetall Design instead of average

ProMetall



Experiencing metal–

Your Austrian supplier and competence partner

ProMetall GmbH.
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sales@prometall-europe.com

Subject to printing errors and changes. Edition 11, 02/2022

ProMetall

We are Austria's experts in perforated metals, expanded metals and gratings

Your (special) wishes are fulfilled more quickly and efficiently – **at ProMetall**
Your problems are solved more quickly and competently – **at ProMetall**
Your safety is our independence (100% Austria) – **at ProMetall**

Your advantages are our strength:

Austria's biggest warehouse for perforated metal sheets
Perforated sheets from A to Z - no matter how much and how big
Austria's shortest delivery times
The fairest prices for the fairest quality

Austria's biggest warehouse for expanded metals
Leading production programme with leading technology

Absolutely unbeatable delivery deadlines for customised gratings
Gratings from A to Z; press-locked forge-welded or perforated gratings of any material quality
Higher load capacities than any competitor in Austria thanks to the press-locked gratings' top material quality

"Alternative products" and range additions make us Austria's biggest competence leader for:
Profile edgings
Wire cloth

Your flexibility is our service:

We are here for you:
Mon – Thu from 7.30 a.m. -4.30 p.m., Fri from 7.30 a.m. -2 p.m. non-stop
We are with you in person when you really need us - at any point in time! (no "week-representatives")
We help you from the planning phase through the application phase,
competent solution suggestions and sample production
We are your "extended work bench" if you cannot / do not want to go it alone

Your time saving is our speed:

24 hour supplier service all over Austria
Possibility to collect right next to the A2-Southern motorway
Prompt quotes on the phone or quickly by fax/email
Austria's shortest delivery deadlines for your "tailor-made suits"

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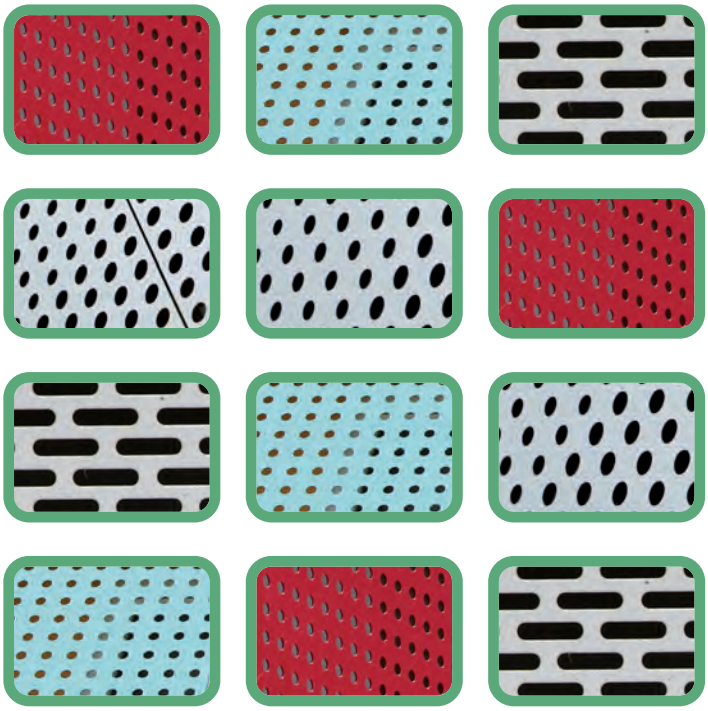
ProMetall Design instead of average

ProMetall



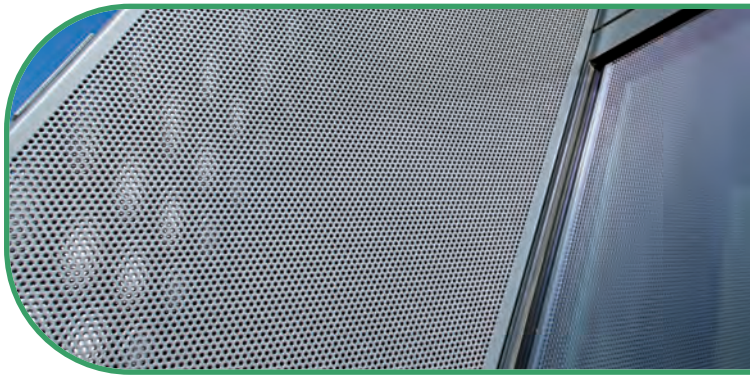
Perforated metal sheets

from the experts

Perforated metal sheets

Material: Aluminium powder-coated, thickness 3 mm, Perforation Rt 3 - 5 mm, Rt 12 - 15 mm flanged

Metal manufacturer: GIG Fassaden, Attnang-Puchheim



Perforated metal sheets

SUPPLIER / WAREHOUSE / PRODUCTION PROGRAMME

WAREHOUSE PROGRAMME	bold, italics "***L***"	
	24/48-hour supplier service everywhere in Austria	
	Austria's biggest warehouse for perforated sheets	

SUPPLIER PROGRAMME	regular "L"	
	Supply within 3 to max. 8 working days	
	from ongoing serial production!	

PRODUCTION PROGRAMME	**Material thickness:**	from 0.4 to 30 mm
	Formats:	Serial production to 1.5 x 3 mm
		otherwise to max. 2.5 x 6 m
	Perforation:	from diameter 0.4 to approx. 200 m
	Delivery:	small quantities: 2 to 5 working days
	Larger quantities:	by arrangement from 5 working days

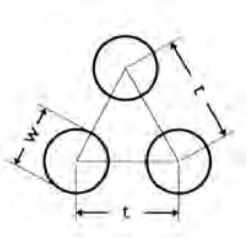
SUBSEQUENT PROCESSING	Cutting by means of state-of-the-art guillotine cutters
	Laser cutting, fine plasma cutting
	Edging, bending, rounding
	Welding (all processes)

FINISHING	Powder-coating, painting
	Pickling, electro-polishing of stainless steel
	Sandblasting, glass bead blasting
	Hot-dip galvanising, galvanising

L = 24/48 hours supplier service all over Austria
L = Supply within 3 to max. 8 working days
Subject to change

Perforated metal sheets

ROUND HOLE STAGGERED ROWS



Rt sketch

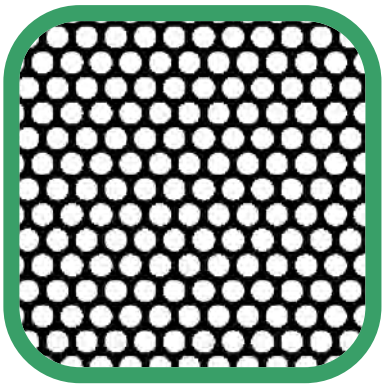
Rt 1 – 2

Rt 1.5 – 3

Rt 2 – 3

Rt 2 – 3.5

Rt 2.5 – 4



Rt 3 – 4

Perforated metal sheets

ROUND HOLE STAGGERED ROWS

STEEL		Format 1000 x 2000 mm											1250x2500 mm				1500x3000 mm			
DC01/DD11/S235JR		Thickness in mm											Thickness in mm				Thickness in mm			
Perforation (mm)	Ao (%)	0.5	0.75	1.0	1.5	2.0	3.0	4.0	5.0	6.0	8.0	10.0	1.0	1.5	2.0	3.0	1.0	1.5	2.0	3.0
Rt 0.5 – 1.25	15	L																		
Rt 0.75 – 1.5	23		L																	
Rt 1 – 2	23	L	L	L																
Rt 1.25 – 2.5	23		L	L																
Rt 1.5 – 2.5	33		L	L	L								L							
Rt 1.5 – 3	23			L	L								L							
Rt 1.75 – 3	31			L	L															
Rt 2 – 3	40		L	***L***	L	L							L							
Rt 2 – 3.5	30	L	L	***L***	***L***	L							L	L	L					
Rt 2.5 – 4	35			L	L	L								L	L					
Rt 3 – 4	51		L	***L***	L	L	L						L							
Rt 3 – 5	33		L	***L***	L	***L***	***L***						L	L	L	L	L	L	L	
Rt 3 – 6	23					L	L													
Rt 3.5 – 5.5	37				L	L	L								L					
Rt 4 – 5	58			L	L															
Rt 4 – 6	40		L	***L***	L	L	L						L	L	L	L	L	L	L	L
Rt 4 – 7	30					L	L	L							L	L				
Rt 5 – 6	63			L																
Rt 5 – 7	46	L	L	L	L	L	L												L	
Rt 5 – 8	35		L	***L***	***L***	***L***	***L***	L					***L***	***L***	***L***	***L***	L	***L***	***L***	L
Rv 5 – 10	23							L	L											
Rt 6 – 8	51	L		L	L		L						L	L						
Rt 6 – 9	40			L	L	L	L						L	L	L	L		L	L	L
Rt 6 – 10	33						L	L												
Rt 7 – 9	55			L	L	L	L								L					
Rt 7 – 10	44			***L***	L	L	L													
Rt 8 – 10	58			L	L															
Rt 8 – 11	48			L	L	L													L	
Rt 8 – 12	40		L	***L***	***L***	***L***	***L***	L	L				L	***L***	***L***	L		***L***	L	
Rt 8 – 15	26									L	L									
Rt 9 – 13	44				L		L													
Rt 10 – 14	46			L	L	L	L							L	L	L	L	L	L	
Rt 10 – 15	40			***L***	***L***	***L***	***L***	L	L				L	***L***	***L***	L	L	L	***L***	L
Rt 10 – 18	28									L	L									
Rt 10 – 20	23											L								
Rt 12 – 16	51			L	L	L	L	L						L						
Rt 12 – 20	33						L			L	L	L								
Rt 15 – 20	51			L	L	L	L	L	L					L	L				L	
Rt 20 – 25	58					L	L		L									L	L	
Rt 20 – 28	46				L	L	L	L	L						L			L	L	
Rt 20 – 30	40							L	L		L									
Rt 30 – 40	51						L	L	L	L								L		
Rt 40 – 50	58							L												
Rt 50 – 60	63							L	L											

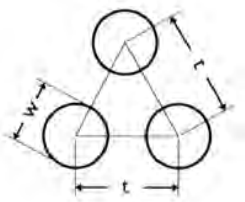
L = 24/48 hours supplier service all over Austria
L = Supply within 3 to max. 8 working days
Subject to change

ATTENTION: Further tools or optional formats/actual measurements available on short notice

>> SENDZIMIR GALVANISED >> ALUMINIUM Page 11

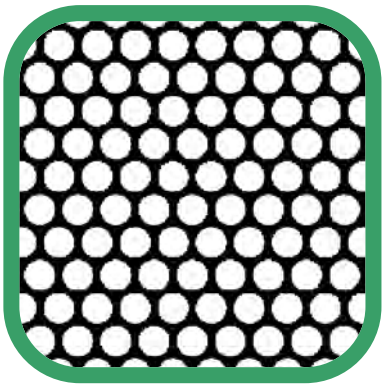
Perforated metal sheets

ROUND HOLE STAGGERED ROWS

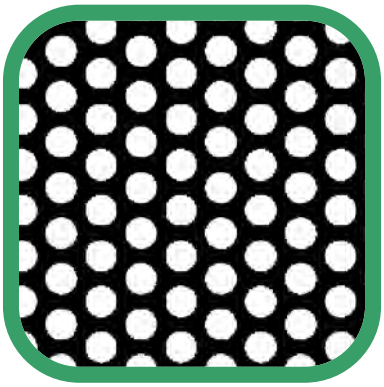


Rt sketch

Rt 3 – 5



Rt 4 – 5



Rt 4 – 6

Rt 5 – 6

Rt 5 – 8

Rt 6 – 8

Perforated metal sheets

ROUND HOLE STAGGERED ROWS

SENDZIMIR GALVANISED		Format 1000 x 2000 mm						1250 x 2500 mm					1500 x 3000 mm				
DX51D		Thickness in mm						Thickness in mm					Thickness in mm				
Perforation (mm)	Ao (%)	0.5	0.75	1	1.5	2	3	0.75	1	1.5	2	3	0.75	1	1.5	2	3
Rt 1 – 2	23		L	L													
Rt 1.5 – 2.5	33		L	L													
Rt 2 – 3	40			***L***													
Rt 2 – 3.5	30		L	L	L	L		L	L				L				
Rt 2.5 – 4	35			L					L					L			
Rt 3 – 4	51		L	***L***					L								
Rt 3 – 5	33	L	L	***L***	L	***L***		L	***L***	L			L	L	L		
Rt 4 – 6	40		L	L	L	L		L	L	L			L	L	L		
Rt 4 – 8	23			L					L					L			
Rt 5 – 7	46		L	L				L	L					L		L	
Rt 5 – 8	35	L	L	***L***	***L***	***L***	L	L	***L***	***L***	***L***			***L***	***L***	***L***	
Rt 6 – 8	51	L	L	L	L				L	L	L			L			
Rt 6 – 9	40		L	L	L					L							
Rt 7 – 10	44			***L***													
Rt 8 – 10	58		L					L	L					L			
Rt 8 – 12	40			***L***	***L***	***L***			L	***L***	***L***			L	***L***	***L***	
Rt 10 – 14	46			L	L	L			L		L						
Rt 10 – 15	40			***L***	***L***	***L***	L		L	***L***	***L***			L	***L***	***L***	
Rt 15 – 20	51				L					L	L					L	
Rt 20 – 25	58									L	***L***					***L***	
Rt 20 – 28	46				L	L				L	L						

ALUMINIUM		Format 1000 x 2000 mm						Format 1250 x 2500 mm					Format 1500 x 3000 mm				
AL99.5hh/EN AW1050A		Thickness in mm						Thickness in mm					Thickness in mm				
Perforation (mm)	Ao (%)	0.5	0.75	1	1.5	2	3	0.75	1	1.5	2	3	0.75	1	1.5	2	3
Rt 1 – 2	23			L													
Rt 1.5 – 2.5	33			L													
Rt 2 – 3	40			L													
Rt 2 – 3.5	30		L	***L***	L	L				L	L						
Rt 2.5 – 4	35				L												
Rt 3 – 4	51		L	L													
Rt 3 – 5	33		L	***L***	***L***	***L***		L	L	L	L			L	L	***L***	
Rt 4 – 5	58			L													
Rt 4 – 6	40		L	L	L	L		L	L	L	L			L	L		
Rt 5 – 7	46			L	L												
Rt 5 – 8	35		L	***L***	***L***	***L***	L	L	L	***L***	***L***	L		***L***	***L***	***L***	L
Rt 6 – 9	40			L	L	L					L					L	
Rt 8 – 12	40			L	***L***	***L***				L	***L***	L				***L***	
Rt 10 – 14	48			L	L	L	L			L							
Rt 10 – 15	40			L	L	***L***	L			L	***L***	L			L	***L***	L
Rt 15 – 20	51					L	L				L						
Rt 20 – 28	46					***L***					L	L				L	

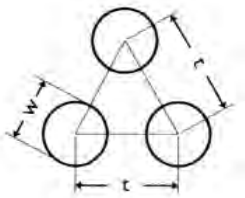
L = 24/48 hours supplier service all over Austria
L = Supply within 3 to max. 8 working days
Subject to change

>> STAINLESS STEEL Page 13

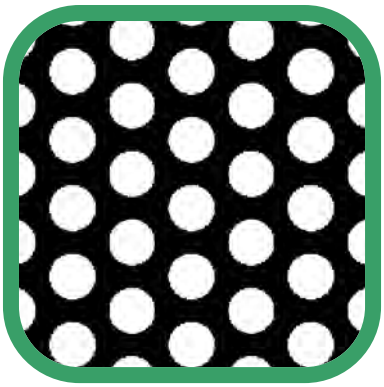
ATTENTION: Further tools or optional formats/actual measurements available on short notice

Perforated metal sheets

ROUND HOLE STAGGERED ROWS



Rt sketch

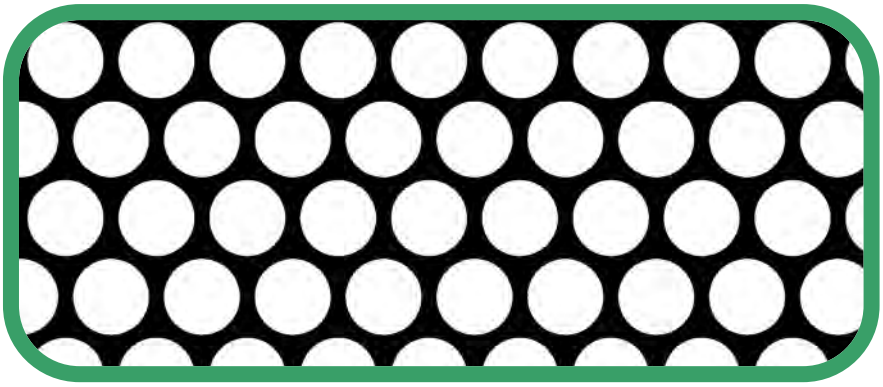


Rt 6 – 9

Rt 7 – 10

Rt 8 – 11

Rt 8 – 12



Rt 10 – 12

Perforated metal sheets

ROUND HOLE STAGGERED ROWS

All positions available sanded on one or both sides with supplier times 10-12 WD

STAINLESS STEEL		Format 1000 x 2000 mm								Format 1250 x 2500 mm				Format 1500 x 3000 mm			
1.4301/X5CrNi18-10		Thickness in mm								Thickness in mm				Thickness in mm			
Perforation (mm)	Ao (%)	0.5	0.75	1	1.5	2	3	4	5	1	1.5	2	3	1	1.5	2	3
Rt 0.6 – 1.25	21	0,4															
Rt 0.75 – 1.5	23	0,6															
Rt 1 – 2	23	L	***L***														
Rt 1.1 – 2	27		L														
Rt 1.25 – 2.5	23			L													
Rt 1.5 – 2.5	33	L	L	***L***													
Rt 1.5 – 3	23			L													
Rt 2 – 3	40			L	L												
Rt 2 – 3.5	30	L	L	***L***	***L***					L	L						
Rt 2.5 – 4	35			L													
Rt 3 – 4	51		L	L													
Rt 3 – 5	33	L	L	***L***	***L***	***L***	L			L	L	L		L	L		
Rt 3 – 6	23						L										
Rt 4 – 6	40		L	L	L	L				L	L	L		t			
Rt 4 – 7	30					L	L										
Rt 5 – 7	46	L		L	L												
Rt 5 – 8	35		L	***L***	***L****	***L***	***L***			***L***	***L***	***L***	L	L	***L***	L	
Rt 6 – 8	51		L	L	L												
Rt 6 – 9	40		L	L	L	L	L				L				L		
Rt 7 – 9	55					L											
Rt 7 – 10	44			L													
Rt 8 – 10	58		L	L	L												
Rt 8 – 11	48			L	L	L											
Rt 8 – 12	40			***L***	***L***	***L***	L			L	***L***	L		L	L		
Rt 10 – 14	46			L	L	L											
Rt 10 – 15	40			***L***	***L****	***L***	L	L	L	L	L	***L***			L	L	
Rt 12 – 16	51			L		L											
Rt 15 – 20	51				L	L											
Rt 20 – 28	46				L	L						L				L	
Rt 20 – 30	40					L											

*also available sanded on one side K 220 / K240 + foil
**also available sanded on both sides K 220 / K240 + foil

STAINLESS STEEL		Format 1000 x 2000 mm								Format 1250 x 2500 mm				Format 1500 x 3000mm			
1.4571/X6CrNiMoTi17-12-2		Thickness in mm								Thickness in mm				Thicknesse in mm			
Perforation (mm)	Ao (%)	0.5	0.75	1	1.5	2	3	4	5	1	1.5	2	3	1	1.5	2	3
Rt 1.25 – 2.5	23			L													
Rt 2 – 3.5	30			L	L												
Rt 3 – 5	33			L	L	L						L					
Rt 4 – 6	40			L	L	L				L	L			L			
Rt 5 – 8	35		L	L	L	L	L			L	L	L		L	L	L	
Rt 6 – 9	40				L	L											
Rt 8 – 12	40			L	L	L											
Rt 10 – 15	40			L	L	L					L						

L = 24/48 hours supplier service all over Austria
L = Supply within 3 to max. 8 working days
Subject to change

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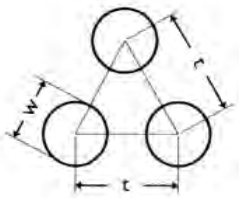
Perforated metal sheets

ROUND HOLE STAGGERED ROWS



Rt sketch

Rt 10 – 15

Rt 10 – 18

Rt 12 – 15

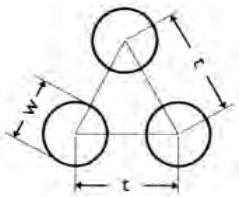
Rt 12 – 16

Rt 15 – 21

Rt 20 – 25

Perforated metal sheets

ROUND HOLE STAGGERED ROWS



Rt sketch

Rt 20 – 28

Rt 20 – 30

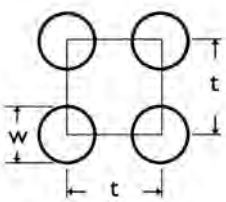
Rt 20 – 40

Rt 25 – 32

Rt 30 – 40

Perforated metal sheets

ROUND HOLE STRAIGHT ROWS



Ru sketch

Ru 4.5 – 15

Ru 4.5 Euro

Ru 5 – 25

Ru 10 – 20

Ru 15 – 35

Ru 15 – 36

Perforated metal sheets

ROUND HOLE STRAIGHT ROWS

STEEL		Format 1000 x 2000 mm					Format 1250 x 2500 mm					Format 1500 x 3000 mm				
DC01/DD11/S235JR		Thickness in mm					Thickness in mm					Thickness in mm				
Perforation (mm)	Ao (%)	0.75	1	1.5	2	3	0.75	1	1.5	2	3	0.75	1	1.5	2	3
Ru 4.5 – 15	7		L	L				L	L				L	L		
Ru 4.5 Euro	7		L	L					L							
Ru 4.5 – 25	3			L	L				L							
Ru 5 – 8	31		L	L												
Ru 5 – 15	9		L	L												
Ru 5 Euro	8		L	L					L							
Ru 5 – 25	3		L	L				L								
Ru 10 – 15	35			L												
Ru 10 – 20.78	18				L					L					L	
Ru 15 – 36.38	13				L					L						
Ru 20 – 48.5	13			L	L				L	L				L	L	

SENDZIMIR GALVANISED		Format 1000 x 2000 mm					Format 1250 x 2500 mm					Format 1500 x 3000 mm				
DX51D		Thickness in mm					Thickness in mm					Thickness in mm				
Perforation (mm)	Ao (%))	0.75	1	1.5	2	3	0.75	1	1.5	2	3	0.75	1	1.5	2	3
Ru 4.5 – 15	7		L	L					L					L		
Ru 5 – 8	31		L	L												
Ru 8 – 17.32	17			L												
Ru 10 – 20.78	18				L					L					L	
Ru 15 – 36.38	13			L												
Ru 20 – 48.5	13			L	L				L	L				L	L	

ALUMINIUM		Format 1000 x 2000 mm					Format 1250 x 2500 mm					Format 1500 x 3000 mm				
AL99.5hh/EN AW1050A		Thickness in mm					Thickness in mm					Thickness in mm				
Perforation (mm)	Ao (%))	0.75	1	1.5	2	3	0.75	1	1.5	2	3	0.75	1	1.5	2	3
Ru 4.5 – 15	7			L	L				L	L					L	
Ru 5 – 8	31		L	L												
Ru 5 – 12	14		L	L												
Ru 8 – 17.32	17				L											
Ru 10 – 15	35				L											
Ru 10 – 20.78	18				L					L					L	
Ru 10 – 25.98	12				L					L						
Ru 15 – 34.64	15				L					L						
Ru 15 – 36.38	13				L					L						
Ru 20 – 48.5	13				L					L					L	

All positions possible sanded on one or both sides with supplier times 10-12 WD possible

STAINLESS STEEL		Format 1000 x 2000 mm					Format 1250 x 2500 mm					Format 1500 x 3000 mm				
1.4301/X5CrNi18-10		Thickness in mm					Thickness in mm					Thickness in mm				
Perforation (mm)	Ao (%)	0.75	1	1.5	2	3	0.75	1	1.5	2	3	0.75	1	1.5	2	3
Ru 4.5 – 15	7			L*/**					L*/**							
Ru 8 – 17.32	17			L**												
Ru 10 – 15	40			L*/**					L*							
Ru 10 – 20.78	18			L**					L**							
Ru 10 – 25.98	12			L*/**					L**							
Ru 15 – 36.38	13			L**												
Ru 20 – 48.5	13			L*/**					L**							

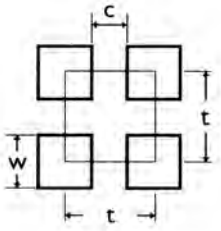
*also in stock sanded on one side K 220 / K240 + foil
**also in stock sanded on both sides K 220 / K240 +

L = Supply within 3 to max. 8 working days
Subject to change

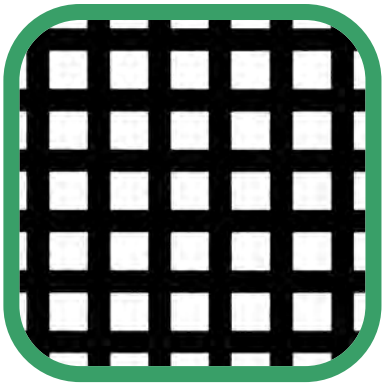
ATTENTION: Further tools or optional formats/actual measurements available on short notice

Perforated metal sheets

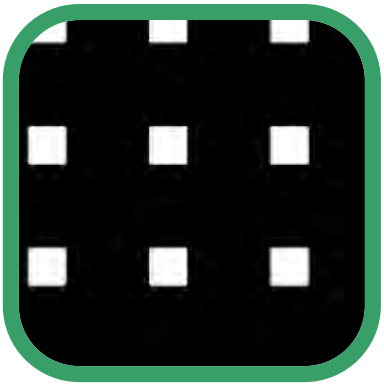
SQUARE PERFORATION STRAIGHT ROWS



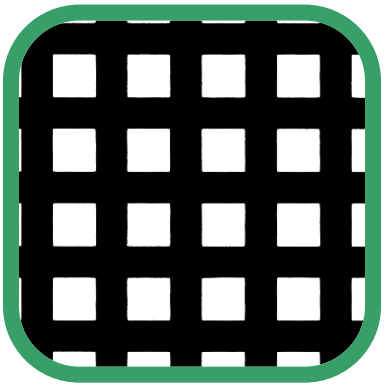
Cu sketch



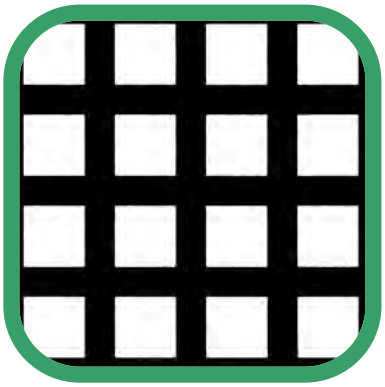
Cu 5 – 8



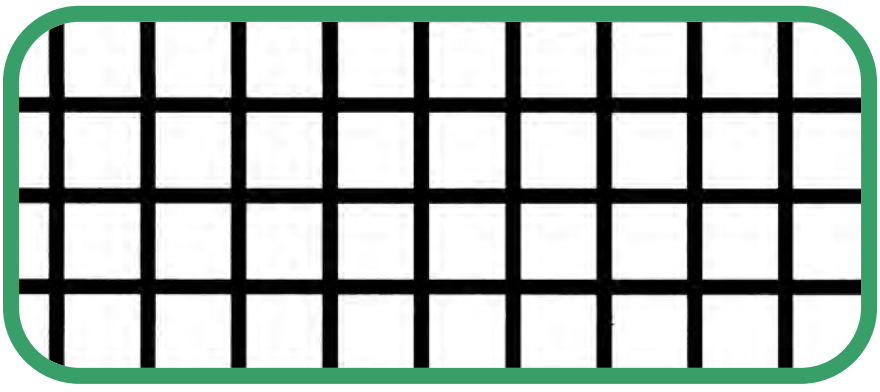
Cu 5 – 16



Cu 7 – 10



Cu 8 – 12



Cu 10 – 12

Perforated metal sheets

SQUARE PERFORATION STRAIGHT ROWS

STEEL		Format 1000 x 2000 mm				Format 1250 x 2500 mm				Format 1500 x 3000 mm			
DC01/DD11/S235JR		Thickness in mm				Thickness in mm				Thickness in mm			
Perforation (mm)	Ao (%)	1	1.5	2	3	1	1.5	2	3	1	1.5	2	3
Cu 4 – 7	32	L	L			L							
Cu 5 – 7	51	L	L	L									
Cu 5 – 7.5	44	L	L	L		L	L	L					
Cu 5 – 8	39	***L***	***L***	L		L	***L***	L		L	L		
Cu 5 – 16	10	L	L			L	L						
Cu 6 – 9	44	L	L	L			L	L					
Cu 7 – 10	49	***L***											
Cu 8 – 10	64	L	L	***L***			L	L			L		
Cu 8 – 12	44	***L***	***L***	***L***	L	L	L	L		L	L	L	
Cu 10 – 12	69	***L***	L	L			L	L			L	L	
Cu 10 – 14	51	***L***	***L***	L	L	L	L	L			L	L	
Cu 10 – 15	44	***L***	***L***	***L***	L	L	L	***L***	L	L	***L***	***L***	L
Cu 10 – 30	11	L	L	L				L				L	
Cu 15 – 20	56	L	L	L	L		L	L				L	
Cu 20 – 25	64	L	L	L	L		L	L					
Cu 20 – 50	16			L				L				L	
Cu 25 – 30	69	L	L	L				L					

