

STACO

GRATING

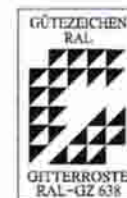


STACO®

- *Pressure Welded Grates (SP)*
- *Pressed Grates (PR)*
- *Offshore Grates*
- *Stainless Steel Grates*
- *Stair Treads*
- *Storage Program*
- *Express Service*
- *Security*
- *Special Designs*



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STACO® Pressure Welded Grates (SP Grating)

More than 30 years ago, STACO® was the first manufacturer to start making pressure welded grates within the then EEC.

From the very beginning, we have considered product development to be of great importance. And we have been successful, since a number of our developments have become an important part of modern grating manufacture, today. This many years' experience ensures quality, safety, competence, and an overall service for our customers. This is what makes the difference!

When your responsibility is the safety of people, you can rely on STACO® SP Grating.

1. More than 780 pressure welds per m² (in case of standard mesh 3032) and perfected processing make STACO® SP Grating a "one-piece construction". These grates are high-quality safety components offering permanent stability also under extreme loading conditions and environmental influences.

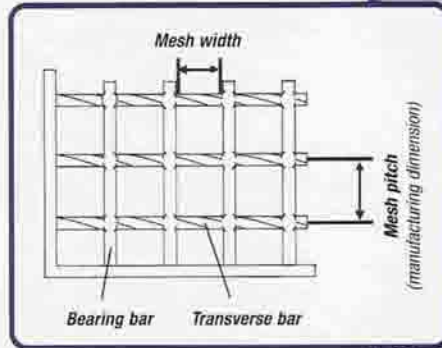
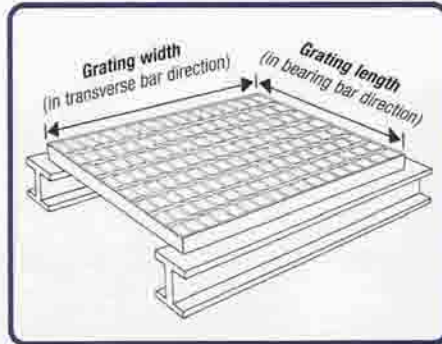
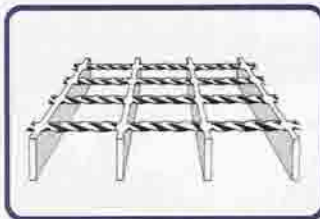
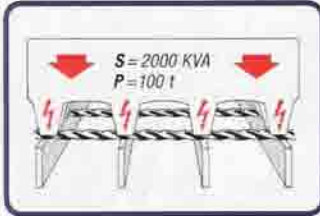
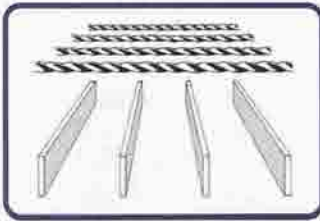
2. Our overall quality assurance concept also includes the organization in safety-relevant fields such as the selection of starting materials, manufacturing processes, design, and planning.

Some customer references of the STACO® Group:

AMOCO, AUDI, BABCOCK, BASF, BAYER, BMW, CITROEN, COCKERILL, DEGUSSA, DOW CHEMICAL, DÜRR, HAUGESUND M.V., HENKEL, HOECHST, HÜLS AG, KALI CHEMIE, LENTJES, LURGI, MANNESMANN, METKA, NOELL, NORSK HYDRO, OPEL, PECHINEY, PEUGEOT, PORSCHE, RHEINISCHE KALKSTEINWERKE, RENAULT, RWE, SEAT, SIDMAR, STATOIL, STEAG, STEINMÜLLER, THYSSEN KRUPP STAHL AG, UHDE, USINOR, VOLKSWAGENWERKE, and many others ...



STACO® SP Grating: Manufacturing and Designs



Design Principle

The name "SP Grating" was introduced by STACO® more than 30 years ago, and still today is an internationally approved designation for the pressure welded grating design of extreme stability. During pressure welding, the twisted transverse bars are fully welded to the bearing bars under high pressure at every junction point. The result is a "one-piece construction" with a higher loadability and stability than other types of grating. STACO® SP Grating is distinguishing itself by its extreme durability and torsional rigidity. The application of this type of grating permits the total statical loading of structural units to be increased.

The **bearing bars** serve for load transmission and thus should always be located on a sturdy supporting structure.

The **transverse bars** are used to connect the bearing bars with each other and contribute to load distribution.

The **mesh width** defines the clearance between the bars.

The **mesh pitch** (manufacturing dimension) is the spacing between the bar centers.