SENDZIMIR GALVANISED		Format 1000 x 2000 mm				Format 1250 x 2500 mm				Format 1500 x 3000 mm			
DX51D		Thickness in mm				Thickness in mm				Thickness in mm			
Perforation (mm)	Ao(%))	1	1.5	2	3	1	1.5	2	3	1	1.5	2	3
Cu 5 – 7.5	44	L	L	L									
Cu 5 – 8	39	***L***	***L***	L		L	L						
Cu 7 – 10	49	***L***				***L***							
Cu 8 – 10	64	L	L	L		L	L			L			
Cu 8 – 12	44	***L***	L	L			L	L			L		
Cu 10 – 12	69	***L***	L	L		L	L	L		L	L		
Cu 10 – 14	51	***L***	***L***	L		***L***	L	L		L	L	L	
Cu 10 – 15	44	***L***	***L***	***L***	L	L	***L***	***L***		L	***L***	***L***	
Cu 20 – 50	16		L				***L***						

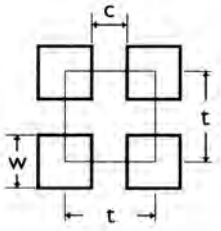
L = 24/48 hours supplier service all over Austria
L = Supply within 3 to max. 8 working days
Subject to change

>> STAINLESS STEEL >> ALUMINIUM next page

ATTENTION: Further tools or optional formats/actual measurements available on short notice

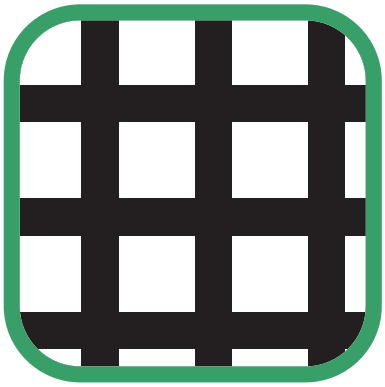
Perforated metal sheets

SQUARE PERFORATION STRAIGHT ROWS



Cu sketch

Cu 10 – 14



Cu 10 – 15

Cu 10 – 30

Cu 15 – 40

Cu 20 – 50

Perforated metal sheets

SQUARE HOLE STRAIGHT ROWS

ALUMINIUM		Format 1000 x 2000 mm				Format 1250 x 2500 mm				Format 1500 x 3000 mm			
AL99.5hh/EN AW1050A		Thickness in mm				Thickness in mm				Thickness in mm			
Perforation (mm)	Ao (%)	1	1.5	2	3	1	1.5	2	3	1	1.5	2	3
Cu 4 – 7	32		L										
Cu 5 – 7.5	44	L	L	L									
Cu 5 – 8	39	***L***	L	L		L	L	L					
Cu 5 – 16	10			L				L				L	
Cu 6 – 9	44		L	L									
Cu 7 – 10	49	***L***				L							
Cu 8 – 10	64		L	L									
Cu 8 – 12	44	L	L	L				L				L	
Cu 10 – 12	69		L	L			L				L		
Cu 10 – 14	51	L	L	L		L	L	L			L	L	
Cu 10 – 15	44	***L***	***L***	***L***	L		L	***L***	L		L	L	
Cu 10 – 30	11			***L***				***L***				***L***	
Cu 15 – 40	14			L				L				L	
Cu 20 – 50	16			***L***				***L***				***L***	
Cu 25 – 70	13			L				L					

All positions possible sanded on one or both sides with supplier times 10-12 WD possible

STAINLESS STEEL		Format 1000 x 2000 mm				Format 1250 x 2500 mm				Format 1500 x 3000 mm			
1.4301/X5CrNi18-10		Thickness in mm				Thickness in mm				Thickness in mm			
Perforation (mm)	Ao (%)	1	1.5	2	3	1	1.5	2	3	1	1.5	2	3
Cu 5 – 7.5	51	L											
Cu 5 – 7.5	44	L	L										
Cu 5 – 8	39	***L***	***L***	L		L	L			L			
Cu 5 – 16	10		L*/**				L*/**						
Cu 8 – 10	64	L	L				L						
Cu 8 – 12	44	L	***L***	L		L	L				L		
Cu 10 – 12	69	***L***	L				L				L		
Cu 10 – 14	51	L	L	L		L	L			L	L		
Cu 10 – 15	44	***L***	***L*/****	***L***		L	L*/**	L			L	L	
Cu 10 – 30	11		***L****				L*/**				L*/**		
Cu 15 – 40	14		L*/**				L*/**				L*/**		
Cu 20 – 50	16		***L****				L*/**				L*/**		

*in stock sanded on one side K 220 / K240 + foil
**also in stock sanded on both sides K 220 / K240 + foil

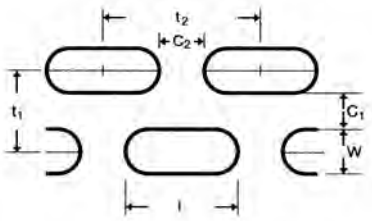
STAINLESS STEEL		Format 1000 x 2000 mm				Format 1250 x 2500 mm				Format 1500 x 3000 mm			
1.4571/X6CrNiMoTi17-12-2		Thickness in mm				Thickness in mm				Thickness in mm			
Perforation (mm)	Ao (%)	1	1.5	2	3	1	1.5	2	3	1	1.5	2	3
Cu 5 – 7.5	44	L											
Cu 5 – 8	39	L	L	L									
Cu 8 – 10	64	L											
Cu 8 – 12	44			L									
Cu 10 – 12	69	L											
Cu 10 – 14	51		L	L			L						
Cu 10 – 15	44	L	L	L									

L = 24/48 hours supplier service all over Austria
L = Supply within 3 to max. 8 working days
Subject to change

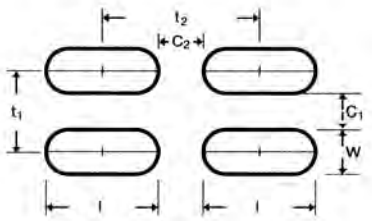
ATTENTION: Further tools or optional formats/actual measurements available on short notice

Perforated metal sheets

SLOTTED PERFORATION STAGGERED / STRAIGHT ROWS



Lr-z sketch



Lr-u sketch

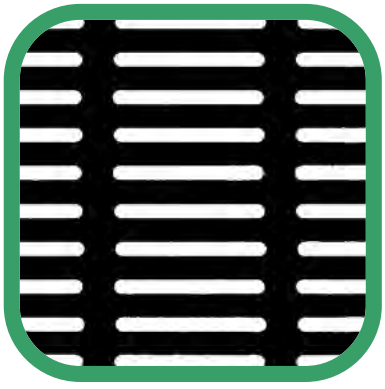
Lr-z 2 x 20 / 5 x 24

Lr-z 3 x 20 / 7 x 25

Lr-z 5 x 20

Lr-z 4 x 20

Lr+u 10 x 30



Lr-u 2 x 20

Perforated metal sheets

SLOTTED PERFORATION STAGGERED / STRAIGHT ROWS

STEEL		Format 1000 x 2000 mm					Format 1250 x 2500 mm					Format 1500 x 3000 mm				
DC01/DD11/S235JR		Thickness in mm					Thickness in mm					Thickness in mm				
Perforation (mm)	Ao (%)	0.75	1	1.5	2	3	0.75	1	1.5	2	3	0.75	1	1.5	2	3
Lr-z 1x20/4.2x25	26		L													
Lr-z 1.5x20/5.5x25	22		L													
Lr-z 2x20/6x25	37		L													
Lr-z 2.5x20/6x25	38		L													
Lr-z 3x20/7x25	40		L	L												
Lr-z 3.5x20/8x25	40		L													
Lr-z 4x20/8.5x25	40		L													
Lr-z 5.5x25/10x30	40		L	L												
Lr-z 8x40/16x50	38				L											
Lr-u 4 x 20	40		L	L	L											
Lr-u 4 x 40	45		L	L	L											
Lr-u 5 x 25	48		L	L	L											
Lr-u 6 x 25	53		L	L	L											
Lr-u 7 x 30	45		L	L	L											
Lr-u 9 x 30	49		L	L	L											
Lr-u 10 x 30	55		L	L	L											

All tools available for optional formats/actual measurements available on short notice, as under steel.

ALUMINIUM		Format 1000 x 2000 mm					Format 1250 x 2500 mm					Format 1500 x 3000 mm				
Al99,5hh/EN AW1050A		Thickness in mm					Thickness in mm					Thickness in mm				
Perforation (mm)	Ao(%)	0.75	1	1.5	2	3	0.75	1	1.5	2	3	0.75	1	1.5	2	3
Lr-z 3x20/6x24	40		L		L											
Lr-z 5x20/8.5x25	44				L											
Lr-z 5x25/10x30	40			L												

All tools for optional formats in aluminium available on short notice, as under steel.

STAINLESS STEEL		Format 1000 x 2000 mm					Format 1250 x 2500 mm					Format 1500 x 3000 mm				
1.4301/X5CrNi18-10		Thickness in mm					Thickness in mm					Thickness in mm				
Perforation (mm)	Ao(%)	0.75	1	1.5	2	3	0.75	1	1.5	2	3	0.75	1	1.5	2	3
Lr-z 5x20/8.5x25	44			L												

All tools for optional formats in stainless steel available on short notice, as under steel.

L = Supply within 3 to max. 8 working days
Subject to change

Perforated metal sheets

PRESSED METAL SHEETS / EMBOSSED METAL SHEETS

Embossed metal sheet square

Embossed metal sheet square

Embossed metal sheet round

Perforated metal sheets

PRESSED METAL SHEETS / EMBOSSED METAL SHEETS

The following embossments are manufactured in serial production:

D: 3 – 8 working days
Formats:1000 x 2000 mm | 1250 x 2500 mm | 1500 x 3000 mm | + actual measurements
Thickness: 1 to 3 mm (everything above upon request)
Materials: Steel | Sendzimir galvanised | Aluminium | Stainless steel sanded /3D + foil

EMBOSSMENT (MM)	Partition A	Partition B	Partition C	Partition D
Round diameter 10	20	25	30	40
Round diameter 15	30	45	60	
Round diameter 20	30	40	50	60
Round diameter 30	45	60		
Round diameter 40	60	80		
Round diameter 50	75	100		

Partitions: Standard = Ru = arranged in straight rows.
Arrangements: Rt/Rm = 60/45 degrees staggered, possible any time.

EMBOSSMENT (MM)	Partition A	Partition B	Partition C	Partition D
Square diameter 10	20	25	30	40
Square diameter 15	30	45	60	
Square diameter 20	30	40	50	60
Square diameter 30	45	60		
Square diameter 40	60	70	80	

Partitions: Standard = Cu = arranged in straight rows.
Partitions: Cz/Cd = 60 degrees staggered/diagonal possible any time.

Embossment tools: Production with variable partitions possible at short notice.

Slotted hole 6 x 25 mm		Rectangular hole 10 x 50 mm	
Slotted hole 7 x 30 mm		Rectangular hole 15 x 55 mm	
Slotted hole 8 x 25 mm		Further tools available	
Slotted hole 9 x 40 mm			
Slotted hole 10 x 30 mm			
Slotted hole 11 x 50 mm			

ATTENTION: All embossments are produced for **visual** applications.

Perforated metal sheets

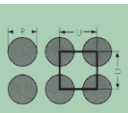
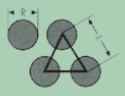
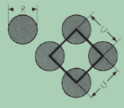
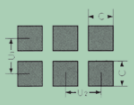
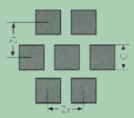
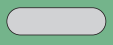
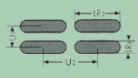
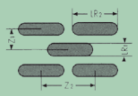
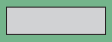
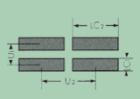
PERFORATION FORMS AND PERFORATION POSITIONS

HOLE SHAPES

We differentiate between 5 hole shapes:

HOLE POSITIONS

The various hole positions are marked as follows:

SYMBOL	CODE	EXPLANATION	SYMBOL	CODE	EXPLANATION
	**R**	Round perforation		**Ru**	Round hole in **straight** rows
				**Rt**	Round hole in **staggered** rows
				**Rm**	Round hole in **diagonal staggered** rows
	**C**	Square perforation hole side **parallel** to the metal sheet		**Cu**	Square perforation in **straight** rows
				**Cz**	Square perforation in **staggered** rows
	**Cd**	Square perforation hole side **diagonal** to the metal sheet		**Cd**	Square perforation in **diagonal staggered** rows
	**L**	Slotted perforation with **round** corners		**Lru**	Slotted perforation in **straight** rows
				**Lrz**	Slotted perforation in **staggered** rows
	**Lc**	Slotted perforation with **sharp** corners		**Lcu**	Slotted perforation, angular in **straight** rows

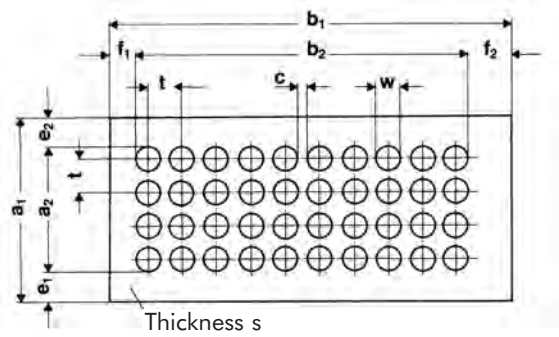
Perforated metal sheets

ROUND PERFORATION

Round perforation in straight rows

Relative free perforation area:

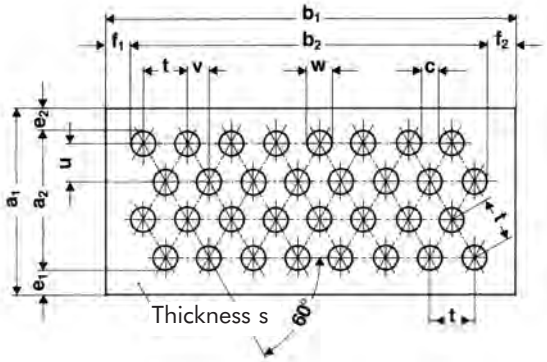
$$a_o = \frac{78.5 \cdot w^2}{t^2} \text{ in \%}$$



Round perforation in staggered rows

Relative free perforation area:

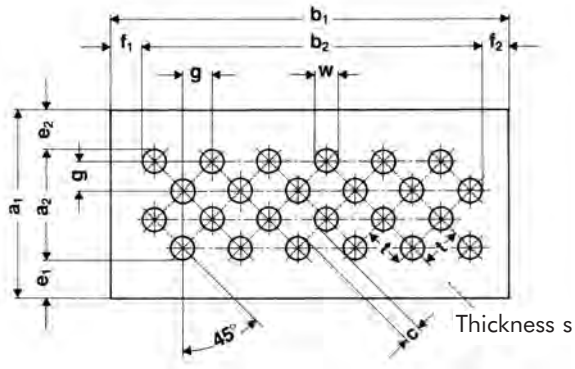
$$a_o = \frac{90.7 \cdot w^2}{t^2} \text{ in \%}$$



Round perforation in diagonally staggered rows

Relative free perforation area:

$$a_o = \frac{78.5 \cdot w^2}{t^2} \text{ in \%}$$



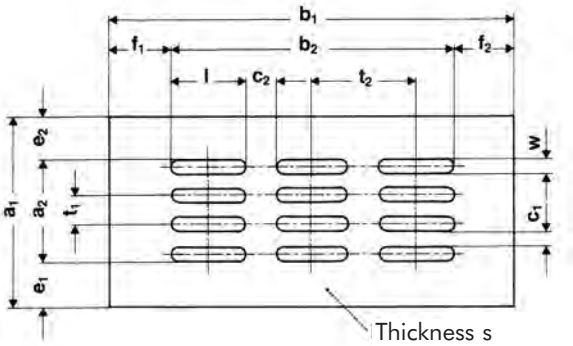
Perforated metal sheets

SLOTTED PERFORATION

Slotted perforation in straight rows

Relative free perforation area:

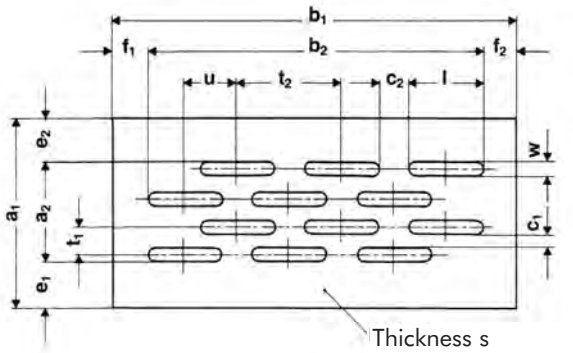
$$a_o = \frac{w \cdot l - 0.215w^2}{t^2 \cdot t^2} \cdot 100 \text{ in } \%$$



Slotted perforation in staggered rows

Relative free perforation area:

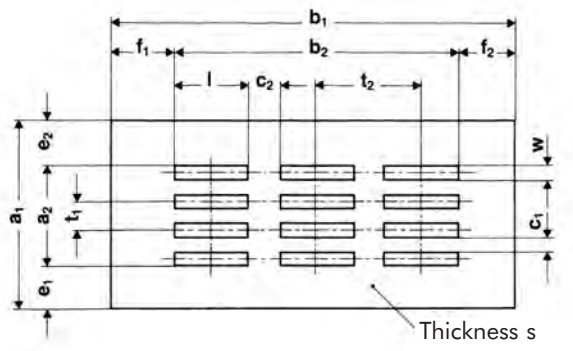
$$a_o = \frac{w \cdot l - 0.215w^2}{t_1 \cdot t_2} \cdot 100 \text{ in } \%$$



Slotted perforation in straight rows, angular

Relative free perforation area:

$$a_o = \frac{w \cdot l}{t_1 \cdot t_2} \cdot 100 \text{ in } \%$$



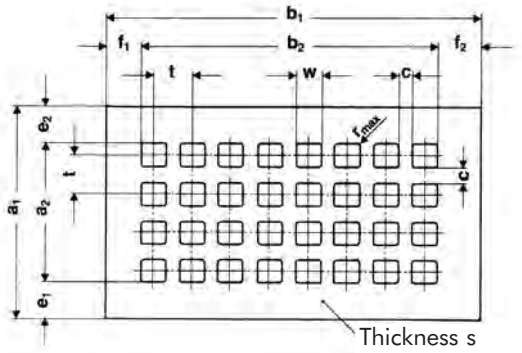
Perforated metal sheets

SQUARE PERFORATION

Square perforation in straight rows

Relative free perforation area:

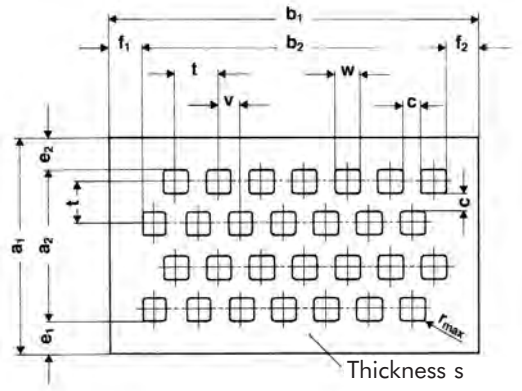
$$a_o = \frac{100 \cdot w^2}{t^2} \text{ in \%}$$



Square perforation in staggered rows

Relative free perforation area:

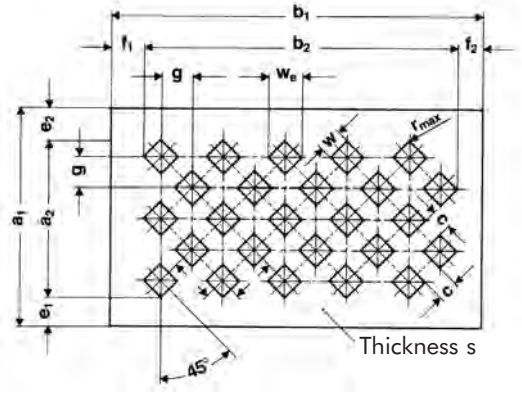
$$a_o = \frac{100 \cdot w^2}{t_2} \text{ in \%}$$



Square perforation in diagonally staggered rows

Relative free perforation area:

$$a_o = \frac{100 \cdot w^2}{t_2} \text{ in \%}$$



Perforated metal sheets

STANDARDS / TOLERANCES

General

The term "perforated plate" (perforated metal sheet) is defined in the DIN-standard 24041:2002-12 and in DIN 4185 part 2. We use the DIN-tolerances to take into consideration the different factors that impact the accuracy of the perforated sheets. Dimensional deviations for perforated metal sheets are evident in DIN 24041. Deviations from the nominal dimension may occur due to raw material tolerances, perforation and subsequent machine straightening.

Length and width

Metal sheets and plates with fixed dimensions do not undergo additional cutting after perforation and straightening. The deviations may be bigger than the steelwork tolerances

Measurement plate length or plate width	Permissible tolerance at material thickness up to 5 mm	Permissible tolerance at material thickness up to 5 mm
up to 100 mm	+/_ 0.8 mm	+/_ 1.5 mm
above 100 to 300 mm	+/_ 1.2 mm	+/_ 2.0 mm
above 300 to 1000 mm	+/_ 2.0 mm	+/_ 3.0 mm
above 300 to 2000 mm	+/_ 3.0 mm	+/_ 5.0 mm
above 1000 to 4000 mm	+/_ 4.0 mm	+/_ 8.0 mm
above 2000 to 4000 mm	+/_ 5.0 mm	+/_ 10.0 mm

Perpendicularity of cut plates

In the course of the perforation process, the perforated field is expanded, i.e. the metal sheet's length and width change. The finishing treatment, in particular, straightening, results in expansions in the perforated field. The degree of change depends on factors such as e.g. hole size, hole arrangement, thickness and type of material, and it is therefore difficult to determine the change in advance.

Material thickness	Permissible perpendicularity tolerance
up to 5 mm	+/– 0.5 degrees (= 0.9 mm for every 100 mm length)
above 5 mm to 15 mm	+/– 0.5 degrees (= 0.9 mm for every 100 mm length)
above 15 mm to 25 mm	+/– 0.5 degrees (= 0.9 mm for every 100 mm length)

Permissible deviations regarding the width of the unperforated edges for fixed dimensions

Division – t	Permissible deviations for e1, e2, f1, f2
up to 5 mm	+/_ 5 mm
above 5 to 20 mm	+/_ 10 mm
above 20 mm	+/_ t/2

Edge bows

Edge bows may occur on perforated sheets. This results in a deviation between the metal sheet's edges and the middle of its end. Permissible deviations: up to a metal thickness of 3 mm – max. 1.5% of the total length; above a metal sheet thickness of 3 mm – max. deviation 2% of the total length.

Perforated metal sheets

STANDARDS / TOLERANCES

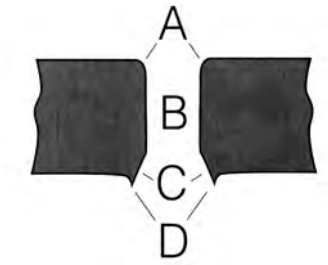
CUTTING BURR AND SHEARING BURR

The page usually shown in the drawing of a perforated sheet (top view) is the side of the stamp entry. The cutting burr is on the bottom side. The burr side must be expressly listed for assymetric metal sheets and parts with respective further processing. The burr is generally on the same side as the burr side. In the course of certain activities with scissors, the cutting burr may be on the opposite side. If the shearing burr and the cutting burr must be on the same side, this must be explicitly agreed in advance.

Permitted burr height under regular hole conditions

Sheet thickness	Burr height
up to 0.6 mm	0.15 mm*
above 0.6 mm to 1.5 mm	0.17 mm*
above 1.5 mm to 3.0 mm	0.20 mm*
above 3.0 mm to 6.0 mm	0.25 mm*
above 6.0 mm	0.50 mm*

*Non-corrosive steel +50%



Up to 10% of the perforated surface or 10% of the number of holes may be outside these tolerances. The burr can be pushed back into the hole in the course of the straightening process.

Evenness

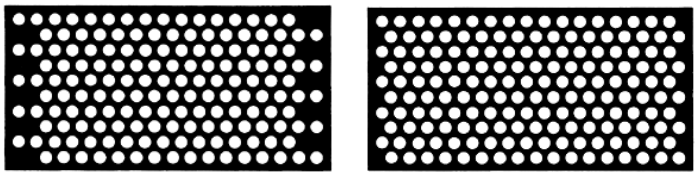
Perforated metal sheets can be machine-straightened. There are 3 supply conditions:

a) not straightened
b) straightened by means of machines
c) precision-straightened

Perforated sheets are generally straightened 1x by means of machines in order to ensure the evenness tolerances required in accordance with DIN. As a result of margins of different sizes, unperforated areas, high passage, certain materials, residual stress in the metal sheet cannot be excluded. Special requirements with regards to evenness are subject to individual agreements.

Beginning and end of perforation field

During the perforation process the stamp may break partially or fully. In order to prevent tool breakage, the stamps are generally arranged in a staggered way. This results in the first and last perforation row in advance direction being incomplete.