Edge Binding

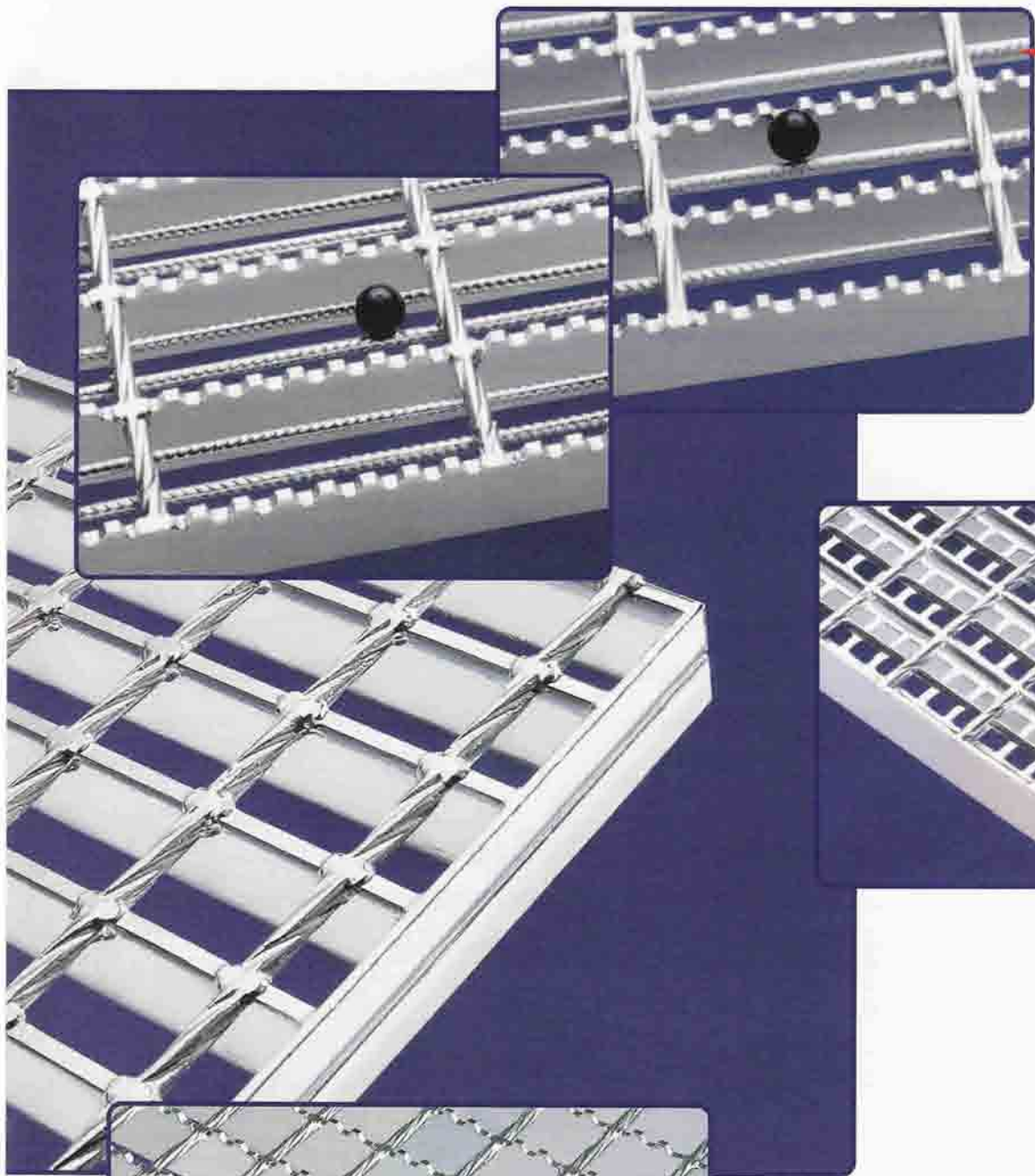
For transverse binding the STACO® SP Grating will be provided with a steel flat with beaded profile ensuring that each bearing bar will automatically be welded to the binding free from slag. The grating may also be provided with other special bindings as a function of the specific application involved. (See also page 32.)

STACO® Stainless Steel Grates

STACO® Stainless Steel Grates are particularly corrosion-resistant to air, water and aggressive substances. The material satisfies the hygienic requirements as set forth for use in the food processing industries. (For manufacturing program see pages 8/9 and 22/23.)

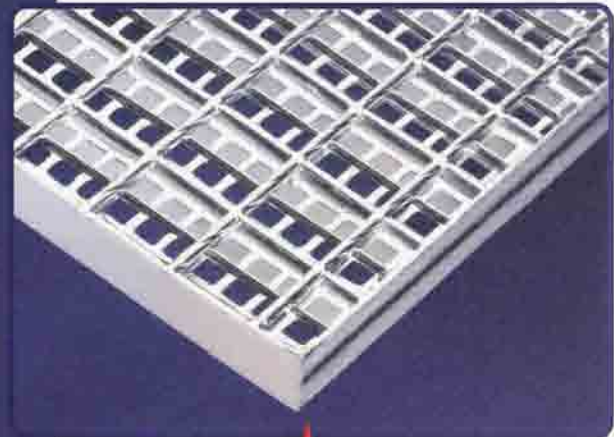
EDELSTAHL®
Rost frei

STACO® SP Grating
also available
in stainless steel
(see pages 22/23)



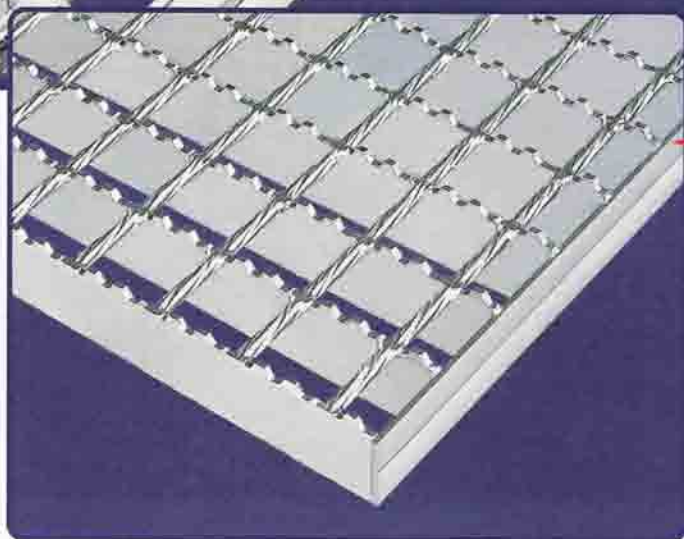
STACO® Offshore Grates

With one or two round bars welded in position between the bearing bars, STACO® Offshore Grates prevent a ball of 15 mm dia. or other objects of corresponding size from falling through the grating. This satisfies particular safety regulations such as by the Norwegian Petroleum Directorate, for instance.
(For manufacturing program see pages 8/9.)



STACO® Safety Mesh Grating

With a safety profile welded to the underside, STACO® SP 30 x 32 (AA) 8 x 8 prevents an 8 mm ball from falling through the grating as called for by the Spanish safety regulation Real Decreto 486/1997.
(For manufacturing program see pages 8/9.)



STACO® Serrated Non-slip Grates

Snow, ice, oil, fat, moisture or other critical conditions at ascending or descending catwalks or surfaces increase the danger of skidding. In such cases STACO® Serrated Grates and treads with their non-slip notches offer a very good grip. STACO® SP Serrated Grating is manufactured in different designs.
(For manufacturing program see pages 8/9.)

STACO® Symmetric Grating

In case of identical grating dimensions, end panels of the same size will always be manufactured by the STACO® Symmetric method.

ADVANTAGE 1:

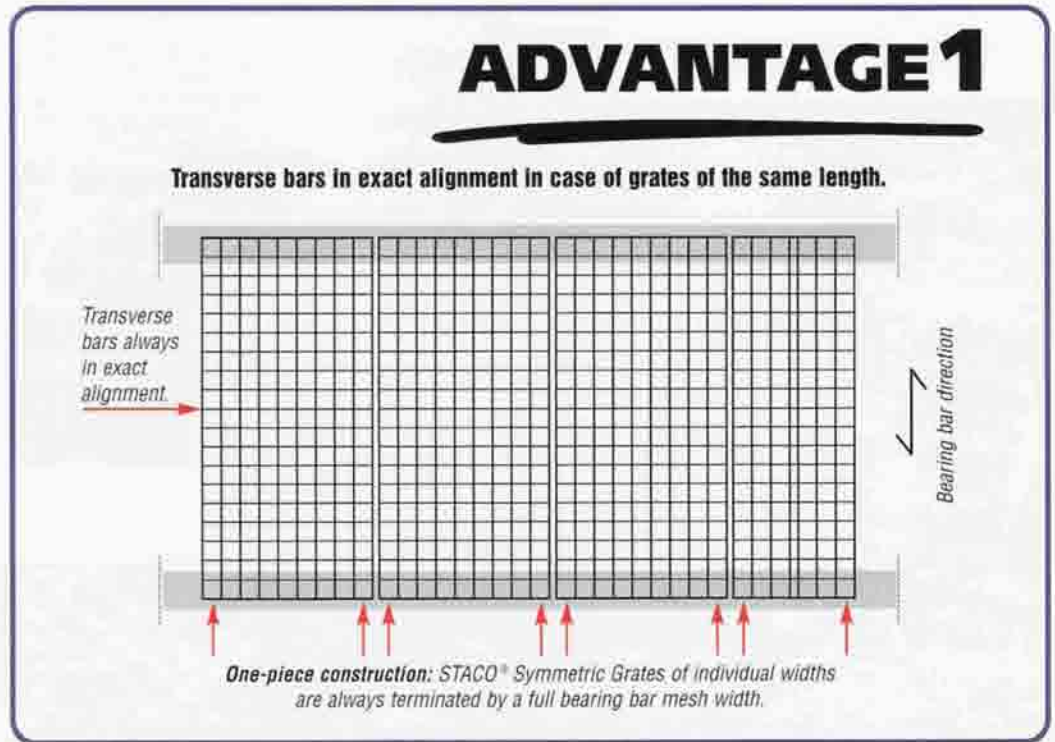
An excellent overall impression is obtained in case of stages, platforms and catwalks, since the transverse bars will always be in exact alignment, now.

ADVANTAGE 2:

Automatic Fitting Mesh

With the new method, the fully-automatic manufacture of fitting grates in individual widths of 430 mm to 1000 mm is possible for the first time. We guarantee that by insertion of a fitting mesh the STACO® Symmetric Grates will always be terminated by a full bearing bar mesh on both sides.

Accordingly, manual welding of a final bearing bar ("third side") is no longer necessary. These grates will now form a homogeneous unit wherein all bearing bars are pressure welded by a resistance welding method at all junction points to form a "one-piece construction":



ADVANTAGE 3

Identical final panel meshes provided automatically.


STACO® Symmetric Grating
also available in
stainless steel
(see pages 22/23)

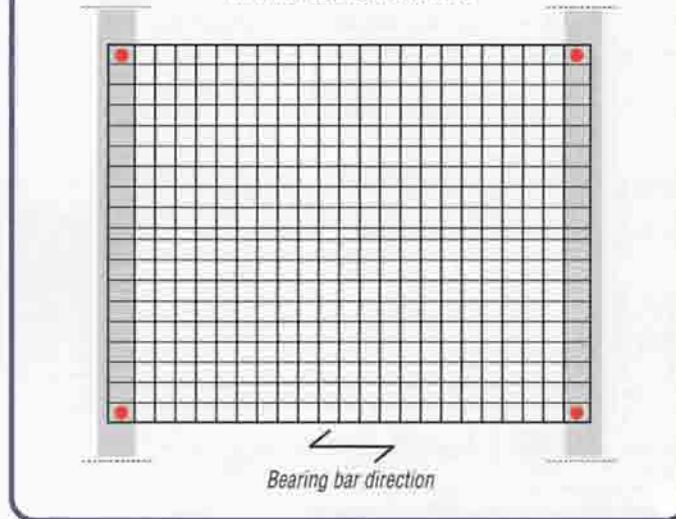
STACO®

ADVANTAGE 3:

With the new STACO® Symmetric manufacturing process we are in a position to guarantee a minimum end panel size in series production. The size of end panel meshes may be determined so that fastenings such as welding or setting bolts may be attached in the first mesh without any problems.

In case of small production runs requiring direct assembly via the corner meshes, this advantage will be of decisive importance for fast and proper grating assembly.

Optimal assembly by means of welding or setting bolts at all of the four corners.



This STACO® assembly convenience is achieved by two methods:

1) 

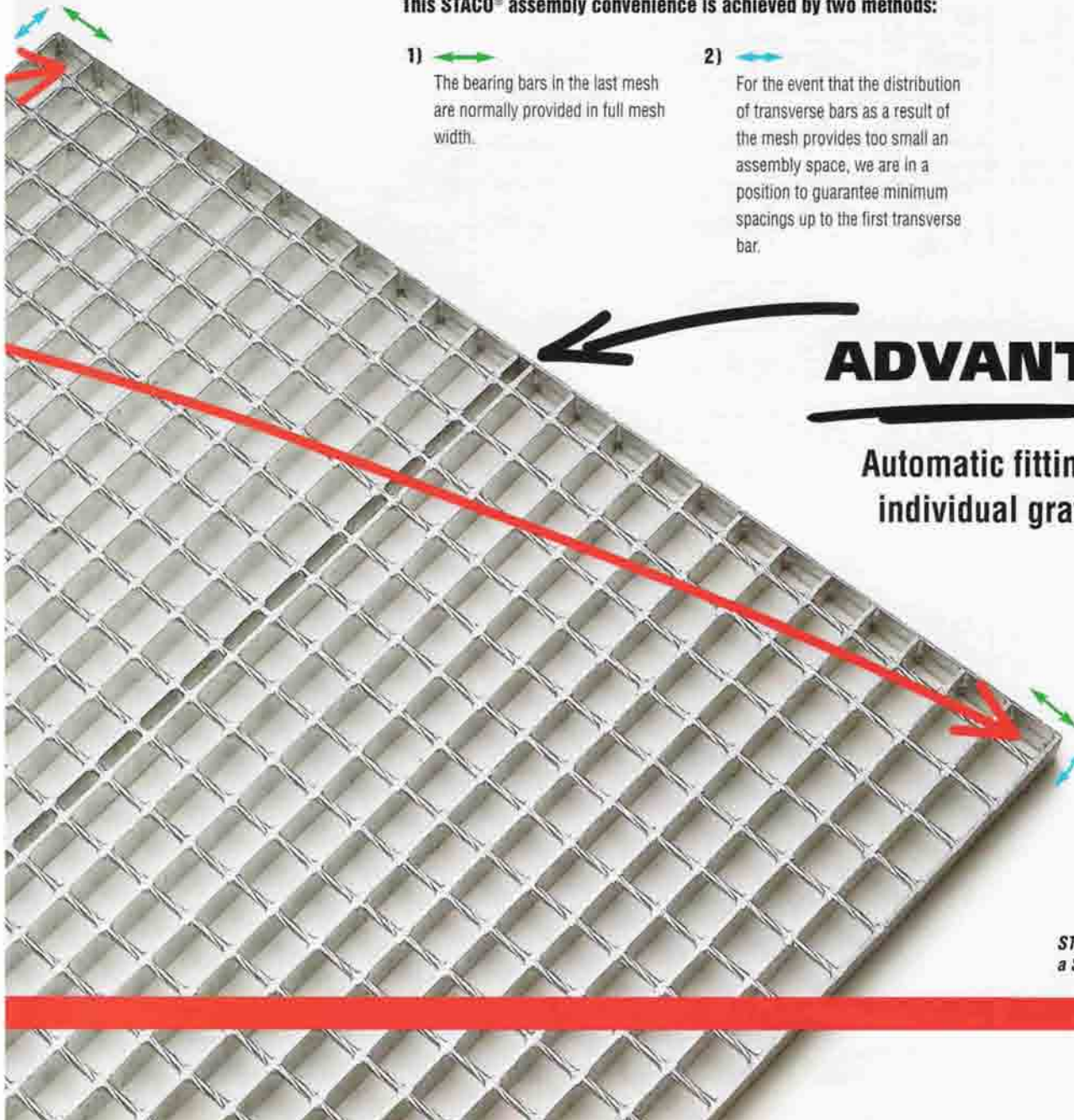
The bearing bars in the last mesh are normally provided in full mesh width.