ProMetall

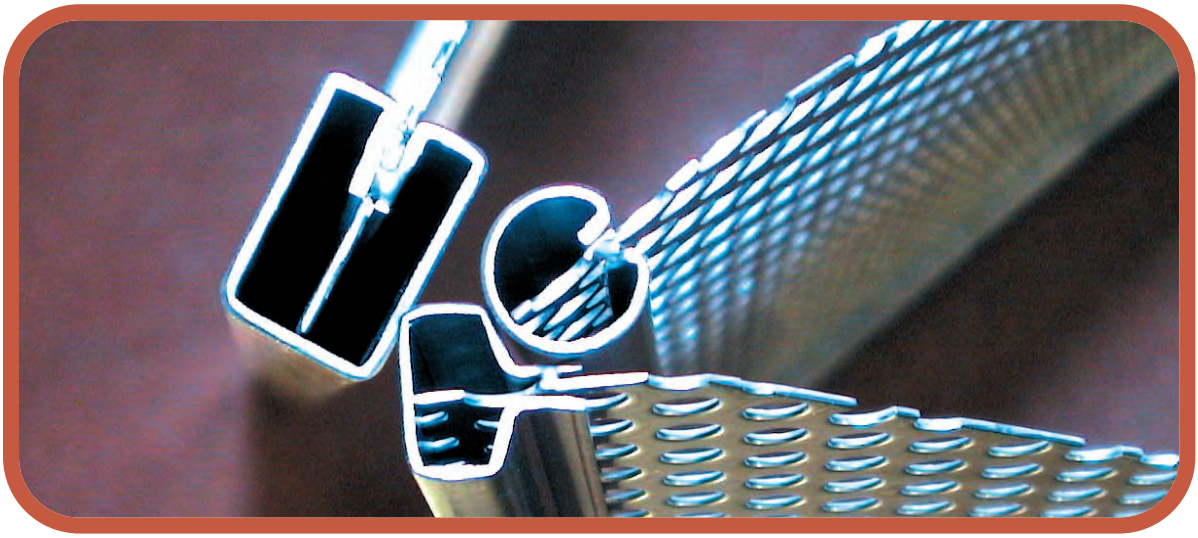
Profile edgings

from the experts

Profile edgings

E 20 x 20 Profile

R 18 Profile



Profile edgings

WAREHOUSE PROGRAMME / SUPPLIER PROGRAMME

Profile edgings for perforated metal sheets

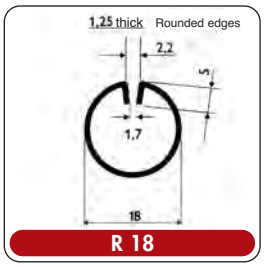
Your advantage: All positions available at all times! Rod length generally 3000 mm

Description ProMetall	Slot width (mm)	Wall thickness (mm)	Material St37-2	Weight (kg/lfm)
R 18 – 1.7	1.70	1.25	St37-2	0.46
E 20 x 20 – 1.7	1.70	1.25	St37-2	0.53
R 27 – 1.7	1.70	1.50	St37-2	1.15
E 20 x 30 – 1.7	1.70	1.50	St37-2	1.27

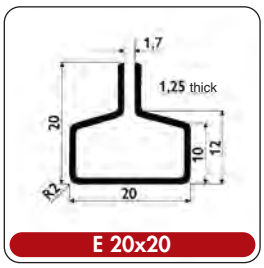
R 18 – 1.7	1.70	1.25	SVZ	0.46
E 20 x 20 – 1.7	1.70	1.25	SVZ	0.53
R 27 – 1.7	1.70	1.50	SVZ	1.15
E 20 x 30 – 1.7	1.70	1.50	SVZ	1.27

R 18 – 1.7	1.70	1.25	Al 99.5	0.16
E 20 x 20-1.7	1.70	1.25	Al 99.5	0.19
R 27 – 1.7	1.70	1.50	Al 99.5	0.45
E 20 x 30 – 1.7	1.70	1.50	Al 99.5	0.45

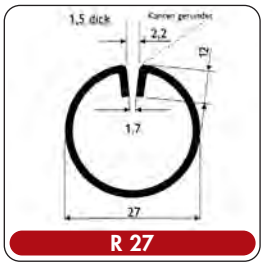
R 18 – 1.7	1.70	1.25	1.4301	0.46
R 18 – 1.7	1.70	1.25	1.4301 sanded	0.46
E 20 x 20 – 1.7	1.70	1.25	1.4301	0.53
R 27 – 1.7	1.70	1.50	1.4301	1.15
R 27 – 1.7	1.70	1.50	1.4301 sanded	1.15
E 20 x 30 – 1.7	1.70	1.50	1.4301	1.27
E 20 x 30 – 1.7	1.70	1.50	1.4301 sanded	1.27



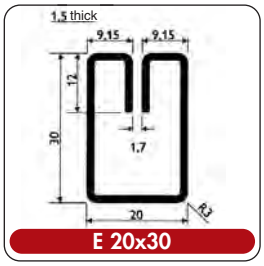
R 18



E 20x20



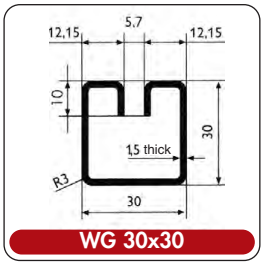
R 27



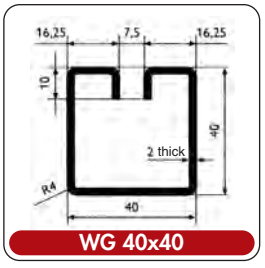
E 20x30

Profile edgings for crimp screens and expanded metal

WG 30 x 30	5.7	1.5	St37-2	1.48
WG 40 x 40	7.5	2	St37-2	2.47

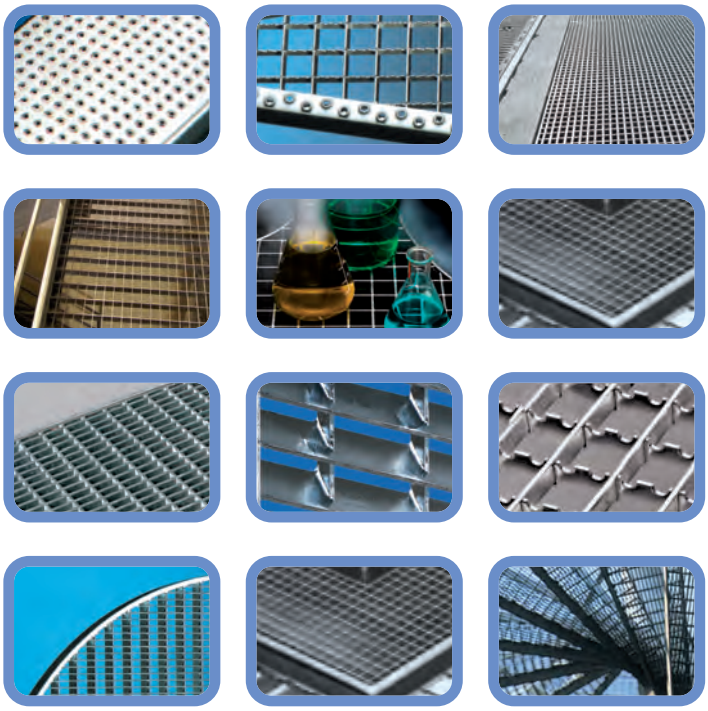


WG 30x30



WG 40x40

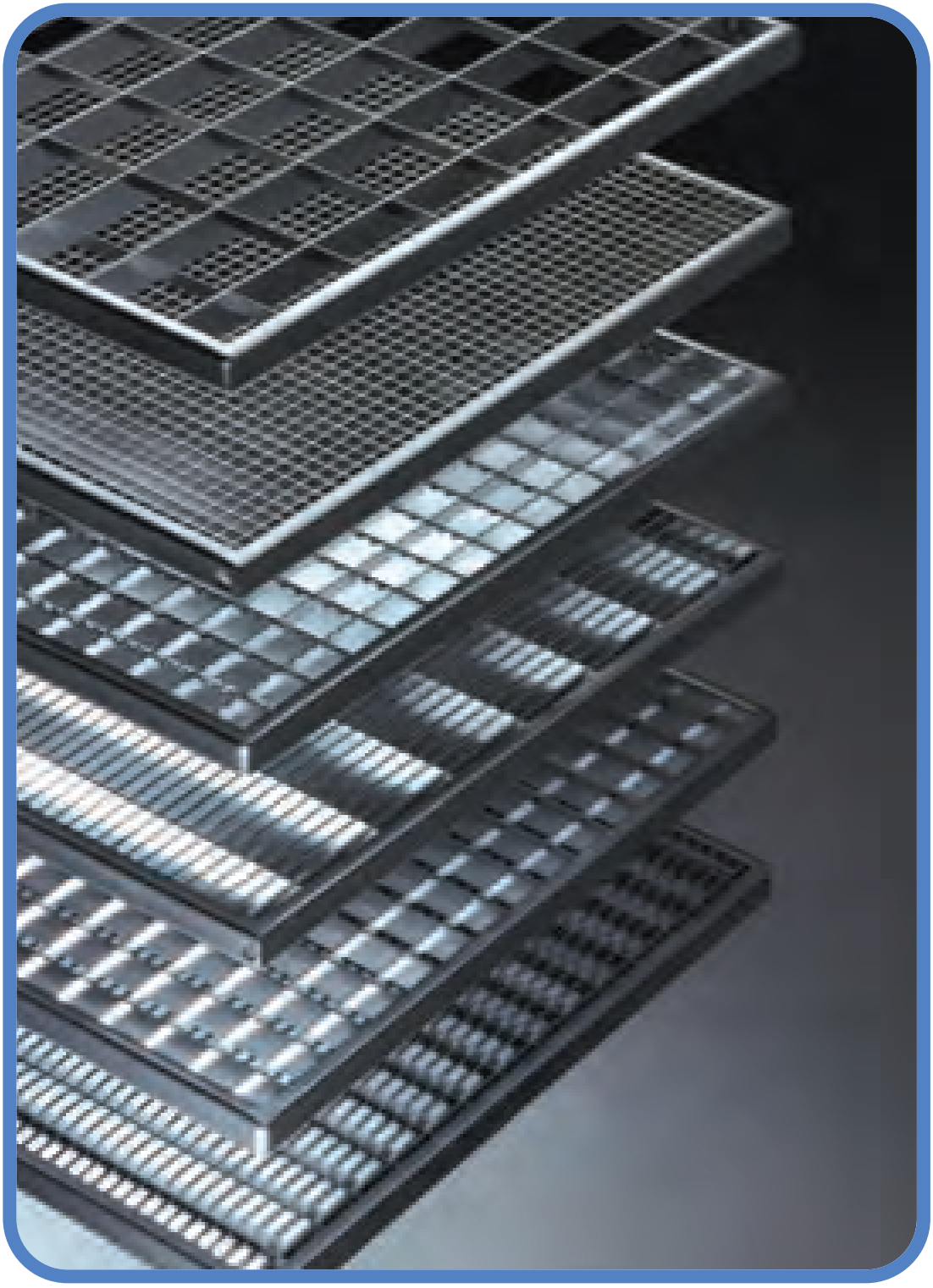
ProMetall Design instead of average



Gratings

from the experts

Gratings

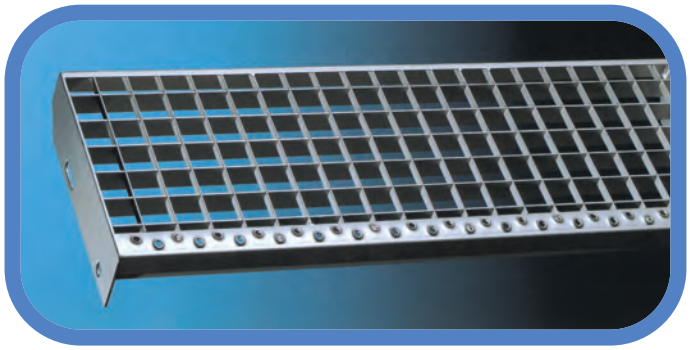


Gratings

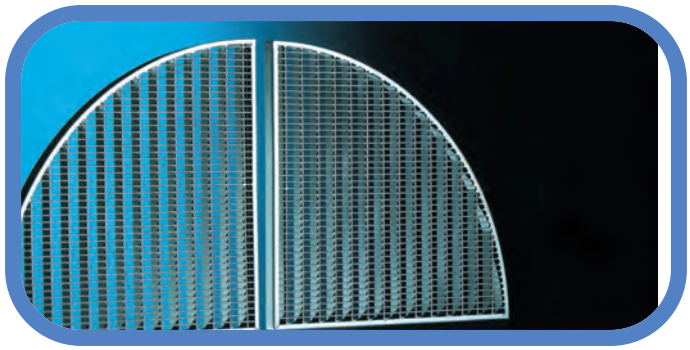
WAREHOUSE / SUPPLIER / PRODUCTION PROGRAMME

WAREHOUSE PROGRAMME	bold italics "***L***"
	24- hour supplier programme everywhere in Austria
SUPPLIER PROGRAMME	regular "L" = supply within max. 5-7 working days

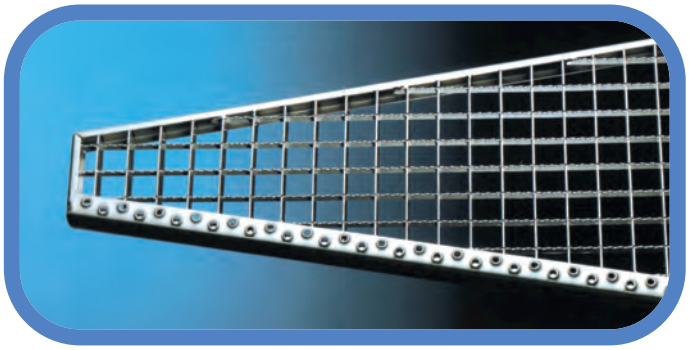
Press-locked gratings



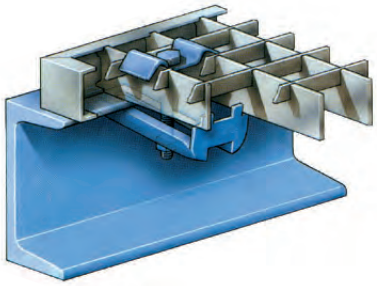
ProMetall Standard gratings-stairtreads



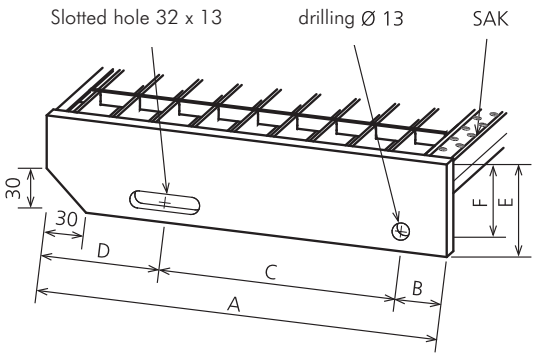
ProMetall Standard gratings-pedestals



ProMetall Trapezoidal stairtreads for spiral staircase



ProMetall Fixing clip*
*further mounting material see page 69



"Perforation pattern side plates for standard stairtreads made of high-solid high-strength steel strip"
*Chart side plate measurements see page 70

Press-locked gratings

HIGH-SOLID HIGH-STRENGTH STEEL STRIP

WAREHOUSE PROGRAMME / SUPPLIER PROGRAMME

Industry-standard press-locked gratings by ProMetall, High-Solid high-strength steel strip, hot-dip-galvanised in accordance with DIN EN ISO 1461

STAIRTREADS (MM)	Mesh	BB	Delivery
500 x 195	31 x 31	25 x 2	L
500 x 195	31 x 9	25 x 2	X
600 x 195	31 x 31	25 x 2	*L*
600 x 195	31 x 9	25 x 2	X
600 x 240	31 x 31	25 x 2	*L*
600 x 240	31 x 9	25 x 2	X
600 x 270	31 x 31	25 x 2	*L*
600 x 270	31 x 9	25 x 2	X
600 x 305	31 x 31	25 x 2	L
600 x 305	31 x 9	25 x 2	X
700 x 195	31 x 31	25 x 2	L
700 x 195	31 x 9	25 x 2	X
700 x 240	31 x 31	25 x 2	*L*
700 x 240	31 x 9	25 x 2	X
800 x 195	31 x 31	25 x 2	*L*
800 x 195	31 x 9	25 x 2	L
800 x 240	31 x 31	25 x 2	*L*
800 x 240	31 x 9	25 x 2	*L*
800 x 270	31 x 31	25 x 2	*L*
800 x 270	31 x 9	25 x 2	*L*
800 x 305	31 x 31	25 x 2	*L*
800 x 305	31 x 9	25 x 2	*L*
900 x 195	31 x 31	30 x 2	L
900 x 195	31 x 9	30 x 2	X
900 x 240	31 x 31	30 x 2	*L*
900 x 240	31 x 9	30 x 2	X
900 x 270	31 x 31	30 x 2	*L*
900 x 270	31 x 9	30 x 2	*L*
900 x 305	31 x 31	30 x 2	L
900 x 305	31 x 9	30 x 2	X
1000 x 195	31 x 31	30 x 2	L
1000 x 195	31 x 9	30 x 2	X
1000 x 240	31 x 31	30 x 2	*L*
1000 x 240	31 x 9	30 x 2	*L*
1000 x 270	31 x 31	30 x 2	*L*
1000 x 270	31 x 9	30 x 2	*L*
1000 x 305	31 x 31	30 x 2	*L*
1000 x 305	31 x 9	30 x 2	*L*
1100 x 195	31 x 31	40 x 2	L
1100 x 240	31 x 31	40 x 2	L
1100 x 270	31 x 31	40 x 2	L
1100 x 270	31 x 9	40 x 2	L
1100 x 305	31 x 31	40 x 2	L
1100 x 305	31 x 9	40 x 2	L
1200 x 195	31 x 31	40 x 2	L
1200 x 195	31 x 9	40 x 2	X
1200 x 240	31 x 31	40 x 2	L
1200 x 240	31 x 9	40 x 2	L
1200 x 270	31 x 31	40 x 2	*L*
1200 x 270	31 x 9	40 x 2	*L*
1200 x 305	31 x 31	40 x 2	*L*
1200 x 305	31 x 9	40 x 2	*L*

PLATFORMS (MM)	Mesh	BB	Delivery
300 x 998	31 x 31	30 x 2	L
500 x 998	31 x 31	25 x 2	L
500 x 998	31 x 9	25 x 2	L
500 x 998	31 x 31	30 x 2	*L*
500 x 998	31 x 9	30 x 2	L
600 x 998	31 x 31	25 x 2	*L*
600 x 998	31 x 31	30 x 2	*L*
600 x 998	31 x 9	30 x 2	L
700 x 998	31 x 31	25 x 2	L
700 x 998	31 x 31	30 x 2	*L*
700 x 998	31 x 9	30 x 2	L
800 x 998	31 x 31	25 x 2	L
800 x 998	31 x 9	25 x 2	L
800 x 998	31 x 31	30 x 2	*L*
800 x 998	31 x 9	30 x 2	*L*
900 x 998	31 x 31	25 x 2	L
900 x 998	31 x 31	30 x 2	*L*
900 x 998	31 x 9	30 x 2	L
1000 x 998	31 x 31	25 x 2	L
1000 x 998	31 x 31	30 x 2	*L*
1000 x 998	31 x 9	30 x 2	*L*
1100 x 998	31 x 31	30 x 2	*L*
1100 x 998	31 x 9	30 x 2	L
1200 x 998	31 x 31	30 x 2	*L*
1200 x 998	31 x 9	30 x 2	*L*

TRAPEZOIDAL (MM)	Mesh	BB	Delivery
100/290 x 540	31 x 31	30 x 2	L
100/360 x 685	31 x 31	30 x 2	L
100/360 x 685	31 x 9	25 x 2	L
100/390 x 835	31 x 31	30 x 2	L
100/390 x 835	31 x 9	25 x 2	L
100/430 x 935	31 x 31	30 x 2	L
100/430 x 935	31 x 9	25 x 2	L
100/455 x 1010	31 x 31	30 x 2	L
100/475 x 1060	31 x 31	30 x 2	L

also in stock ungalvanised, anti-slip design, available for delivery with/without SAK

RAW PANELS (MM)	Mesh	BB	Delivery
3000 x 1350	31 x 31	30 x 2	*L*
3000 x 1350	31 x 9	30 x 2	*L*

Press-locked mats S235JR raw (ungalvanised) without border framing

FIXING CLIPS		Delivery
upper- +lower part +screw	for Mesh 31 x 31	*L*
upper- +lower part +screw	for Mesh 31 x 9	*L*
upper- +lower part +screw	for Mesh 20 x 20	L
Double fixing clips	for Mesh 31 x 31	L
Double fixing clips	for Mesh 31 x 9	L

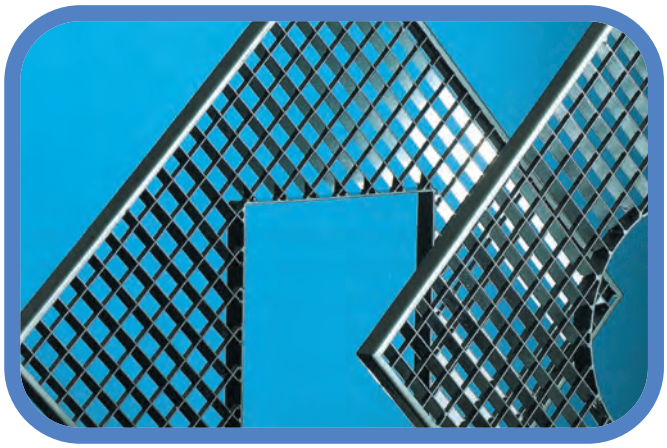
L = 24/48 hours supplier service all over Austria
industry standard gratings with endings made of u-profile
L = Supply within 5 - 7 working days
Subject to change

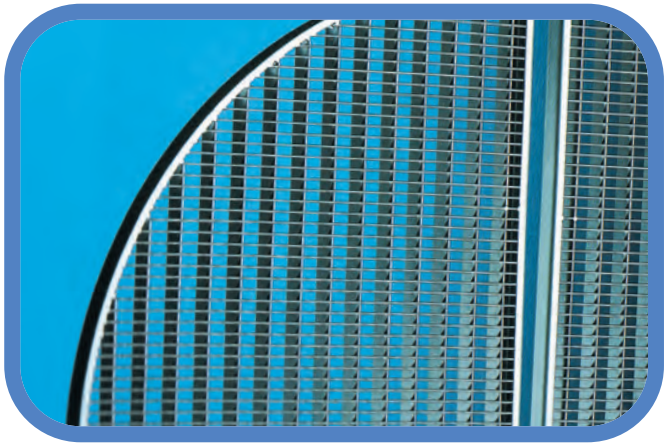
Industry standard stair treads with side plate perforation in accordance with DIN 24531
L = 24/48 hours supplier service all over Austria
L = Supply within 5 - 7 working days
x = Supply within 10 - 14 working days
Subject to change

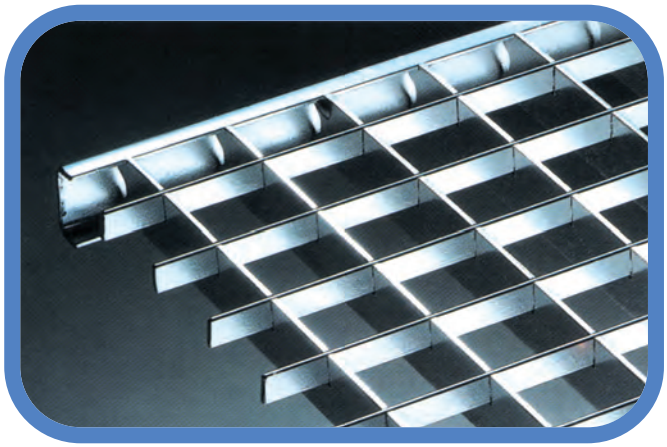
Press-locked gratings

CUSTOMISED GRATINGS MADE OF HIGH SOLID HIGH-STRENGTH STEEL STRIP

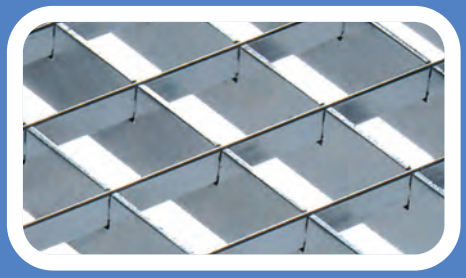
Our hot-dip galvanised gratings are edged with elegant U-profiles. The profile frame is on the same level as the supporting bars and cross bars.



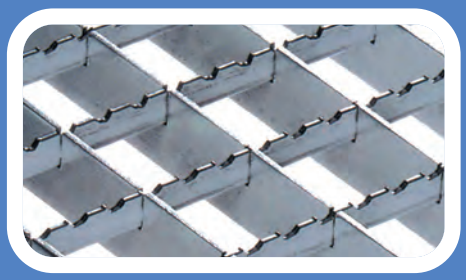




DESIGNS



smooth



slip-resistant, cross bars serrated

slip resistant, supporting bars serrated

slip resistant, cross bars and supporting bars serrated

Press-locked grating express

CUSTOMISED GRATINGS IN MAX. 2–3 WEEKS

HIGH-SOLID HIGH-STRENGTH STEEL STRIP

Customised gratings / press-locked gratings made of high-solid high-strength steel strip in max. 2-3 weeks / 9-13 working days*, hot-dip galvanised, with U-profile edging, *no cutouts, ALL YEAR ROUND

MON	TUE	WED	THU	FRI	SAT	SUN
MON	TUE	WED	THU	FRI	SAT	SUN
MON	TUE	WED	THU	FRI	SAT	SUN

1. Place your order by noon on Tuesday = delivery within 9 working days!

MON	TUE	WED	THU	FRI	SAT	SUN
MON	TUE	WED	THU	FRI	SAT	SUN
MON	TUE	WED	THU	FRI	SAT	SUN
MON	TUE	WED	THU	FRI	SAT	SUN

2. Place your order by Wednesday = delivery within 13 working days!

MON	TUE	WED	THU	FRI	SAT	SUN
MON	TUE	WED	THU	FRI	SAT	SUN
MON	TUE	WED	THU	FRI	SAT	SUN
MON	TUE	WED	THU	FRI	SAT	SUN

3. Place your order by Thursday = delivery within 12 working days!

MON	TUE	WED	THU	FRI	SAT	SUN
MON	TUE	WED	THU	FRI	SAT	SUN
MON	TUE	WED	THU	FRI	SAT	SUN
MON	TUE	WED	THU	FRI	SAT	SUN

4. your order by Friday - 2pm = delivery within 11 working days!

MON	TUE	WED	THU	FRI	SAT	SUN
MON	TUE	WED	THU	FRI	SAT	SUN
MON	TUE	WED	THU	FRI	SAT	SUN

5. Place your order by Monday = delivery within 10 working days!

Press-locked gratings

HIGH-SOLID HIGH STRENGTH STEEL STRIP – UP TO 50% HIGHER LOAD

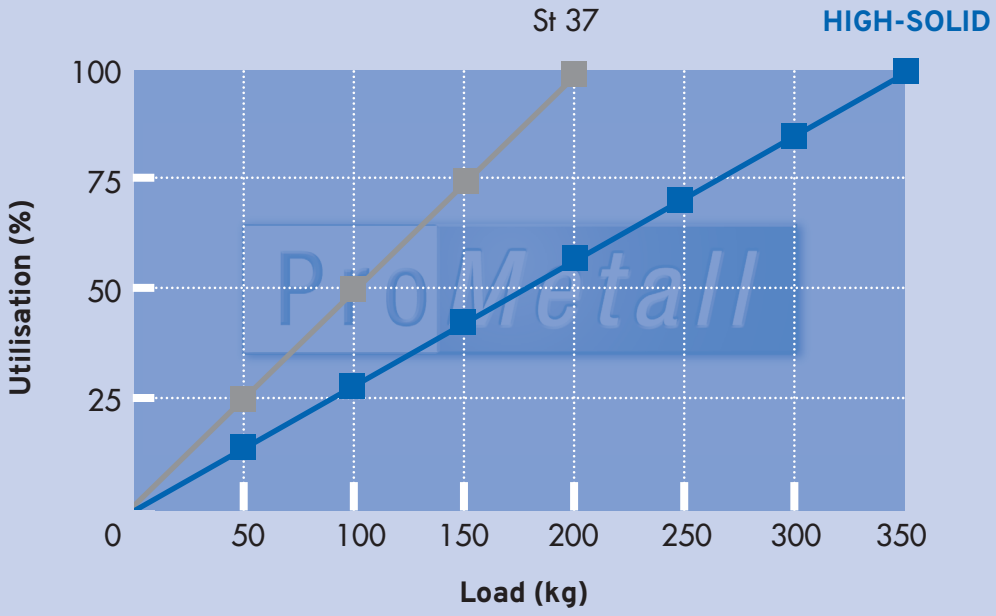
ProMetall supplies press-locked gratings in the following materials:

High-solid high-strength steel strip raw and hot-dip galvanised
Galvanised Steel ST37 / SJ235JR raw and hot-dip galvanised
Stainless steel 1.4301 (X5CrNi18-10), 1.4571 (X6CrNiMoTi17-12-2)
Aluminium (AlMg3. EN AW-5754)
Special materials available any time upon request

Quality guarantee:

ProMetall quality press-locked gratings raw material "High-Solid" high-strength steel strip in accordance with DIN EN 10149 are **up to 50% more resilient** compared to gratings made of hot rolled steel strip! At cyclical (changing) load, the service life is **even up to 60% higher**. Our quality material has a tensile strength of 520 to 700 N/mm². As a result it is elastic and does not deform. Even after years of use, there are no "hammocks".

In comparison, the utilisation factor for flexural strength for ProMetall press-locked gratings HIGH-SOLID and gratings ST37 (example: 800 x 1000mm, mesh width 31 x 31mm, supporting bar 30 x 2 mm)



Press-locked gratings

STEEL ST37 / S235JR

WAREHOUSE PROGRAMME / SUPPLIER PROGRAMME

Industry-standard press-locked gratings by ProMetall, steel S235JR, hot-dip galvanised in accordance with DIN EN ISO 1461

STAIRTREADS (MM)	Mesh	BB	Delivery
600 x 240	31 x 31	30 x 2	X
600 x 240	31 x 9	30 x 2	X
600 x 270	31 x 31	30 x 2	L
600 x 270	31 x 9	30 x 2	X
600 x 305	31 x 31	30 x 2	X
600 x 305	31 x 9	30 x 2	X
700 x 240	31 x 31	30 x 2	X
700 x 240	31 x 9	30 x 2	X
800 x 240	31 x 31	30 x 2	L
800 x 240	31 x 9	30 x 2	X
800 x 270	31 x 31	30 x 2	L
800 x 270	31 x 9	30 x 2	L
800 x 305	31 x 31	30 x 2	X
800 x 305	31 x 9	30 x 2	X
900 x 240	31 x 31	30 x 2	X
900 x 240	31 x 9	30 x 2	X
900 x 270	31 x 31	30 x 2	X
900 x 270	31 x 9	30 x 2	X
900 x 305	31 x 31	30 x 2	X
900 x 305	31 x 9	30 x 2	X
1000 x 240	31 x 31	30 x 3	L
1000 x 240	31 x 9	30 x 3	L
1000 x 270	31 x 31	30 x 3	L
1000 x 270	31 x 9	30 x 3	L
1000 x 305	31 x 31	30 x 3	L
1000 x 305	31 x 9	30 x 3	L
1100 x 240	31 x 31	40 x 3	X
1100 x 270	31 x 31	40 x 3	X
1100 x 270	31 x 9	40 x 3	X
1100 x 305	31 x 31	40 x 3	X
1100 x 305	31 x 9	40 x 3	X
1200 x 240	31 x 31	40 x 3	X
1200 x 240	31 x 9	40 x 3	X
1200 x 270	31 x 31	40 x 3	L
1200 x 270	31 x 9	40 x 3	L
1200 x 305	31 x 31	40 x 3	L
1200 x 305	31 x 9	40 x 3	L

Industry standard stair treads with side plate perforation in accordance with DIN 24531

DESIGN SLIP-RESISTANT: Cross bars serrated

L = 24/48 hours supplier service all over Austria
X = Supply within 15 - 20 working days
Subject to change

PLATFORMS (MM)	Mesh	BB	Delivery
500 x 998	31 x 31	25 x 2	X
500 x 998	31 x 9	25 x 2	X
500 x 998	31 x 31	30 x 2	L
500 x 998	31 x 9	30 x 2	X
600 x 998	31 x 31	25 x 2	L
600 x 998	31 x 31	30 x 2	L
600 x 998	31 x 9	30 x 2	X
700 x 998	31 x 31	25 x 2	X
700 x 998	31 x 31	30 x 2	L
700 x 998	31 x 9	30 x 2	X
800 x 998	31 x 31	25 x 2	X
800 x 998	31 x 9	25 x 2	X
800 x 998	31 x 31	30 x 2	L
800 x 998	31 x 9	30 x 2	L
900 x 998	31 x 31	30 x 2	X
900 x 998	31 x 31	30 x 2	L
900 x 998	31 x 9	30 x 2	X
1000 x 998	31 x 31	30 x 2	L
1000 x 998	31 x 9	30 x 2	L
1000 x 998	31 x 31	30 x 3	L
1100 x 998	31 x 31	30 x 2	X
1100 x 998	31 x 9	30 x 2	X
1200 x 998	31 x 31	30 x 2	X
1200 x 998	31 x 9	30 x 2	X
1200 x 998	31 x 31	30 x 3	L

Industry standard gratings with edgings made of T-profile
L = 24/48 hours supplier service all over Austria
X = Supply within 15 - 20 working days
Subject to change

RAW PANELS (MM)	Mesh	BB	Delivery
3000 x 1350	31 x 31	30 x 2	L
3000 x 1350	31 x 9	30 x 2	L

Press-locked mats S235JR raw (ungalvanised) without border framing

FIXING CLIPS		Delivery
upper- +lower part +screw	for Mesh 31 x 31	L
upper- +lower part +screw.	for Mesh 31 x 9	L
upper- +lower part +screw	for Mesh 20 x 20	L
Double fixing clips	for Mesh 31 x 31	L
Double fixing clips	for Mesh 31 x 9	L

Press-locked gratings

PROMETALL SPIRAL STAIRCASES

- The new grating track by ProMetall:

= attractive prices at delivery times of 4-6 weeks
= for customised galvanised gratings made of steel S235JR
= we deliver directly to you or to the building site

Press-locked gratings are created via the load-bearing connection of supporting bars and cross bars. The cross bars are pressed into the supporting bars which have special slits, at a force of up to 200 t. Hot-dip galvanisation increases the stiffness of these connections.