2) 

For the event that the distribution of transverse bars as a result of the mesh provides too small an assembly space, we are in a position to guarantee minimum spacings up to the first transverse bar.

ADVANTAGE 2

Automatic fitting mesh for individual grate widths.



STACO® Symmetric – a STACO® innovation.

STACO® SP Grating Manufacturing Program

Type	Nominal Mesh	Number of Bearing Bars per 1000 mm width	1) Clear width in mm (approximate dimensions depending on material thickness)		2) Spacing between centers in mm (manufacturing dimension)																									
			Mesh width 1)	Mesh pitch 2)	— approximate weight in kg per 1 m ² SP Grating complete with binding and hot-galvanized — — "N", "S", "T" see legend below —																									
					Bearing bar size Height/Thickness																									
					20/2	20/3	25/2	25/3	25/4	25/5	30/2	30/3	30/4	30/5	35/2	35/3	35/4	35/5	40/2	40/3	40/4	40/5	50/3	50/4	50/5	50/6	60/4	60/5	60/6	
AA	3032	30	31 x 33 34 x 38	15	20	18	24	32	38	20	28	37	45	23	32	42	52	26	36	48	58	44	58	72	86	69	85	—		
AC	3045	30	31 x 45 34 x 50	14	19	16	23	30	37	19	27	36	44	22	31	41	51	25	35	46	57	43	57	71	85	68	84	101		
AX	3070	30	31 x 71 34 x 76	13	18	16	22	29	36	18	26	35	43	21	30	40	49	24	34	45	56	—	56	70	83	—	—	—		
AE	3096	30	31 x 96 34 x 100	12	18	15	22	29	35	18	26	34	42	20	30	39	49	23	34	45	56	42	56	69	83	66	82	99		
AI	3014	30	31 x 14 34 x 19	19	24	21	28	36	43	24	32	41	47	27	36	47	56	—	40	52	63	—	—	—	—	—	—	106		
AK	3019	30	31 x 19 34 x 24	17	22	20	26	34	41	22	31	39	48	25	35	45	54	—	—	50	61	—	—	—	—	—	—	—		
IX	1270	68	12 x 71 15 x 76	26	37	32	46	—	—	37	55	—	—	43	64	—	—	49	73	—	—	—	—	—	—	—	—	—		
IE	1296	68	12 x 96 15 x 100	25	37	31	46	—	—	37	54	—	—	43	63	—	—	49	72	—	—	—	—	—	—	—	—	—		
KK	1919	46	19 x 19 22 x 24	22	31	25	37	—	—	31	43	—	—	35	49	—	—	39	55	—	—	—	—	—	—	—	—	—		
KA	1932	46	19 x 33 22 x 38	20	28	24	34	45	—	28	40	53	—	32	46	61	—	36	52	69	—	65	85	—	—	102	—	—		
KC	1945	46	19 x 45 22 x 50	19	27	23	33	44	—	27	39	52	—	31	45	60	—	35	51	68	—	64	84	—	—	100	—	—		
KX	1970	46	19 x 71 22 x 76	18	26	22	32	43	—	26	38	51	—	30	44	59	—	34	51	67	—	63	83	—	—	99	—	—		
KE	1996	46	19 x 96 22 x 100	18	26	22	32	42	—	26	38	50	—	30	44	58	—	34	50	66	—	62	82	—	—	99	—	—		
MM	2220	41	22 x 20 25 x 25	20	28	24	33	43	—	28	39	50	—	31	44	57	—	35	49	65	—	—	—	—	—	—	—	—		
MA	2232	41	22 x 33 25 x 38	19	26	22	31	41	—	25	37	48	—	29	42	55	—	33	47	62	—	58	77	—	—	91	—	—		
MC	2245	41	22 x 45 25 x 50	17	25	21	30	40	—	25	36	47	—	28	41	54	—	32	46	61	—	57	76	—	—	90	—	—		
MX	2270	41	22 x 71 25 x 76	17	24	20	29	39	—	24	35	46	—	27	40	53	—	31	45	60	—	56	75	—	—	89	—	—		
ME	2296	41	22 x 96 25 x 100	16	23	20	29	38	—	23	34	45	—	27	39	52	—	30	45	60	—	56	74	—	—	89	—	—		
BA	2632	34	27 x 33 30 x 38	16	22	19	27	35	42	22	31	41	50	25	35	47	58	28	40	53	65	49	65	80	—	77	95	—		
BC	2645	34	27 x 45 30 x 50	15	21	18	26	34	41	21	30	40	49	24	35	46	56	27	39	52	64	48	64	79	—	76	94	—		
BX	2670	34	27 x 71 30 x 76	14	20	17	25	33	40	20	29	39	48	23	34	45	55	26	38	51	63	—	63	78	—	—	—	—		
BE	2696	34	27 x 96 30 x 100	14	20	17	24	32	40	20	29	38	47	23	33	44	55	26	38	50	62	47	62	77	—	74	93	—		
EA	2932	31	30 x 33 33 x 38	15	21	18	25	32	39	21	29	38	46	23	33	43	53	26	37	49	60	46	60	74	88	71	88	—		
EDF	2927	31	30 x 27 33 x 34	—	21	18	25	33	40	21	29	38	47	24	34	44	54	27	38	50	61	—	61	75	89	—	88	—		
EC	2945	31	30 x 45 33 x 50	14	20	17	24	31	38	20	28	37	45	22	32	42	52	25	36	48	59	45	59	73	87	70	87	104		
EX	2970	31	30 x 71 33 x 76	13	19	16	23	30	37	19	27	36	44	22	31	41	51	24	35	47	58	—	58	72	—	—	—	—		
EE	2996	31	30 x 96 33 x 100	13	18	15	22	29	36	18	26	35	43	21	31	41	50	24	35	46	57	43	57	71	85	68	85	102		
FA	3432	27	35 x 33 38 x 38	—	19	16	22	29	35	19	26	34	41	21	30	39	47	24	33	44	53	41	53	66	78	63	78	93		
FC	3445	27	35 x 45 38 x 50	—	18	15	21	28	34	18	25	33	40	20	29	38	46	23	32	42	52	40	52	64	77	62	77	92		
FX	3470	27	35 x 71 38 x 76	—	17	14	20	27	33	17	24	32	39	19	28	37	45	22	31	41	51	39	51	63	—	—	—	91		
FE	3496	27	35 x 96 38 x 100	—	15	14	20	26	32	16	23	31	38	19	27	36	44	21	31	41	50	38	50	63	75	60	75	90		

Type	Nominal Mesh	Number of Bearing Bars per 1000 mm width	Mesh width 1) Mesh pitch 2)	— approximate weight in kg per 1 m² SP Grating complete with binding and hot-galvanized — — "N", "S", "T" see legend below —																									
				Bearing bar size Height/Thickness																									
				20/2	20/3	25/2	25/3	25/4	25/5	30/2	30/3	30/4	30/5	35/2	35/3	35/4	35/5	40/2	40/3	40/4	40/5	50/3	50/4	50/5	50/6	60/4	60/5	60/6	
GA	3732	25	38 x 33 41 x 38	-	18	15	21	27	33	18	24	32	39	20	28	36	44	22	31	41	50	38	50	61	73	59	73	87	
GC	3745	25	38 x 45 41 x 50	-	17	14	20	26	32	17	23	31	37	19	27	35	43	21	30	40	49	37	49	60	72	58	72	86	
GX	3770	25	38 x 71 41 x 76	-	16	13	19	25	31	16	23	30	36	18	26	34	42	20	29	39	48	36	48	59	-	-	-	85	
GE	3796	25	38 x 96 41 x 100	-	15	13	19	24	30	15	22	29	36	17	25	34	41	20	29	38	47	-	47	58	70	56	70	84	
CK	3919	24	40 x 19 43 x 24	-	19	17	23	29	35	19	26	33	40	22	29	38	45	-	33	42	51	37	-	-	-	-	-	-	
CA	3932	24	40 x 33 43 x 38	-	17	15	20	26	32	17	24	31	37	19	27	35	43	22	30	40	48	36	48	59	71	57	70	84	
CC	3945	24	40 x 45 43 x 50	-	16	14	19	25	31	16	23	30	36	18	26	34	42	20	29	38	47	35	47	58	69	56	69	83	
CX	3970	24	40 x 71 43 x 76	-	15	13	18	24	30	15	22	29	35	17	25	33	41	20	28	37	46	34	46	57	-	-	-	81	
CE	3996	24	40 x 96 43 x 100	-	15	12	18	24	29	15	21	28	35	17	24	32	40	19	28	37	45	34	45	56	68	54	67	81	
HMA	4632	21	47 x 33 50 x 38	-	15	14	19	24	-	16	21	28	-	18	24	32	-	20	27	36	-	-	43	-	-	-	-	-	
HMC	4645	21	47 x 45 50 x 50	-	15	13	18	23	-	15	20	27	-	17	23	31	-	18	26	34	-	32	42	-	-	50	-	-	
HMX	4670	21	47 x 71 50 x 76	-	14	12	17	22	-	14	20	26	-	16	22	29	-	18	25	33	-	31	41	-	-	-	-	-	
HME	4696	21	47 x 96 50 x 100	-	13	11	16	21	-	13	19	25	-	15	22	29	-	17	25	33	-	31	40	-	-	48	-	-	
HEA	6432	16	63 x 33 66 x 38	-	13	12	15	20	24	13	18	23	27	15	20	26	31	16	22	29	35	27	35	42	-	41	50	-	
HEC	6445	16	63 x 45 66 x 50	-	12	11	14	19	22	12	17	22	26	14	19	25	30	15	21	28	34	26	34	41	-	40	49	-	
HEX	6470	16	63 x 71 66 x 76	-	11	10	13	18	21	11	16	21	25	13	18	24	29	14	20	27	33	25	33	40	-	-	-	-	
HEE	6496	16	63 x 96 66 x 100	-	11	9	13	17	20	11	15	20	24	12	17	23	28	14	20	26	32	24	32	40	-	38	47	-	
ZC	6045	17	59 x 45 62 x 50	-	-	-	15	20	23	13	18	23	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ZD	6060	17	59 x 60 62 x 65	-	-	-	15	20	23	13	18	23	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ZE	6096	17	59 x 96 62 x 100	-	-	-	14	19	22	12	17	22	26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ZY	60127	17	59 x 127 62 x 132	-	-	-	13	17	20	11	15	20	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
AA-8 x 8 safety mesh	3032	30	8 x 8*	-	-	-	-	-	-	23	31	40	-	-	-	-	-	29	39	51	-	47	61	-	-	-	-	-	
Offshore AE	3096	30	13 x 96 □	-	-	-	27	34	40	-	31	39	47	-	35	44	54	-	39	50	60	-	60	74	-	70	62	-	
Offshore CE	3996	24	11 x 96 ▼	-	-	-	25	31	37	-	28	35	41	-	31	39	47	-	35	44	52	-	52	63	-	87	75	-	