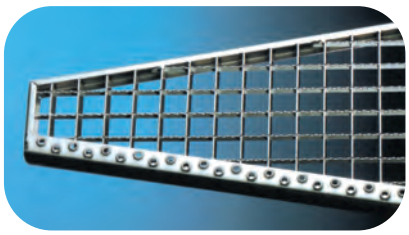
- Design in accordance with DIN 24537, RAL GZ 638; hot-dip galvanised in accordance with DIN EN ISO 1461
- Raw material S235JR in accordance with DIN EN 10025

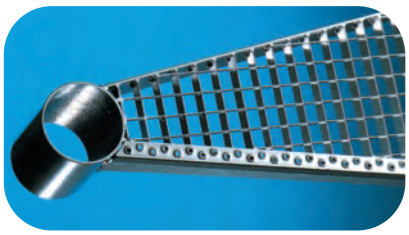
- Our gratings are produced at minus tolerances of + 0 to -4 mm

Supporting bar dimensions	
Height (mm)	20, 25, 30, 35, 40, 50, 60, 70, 80, 90, 100, 110
Thickness (mm)	2, 3, 4, 5
Cross bar dimensions	
Height (mm)	9, 12, 20, 25
Thicknes (mm)	1.5-2-3
Mesh spacing - standard	
Supporting bar spacing	11, 22, 33, 44, 55, 66 mm and other non-standard spacing*
Cross bar spacing	11, 22, 33, 44, 55, 66 mm and other non-standard spacing*

Press-locked gratings

PROMETALL SPIRAL STAIRCASES





Please state the following in your enquiry:

Material quality
- Steel bright
- Steel hot-dip galvanised
- Stainless steel 1.4301

Floor height

Diameter of the staircase

Stair tread design
- Mesh width
- Slip resistance
- for welding, attaching to or inserting into the frame

Platform size

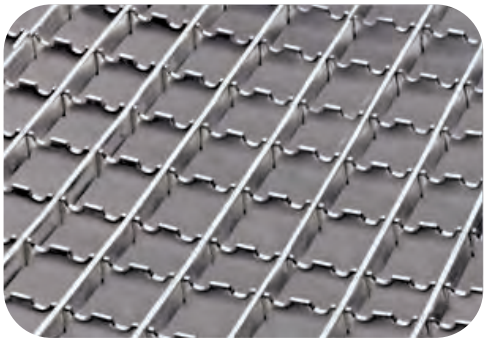
Press-locked gratings

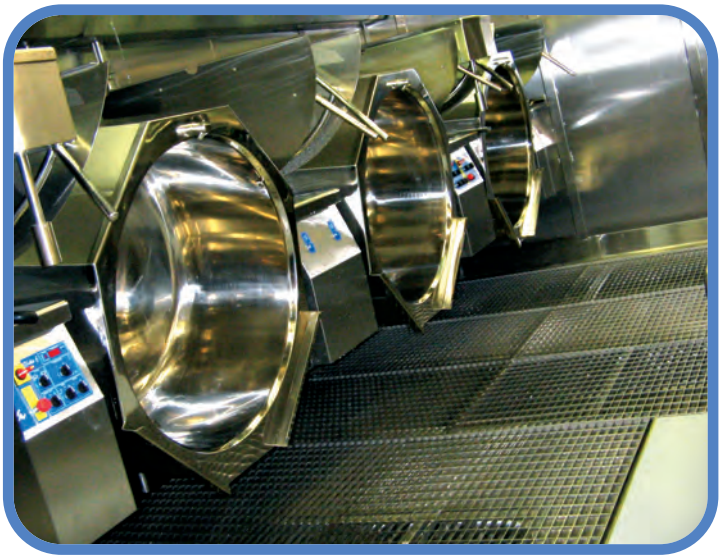
STAINLESS STEEL

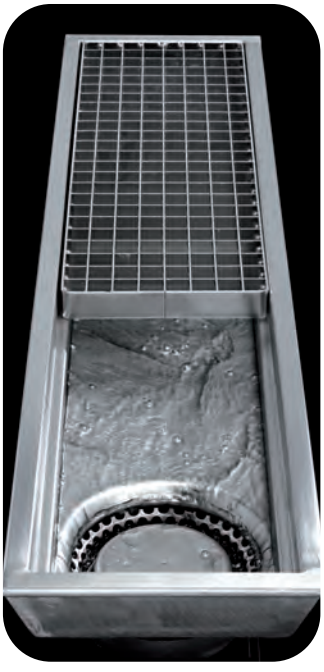
ProMetall stainless steel gratings – NEW: Customised stainless steel gratings with delivery times from 10 - 15 working days!

Material qualities: Standard production made of 1.4301 / X5CRNI 18-10 / V2A and 1.4404 / X2CRNIMO 17-2-2 / V4A (upon request also made of STAINLESS STEEL 1.4571 / X6CrNiMoTi17-12-2 / V4A)
Surfaces: raw, pickled, electro-polished
Supporting bar dimensions: Standard production from 20x2 to 70x3 mm
Mesh width: Standard production 31x31, 31x9, 23x23 mm (LW)
Slip resistance:

- serrated cross bars, or supporting bars and cross bars available upon request
- Border frames made of flat steel
- Angular frame made of the same material quality available upon request
- Standard stair treads, custom-made steps from the same production at the same terms







Heavy duty gratings

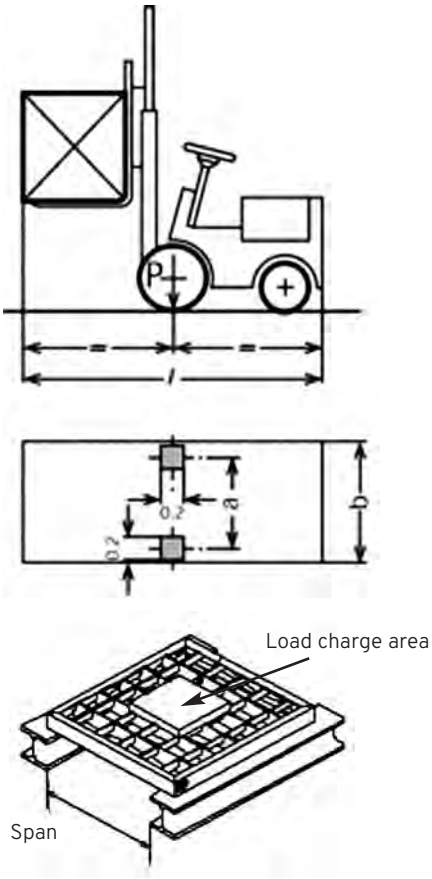
STEEL ST37 / S235JR

ProMetall Heavy duty gratings – delivery of customised designs from 12 working days

Heavy duty gratings consist of cross bars, supporting bars and border framing. They are arranged at right angles to each other. The special feature of this type of grating is its height and the thickness of the supporting bars. The dimensions of the supporting bars allow the grating to bear significantly higher loads than our regular gratings. The choice of supporting bar dimension best suited for your individual requirements depends on many different factors. If you have any further questions, please do not hesitate to contact our sales team. Heavy duty gratings are produced with U-profile / flat steel edging and then hot-dip galvanised.

ProMetall delivers heavy duty gratings in the design press-locked grating with supporting bar dimension 30x4 mm to 150x6 mm. Mesh width is individually coordinated according to your needs / the static requirements;

Press-locked gratings are well-suited for areas used for traffic. The individual loads for the categories in accordance with SLW and special loads in accordance with 1055-5/A1) and DIN 1072 can be absorbed. We recommend you instruct experienced statisticians familiar with the product to carry out the calculation.



Excerpt from DIN 1055
Forklift trucks standard vehicles

Permissible total weight	Nominal load capacity	Static axle load (standard load) P	Average track width a	Total width b	Total width a	Evenly distributed traffic load (standard load)
daN	daN	daN	m	m	m	daN
2,500	600	2,000	0.8	1.0	2.4	1,000
3,500	1,000	3,000	0.8	1.0	2.8	1,250
7,000	2,500	6,500	1.0	1.2	3.4	1,500
13,000	5,000	12,000	1.2	1.5	3.6	2,500

Excerpt from DIN 1072

Bridge category *	Tyre pressure	Load cube **
60	10.000 daN	200 x 600 mm
45	7.500 daN	200 x 500 mm
30	5.000 daN	200 x 400 mm
24	4.000 daN	200 x 300 mm
16	5.000 daN	200 x 400 mm
12	4.000 daN	200 x 300 mm
9	3.000 daN	200 x 260 mm
6	2.000 daN	200 x 200 mm
3	1.000 daN	200 x 200 mm

* bridge category=total weight of the vehicle.
** load cube=load charge area

Oscillation coefficient
If the road contains components that are particularly susceptible to local braking loads (e.g. parts of road crossings, gratings etc.), the standard vehicle's wheel loads that are attributed to the individual parts must be multiplied by 1.4 as braking loads.

Press-locked gratings

LOUVRE GRATINGS

HighSolid-Louvre gratings:

UNIVERSAL APPLIANCE. ATTRACTIVE LOOK.

Whether they are used as protection against the sun or as façade cladding - customised highsolid louvre gratings offer individual design possibilites to architects and builders.

ProMetall louvre gratings are a visual and architectonic improvement for every façade. The cross bars are arranged at an angle of 45 degrees, and depending on the mesh distribution various visual protection options are available.

This way ProMetall Louvre gratings can be used as opaque cladding elements and as semi-translucent sun protection solutions. The simple handling and effective cladding of large-size objects are further advantages.

As a result of the holes that are stamped into the cross bars, gratings can be screwed onto the supporting structure "invisibly".

Lasting mounting that nobody notices.

In order to retain the uniform look of the louvre gratings throughout the entire design area, mounting devices are located behind the cross bars. Additionally, holes are stamped into the cross bars and small metal plates are welded onto them via integrated boreholes. As a result, you can screw the gratings onto the supporting structure "invisibly" .

Press-locked gratings

LOUVRE GRATINGS

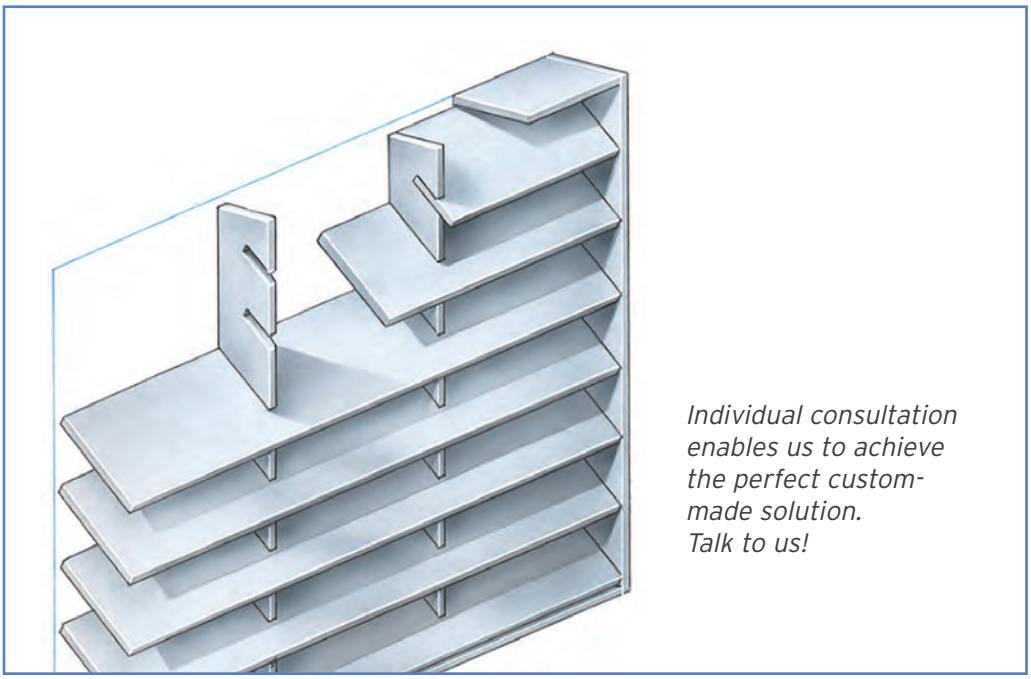
INDIVIDUAL MEASURES AVAILABLE FOR DELIVERY.

Combination of quality and design

ProMetall louvre gratings are manufactured in production processes that are certified in accordance with DIN EN ISO 9001/2000, and guarantee top quality and resilience. Hot-dip galvanising in accordance with DIN EN ISO 1461 guarantees long-lasting protection against corrosion. By means of an additional powder-coating we are also able to satisfy a wide range of design wishes in accordance with the RAL-colour chart.

Custom-made production and individual service

For individual construction projects, we produce ProMetall louvre gratings, made exactly to your specifications, that give you freedom in planning and innovative design. We will support you with a wide range of additional services to enable you to to implement your project effectively. Upon request, we also take care of logistics, based on competent consultancy in the planning phase. Of course, always combined with absolute punctuality and reliable execution.



Individual consultation enables us to achieve the perfect custom-made solution. Talk to us!

Our wide range of products is certified a number of times!

Detailed information

We also provide information on our full range of products and comprehensive services on the internet. We provide a number of application examples to convince you of the versatility of our solutions. Have a look.

www.gitterrost.at

Subject to technical changes and errors.
You can also contact us by phone!

Safety gratings

PERFORATED GRATINGS / STAIR TREADS

Safety gratings

PERFORATED GRATINGS

CHARACTERISTICS

ProMetall safety gratings are the perfect covering for work platforms in the industrial sector and for platforms with architectonic demands.

As a result of its unique surface structure (holes that are staggered opposite each other, stamped and pushed through) the ProMetall safety grating is suitable for a variety of applications for the industrial and architectonic user.

Industrial users benefit from the high, passive safety due to the high slip-resistance (R13) which significantly reduces the risk of work accidents.

The balanced hole structure look takes centre stage and gives the pedestal surface a classic, technical elegance that sets it apart from traditional grating surfaces.

This also makes the ProMetall safety grating interesting for private persons, as they can build affordable, simple pedestal constructions that do not look industrial.

TECHNICAL DETAILS

ProMetall safety gratings (platforms) are made of a series of perforated steel sheet panels, flanged in U-shape, whereby the panel width depends on the expected load in the supporting bar direction.

The panels are combined to create the desired grating size and connected via welding spots. The placement of the welding spots ensures that the load force is also transferred to the neighbouring panels. This ensures that the ProMetall safety gratings are highly durable. The open-ended fronts (transverse to the direction of the supporting bars) are closed via a flat steel frame which also contributes to the safety grating's stability.

MOST IMPORTANT

ProMetall Safety grating

- Highest degree of slip-resistance (R13)
- Small hole diameter (9 or 14 mm) – this prevents small items from falling through
- Good drainage of rainfall (holes with diameter of 9 mm pushed downwards)
- Safe to use for persons with fear of heights, as direct view to the floor is significantly reduced
- High passive safety for operating staff
- Cheap to lay (no need to screw in the individual panels)
- Flexible production of special formats + in accordance with special load tables possible on short notice

Perforated safety panels by ProMetall

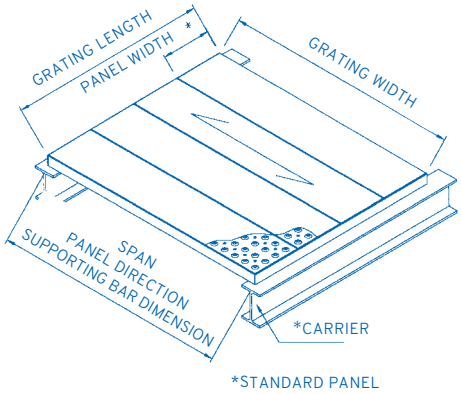
hot-dip galvanised in accordance with DIN EN ISO 1461
Panels are welded into gratings, border framing 30/3 mm

STEEL 2 mm, hot-dip galvanised	Length x width	height
Article description	(mm)	(mm)
Safety panels hot-dip galvanised	1000 x 500	32
Safety panels hot-dip galvanised	1000 x 600	32
Safety panels hot-dip galvanised	1000 x 700	32
Safety panels hot-dip galvanised	1000 x 750	32
Safety panels hot-dip galvanised	1000 x 800	32
Safety panels hot-dip galvanised	1000 x 900	32
Safety panels hot-dip galvanised	1000 x 1000	32
Safety panels hot-dip galvanised	1000 x 1200	32

Perforated safety panels by ProMetall

Steel, raw – untreated – for DIY

STEEL 2 mm, raw - untreated	Length x width	height
Article description	(mm)	(mm)
Safety panels	3000 x 50	32
Safety panels	3000 x 75	32
Safety panels	3000 x 100	32
Safety panels	3000 x 125	32
Safety panels	3000 x 150	32
Safety panels	3000 x 200	32
Safety panels	3000 x 150	45
Safety panels	3000 x 200	45
Safety panels	3000 x 250	45
Safety panels	3000 x 300	45
Safety panels	further panels available	45



Perforated safety panels by ProMetall

Stainless steel, 2 mm, raw – untreated

STAINLESS STEEL 1.4301	Length x width	height
Article description	(mm)	(mm)
Safety panels 1.4301	3000 x 50	32
Safety panels 1.4301	3000 x 75	32
Safety panels 1.4301	3000 x 100	32
Safety panels 1.4301	3000 x 125	32
Safety panels 1.4301	3000 x 150	32
Safety panels 1.4301	3000 x 200	32
Safety panels 1.4301	3000 x 150	45
Safety panels 1.4301	3000 x 200	45
Safety panels 1.4301	3000 x 250	45

Supply within 5 - 7 working days
Subject to change

Perforated safety stair treads by ProMetall

hot-dip galvanised in accordance with DIN EN ISO 1461, incl. perforated side covers

STEEL 2 mm, hot-dip galvanised	Length x height	Width 200	Width 250	Width 275	Width 300
Article description	(mm)	(mm)	(mm)	(mm)	(mm)
Safety stair treads hot-dip galvanised	500 x 45	L	L		
Safety stair treads hot-dip galvanised	600 x 45	L	L	L	L
Safety stair treads hot-dip galvanised	700 x 45	L	L	L	L
Safety stair treads hot-dip galvanised	800 x 45	L	L	L	L
Safety stair treads hot-dip galvanised	900 x 45	L	L	L	L
Safety stair treads hot-dip galvanised	1000 x 45	L	L	L	L
Safety stair treads hot-dip galvanised	1100 x 57	L	L	L	L
Safety stair treads hot-dip galvanised	1200 x 57	L	L	L	L
Safety stair treads hot-dip galvanised	1500 x 57	L	L	L	L

Perforated safety stair treads by ProMetall

Stainless steel 1.4301 pickled, incl. perforated side covers

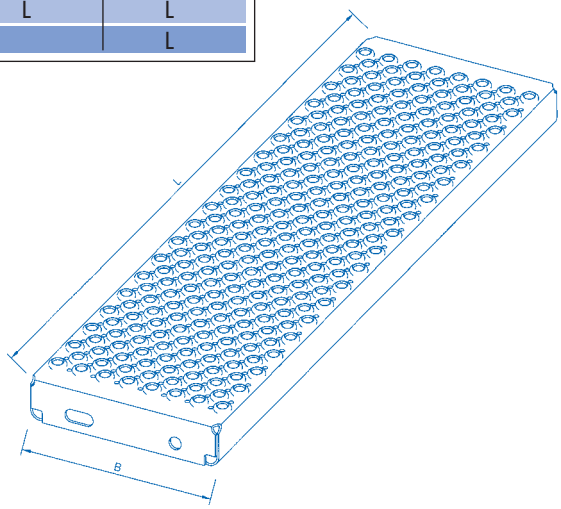
STAINLESS STEEL 1.4301	Length x height	Width 200	Width 250	Width 275	Width 300
Article description	(mm)	(mm)	(mm)	(mm)	(mm)
Safety stair tread 1.4301	600 x 45	L	L	L	L
Safety stair tread 1.4301	800 x 45	L	L	L	L
Safety stair tread 1.4301	1000 x 45	L	L	L	L

Perforated safety stair treads by ProMetall

Aluminium 3 mm, natural anodised, incl. perforated side covers

ALUMINIUM (Almg3)	Length x height	Width 200	Width 250	Width 275
Article description	(mm)	(mm)	(mm)	(mm)
Safety stair treads	600 x 65.5	L	L	
Safety stair treads	800 x 65.5	L	L	L
Safety stair treads	1000 x 65.5	L	L	L
Safety stair treads	1200 x 65.5			L

Supply within 5 - 7 working days
Subject to change

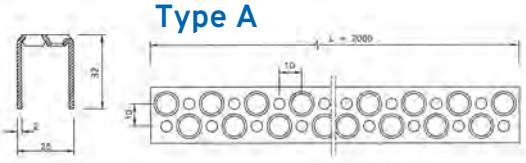


Safety gratings

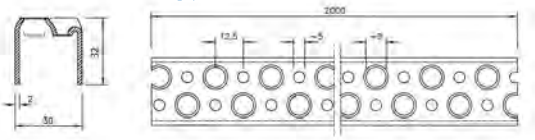
PERFORATED GRATINGS

Safety gratings
PERFORATED GRATINGS

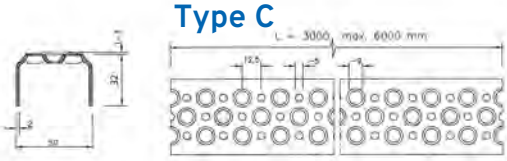
Type A



Type B



Type C



ProMetall safety ladder rungs

STEEL - raw	Measurements LxWxH	Delivery
Type	(mm)	
A - 25x32	2000 x 25 x 32	*L*
B - 30x32	2000 x 30 x 32	*L*
C - 50x32	3000 x 50 x 32	L
A - 30x25	300 x 30 x 25	L
A - 30x25	400 x 30 x 25	L

STAINLESS STEEL		
1.4301	Measurements LxWxH	Delivery
Type	(mm)	
B - 30x32	2000 x 30 x 32	*L*
C - 50x32	3000 x 50 x 32	L
A - 30x25	300 x 30 x 25	L
A - 30x25	400 x 30 x 25	L

STAINLESS STEEL		
1.4404	Measurements LxWxH	Delivery
Type	(mm)	
B - 30x32	2000 x 30 x 32	L
C - 50x32	3000 x 50 x 32	L
A - 30x25	300 x 30 x 25	L
A - 30x25	400 x 30 x 25	L

L = 24/48 hours supplier service all over Austria
L = Supply within 5 - 7 working days
Subject to change

ProMetall Swimming pool stair treads

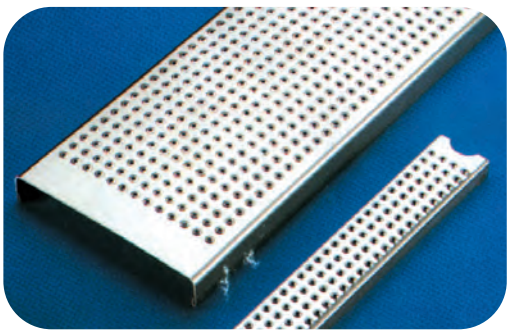
Untreated design with anti-slip nozzle perforation (pos.1+2 with shrink-wrapped side elements – for pipe diameter 40 mm)

Size in mm	Raw material	kg/unit	Art.-no.
530 x 70, 15°/ 22.5° / 90°/ no cutout	1.4404	0.70	8V2A1
530 x 70, 15°/ 22.5° / 90°/ no cutout	1.4404	0.70	8V2A1
600 x 250	1.4404	3.30	8V2A2
600 x 250	1.4404	3.30	8V2A2
800 x 250	1.4404	4.70	8V2A3
800 x 250	1.4404	4.70	8V2A3
1000 x 250	1.4404	5.50	8V2A4
1000 x 250	1.4404	5.50	8V2A4

Supply period: 5 – 7 working days

Accessories

Material 1.4301 or 1.4404 each with protective foil	
Rosettes	Flange
Diameter 96 high/perforated Diam. 40	Diam. 104 x 4/perforated in the middle
Diameter 96 high/perforated Diam. 43	Diameter 104x4/not perforated
Diameter 96 high/not perforated	Diameter 89x4/perforated
Diameter 96 flat/perforated Diam. 40	Diameter 89x4/not perforated
Diameter 96 flat/perforated Diam. 43	Diameter 55x4/perforated
Diameter 96 flat/not perforated	Diameter 55x4/not perforated
Diameter 60 perforated Diam. 16	
Diameter 60 high/not perforated or other	



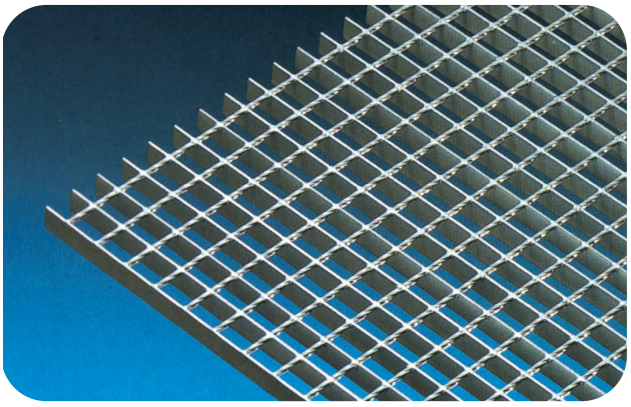
Forge-welded gratings

STEEL ST37 / S235JR

WAREHOUSE PROGRAMME / SUPPLIER PROGRAMME

Industry-standard press-locked gratings by ProMetall, steel S235JR, hot-dip galvanised in accordance with DIN EN ISO 1461

STAIRTREADS (MM)	Mesh	BB	Delivery
600 x 240	34 x 38	30 x 2	X
600 x 270	34 x 38	30 x 2	X
600 x 305	34 x 38	30 x 2	X
700 x 240	34 x 38	30 x 2	X
700 x 270	34 x 38	30 x 2	X
800 x 240	34 x 38	30 x 2	X
800 x 270	34 x 38	30 x 2	L
800 x 305	34 x 38	30 x 2	X
900 x 240	34 x 38	30 x 2	X
900 x 270	34 x 38	30 x 2	X
900 x 305	34 x 38	30 x 2	X
1000 x 240	34 x 38	30 x 3	X
1000 x 270	34 x 38	30 x 3	L
1000 x 305	34 x 38	30 x 3	X
1100 x 240	34 x 38	40 x 3	X
1100 x 270	34 x 38	40 x 3	X
1100 x 305	34 x 38	40 x 3	X
1200 x 240	34 x 38	40 x 3	X
1200 x 270	34 x 38	40 x 3	X
1200 x 305	34 x 38	40 x 3	X



Industry standard steps with side plate perforation in accordance with DIN 24531
L = Supply within 5 - 7 working days
X = Supply within 15 - 20 working days
Subject to change

PLATFORMS (MM)	Mesh	BB	Delivery
500 x 998	34 x 38	30 x 3	L
600 x 998	34 x 38	30 x 2	L
600 x 998	34 x 38	30 x 3	L
700 x 998	34 x 38	30 x 2	L
700 x 998	34 x 38	30 x 3	L
800 x 998	34 x 38	30 x 2	L
800 x 998	34 x 38	30 x 3	L
900 x 998	34 x 38	30 x 2	L
900 x 998	34 x 38	30 x 3	L
1000 x 998	34 x 38	30 x 2	L
1000 x 998	34 x 38	30 x 3	L
1200 x 998	34 x 38	30 x 2	L
1200 x 998	34 x 38	30 x 3	L

Industry standard gratings with edging made of flat iron
L= Supply within 5 – 10 working days
Subject to change

RAW PANELS (MM)	Mesh	BB	Delivery
6100 x 1000	34 x 38	30 x 2	L
6100 x 1000	34 x 38	30 x 3	L
6100 x 1000	34 x 38	40 x 3	L
3050 x 1000	34 x 38	30 x 2	L
3050 x 1000	34 x 38	30 x 3	L
3050 x 1000	34 x 38	40 x 3	L

Forge-welded panels made of steel S235JR raw (ungalvanised) without border frame

FIXING CLIPS		Delivery
upper- +lower part +screw	for Mesh 34 x 38	L
upper- +lower part +screw	for Mesh 31 x 9	L
upper- +lower part +screw	for Mesh 20 x 20	L
Double fixing clips	for Mesh 31 x 31	L
Double fixing clips	for Mesh 31 x 9	L

Forge-welded gratings

SUPPLIER / PRODUCTION PROGRAMME

Supplier programme:

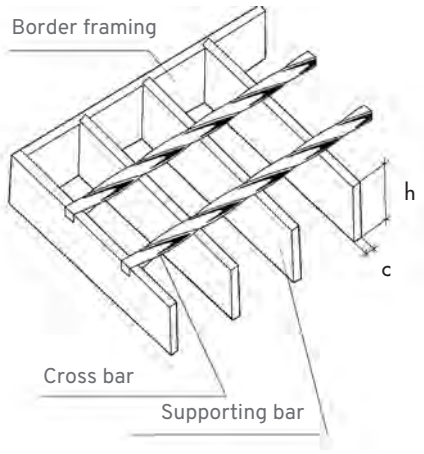
Production and formats upon request

Production programme:

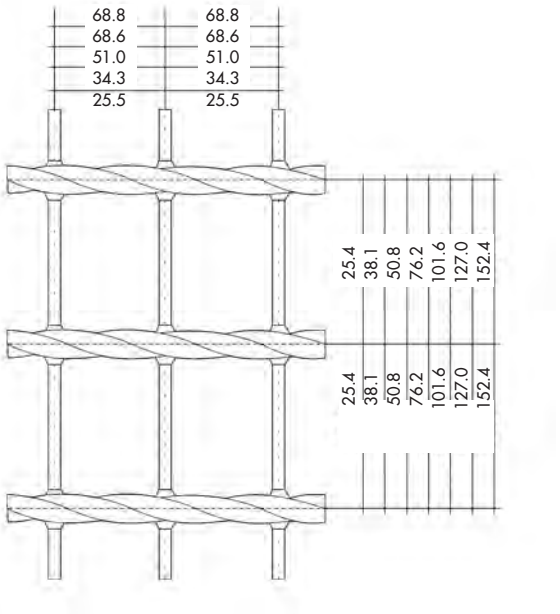
Materials:
Steel raw or subsequently hot-dip galvanised;
Design in accordance with DIN 24537, RAL GZ 638;
Hot-dip galvanised in accordance with DIN EN ISO 1461
Raw material S235JR in accordance with DIN EN 10025

Formats:
Width (supporting bars) max. 6100 mm
Width (cross bars) max. 1000 mm –
everything above upon request
Dimensions (supporting bar) from 20x2 to 70x5 mm

Delivery deadlines:
Cutting of mats - approx. 1 week
larger quantities from machine production - approx. 4 weeks



h - height of the supporting bar
c - thickness of the supporting bar
Max length of the grating L = 6100 mm
Max width of the grating W = 1000 mm



Standard mesh width for forge-welded gratings (FG) gratings in accordance with DIN 24537

Forge-welded gratings

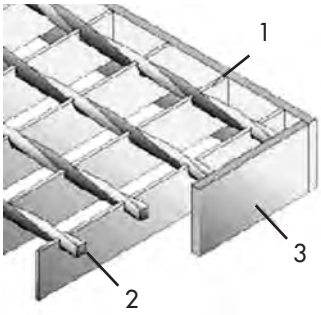
STEEL ST37 / S235JR

Types of supporting bars

h	mm	20	25	30	40	20	25	30	40	25	30	40	50	60	70	25	30	40	50	60	70
c		2				3				4						5					

Forge-welded gratings

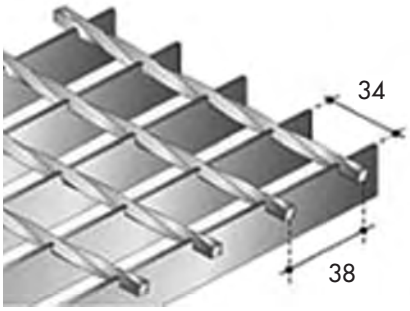
CONSTRUCTION



1 = supporting bar

2 = cross bar drilled

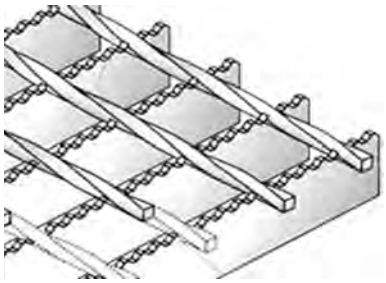
3 = edging made of flat steel



Forge-welded grating

Mesh width - standard

= 34 x 38



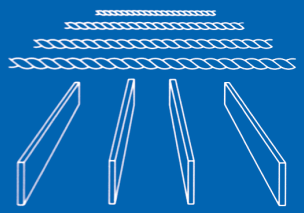
Forge-welded grating with

slip resistance =

supporting bars serrated

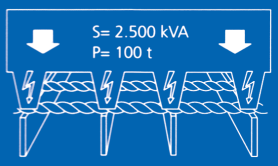
FORGE-WELDED GRATINGS – THE CONSTRUCTION

Forge-welded gratings are produced by pressing twisted square rods (or round rods) that take on the function of the cross bar, into the supporting bar with high pressure and simultaneously welding them electrically by means of the resistance welding procedure. The result: outstanding, static characteristics and high resilience.

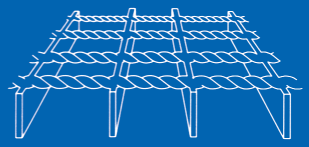


Border framing: Generally made of flat steel.

Slip-resistance / supporting bars: Serrated supporting bars are used to ensure high slip-resistance. Supporting bars of 25/2 to 70/4 are possible (above upon request).



Mesh width / technical possibilities: The "standard" mesh for forge-welded gratings "Mesh 34x38 mm" (measured centre - centre bars) is generally referred to as "Mesh 30x30mm" (= inside diameter) - see supplier programme.



Further production options (mesh width):
Mesh 15 x 76 | Mesh 22 x 76 | Mesh 25 x 25 | Mesh 30 x 50
Mesh 34 x 19 | Mesh 43 x 22 | Mesh 50 x 25 | Mesh 63 x 22
or a multiple of the cross bar partition!

Other, technical mesh widths can be produced!

GRP-plastic gratings

GRP-gratings / general

GRP consists of glass fibres and polyester resins. The former ones, forming the structural part, ensure the product's mechanical resistance; the latter are chemically durable and combine the various fibres; this allows stress distribution.
ProMetall gratings and structures are produced by means of special patented techniques that are mainly based on the principle of injection moulding (IM) or pultrusion.

UNLIKE TRADITIONAL MATERIALS, GRP COMBINES THE FOLLOWING CHARACTERISTICS:

- high resistance to chemical and atmospheric charges
- good ratio mechanical resistance/weight
- no softening in case of exposure to heat
- lightness
- dimensional stability
- good dielectic properties
- easy to install..

- **The below is also remarkable:** the ProMetall products do not require any maintenance - the cancellation of operating costs makes them really cheap!

- **ProMetall GRP-gratings** are produced by using various types of resins and glass fibres.

GRP-plastic gratings

GRP-gratings / general

The ProMetall GRP-gratings are produced by means of injection moulding technology. They are produced in many different sizes to allow quick solutions for different plant problems. They are produced in monolithic panels and are simple and fast to install. ProMetall GRP-gratings are mainly required for runways, treads, gutter and shaft covers, electric cover panels and stair treads.
ProMetall gratings have a high safety factor and were developed under strict controls, in accordance with DIN 25437-3.

ProMetall gratings are also available for delivery with slip-resistant surface, in accordance with DIN E 51130 (specification of slip-resistance), in the following versions:

1. with permanently slip-resistant surface "Meniscus"-Type (R13-V10 certified).

2. with permanently slip-resistant quartz surface (R13-V4 certified).

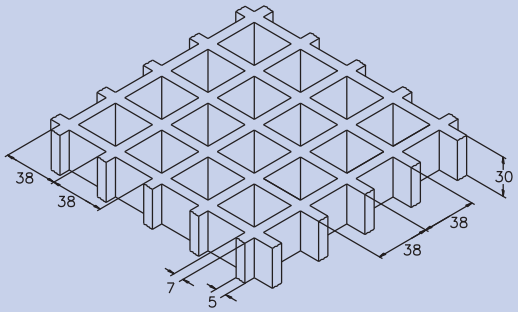
- ProMetall gratings are certified in accordance with UNI EN ISO 9142, due to their durability, without loss of mechanical performance, after the cyclical issuance of heat/cold and moisture.
- ProMetall gratings have also passed the ageing resisance test after the cyclical exposure to UV-rays, in accordance with ASTM G154.
- Upon request, we also deliver a self-extinguishing version of the gratings in accordance with EN13501, ASTM E84, ASTM D635, DIN 4102, NFP 92-507.
- ProMetall gratings are also available with anti-slip, covered surface (R10-V10 certified)

GRP-plastic gratings

GRATING TYPE SCH 38/30_IFR

Excerpt from supplier programme – full range at www.prometall-europe.com!

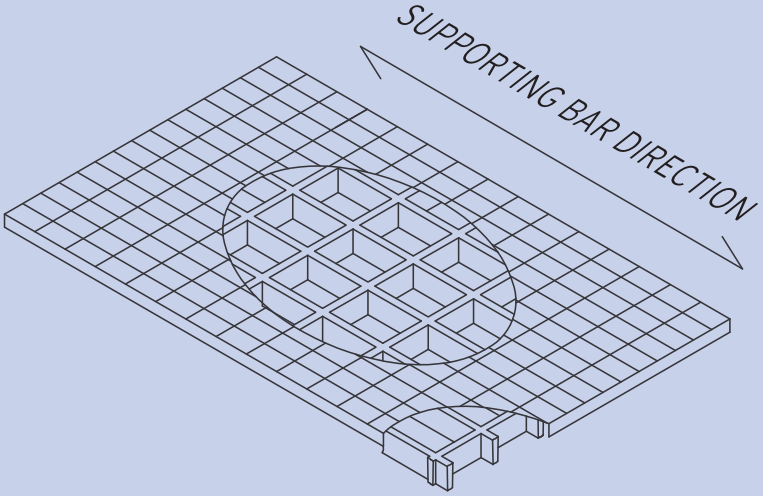
Mesh width	mm 38 x 38
Inside diameter	mm 31 x 31
Height	mm 30
Bar thickness	mm 7 surface mm 5 underside
Colour	Grey RAL 7004 RAL-specification (approximate)



Raw material	Polyester resin
	Glas fibre Direkt Roving + Panel Type"E"
	Halogen free inorganic fillers

Resin	Elastic module	Breakdown tension
IFR	15000 MPa	325 MPa

Standard plates	
mm 1000 x 2000	
mm 1000 x 3000	
mm 1000 x 4038	
mm 1220 x 3660	
Weight kg/m² 15	
Tolerance	± mm 5 plate dimension
	± mm 2 height



Surface	S	smooth	Slip-resistant grade R10 V10 standard DIN E51130
	M	concave "Meniscus"	Slip-resistant grade R13 V10 standard DIN E51130
	A	with quartz	Slip-resistant grade R13 V10 standard DIN E51130

Ageing resistance	**Accelerated ageing test with UV-lamp in accordance with ASTM G154-06 passed with 5 points on the grey scale and without any obvious defects** (1500 hours exposure with alternating cycles of 4 hours UV temperature 60°C and 4 hours condensation temperature 50°C, irradiated by UVB-lamps 313 nm, irradiation 0.71 W/m²)
	After passing the cycles heat, cold and moisture in accordance with the standard UNI EN ISO 9142/04 standard (21 cycles type D3) they do not show any remaining defects

Stainless steel mountings

Installation and mounting takes place with stainless steel accessories AISI 316 only. According to special requirements, ProMetall supplies clips in various formats and sizes according to special requirements.

CLIPS TYPE D30/7 AND D30/9 — **D30/7 - D30/9**

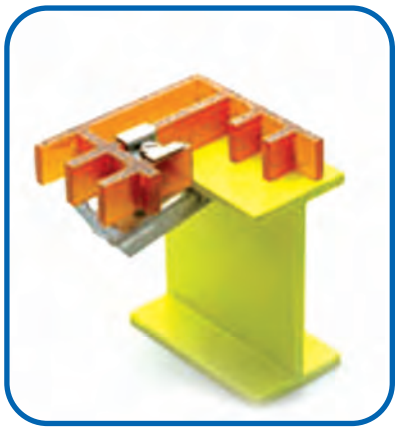
TECHNICAL TABLE

Description:	Connection clips made of stainless steel AISI 316 complete with bolt and weld nuts. Screws in accordance with the table. The connection clips are used to combine the two attached plates.
For use with the following gratings:	SCH 30/28 SCH 50/28 SCH 30/38 SCH 50/38

CLIPS TYPE D40/7 AND D40/9 — **D40/7 - D40/9**

TECHNICAL TABLE

Description:	Connection clips made of stainless steel AISI 316 complete with bolt and weld nuts. Screws in accordance with the table. The connection clips are used to combine the two attached plates.
For use with the following gratings:	SCH 40/28 SCH 38/25 SCH 38/38 SCH 40/38 SCH 38/30



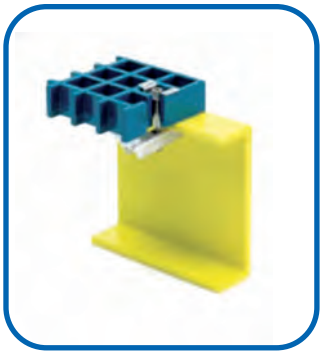
CLIPS TYPE DS 30/9 — **DS30/9**

TECHNICAL TABLE

Description:	Connection clips made of stainless steel AISI 316 complete with bolt and weld nuts. Screws in accordance with the table. The connection clips are used to combine the two attached plates.
For use with the following gratings:	SCH 30/28 SCH 50/28 SCH 30/38 SCH 50/38

GRP-plastic gratings

MOUNTINGS



CLIPS TYPE DS40/9 — DS40/9

TECHNICAL TABLE

Description: Connection clips made of stainless steel AISI 316 complete with bolt and weld nuts. Screws in accordance with the table. The connection clips are used to combine the two attached plates.

For use with the following gratings:
SCH 40/28
SCH 38/25
SCH 38/38
SCH 40/38
SCH 38/30

CLIPS TYPE 19T7 AND 19T9 — 9T7 - 19T9

TECHNICAL TABLE

Description: Connection clips made of stainless steel AISI 316 complete with bolt and weld nuts. Screws in accordance with the table. The connection clips are used to combine the two attached plates.

For use with the following gratings:
suitable for all gratings with
Mesh width mm 19 x 19, thickness mm 30, 40 and 52.
SCH 50/30
SCH 50/40
SCH 52/52

CLIPS TYPE T7 AND T9 — T7 - T9

TECHNICAL TABLE

Description: Connection clips made of stainless steel AISI 316 complete with bolt and weld nuts. Screws in accordance with the table. The connection clips are used to combine the two attached plates.

For use with the following gratings: suitable for all types of gratings, in particlar, those with closed surface, excl. micro mesh.

CLIPS TYPE TS9 — TS9

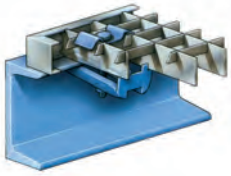
TECHNICAL TABLE

Description: Connection clips made of stainless steel AISI 316 complete with bolt and weld nuts. Screws in accordance with the table. The connection clips are used to combine the two attached plates.

For use with the following gratings: for use with all open and closed gratings, excl. micro mesh

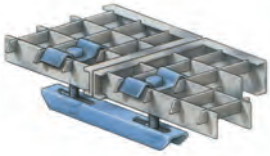
GRP-plastic gratings

MOUNTING MATERIAL



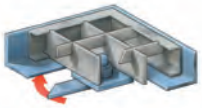
STANDARD MOUNTING

Also available for delivery as safety mountings, they are used to secure gratings against slipping or lifting.



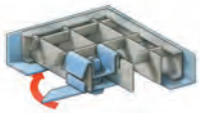
DOUBLE FIXING CLIP

For varying mesh width to connect two gratings. This prevents the formation of tripping hazards.



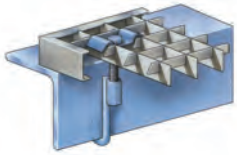
WRENCH LOCK

Welded in. For simple locking and unlocking, e.g. emergency exits. At the same time, this lock prevents unauthorised removal of the gratings!



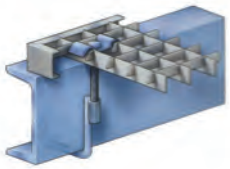
WRENCH LOCK

For subsequent installation.



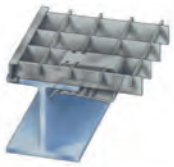
HOOK MOUNTING

For e.g. angle profiles. Hook mountings are delivered in accordance with the required measurements.



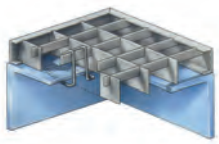
HOOK MOUNTING

For gratings placed on vertical support with bottom flange (e.g. square tube).



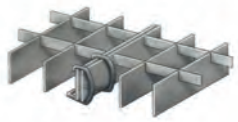
LINDAPTER-BRACKET

For fast installation from above without the use of tools. Suitable for installation on T-carriers, U- and L-profiles. Total clamp strength 36-48 mm.



KOVING MOUNTING SPRING

For easy assembly and disassembly of gratings on steel constructions. It is formed in the shape of an adjustment screw and replaces traditional standard and double brackets.

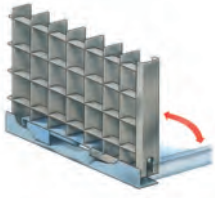


KOVING CONNECTION SPRING

VFF for connecting gratings with each other. Better load distribution of dynamic and static forces.

SAFETY CHAIN

In various lengths to secure gratings used for e.g. cellar light shafts.

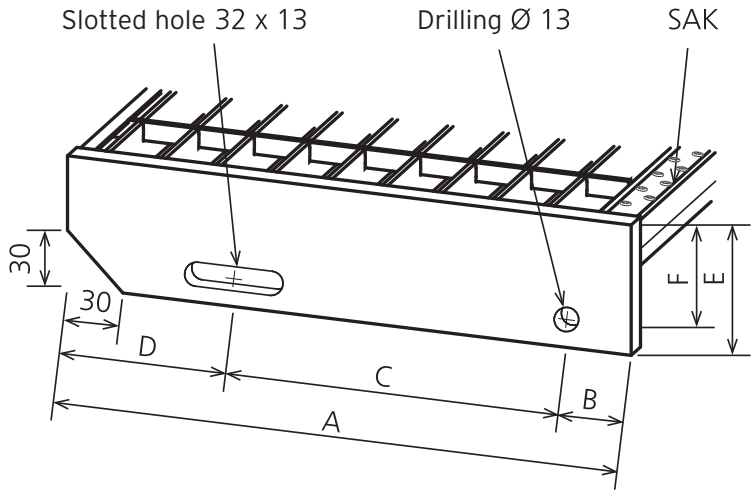


HINGES

Hinges that are connected with e.g. an angular frame. For gratings with notch facility. Particularly used for emergency exits in combination with a wrench lock.

GRP-plastic gratings

PERFORATION PATTERN - SIDE PLATES IN ACCORDANCE WITH DIN 24531



Measurements height

E	F	BB-height
70	55	25-40
80	65	50
90	75	60

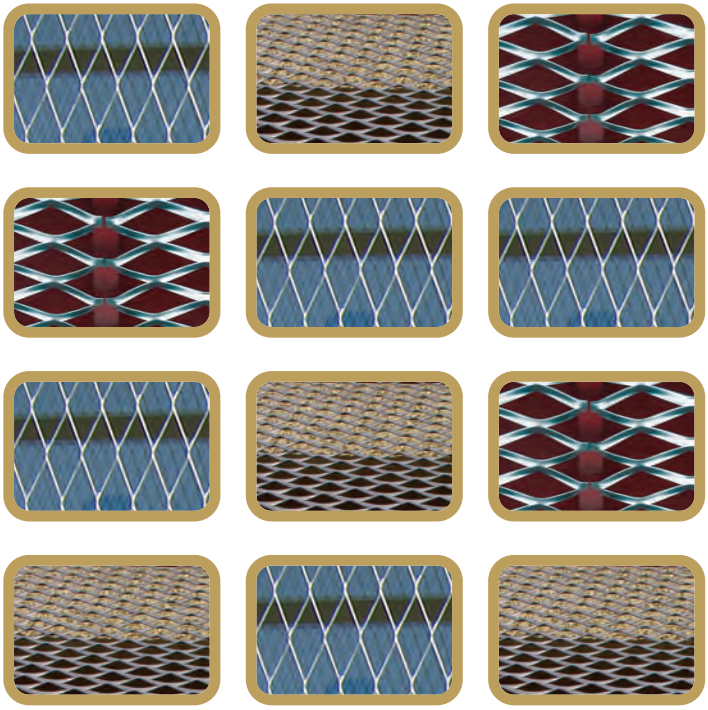
A	B	C	D
80	20	40	20
85	20	40	25
90	20	40	30
95	20	40	35
100	20	40	40
105	20	50	35
110	20	50	40
115	20	50	45
120	20	50	50
125	20	60	45
130	20	60	50
135	20	60	55
140	20	60	60
145	35	60	50
150	35	60	55
155	35	60	60
160	35	60	65
165	35	80	50
170	35	80	55
175	35	80	60
180	35	80	65
185	35	100	50

A	B	C	D
190	35	100	55
195	35	100	60
200	35	100	65
205	35	100	70
210	35	100	75
215	35	100	80
220	35	120	65
225	35	120	70
230	35	120	75
235	35	120	80
240	35	120	85
245	35	150	60
250	35	150	65
255	35	150	70
260	35	150	75
265	35	150	80
270	35	150	85
275	35	150	90
280	35	180	65
285	35	180	70
290	35	180	75
295	35	180	80
300	35	180	85

A	B	C	D
305	35	180	90
310	35	180	95
315	35	180	100
320	35	200	85
325	35	200	90
330	35	200	95
335	35	200	100
340	35	220	85
345	35	220	90
350	35	220	95
355	35	220	100
360	35	240	85
365	35	240	90
370	35	240	95
375	35	260	80
380	35	260	85
385	35	260	90
390	35	260	95
395	35	260	100
400	35	260	105

Bold measurements = standards

ProMetall Design instead of average



Expanded metals

from the experts

ProMetall

Expanded metals

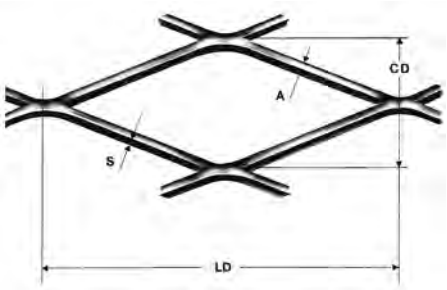
Expanded metals

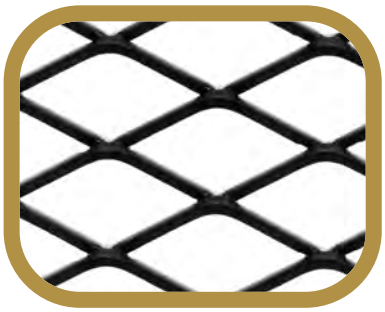
WAREHOUSE / SUPPLIER / PRODUCTION

WAREHOUSE PROGRAMME	bold, in Italics "**L**" = 24/48 hours
	supplier service all over Austria
SUPPLIER PROGRAMME	regular "L"= supply within
	approx. 5 to 7 working days
PRODUCTION PROGRAMME	**Materials**
	Steel
	Aluminium
	Stainless steel
	Copper
	Brass
	Zinc
	and all punchable metals
	Formats
	up to a material width of 2700 mm
	Mesh
	from 0.5 to 200 mm
	Supply deadlines
	depending on the quantity, 1 - 3 weeks

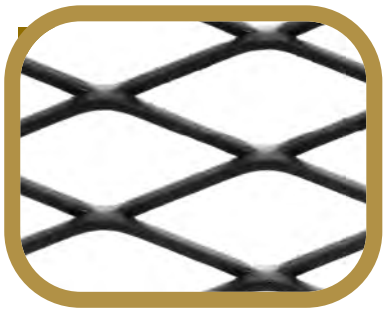
Expanded metals

DIAMOND MESH



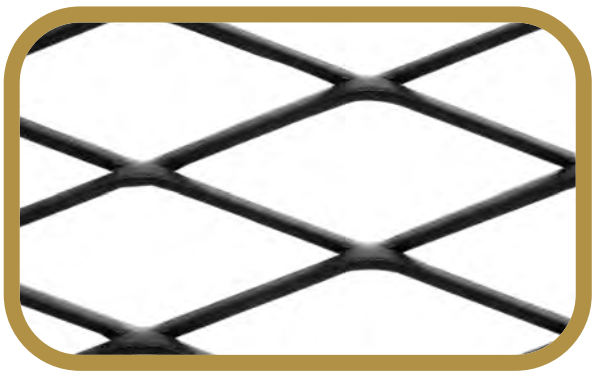


Mesh 28 x 14

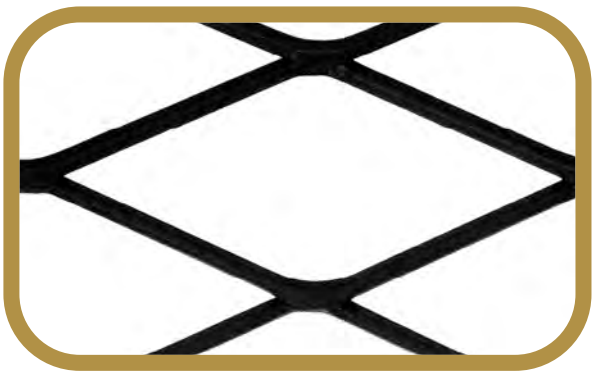


Mesh 43 x 17

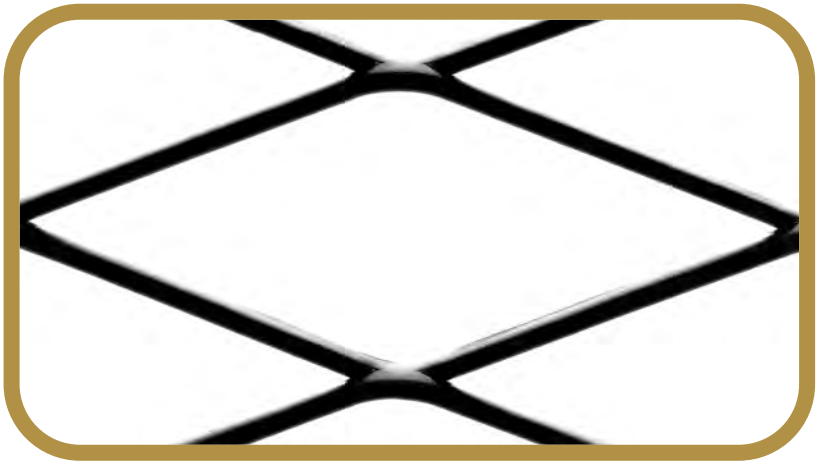
Mesh 43 x 13



Mesh 62 x 23



Mesh 76 x 31



Mesh 110 x 40

Expanded metals

DIAMOND MESH

STEEL			1000x2000 / coil 1000 wide					1250x2500 / coil 1250 wide				1500x3000 / coil 1500 wide			
DC04/DD11/S235JR			Format and thickness in mm					Format and thickness in mm				Format and thickness in mm			
Mesh	Bridge	Ao (%)	0.5	1	1.5	2	3	1	1.5	2	3	1	1.5	2	3
6 x 3	1	34	L												
10 x 4.5	1.5	33		L											
10 x 5	1.5	35		L											
16 x 8	1.6	60		L											
20 x 7	1.5	60			***L***				***L***				***L***		
22 x 12	2	67			L										
28 x 9	2	56			L										
28 x 10	2.5	60		L				L							
28 x 10	3	40				L				L					
28 x 14	2.5	64				***L***				***L***				***L***	
42 x 12	2	67			L				L						
42 x 13	2.5	61			L										
43 x 13	2.5	65				L									
43 x 17	2.5	75				***L***				***L***				***L***	
50 x 18	3	67				L									
62 x 23	3	74				***L***				***L***				***L***	
62 x 23	7	39					L								
76 x 31	3	81					***L***				***L***				***L***
90 x 30	3	82					1000				1250				1500
110 x 40	3	85					1000				1250		1500, 2000, 2500		
110 x 40	4.5	78					1000				1250		1500, 2000, 2500		
110 x 40	6	73					1000				1250		1500, 2000, 2500		
200 x 80	6.6	84					1000				1250		1500, 2000, 2500		