Legend: * clear width = 8 x 8 mm with safety profile welded to the underside
 □ clear width = 13 x 96 mm by a round bar welded in position between the bearing bars of 5 mm thickness
 ▼ clear width = 11 x 96 mm by two round bars welded in position between the bearing bars
 • these types not with EDF transverse bar

Material grades upon request:

Steel St 37.2 to 52.3 acc. to DIN EN 10 025, killed and unkillid
 - hot-galvanized acc. to DIN EN ISO 1461 (DIN 50976)
 - bituminized
 - plastics coated
 - stove-enamelled

Aluminium see Pressed Gratings on Page 19

Special designs upon request:

- Serrated S1 and S2 (all types except for 20/2 with a bearing bar thickness of 2/3/4 and 5 mm)
 - Serrated Trapezoid S3: all types identified by "T"
 - Symmetric: all types identified by "S", not in combination with Serrated S2 or S3
 - depending on type, twisted transverse bars of 4/5/6 mm dia. possible
 - depending on type, transverse bars as smooth rounds of 4/5/6 mm dia. possible

(Please consult our Service Department.)

Standard program: For cost reduction and shorter delivery times we recommend material according to our standard program.

For minimum ordering quantities and delivery times please consult your STACO® Service Department.

All types designated "N":
available in stainless 4003
 - unpickled only
or special steel 1.4301 (V2A), 1.4571 (V4A)
 - pickled
 - electrochemically polished
 with transverse bars as smooth rounds (Ø 4 mm)**
 Special steel weights approx. -7% (due to omission of galvanizing weight)

** Upon request, also in 5 mm dia.

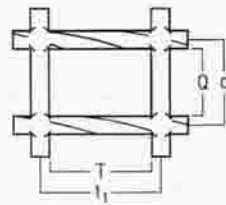
Type A

Material:
Steel St. 37.2

Nominal meshes:
3014 } for loading data see
3019 } table
3032 }

Nominal meshes:
3045 } for loading data see
3070 } table minus 5%
3096 }

For exact manufacturing dimensions (t_1 and q_1) see pages 8/9.

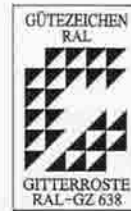


t_1 = Bearing bar pitch
(spacing between centers)
 T = Bearing bar width
(clear dimension)
 q_1 = Transverse bar pitch
(spacing between centers)
 Q = Transverse bar pitch
(clear dimension)