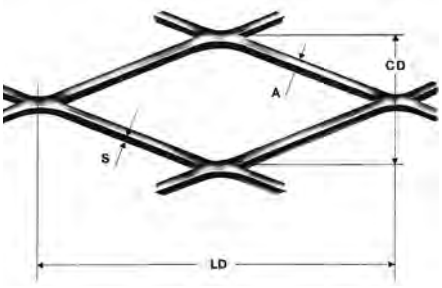
ALUMINIUM			1000 x 2000					1250 x 2500				1500 x 3000			
Al99,5hh/EN AW1050A			Format and thickness in mm					Format and thickness in mm				Format and thickness in mm			
Mesh	Bridge	Ao (%)	0.5	1	1.5	2	3	1	1.5	2	3	1	1.5	2	3
6 x 3	0.8	47	L												
10 x 5	1.5	40	0.8	L											
16 x 6.5	1	69		L											
16 x 8	1.5	62		L											
20 x 7	2	47				***L***				***L***					
22 x 12	2.5	58		L											
28 x 10	2	60			L				L						
42 x 13	2.5	61			L				L						

L = 24/48 hours supplier service all over Austria
L = Supply within 5 - 7 working days
Subject to change

>> STAINLESS STEEL next page

Expanded metals

DIAMOND MESH

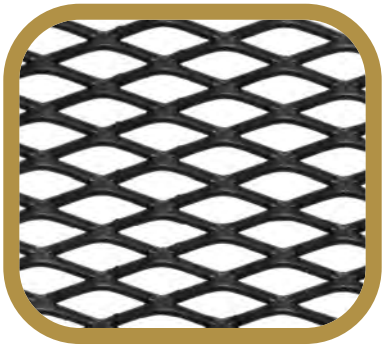


Mesh 3.5 x 1.9

Mesh 6 x 3

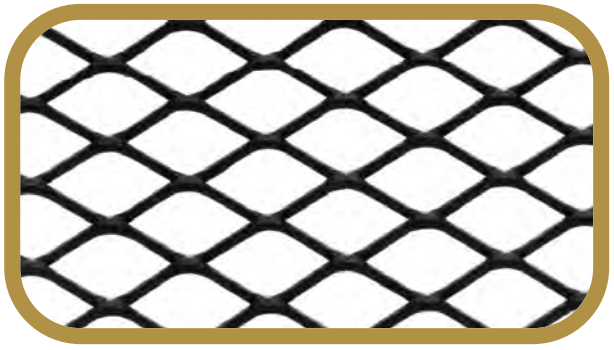
Mesh 8 x 4

Mesh 10 x 5

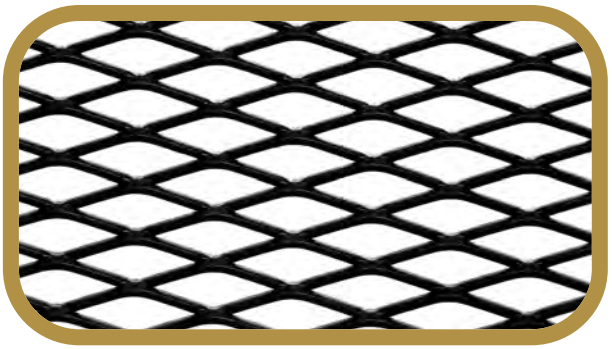


Mesh 16 x 6

Mesh 16 x 8



Mesh 20 x 10



Mesh 20 x 7

Expanded metals

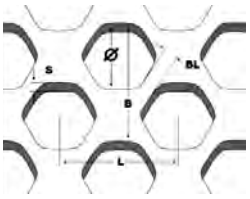
DIAMOND MESH

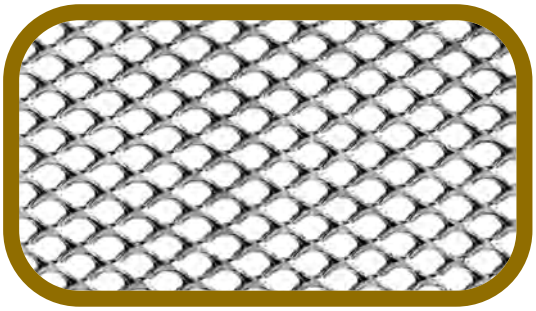
STAINLESS STEEL			1000x2000 / coil 1000 wide					1250x2500 / coil 1250 wide				1500x3000 / coil 1500 wide			
1.4301/X5CrNi18-10			Format and thickness in mm					Format and thickness in mm				Format and thickness in mm			
Mesh	Bridge	Ao (%)	0.5	1	1.5	2	3	1	1.5	2	3	1	1.5	2	3
3.5 x 1.9	0.5	57	***1000***												
4 x 2.2	0.5	54	0.6												
10 x 4.5	1	55	L												
16 x 6.5	1	69		L											
16 x 8	1.5	62		***L***											
20 x 7	1.5	60							***L***						
28 x 10	2	62			***L***										
42 x 12	3	50				L									
42 x 13	2.5	61			***L***										
42 x 18.6	3	69				L									
62 x 23	3	64				***L***									

L = 24/48 hours supplier service all over Austria
L = Supply within 5 - 7 working days
Subject to change

Expanded metals

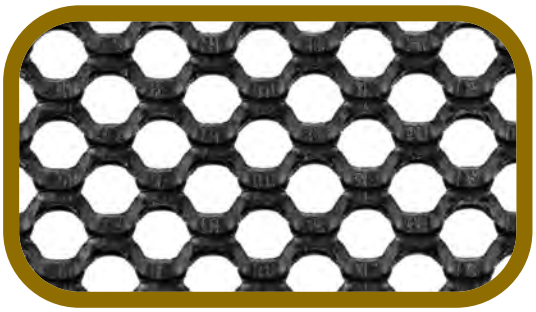
ROUND MESH





Round - diameter 3

Round - diameter 3



Round - diameter 3

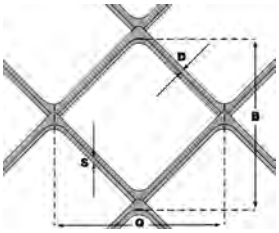
Round - diameter 3

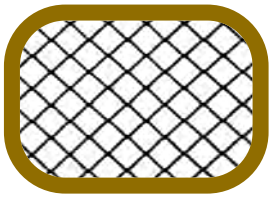
SENDZIMIR GALVANISED			1000 x 2000					1250 x 2500				1500 x 3000			
DX54D			Format and thickness in mm					Format and thickness in mm				Format and thickness in mm			
Mesh	Bridge	Ao(%)	0.5	1	1.5	2	3	1	1.5	2	3	1	1.5	2	3
Round diameter 5	1.3	61		***L***				***L***					upon request		

L = 24/48 hours supplier service all over Austria
L = Supply within 5 - 7 working days
Subject to change

Expanded metals

SQUARE MESH





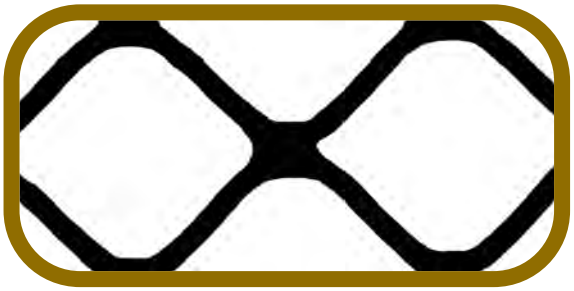
Square 3

Square 5

Square 7

Square 10

Square 16



Square 22

STEEL			1000 x 2000					1250 x 2500				1500 x 3000			
DC04/DD11/S235JR			Format and thickness in mm					Format and thickness in mm				Format and thickness in mm			
Mesh	Bridge	Ao (%)	0.5	1	1.5	2	3	1	1.5	2	3	1	1.5	2	3
Square 3	0.8	62	0.8												
Square 4	1	70		L											
Square 5	1.5	60		L											
Square 6	1.5	66			L										
Square 10	1.5	86			L										
Square 17	2	80				L									
Square 22	3	77				L									
Square 28	4	76				2.5	L							2.5	
Square 33	4.5	80					L								
Square 38	5	82					L								
Square 38	6	78					4								
Square 40	5	82					L								
Square 40	6	79					4								
Square 50	6	83					4								4

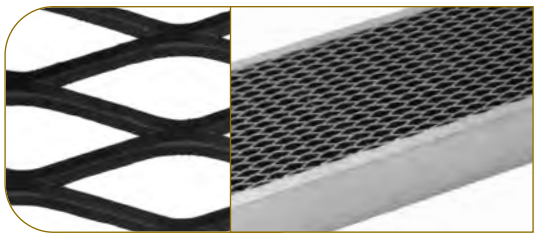
Insect- bird screen

STAINLESS STEEL			1000 x 2000 mm/coil 1000 wide	1250 x 2500 mm/coil 1250 wide				1500 x 3000 mm/coil 1500 wide			
1.4301/X5CrNi18-10			Format and thickness in mm	Format and thickness in mm				Format and thickness in mm			
Mesh	Bridge	Ao (%)	Coils	1	1.5	2	3	1	1.5	2	3
Square 1.5 (Q3)	0.3	68	***0.4 x 1000 x 10 m***								
Square 16 (Q30)	1.5	86	***1.5 x 1000 x 25 m***								

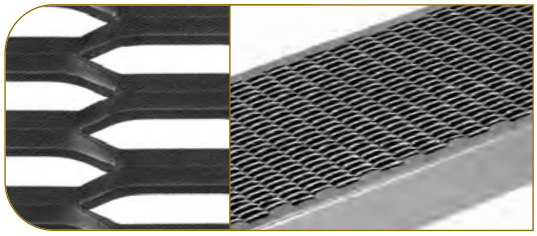
L = 24/48 hours supplier service all over Austria
L = Supply within 5 - 7 working days
Subject to change

Expanded metals

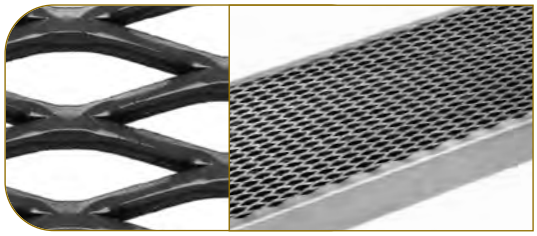
STAIRTREADS AND PANELS



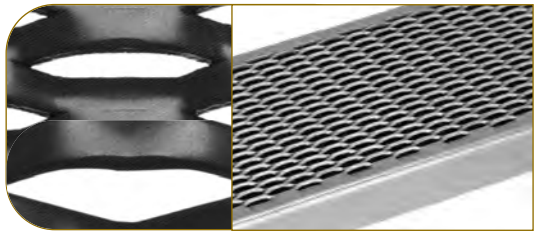
43 x 10 THICKNESS 2 mm



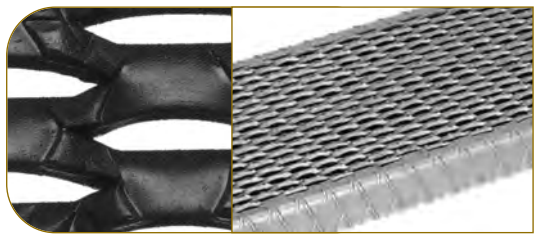
FELDKIRCH THICKNESS 2.5 mm



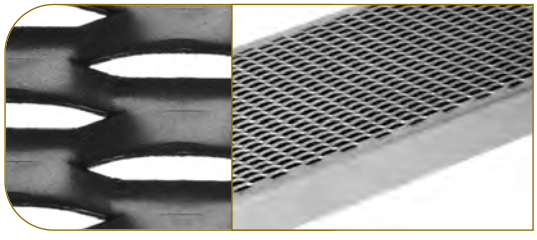
43 x 10 THICKNESS 3 mm



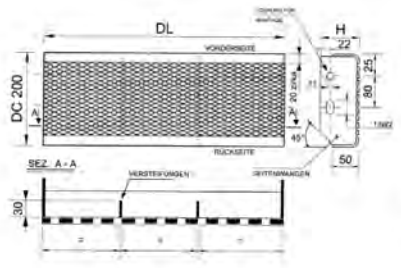
FELDKIRCH THICKNESS 2 mm

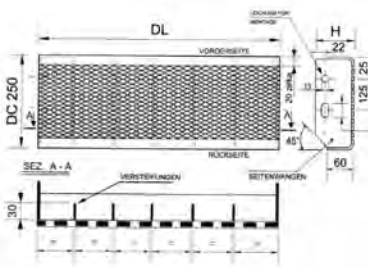


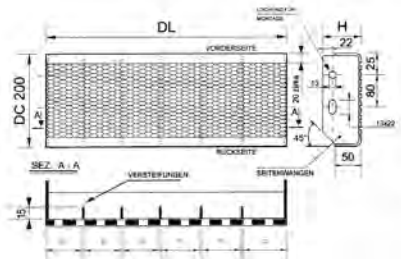
SUPER FELDKIRCH THICKNESS 3 mm

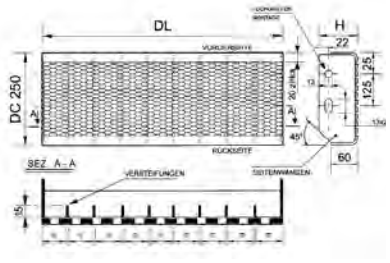


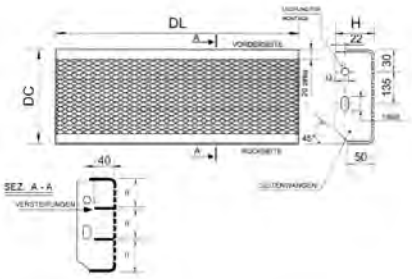
FELDKIRCH THICKNESS 3 mm

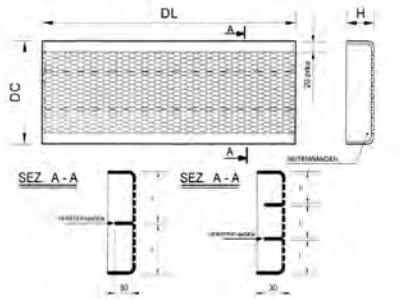


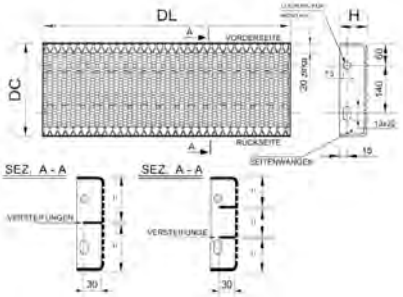


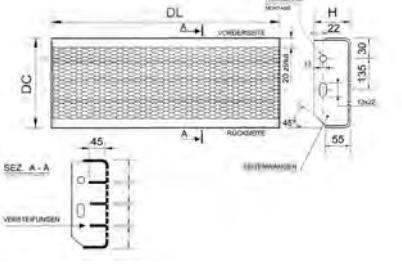


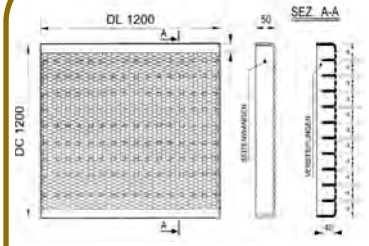




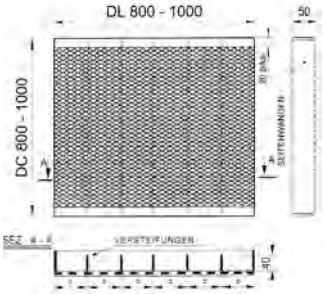




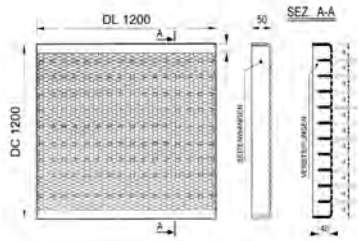




PANEL FELDKIRCH



PANEL 43 X 10



PENAL 43 X 10 THICKNESS 3 mm

Stair treads

STEEL hot-dip galvanised	Feldkirch	43 x 10	Feldkirch	43 x 10	Feldkirch	Super-Feldkirch
Point load (kg)	400	200	200	200	200	200
Format (LxB) mm	h=73/s=3 mm	h=72/s=2 mm	h=72/s=2 mm	h=73/s=3 mm	h=40/s=2.5 mm	h=40/s=3 mm
500 x 200		L	L			
500 x 250					L	
600 x 200		L	L			
600 x 250					L	
700 x 200		L	L			
700 x 250					L	L
800 x 250	L	L	L		L	L
900 x 250		L			L	
1000 x 250	L	L	L		L	L
1200 x 300	L			L		

Panels

STEEL hot-dip galvanised	Feldkirch	43 x 10	Feldkirch	43 x 10	Feldkirch	Super-Feldkirch
Point load (kg)	400	200	and all models available with individual load value!			
Format (LxW) mm	h=73/s=3 mm	h=72/s=2 mm	h=72/s=2 mm	h=73/s=3 mm	h=40/s=2.5 mm	h=40/s=3 mm
800 x 800		L				
800 x 1000	L		upon request			
1000 x 1000	L	L				
1200 x 1000	L					
1200 x 1200	L			L		

ATTENTION: All models are possible in individual sizes and with appropriate load values!

Expanded metal sheets for individual self-assembly of expanded metal gratings - delivery 5 - 7 working days

STEEL				
Mesh	Formats			
Feldkirchen	1000 x 2000 x 7.5 x 4			
Feldkirch	1000 x 2000 x 5 x 3	1250 x 2500 x 5 x 3	1500 x 3000 x 5 x 3	2000 x 1000 x 5 x 3

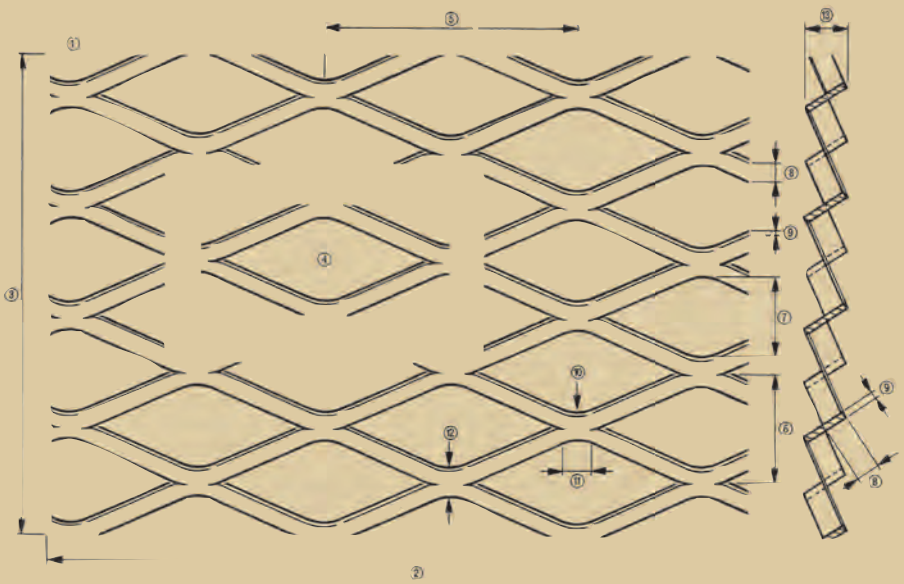
L = Supply within 5 - 7 working days
Subject to change

Advantages of the ProMetall expanded metal gratings:

- slip-resitsant
- safe for use with high heels
- suitable for emergency stairs
- effective as flame portal
- allows smoke to pass through and reduces panic
- snow and earth falls trough
- water drains immediately is ensured
- ventilation is ensured
- individual production of formats and load values
- production of quantities ranging from small to industrial production of bulk quantities possible
- visually striking design

General / Terms

The term “expanded metal” (expanded grating) is efined in the standards DIN 791, BS 405, and BS 4592 part 2. Expanded metal is a material /semi-finished product with holes in the surface which is the result of staggered cuts without material loss and with simultaneous deformation. The mesh of this material is usually diamond-shaped, round or square and neither braided nor welded. The material can be cut to any measurement, without losing its strong, inner hold or disintegrating. Expanded metal can be produced as A) regular design or B) flat-rolled design.



1 Expanded metal
2 Width of the expanded metal, measured in the direction of the long diagonal of the mesh.
3 Length of the expanded metal: measured in the direction of the mesh’s short diagonal.
4 Mesh: Element of the expanded metal, consisting of bridges and the diamond-shaped opening enclosed by them. The size of the mesh depends on the length and width of the mesh.
5 Mesh length: Distance from centre of the node to centre of the node in the direction of the long diagonal.
6 Mesh width: Distance from centre of the node to centre of the node in the direction of the short diagonal.
7 Mesh opening: Opening between four bridges perpendicular to the expanded metal area.
8 Bridge width: Width between the openings of the remaining material.
9 Bridge thickness: Thickness of the used material.
10 Node: Intersection between four neighbouring bridges.
11 Node length: Distance between two long diagonals.
12 Node width: Approximately twice the bridge width.
13 Expanded metal thickness: Total thickness of the expanded metal.

Expanded metals

STANDARDS / TOLERANCES

Tolerances of the mesh

Mesh width	+/– 5 %
Bridge width	+/– 5 %
Bridge thickness	+/– 10 %

Tolerances of the standard plates

With tolerance	+/– 5 %
Length tolerance	+/– 10 %

Tolerances cuttings

Group 1

Width tolerance	+/– 5 %
Length tolerance	+/– 10 %

Group 2 (up to max. 2 mm thickness)

up to 600 mm width/length	+/– 1 mm
up to 1000 mm width/length	+/– 1.5 mm
above 1000 mm width/length	+/– 2 mm

Group 3 (above 2 mm thickness)

up to 600 mm width/length	+/– 2 mm
up to 1000 mm width/length	+/– 3 mm
above 1000 mm width/length	+/– 5 mm

Evenness

Expanded metal is considered flat, if, when placed on a area with the curvature facing upwards, the distance between the metal sheet and the area does not exceed 20 mm (heat-resistant metal sheets 40 mm).

Edge bows

Expanded metal is cosidered even obove the longitudinal edge, if the center of the curvature does not deviate from the strait line by more than 1.5 % of the length at a sheet thickness of 3 mm, and not more than 2 % of the length at a sheet thickness of more than 3 mm.

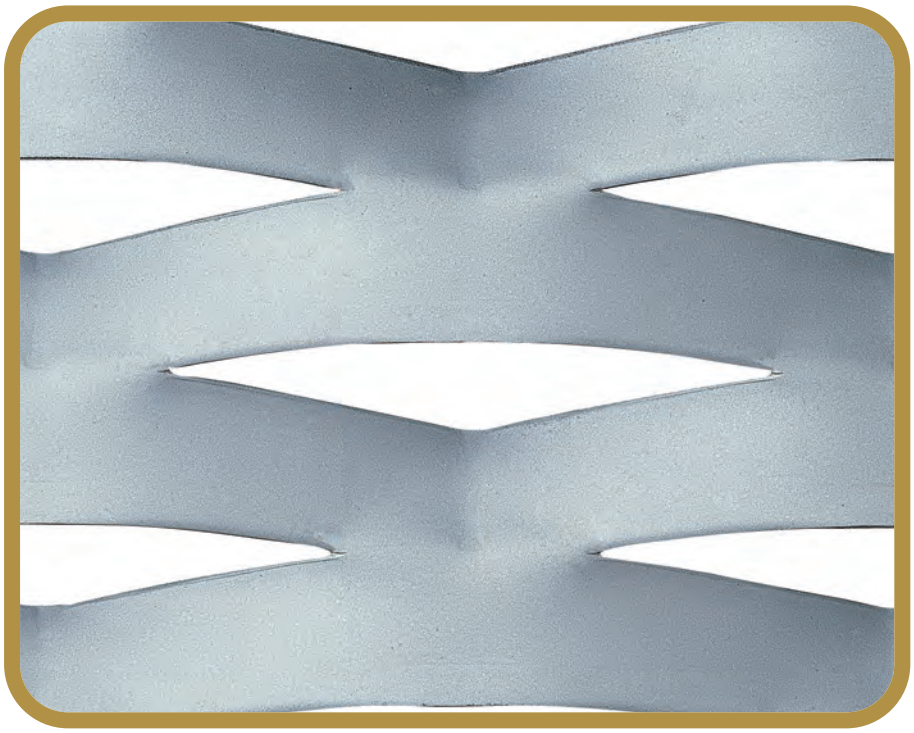
Types of cut

The type of cut of the expanded metal (open / closed mesh per metal sheet side to be specified) must be discussed and defined in relation to the order.