Bearing bar dimension		Span L = clear width between supports, in mm																				
		500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500
20 x 3	Fv	3072	2133	1567	1200	948	768	635	533	454	392	341	300	266	237	213	192	174	159	145	133	123
	Iv	0.20	0.29	0.39	0.51	0.64	0.79	0.96	1.14	1.34	1.56	1.79	2.03	2.29	2.57	2.87	3.17	3.50	3.84	4.20	4.57	4.96
	Fp	258	206	172	148	129	115	103	94	86	80	74	69	64	61	58	54	52	49	47	45	43
	fp	0.20	0.27	0.36	0.46	0.58	0.71	0.85	1.00	1.16	1.34	1.53	1.73	1.95	2.18	2.42	2.67	2.94	3.22	3.51	3.82	4.13
25 x 2	Fv	3195	2219	1630	1248	986	799	660	555	473	408	355	312	276	247	221	200	181	165	151	139	128
	Iv	0.16	0.23	0.31	0.41	0.51	0.63	0.77	0.91	1.07	1.24	1.43	1.62	1.83	2.05	2.29	2.54	2.80	3.07	3.35	3.65	3.96
	Fp	267	213	178	152	133	119	106	97	89	82	76	72	67	63	60	56	54	51	49	46	44
	fp	0.16	0.22	0.29	0.37	0.46	0.56	0.67	0.80	0.93	1.07	1.22	1.38	1.56	1.74	1.93	2.14	2.35	2.57	2.80	3.05	3.30
25 x 3	Fv	4792	3328	2445	1872	1479	1198	990	832	709	611	532	468	415	370	332	300	272	248	226	208	192
	Iv	0.16	0.23	0.31	0.41	0.51	0.63	0.77	0.91	1.07	1.24	1.43	1.62	1.83	2.05	2.29	2.54	2.80	3.07	3.35	3.65	3.96
	Fp	400	320	267	229	200	178	161	146	133	123	115	107	100	94	89	84	80	76	73	70	67
	fp	0.16	0.22	0.29	0.37	0.46	0.56	0.67	0.80	0.93	1.07	1.22	1.38	1.56	1.74	1.93	2.14	2.35	2.57	2.80	3.05	3.30
25 x 4	Fv	6390	4437	3260	2496	1972	1597	1320	1109	945	815	710	624	553	493	443	399	362	330	302	277	256
	Iv	0.16	0.23	0.31	0.41	0.51	0.63	0.77	0.91	1.07	1.24	1.43	1.62	1.83	2.05	2.29	2.54	2.80	3.07	3.35	3.65	3.96
	Fp	534	427	356	306	267	237	214	194	178	165	153	142	133	125	119	112	107	102	97	93	89
	fp	0.16	0.22	0.29	0.37	0.46	0.56	0.67	0.80	0.93	1.07	1.22	1.38	1.56	1.74	1.93	2.14	2.35	2.57	2.80	3.05	3.30
25 x 5	Fv	7967	5547	4075	3120	2465	1997	1650	1387	1182	1019	887	780	691	616	553	499	453	413	377	347	319
	Iv	0.16	0.23	0.31	0.41	0.51	0.63	0.77	0.91	1.07	1.24	1.43	1.62	1.83	2.05	2.29	2.54	2.80	3.07	3.35	3.65	3.96
	Fp	667	534	445	381	334	297	267	243	222	206	191	178	167	157	148	140	133	127	121	117	112
	fp	0.16	0.22	0.29	0.37	0.46	0.56	0.67	0.80	0.93	1.07	1.22	1.38	1.56	1.74	1.93	2.14	2.35	2.57	2.80	3.05	3.30
30 x 2	Fv	4608	3200	2351	1800	1422	1152	952	800	682	588	512	450	399	356	319	288	261	238	218	200	184
	Iv	0.13	0.19	0.26	0.34	0.43	0.53	0.64	0.76	0.89	1.04	1.19	1.35	1.53	1.71	1.91	2.12	2.33	2.56	2.80	3.05	3.31
	Fp	382	306	255	218	191	169	153	139	127	118	109	102	96	90	85	80	76	73	70	67	64
	fp	0.13	0.18	0.24	0.31	0.39	0.47	0.56	0.66	0.77	0.89	1.02	1.16	1.30	1.45	1.61	1.78	1.96	2.15	2.34	2.54	2.76
30 x 3	Fv	6912	4800	3527	2700	2133	1728	1428	1200	1022	882	768	675	598	533	479	432	392	357	327	300	276
	Iv	0.13	0.19	0.26	0.34	0.43	0.53	0.64	0.76	0.89	1.04	1.19	1.35	1.53	1.71	1.91	2.12	2.33	2.56	2.80	3.05	3.31
	Fp	573	458	382	327	287	255	229	209	191	176	164	153	143	135	127	120	115	109	104	100	96
	fp	0.13	0.18	0.24	0.31	0.39	0.47	0.56	0.66	0.77	0.89	1.02	1.16	1.30	1.45	1.61	1.78	1.96	2.15	2.34	2.54	2.76
30 x 4	Fv	9216	6400	4702	3600	2844	2304	1904	1600	1363	1176	1024	900	797	711	638	576	522	476	436	400	369
	Iv	0.13	0.19	0.26	0.34	0.43	0.53	0.64	0.76	0.89	1.04	1.19	1.35	1.53	1.71	1.91	2.12	2.33	2.56	2.80	3.05	3.31
	Fp	764	611	509	439	382	340	306	278	255	235	218	204	191	180	169	161	153	146	139	133	127
	fp	0.13	0.18	0.24	0.31	0.39	0.47	0.56	0.66	0.77	0.89	1.02	1.16	1.30	1.45	1.61	1.78	1.96	2.15	2.34	2.54	2.76
30 x 5	Fv	11520	8000	5878	4500	3556	2880	2380	2000	1704	1469	1280	1125	997	889	798	720	653	595	544	500	461
	Iv	0.13	0.19	0.26	0.34	0.43	0.53	0.64	0.76	0.89	1.04	1.19	1.35	1.53	1.71	1.91	2.12	2.33	2.56	2.80	3.05	3.31
	Fp	956	764	636	545	478	425	382	348	319	294	273	255	239	225	213	201	191	182	173	167	160
	fp	0.13	0.18	0.24	0.31	0.39	0.47	0.56	0.66	0.77	0.89	1.02	1.16	1.30	1.45	1.61	1.78	1.96	2.15	2.34	2.54	2.76
35 x 4	Fv	12533	8704	6394	4896	3868	3133	2589	2196	1854	1598	1392	1224	1084	967	868	783	710	647	592	544	501
	Iv	0.11	0.16	0.22	0.29	0.37	0.45	0.55	0.66	0.77	0.89	1.02	1.16	1.31	1.47	1.64	1.81	2.00	2.19	2.40	2.61	2.83
	Fp	1030	824	686	588	515	457	412	374	343	317	294	274	257	242	229	216	206	196	187	179	171
	fp	0.11	0.15	0.20	0.26	0.32	0.40	0.47	0.56	0.65	0.76	0.87	0.98	1.10	1.23	1.37	1.51	1.66	1.83	1.99	2.17	2.34
35 x 5	Fv	15667	10880	7993	6120	4835	3916	3237	2720	2317	1998	1740	1530	1355	1208	1085	979	888	809	740	680	626
	Iv	0.11	0.16	0.22	0.29	0.37	0.45	0.55	0.66	0.77	0.89	1.02	1.16	1.31	1.47	1.64	1.81	2.00	2.19	2.40	2.61	2.83
	Fp	1287	1030	858	735	643	572	515	468	429	396	367	343	322	303	286	271	257	245	234	224	214
	fp	0.11	0.15	0.20	0.26	0.32	0.40	0.47	0.56	0.65	0.76	0.87	0.98	1.10	1.23	1.37	1.51	1.66	1.83	1.99	2.17	2.34
40 x 2	Fv	8187	5685	4177	3198	2527	2047	1692	1421	1211	1044	910	800	708	632	567	512	464	423	387	355	327
	Iv	0.10	0.14	0.19	0.25	0.32	0.40	0.48	0.57	0.67	0.78	0.89	1.02	1.15	1.28	1.43	1.59	1.75	1.92	2.10	2.28	2.48
	Fp	667	534	445	382	334	297	267	243	222	206	191	178	167	158	149	141	133	127	121	117	112
	fp	0.10	0.14	0.18	0.23	0.29	0.35	0.42	0.50	0.58	0.67	0.76	0.87	0.97	1.09	1.21	1.34	1.47	1.61	1.75	1.91	2.07
40 x 3	Fv	12288	8533	6269	4800	3793	3072	2539	2133	1818	1567	1365	1200	1063	948	851	768	697	635	581	533	492
	Iv	0.10	0.14	0.19	0.25	0.32	0.40	0.48	0.57	0.67	0.78	0.89	1.02	1.15	1.29	1.43	1.59	1.75	1.92	2.10	2.29	2.48
	Fp	1002	802	669	573	501	445	401	364	334	308	287	267	251	236	223	211	201	191	182	174	167
	fp	0.10	0.14	0.18	0.23	0.29	0.35	0.42	0.50	0.58	0.67	0.77	0.87	0.97	1.09	1.21	1.34	1.47	1.61	1.76	1.91	2.07
40 x 4	Fv	16374	11371	8354	6396	5054	4093	3383	2843	2422	2088	1819	1599	1416	1263	1134	1023	928	846	774	711	655
	Iv	0.10	0.14	0.19	0.25	0.32	0.40	0.48	0.57	0.67	0.78	0.89	1.02	1.15	1.28	1.43	1.59	1.75	1.92	2.10	2.28	2.48
	Fp	1335	1069	891	763	668	593	534	486	445	411	382	356	334	314	297	281	267	255	243	232	222
	fp	0.10	0.14	0.18	0.23	0.29	0.35	0.42	0.50	0.58	0.67	0.76	0.87	0.97	1.09	1.21	1.34	1.47	1.61	1.75	1.91	2.07



The loading data of STACO® SP Grating have been approved by the TÜV (Association for technical inspection). Certificate No. R30049