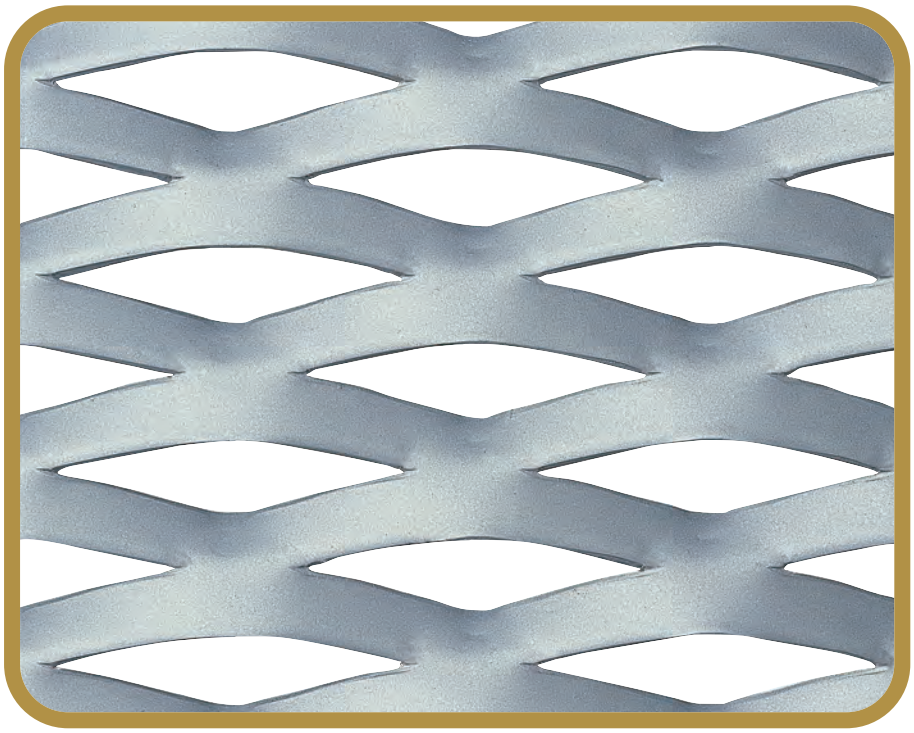
Expanded metals

FACADE TYPES

Ansfelden



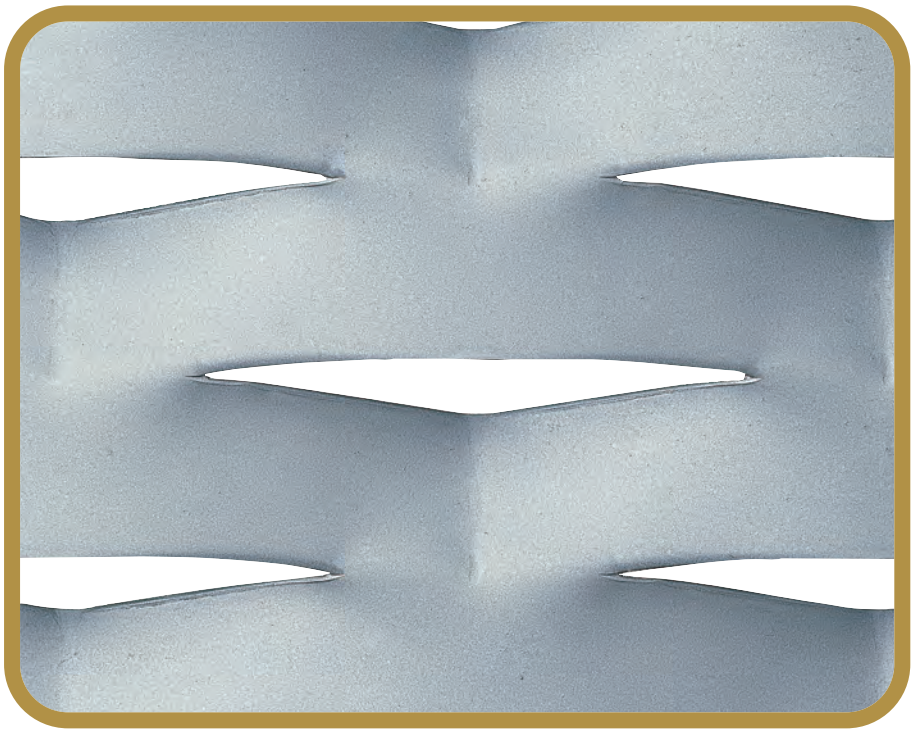
Schwechat



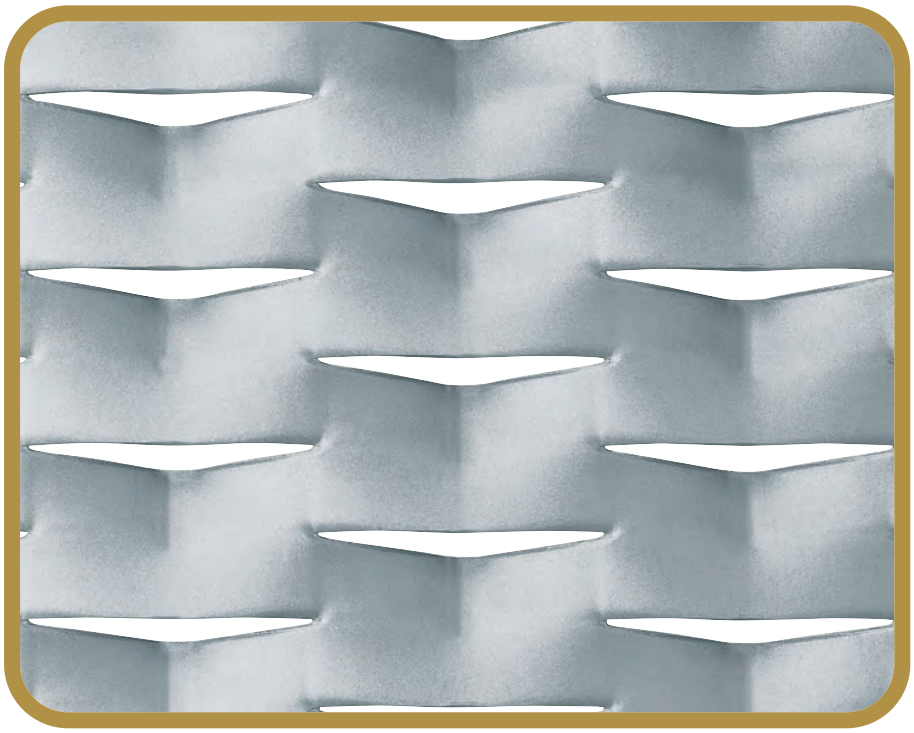
Expanded metals

FACADE TYPES

Amstetten



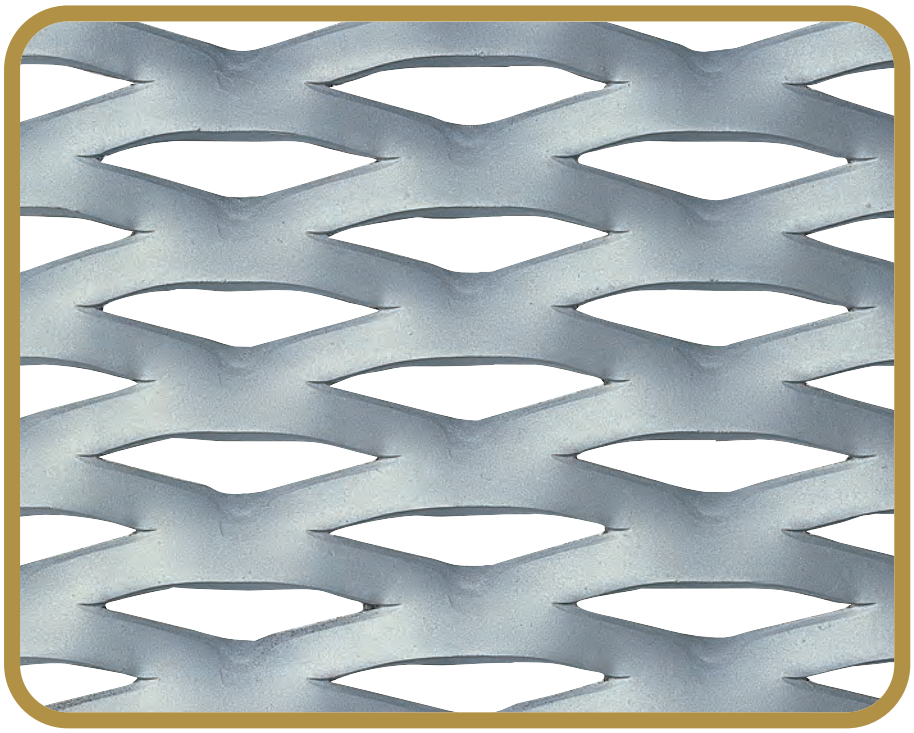
Innsbruck



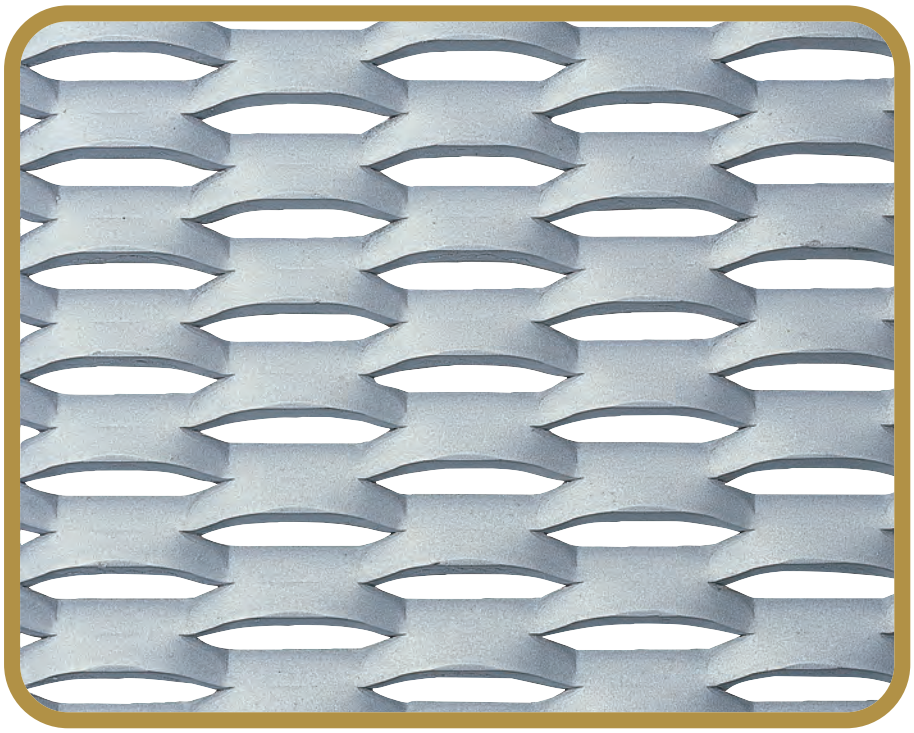
Expanded metals

FACADE TYPES

Feldkirchen



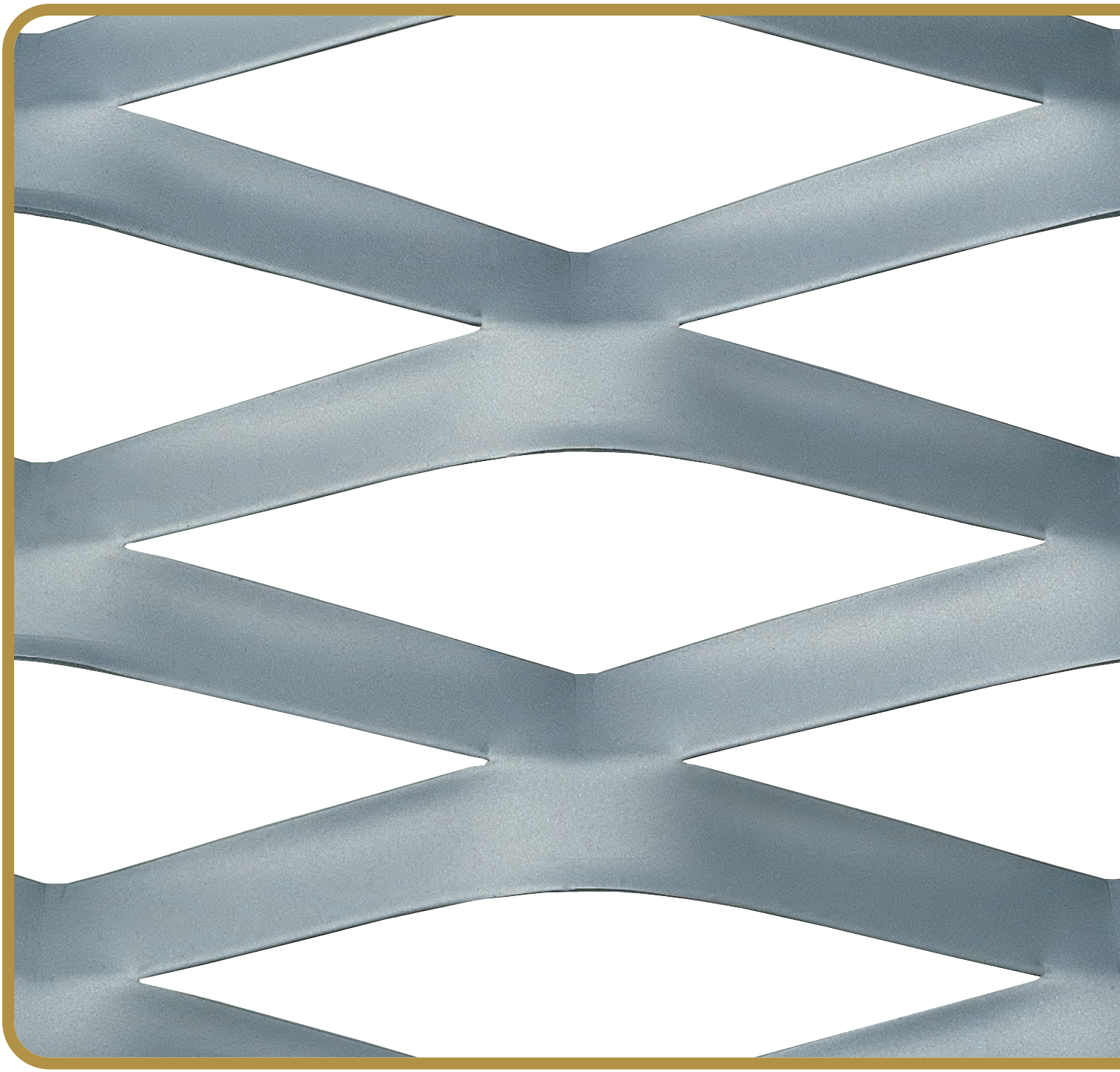
Feldkirch



Expanded metals

FACADE TYPES

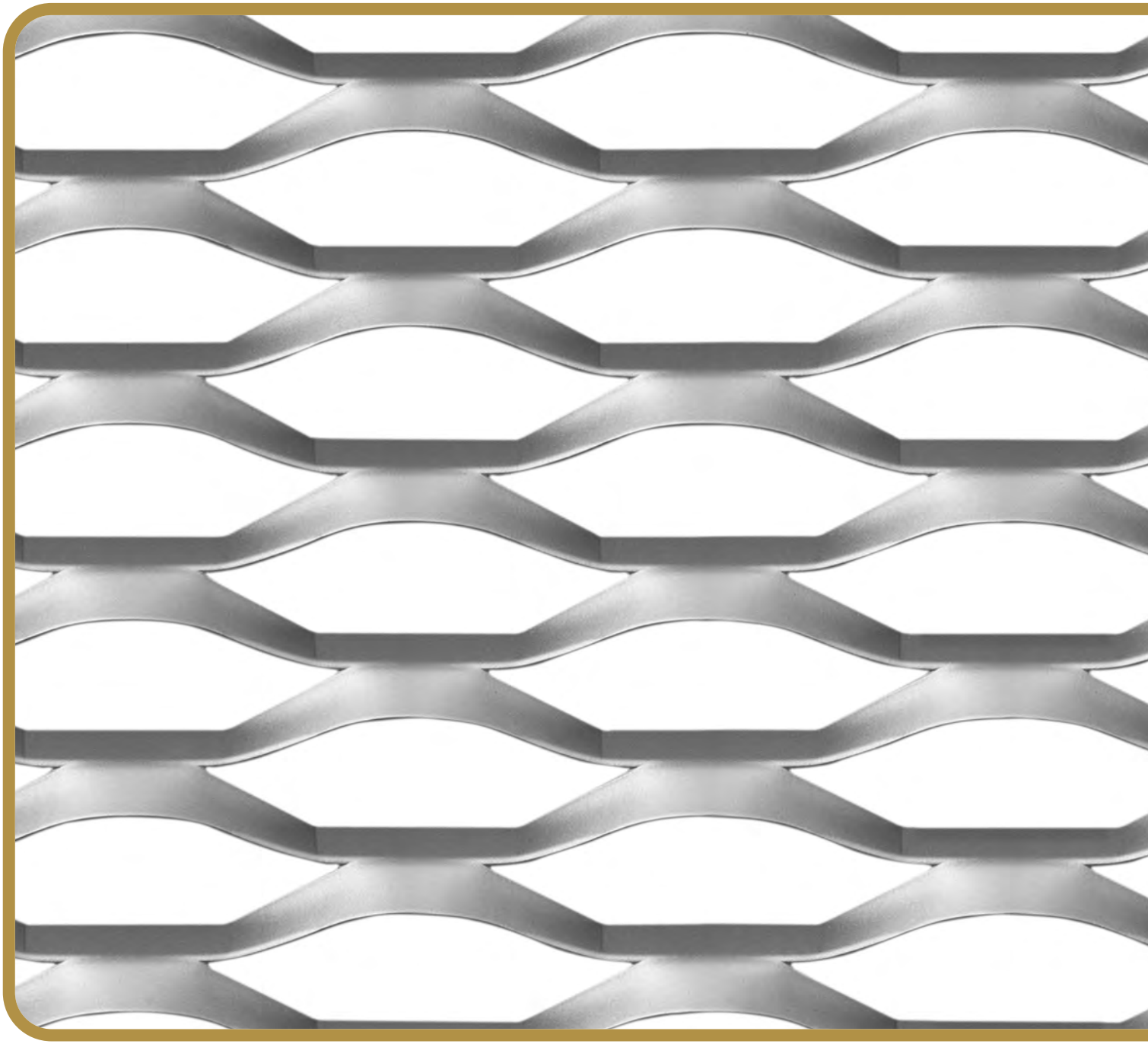
Celje



Expanded metals

FACADE TYPES

Graz

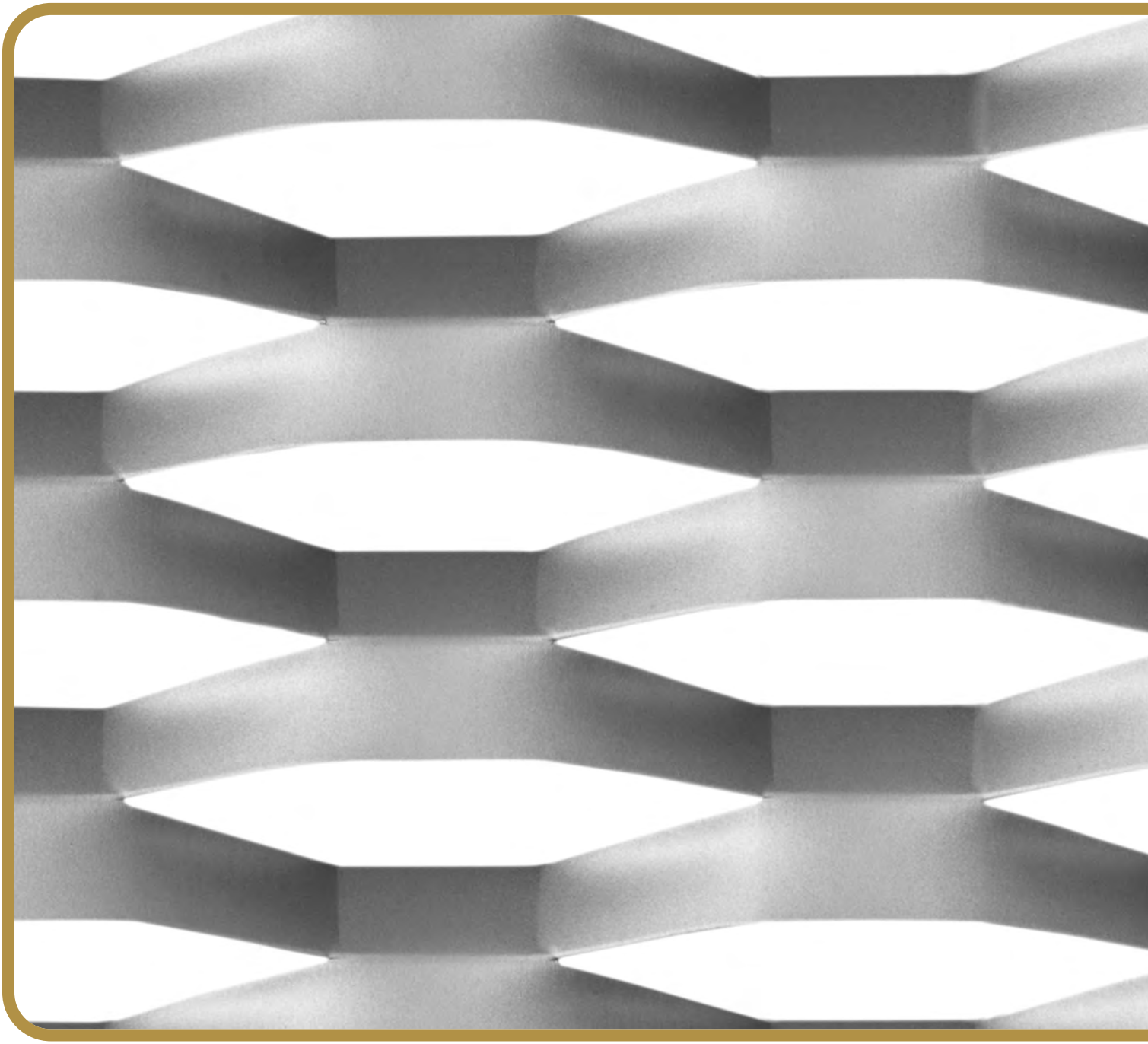


ProMetall

Expanded metals

FACADE TYPES

Leobersdorf

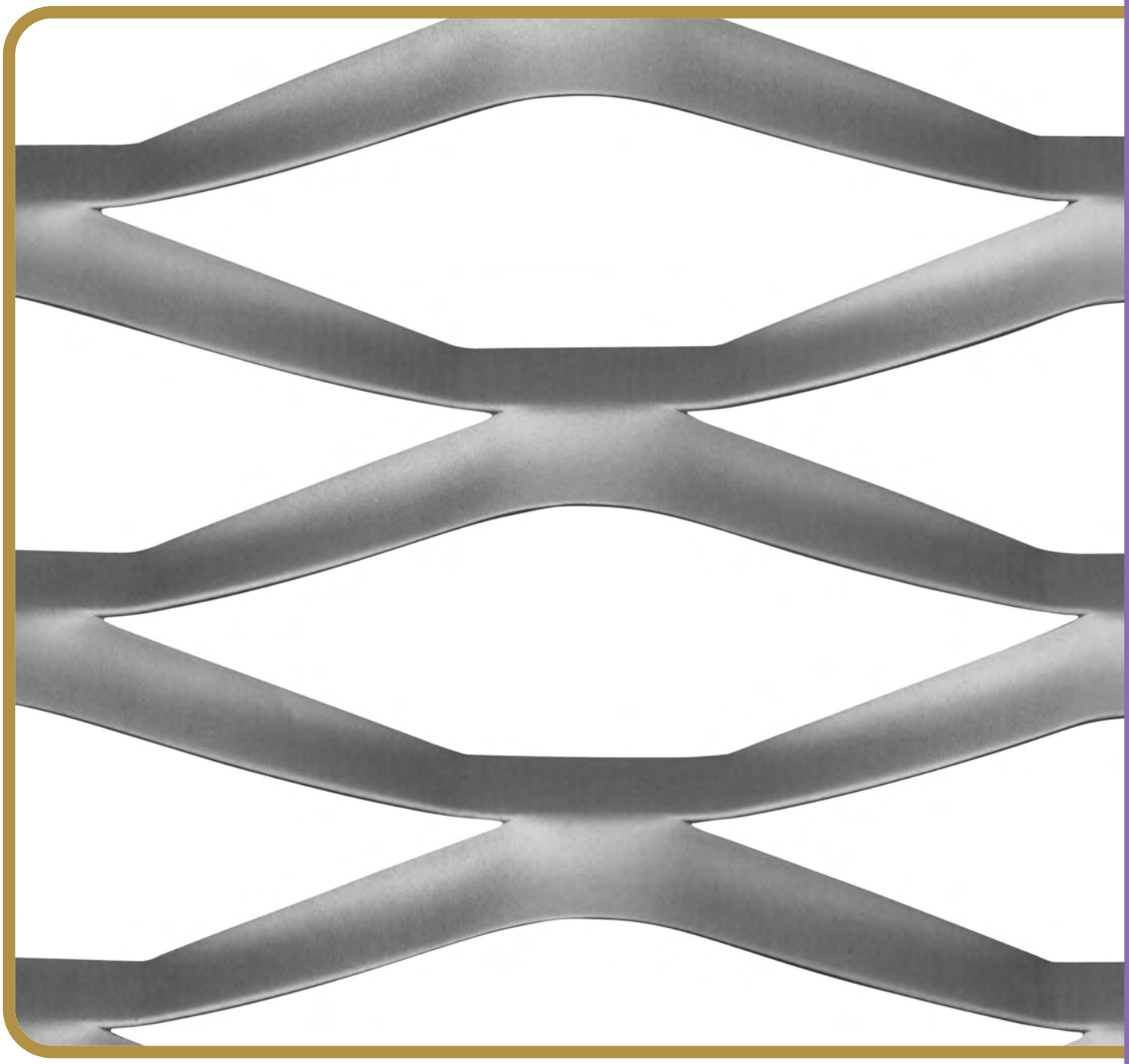


ProMetall

Expanded metals

FACADE TYPES

Salzburg



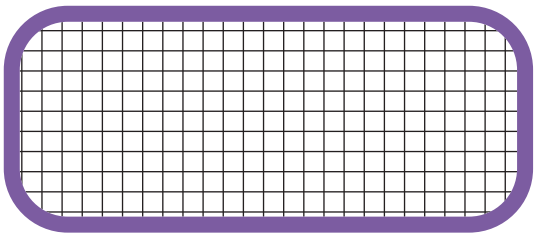
ProMetall

Wire cloth

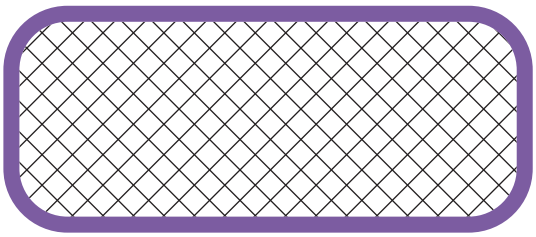
from the experts

Wire mesh

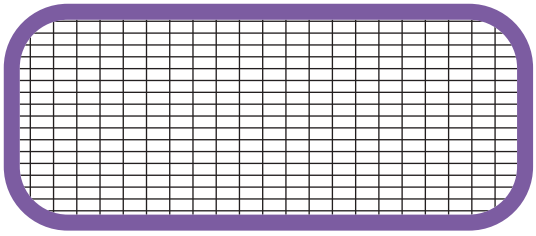
CRIMP SCREENS



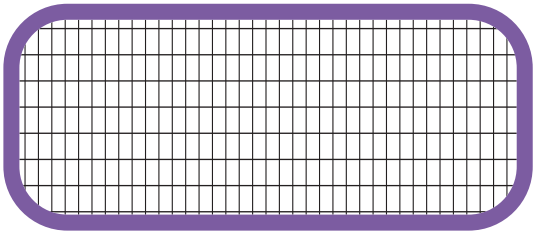
square



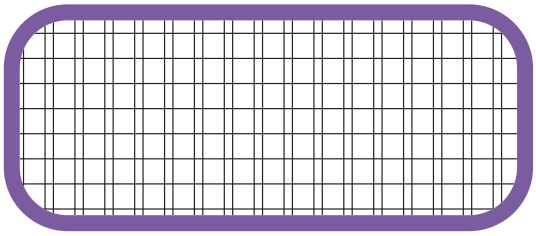
diagonal



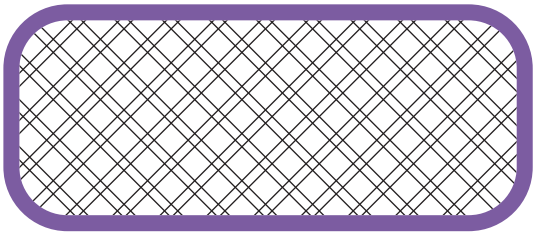
rectangular horizontal



rectangular vertical

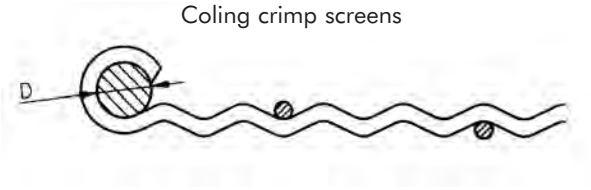


with double rod



diagonal, double mesh

Coling crimp screens



Optimum frame diameter 12 – 14 mm
coiling possible via provided frame.

Materials: Steel, galvanised steel wire, stainless steel, aluminium always in serial production; other wire qualities available upon request. Mesh of 10 – 100 mm (Attention: specification Mesh = inside diameter)

Formats:	up to 2000 x 4000 mm (above on request)
Tolerances:	Length/width -0 mm/ +1 mesh width Fixed measurements length/width +/-2 mm possible (to be agreed)
Delivery:	Small/medium quantities within 1 week larger quantities approx. 2-3 weeks

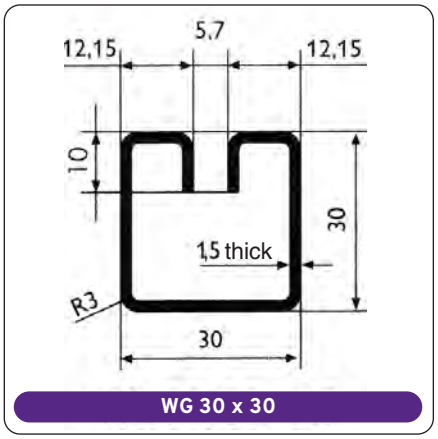
ProMetall

Wire mesh

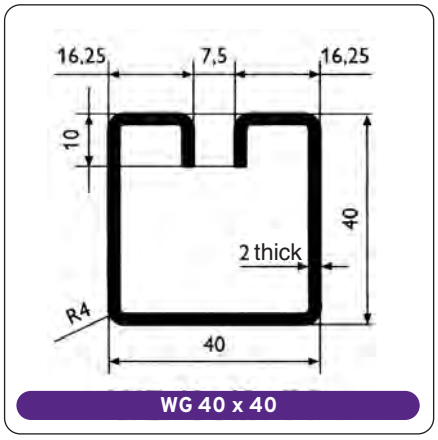
CRIMP SCREENS

WAREHOUSE / SUPPLIER PROGRAMME					
Mesh width mm	Wire strength mm	Mat width mm	Mat length mm	Weight mat kg / m³	ProMetall article no.
STEEL WIRE RAW					
8 x 8	1.6	1200	Coil	3.5	2SSR800
10 x 10	2	1500	Coil	4.2	2SGR800
15 x 15	2.5	1250	2500	4.5	2SMF805
20 x 20	2.5	1250	2500	3.5	2SMF806
20 x 20	2.5	1500	3000	3.5	2SMF801
20 x 20	2.5	2000	2500	3.5	2SGF801
30 x 30	3	1000	2000	3.5	1SKF802
30 x 30	3	1250	2500	3.5	2SMF807
30 x 30	3	2000	2500	3.5	2SSF802
30 x 30	3	2000	3000	3.5	2SSF803
40 x 40	4	1000	2000	4.4	1SKF805
40 x 40	4	1250	2500	4.4	1SMF802
40 x 40	4	1500	3000	4.4	1SGF800
40 x 40	4	2000	2500	4.4	2SSF802
40 x 40	4	2000	3000	4.4	2SSF805
50 x 50	4	1000	2000	3.8	2SKF802
50 x 50	4	1250	2500	3.8	2SMF803
50 x 50	4	2000	2500	3.8	2SSF806
50 x 50	5	2000	2500	5.8	2SSF808
GALVANISED WIRE					
10 x 10	2	1250	Coil	4.2	2VMR800
15 x 15	2.5	1250	Coil	4.5	2VMF801
20 x 20	2.5	1250	2500	3.5	2VMF801
20 x 20	2.5	2000	2500	3.5	2VSF800
30 x 30	3	1000	2000	3.5	2VKF802
30 x 30	3	1250	2500	3.5	2VMF802
30 x 30	3	2000	2500	3.5	2VSF801
40 x 40	4	1000	2000	4.4	1VKF803
40 x 40	4	1250	2500	4.4	2VMF800
40 x 40	4	1500	3000	4.4	2VGF800
40 x 40	4	2000	2500	4.4	2VSF802
50 x 50	5	1250	2500	5.8	2VMF803
50 x 50	5	2000	2500	5.8	2VSF803
STAINLESS STEEL WIRE 1.4301					
10 x 10	2	1500	Coil	4.2	2EGR800
15 x 15	2.5	1500	Coil	4.5	2EGR801
20 x 20	2.5	1000	2000	3.5	1EKF803
25 x 25	3	1000	2000	4.1	2EKF805
30 x 30	3	1000	2000	3.5	1EKF804
30 x 30	3	1250	2500	3.5	2EMF801
30 x 30	3	2000	2500	3.5	2ESF800
40 x 40	3	1000	2000	2.7	2EKF806
40 x 40	4	1000	2000	4.4	1EKF805
40 x 40	4	1250	2500	4.4	2EMF800
50 x 50	4	1000	2000	3.8	1EKF806
50 x 50	4	1250	2500	3.8	2EMF802
STAINLESS STEEL WIRE 1.4571					
30 x 30	3	1000	2000	3.7	2EKF808
STAINLESS STEEL WIRE 1.4404					
40 x 40	4	1000	2000	4.4	2EKF809
ALUMINIUM WIRE					
30 x 30	3	1000	2000	1.4	2AKF800
40 x 40	3	1250	2500	1.3	2AMF800
40 x 40	4	1000	2000	1.9	2AKF801

WAREHOUSE / SUPPLIER PROGRAMME



Profile edging
30 x 30 – 5.7
Steel bright +
Stainless steel
1.4301 for wire 3 mm



Profile edging
40 x 40 – 7.5
Steel bright
for wire 4 mm

WAREHOUSE PROGRAMME:

All positions 24/48-hour supplier service all over Austria

ProMetall

Wire mesh

WELDED SCREENS

Production programme

DELIVERY	Goods that are not in stock: approx. 2 or 3 weeks
MATERIAL QUALITIES	Steel
	galvanised wire; aluminium galvanised wire
	Stainless steel 1.4301/1.4571
	Special qualities upon request
TYPES OF MESH	quare or rectangular mesh
	open or closed mesh (with border wire)
MESH SIZE	20 x 20 mm bis 150 x 150 mm
WIRE THICKNESS	2 – 8 mm
SURFACES	subsequently galvanised or hot-dip galvanised steel
	subsequently powder-coated
	electro-polished or chromium-plated stainless steel wire
SUBSEQUENT PROCESSING	Cutting, edging, notching, punching and
	strengthening of the surface by means of additional
	wire / flat wire / profiles possible upon request

Supplier programme “Fine cloth” steel bright / individually galvanised / stainless steel

DELIVERY DEADLINE	1 week
STEEL BRIGHT	Coils 1000 mm x 50 running meter
	Light mesh width from 6 x 6 to 25 x 25 mm
	Wire thickness: from 1.0 to 2.0 mm
INDIVIDUALLY	Coils 500 mm to 2000 mm
GALVANISED STEEL	various lengths available for delivery mesh width
	from 6.35 x 6.35 – 25 x 25 mm
	Wire thickness from 0.8 - 1.75 mm
STAINLESS STEEL 1.4301	Coils 1000 mm x 50 running meter
	Light mesh width from 6 x 6 – 25 x 25 mm
	Wire thickness from 1.0 - 2.0 mm

Warehouse / supplier programme

Mesh width mm	Wire strength mm	Mat width mm	Mat length mm	Weight mat raw approx. kg	ProMetall article no.	ProMetall article no.
WIRE - MESH MATS SPOT WELDED					STEEL RAW	HOT-DIP GALVANISED
* 20 x 20	2.5	1003	3003	11.73	2SSF942	2VSF914
* 20 x 20	3.0	1003	2003	7.60	2SKF918	2VKF914
20 x 20	3.8	1000	2000	17.50	2SKF920	
25 x 25	3.0	1000	2000	8.88	2SKF905	2VKF910
25 x 25	3.0	1250	2500	13.66	2SMF903	2VMF903
25 x 25	3.0	1000	3000	13.10	2SSF933	2VSF936
25 x 25	3.0	1500	3000	19.50	2SGF903	2VGF904
25 x 25	3.8	1250	2500	22.00	2SMF909	
* 30 x 30	3.0	1023	2013	7.70	2SKF910	2VKF902
30 x 30	3.0	1250	2500	11.38	2SMF901	2VMF902
30 x 30	3.0	1250	4000	18.30	2SSF909	
30 x 30	3.0	1500	3000	16.40	2SGF901	2VGF901
* 30 x 30	3.8	1024	2014	12.34	2SKF908	2VKF912
30 x 30	3.8	1250	2500	18.24	2SMF905	2VMF901
* 40 x 40	3.0	1003	2003	5.38	2SKF909	2VKF901
40 x 40	3.0	1250	2500	8.39	2SMF900	2VMF904
40 x 40	3.0	1500	3000	12.15	2SGF912	2VGF902
* 40 x 40	3.8	1004	2004	10.20	2SKF913	2VKF907
40 x 40	3.8	1500	2500	16.30		2VSF922
40 x 40	4.0	1250	2500	14.92	2SMF904	2VMF906
40 x 40	4.0	1500	3000	21.60	2SGF911	2VGF905
40 x 40	4.0	2000	3000	29.21	2SSF904	2VSF906
* 50 x 15	3.0	1003	2013	9.84	2SKF914	
* 50 x 25	3.8	1004	2004	10.95	2SKF907	
* 100 x 25	3.0	1003	2003	5.73	2SKF901	
* 100 x 25	3.8	1004	2004	9.17	2SKF916	2VKF941
* 100 x 25	3.8	1504	4204	28.60	2SSF923	2VSF902
* 100 x 15	3.8	1504	4205	43.50	2SSF950	2VSF923
* 50 x 50	3.0	1003	2003	4.66	2SKF912	2VKF911
* 50 x 50	3.0	1503	2403	8.12	2SSF936	2VSF935
* 50 x 50	3.0	1503	4203	14.30	2SSF931	2VSF938
* 50 x 50	3.8	1004	2004	7.41	2SKF902	2VKF909
* 50 x 50	3.8	1004	4204	15.41	2SSF919	2VSF917
* 50 x 50	3.8	1204	3004	13.16	2SSF930	2VSF940
* 50 x 50	3.8	1204	4204	18.42	2SSF914	2VSF901
50 x 50	3.8	1500	2500	13.00	2SSF907	2VSF908
* 50 x 50	3.8	1504	3004	16.39	2SGF914	2VGF903
* 50 x 50	3.8	1504	4204	22.94	2SSF911	2VSF904

* = closed edges

Delivery: raw mats generally in stock, from stock subject to availability; galvanised mats 90% in stock - otherwise max. 1 week

Warehouse / supplier programme

Mesh width mm	Wire strength mm	Mat width mm	Mat length mm	Weight mat raw approx. kg	ProMetall article no.	ProMetall article no.
WIRE - MESH MATS SPOT WELDED					**STEEL RAW**	**HOT-DIP GALVANISED**
50 x 50	4.0	1500	3000	17.80	2SGF904	2VGF906
50 x 50	4.0	2000	3000	23.20	2SSF906	2VSF921
50 x 50	4.8	1500	2500	20.70	2SSF913	
* 50 x 50	5.0	1005	2005	12.79	2SKF906	2VKF906
50 x 50	5.0	1250	2500	18.69	2SMF908	2VMF905
* 50 x 50	5.0	1205	4205	31.90	2SSF902	2VSF939
50 x 50	5.0	1500	3000	27.50	2SGF902	2VGF911
* 50 x 50	5.0	1505	4205	39.79	2SSF920	2VSF915
* 50 x 50	5.0	1505	4205	39.79	2SSF920	2VSF915
* 50 x 200	4/6.5	1304	2006	9.04		2VSF916
75 x 75	5.0	1250	2500	12.50	2SMF902	
* 100 x 50	5.0	2000	3000	27.40	2SSF908	2VSF910
* 100 x 60	3.8	1004	2044	5.11	2SKF903	2VKF913
* 100 x 60	3.8	1004	3004	7.48	2SSF934	2VSF926
* 100 x 60	3.8	1004	4204	11.60	2SSF935	2VSF905
* 100 x 60	3.8	1204	3004	8.92	2SSF928	2VSF925
* 100 x 60	3.8	1204	4204	13.84	2SSF939	2VSF924
100 x 60	3.8	1500	2500	10.00	2SSF915	2VSF909
* 100 x 60	3.8	1504	3004	11.11	2SGF915	2VGF907
* 100 x 60	3.8	1504	4204	15.49	2SSF929	2VSF919
* 100 x 60	3.8	2004	4204	20.50	2SSF916	2VSF928
* 100 x 60	5.0	1505	4205	26.60	2SSF910	2VSF927
* 100 x 100	5.0	1005	2005	6.63	2SKF911	2VKF905
100 x 100	5.0	1500	3000	13.67	2SGF913	2VGF912
100 x 100	5.0	2000	3000	18.50	2SSF941	
* 100 x 100	3.4	1004	2004	3.07	2SKF919	
* 100 x 100	3.4	1504	2404	5.39	2SSF938	2VSF918
* 120 x 120	3.4	1564	2404	4.70	2SSF918	
* 150 x 150	3.8	1504	2404	4.63	2SSF937	2VSF942
200 x 50	6.0	2000	3000	32.90	2SSF917	2VSF911
WIRE - MESH MATS SPOT WELDED					**STAINLESS STEEL 1.4301**	
20 x 20	2.2	1000	2000	6.0	2EKF907	
20 x 20	2.85	1000	2000	10.2	2EKF906	
25 x 25	3.0	1000	2000	8.88	1EKF904	
30 x 30	3.0	1000	2000	7.20	1EKF901	
40 x 40	4.0	1000	2000	9.70	1EKF902	
50 x 50	4.0	1000	2000	7.60	1EKF903	
50 x 50	4.8	1000	2000	11.30	2EKF902	

* = closed edges

Delivery: raw mats generally in stock, from stock subject to availability; galvanised mats 90% in stock - otherwise max. 1 week

Warehouse / supplier programme

Mesh width mm	Wire strength mm	Coil width mm	Coil length mm	Weight coil m²	ProMetall article no.
WIRE-MESH SPOT WELDED COILS HOT-DIP GALVANISED					
6.3 x 6.3 6.3 x 6.3 6.3 x 6.3	0.6 0.6 0.6	1000 1500 2000	25 rm 25 rm 25 rm	18 26 35	
12.7 x 12.7 12.7 x 12.7 12.7 x 12.7 12.7 x 12.7	1.0 1.0 1.0 1.0	1000 1200 1500 2000	25 rm 25 rm 25 rm 25 rm	24 29 37 49	 2VSF930 2VSF931
16.0 x 16.0	1.2	1010	25 rm	28	
19.0 x 19.0 19.0 x 19.0 19.0 x 19.0 19.0 x 19.0 19.0 x 19.0	1.0 1.0 1.0 1.4 1.4	1000 1500 2000 1000 1500	25 rm 25 rm 25 rm 25 rm 25 rm	16 24 33 32 48	
25.0 x 25.0 25.0 x 25.0 25.0 x 25.0 25.0 x 25.0	1.75 1.75 1.75 1.75	1000 1200 1500 2000	25 rm 25 rm 25 rm 25 rm	38 45 56 75	
50.0 x 50.0 50.0 x 50.0	2.0 2.0	1000 1000	25 rm 25 rm	25 49	

Warehouse / supplier programme

Mesh width mm	Wire strength mm	Coil width mm	Coil length	Weight coil m²	ProMetal article no.
WIRE-MESH SPOT WELDED COILS STAINLESS STEEL 1.4301/4306 (CUTS OF COILS 25-30 RM)					
3.5 x 3.5	0.5	1200	upon request	0.9	
4 x 4	0.5	1050	upon request	0.8	
6.4 x 6.4	0.7	1000	upon request	1.0	
6.4 x 6.4	0.7	1200	upon request	1.0	
6.4 x 6.4	0.7	1500	upon request	1.0	
6.4 x 6.4	1.0	1000	upon request	1.9	
6.4 x 6.4	1.0	1500	upon request	1.9	
7.5 x 7.5	1.0	1000	upon request	1.6	
10 x 10	1.0	1000	upon request	1.2	
10 x 10	1.0	1500	upon request	1.2	
12 x 12	1.0	1000	upon request	1.0	
12 x 12	1.0	1200	upon request	1.0	
12 x 12	1.0	1500	upon request	1.0	
12 x 12	1.0	2000	upon request	1.0	
12 x 12	1.5	1000	upon request	1.5	
12 x 12	1.5	1200	upon request	1.5	
16 x 16	1.2	1020	upon request	1.1	
16 x 16	1.2	1200	upon request	1.1	
16 x 16	1.2	1500	upon request	1.1	
19 x 19	1.0	1000	upon request	0.7	
19 x 19	1.0	1500	upon request	0.7	
19 x 19	1.0	2000	upon request	0.7	
20 x 20	1.5	1000	upon request	1.4	
25 x 25	1.0	1000	upon request	0.5	
25 x 25	1.0	1200	upon request	0.5	
25 x 25	1.0	1500	upon request	0.5	
25 x 25	1.0	2000	upon request	0.5	
25 x 25	1.5	1000	upon request	1.1	
25 x 25	1.6	1000	upon request	1.3	
25 x 25	1.6	1500	upon request	1.3	
25 x 25	2.0	1000	upon request	2.0	
25 x 25	2.0	1200	upon request	2.0	
25 x 25	2.0	1500	upon request	2.0	
25 x 25	2.0	2000	upon request	2.0	
50 x 50	1.0	1500	upon request	0.5	
50 x 50	2.0	1020	upon request	1.0	
105 x 15	2.85	1220	upon request	3.9	

Wire mesh

DOUBLE-ROD MATS

Warehouse / supplier programme

Mesh width mm	Wire thickness vertical / horizontal in mm	Mat height mm	Mat length mm	Weight mat kg / unit
DOUBLE ROD MATS HOT-DIP GALVANISED / RAL 6005 MOSS GREEN/ RAL 7016 ANTHRACITE				
50 x 200	8/6	630	2510	14.3
50 x 200	8/6	830	2510	18.3
50 x 200	8/6	1030	2510	22.3
50 x 200	8/6	1230	2510	26.4
50 x 200	8/6	1430	2510	30.4
50 x 200	8/6	1630	2510	34.4
50 x 200	8/6	1830	2510	38.5
50 x 200	8/6	2030	2510	42.5
50 x 200	8/6	2230	2510	46.5
50 x 200	8/6	2430	2510	50.5

Mesh width mm	Wire thickness vertical / horizontal in mm	Mat height mm	Mat length mm	Weight mat kg / unit
DOUBLE ROD MATS LIGHT HOT-DIP GALVANISED / RAL 6005 MOSS GREEN/ RAL 7016 ANTHRACITE				
50 x 200	6/5	630	2510	8.7
50 x 200	6/5	830	2510	11.2
50 x 200	6/5	1030	2510	13.8
50 x 200	6/5	1230	2510	16.3
50 x 200	6/5	1430	2510	18.8
50 x 200	6/5	1630	2510	21.3
50 x 200	6/5	1830	2510	23.9
50 x 200	6/5	2030	2510	26.3
50 x 200	6/5	2230	2510	28.4
50 x 200	6/5	2430	2510	30.8

Warehouse / supplier programme

Mesh width mm	Wire thickness vertical / horizontal in mm	Mat height mm	Mat length mm	Weight mat kg / Stk.
DOUBLE ROD MATS TIGHT MESH HOT-DIP GALVANISED				
25 x 200	6/5	630	2510	12,9
25 x 200	6/5	830	2510	16,8
25 x 200	6/5	1030	2510	20.7
25 x 200	6/5	1230	2510	24.5
25 x 200	6/5	1430	2510	28.4
25 x 200	6/5	1630	2510	32,2
25 x 200	6/5	1830	2510	36.1
25 x 200	6/5	2030	2510	39.9
25 x 200	6/5	2230	2510	43.8
25 x 200	6/5	2430	2510	47.6

Mesh width mm	Wire thickness vertical / horizontal in mm	Mat height mm	Mat length mm	Weight mat kg / unit
DOUBLE ROD MATS WIDE MESH HOT-DIP GALVANISED				
100 x 200	8/6	1030	2510	15.9
100 x 200	8/6	2030	2510	29.8

Warehouse / supplier programme

Posts mm	Post length mm	Fence height mm	Weight kg	Length cover strip mm
DOUBLE ROD MATS WITH COVER STRIP - PFA HOT-DIP GALVANISED / RAL 6005 MOSS GREEN/ RAL 7016 ANTHRACITE				
60 x 40	1000	630	4.0	670
60 x 40	1200	830	4.9	870
60 x 40	1500	1030	6.0	1070
60 x 40	1700	1230	7.0	1270
60 x 40	2000	1430	8.2	1470
60 x 40	2200	1630	9.0	1670
60 x 40	2400	1830	10.0	1870
60 x 40	2600	2030	11.0	2070
60 x 40	2800	2230	11.7	2270
60 x 40	3000	2430	12.4	2470

Posts mm	Post length mm	Fence height mm	Weight kg	Number bases
POSTS WITH PLASTIC BASE & COUNTER PLATE - PFK HOT-DIP GALVANISED / RAL 6005 MOSS GREEN/ RAL 7016 ANTHRACITE				
60 x 40	1000	630	3.0	2
60 x 40	1200	830	3.6	3
60 x 40	1500	1030	4.5	3
60 x 40	1700	1230	5.1	4
60 x 40	2000	1430	6.0	4
60 x 40	2200	1630	6.6	4
60 x 40	2400	1830	7.2	5
60 x 40	2600	2030	7.8	5
60 x 40	2800	2230	8.4	5
60 x 40	3000	2430	9.0	6

Posts mm	Post length mm	Fence height mm	Weight kg	Number U-clamps
POSTS WITH U-CLAMP - PFU HOT-DIP GALVANISED / RAL 6005 MOSS GREEN/ RAL 7016 ANTHRACITE				
60 x 40	1000	630	3.3	2
60 x 40	1200	830	4.0	2
60 x 40	1500	1030	4.5	2
60 x 40	1700	1230	5.1	2
60 x 40	2000	1430	6.6	2
60 x 40	2200	1630	7.3	3
60 x 40	2400	1830	8.0	3
60 x 40	2600	2030	8.6	3
60 x 40	2800	2230	9.3	4
60 x 40	3000	2430	9.9	4

Warehouse / supplier programm

GATE SYSTEMS HOT-DIP GALVANISED / RAL 6005 MOSS GREEN / RAL 7016 ANTHRACITE

Inside diameter 1,000 mm	Fence height mm	Weight kg
GATE SYSTEM SINGLE PANEL "HEAVY", 60 X 40 MM		
	830	38
	1030	43
	1230	48
	1430	55
	1630	57
	1830	58
	2030	65

Inside diameter 1,000 mm	Fence height mm	Weight kg
GATE SYSTEM SINGLE PANEL "MEDIUM", 40 X 40 MM		
	830	23
	1030	26
	1230	30
	1430	35
	1630	42
	1830	49
	2030	54

Inside diameter 3,000 mm	Fence height mm	Weight kg
GATE SYSTEM DOUBLE PANEL "HEAVY", 60 X 40 MM		
	830	72
	1030	82
	1230	97
	1430	111
	1630	128
	1830	159
	2030	170

Inside diameter 3,000 mm	Fence height mm	Weight kg
GATE SYSTEM DOUBLE PANEL "MEDIUM", 40 X 40 MM		
	830	60
	1030	68
	1230	77
	1430	85
	1630	94
	1830	102
	2030	110

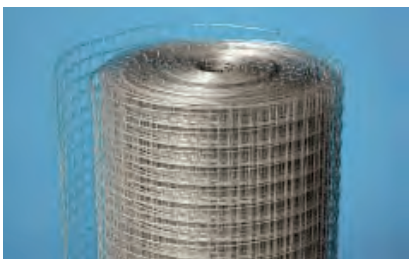
Wire cloth

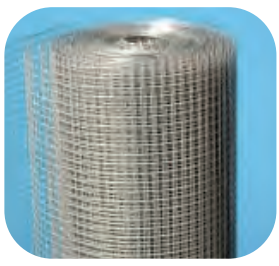
APPLICATION EXAMPLES

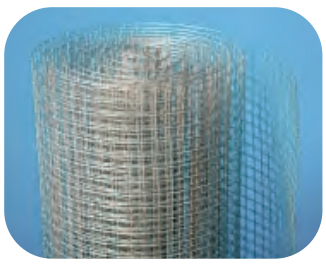
Spot-welded gratings

Crimp screens

Welded-Wire-Mesh galvanised coils







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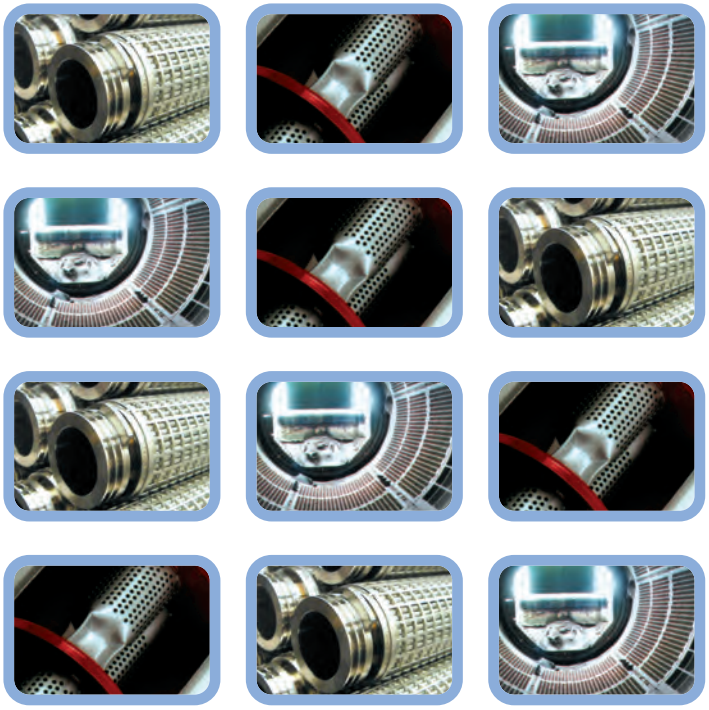
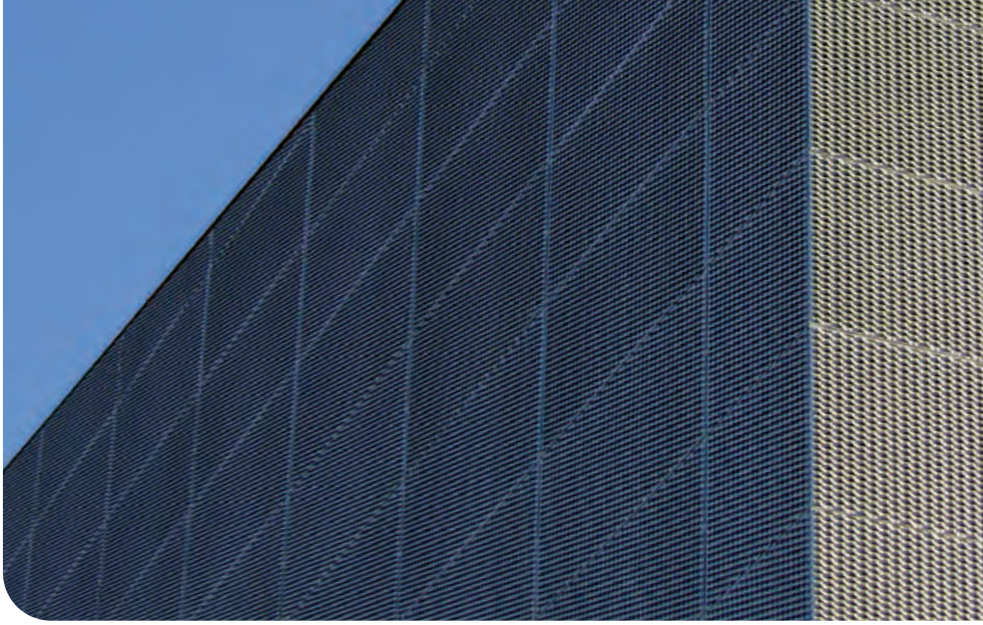
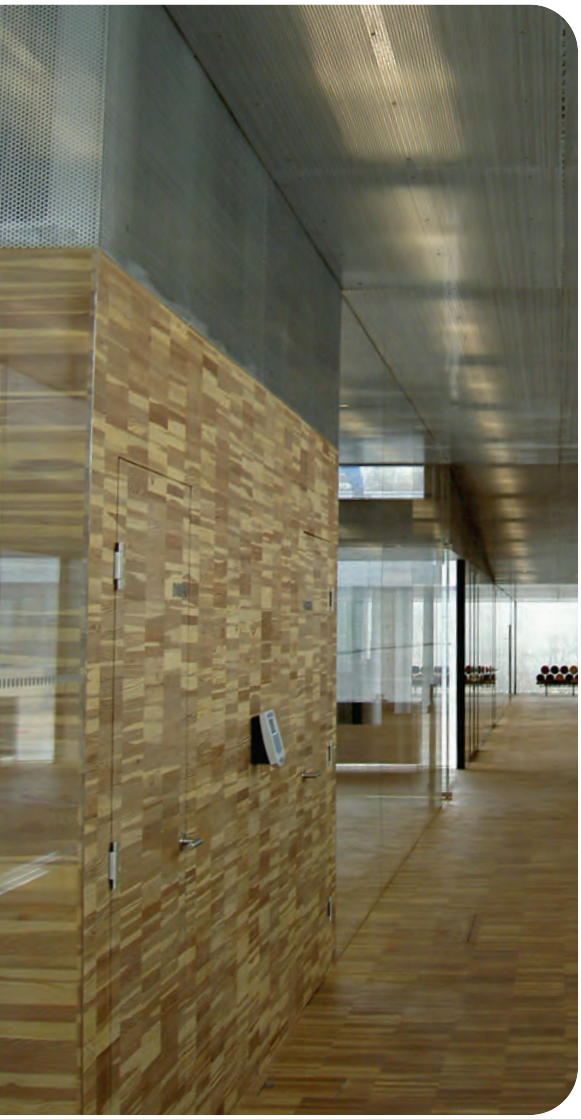


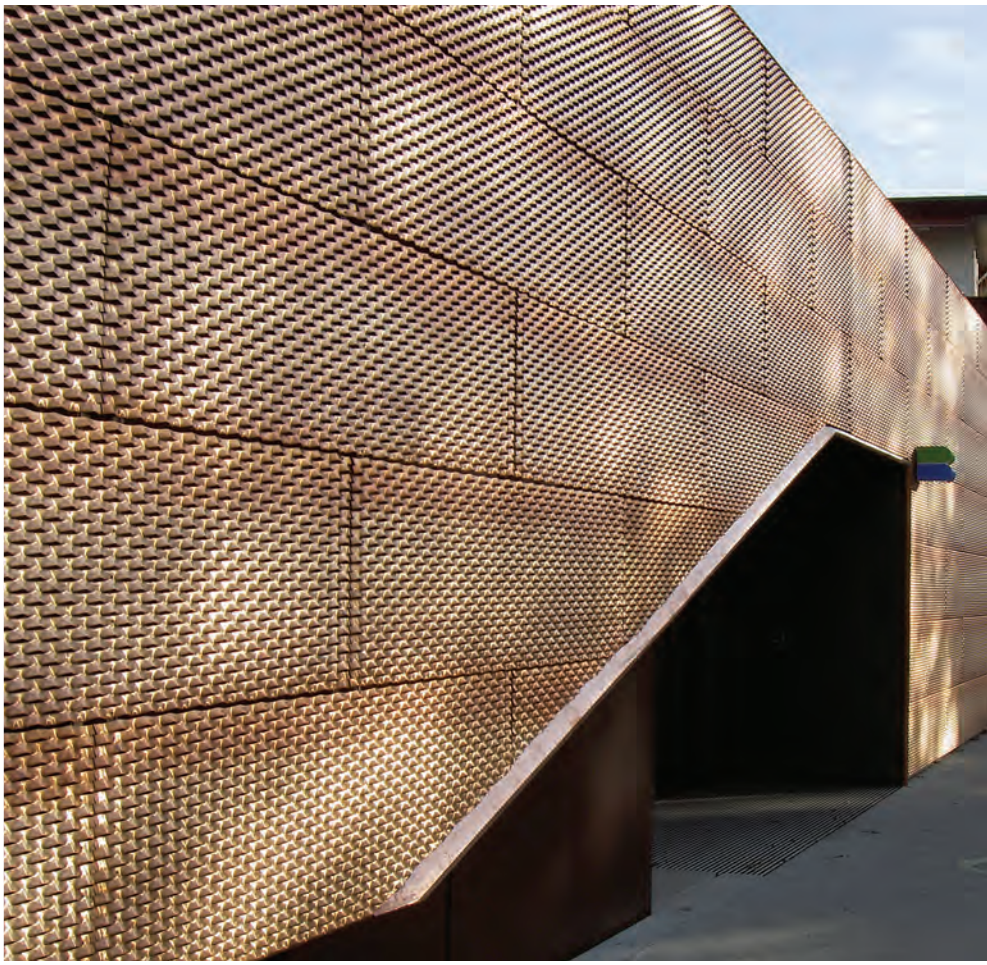
Information

Application examples

Map







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Application examples

PROMETALL PRODUCTS

Architecture / Design	Staircase railings Ceiling cladding Façade claddings/sun protection Shop fitting/shop furniture/shelving systems
Interior design	Lighting technology Radiator covers Metal furniture/office furniture Kitchen panels/ventilation grilles Waste/laundry containers Loudspeaker covers
Mechanical engineering/ Plant engineering	Protective grating/partition walls Ventilation grilles Sound insulation/proofing Support for thermal insulation Filter technology/support/filterpipes
Equipment construction	Control cabinet application Computer casing parts
White goods industry	Washer-/Dryer drums filter Inserts for dishwashers Door elements for microwave ovens
Processing industry	Sugar industry (beet washing; centrifuges ...) Paper/wood industry (filter/sieve technology) Water treatment (well filter, treatment plants ...) Mining/aggregate industry (sieve/washing systems) Flour mills (filter/sieve inserts)
Food industry	Baking trays Wine presses Feed production Dairy plants, cheese dairies, slaughterhouse facilities
Car industry / Vehicle construction	Radiator protection (passenger cars, trucks, tractors) Oil / hydraulic filter elements Exhaust gas/sound absorption filter Explosion protection grating for airbags

Map

PROMETALL ACCESS MAP