The loading data of STACO® SP Grating are in compliance with RAL-GZ 638

Bearing bar dimension		Span L = clear width between supports, in mm																				
		500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500
40 x 5	Fv	20475	14219	10446	7998	6319	5119	4230	3555	3029	2612	2275	2000	1771	1580	1418	1280	1161	1058	968	889	819
	fv	0.10	0.14	0.19	0.25	0.32	0.40	0.48	0.57	0.67	0.78	0.89	1.02	1.15	1.29	1.43	1.59	1.75	1.92	2.10	2.29	2.48
	Fp	1670	1336	1113	954	835	742	682	607	557	514	477	445	418	393	371	351	334	318	303	291	278
	fp	0.10	0.14	0.18	0.23	0.29	0.35	0.42	0.50	0.58	0.67	0.77	0.87	0.97	1.09	1.21	1.34	1.47	1.61	1.76	1.91	2.07
50 x 3	Fv	19200	13333	9796	7500	5926	4800	3967	3333	2840	2449	2133	1875	1661	1481	1330	1200	1088	992	907	833	768
	fv	0.08	0.11	0.16	0.20	0.26	0.32	0.38	0.46	0.54	0.62	0.71	0.81	0.92	1.03	1.15	1.27	1.40	1.54	1.68	1.83	1.98
	Fp	1542	1234	1028	882	771	685	630	561	514	475	440	411	386	363	343	325	308	294	281	268	257
	fp	0.08	0.11	0.15	0.19	0.23	0.28	0.34	0.40	0.46	0.54	0.61	0.69	0.78	0.87	0.97	1.07	1.18	1.29	1.40	1.53	1.65
50 x 4	Fv	25590	17771	13056	9996	7898	6397	5287	4443	3785	3264	2843	2499	2214	1975	1772	1599	1451	1322	1209	1111	1024
	fv	0.08	0.11	0.16	0.20	0.26	0.32	0.38	0.46	0.54	0.62	0.71	0.81	0.92	1.03	1.15	1.27	1.40	1.54	1.68	1.83	1.98
	Fp	2055	1644	1370	1174	1027	914	840	745	685	632	587	548	514	483	457	433	411	391	374	357	343
	fp	0.08	0.11	0.15	0.19	0.23	0.28	0.34	0.40	0.46	0.54	0.61	0.69	0.78	0.87	0.97	1.07	1.18	1.29	1.40	1.53	1.65
50 x 5	Fv	31995	22219	16324	12498	9875	7999	6611	5555	4733	4081	3555	3125	2768	2469	2216	2000	1814	1663	1512	1389	1280
	fv	0.08	0.11	0.16	0.20	0.26	0.32	0.38	0.46	0.54	0.62	0.71	0.81	0.92	1.03	1.15	1.27	1.40	1.54	1.68	1.83	1.98
	Fp	2569	2056	1713	1469	1285	1142	1050	934	856	791	734	685	643	606	571	541	514	489	466	447	429
	fp	0.08	0.11	0.15	0.19	0.23	0.28	0.34	0.40	0.46	0.54	0.61	0.69	0.78	0.87	0.97	1.07	1.18	1.29	1.40	1.53	1.65
50 x 6	Fv	38400	26667	19592	15000	11852	9600	7934	6667	5680	4898	4267	3750	3322	2963	2659	2400	2177	1983	1815	1667	1536
	fv	0.08	0.11	0.16	0.20	0.26	0.32	0.35	0.46	0.54	0.62	0.71	0.81	0.92	1.03	1.15	1.27	1.40	1.54	1.68	1.83	1.98
	Fp	3084	2467	2056	1762	1542	1371	1234	1121	1028	949	881	822	771	726	685	649	617	587	561	536	514
	fp	0.07	0.10	0.14	0.18	0.23	0.28	0.33	0.39	0.46	0.53	0.61	0.69	0.77	0.87	0.96	1.06	1.17	1.28	1.40	1.52	1.65
60 x 4	Fv	36864	25600	18808	14400	11378	9216	7617	6400	5453	4702	4096	3600	3189	2844	2553	2304	2090	1904	1742	1600	1475
	fv	0.07	0.10	0.13	0.17	0.21	0.26	0.32	0.38	0.45	0.52	0.60	0.68	0.76	0.86	0.96	1.06	1.17	1.28	1.40	1.52	1.65
	Fp	2911	2329	1941	1664	1455	1294	1190	1058	970	896	831	777	728	685	647	613	582	555	529	507	485
	fp	0.07	0.09	0.12	0.15	0.19	0.24	0.28	0.33	0.39	0.45	0.51	0.58	0.65	0.73	0.81	0.89	0.98	1.07	1.17	1.27	1.38
60 x 5	Fv	46080	32000	23510	18000	14222	11520	9521	8000	6817	5878	5120	4500	3986	3556	3191	2880	2612	2380	2178	2000	1843
	fv	0.07	0.10	0.13	0.17	0.21	0.26	0.32	0.38	0.45	0.52	0.60	0.68	0.76	0.86	0.96	1.06	1.17	1.28	1.40	1.52	1.65
	Fp	3638	2911	2426	2079	1819	1617	1488	1323	1212	1120	1039	970	910	856	809	766	728	694	661	633	606
	fp	0.07	0.09	0.12	0.15	0.19	0.24	0.28	0.33	0.39	0.45	0.51	0.58	0.65	0.73	0.81	0.89	0.98	1.07	1.17	1.27	1.38
60 x 6	Fv	55296	38400	28212	21600	17067	13824	11425	9600	8180	7053	6144	5400	4783	4267	3829	3456	3135	2856	2613	2400	2212
	fv	0.07	0.10	0.13	0.17	0.21	0.26	0.29	0.38	0.45	0.52	0.60	0.68	0.76	0.86	0.96	1.06	1.17	1.28	1.40	1.52	1.65
	Fp	4366	3493	2911	2495	2183	1940	1746	1588	1455	1343	1247	1164	1092	1027	970	919	873	832	794	759	728
	fp	0.06	0.09	0.12	0.15	0.19	0.23	0.28	0.33	0.38	0.44	0.51	0.57	0.65	0.72	0.80	0.89	0.98	1.07	1.17	1.27	1.37

Legend:

Fv = Loading data for uniformly distributed loads (Fv), in daN/m²
 fv = Deflection values (fv) in case of load Fv, in cm
 Fp = Loading data for a central single load (Fp), in daN, and a loading area of 200 x 200 mm
 fp = Deflection values (fp) in case of load Fp, in cm
 Loading of material (permissible stress): 1600 daN/cm²
 Safety factor up to yield point: 1.5
 Safety factor up to breaking point: 2.35
 Grating support = grating height, however 30 mm minimum

- This range should not be exceeded to ensure a safe passage. The elastic deflection under loading conditions is not more than 1/200 of the span, in any case ≤ 4 mm with a single traffic load of 150 daN referred to a loading area of 200 x 200 mm.
- Within this restriction the grating is still capable of taking up a single traffic load of 150 daN in the most unfavourable position of a loading area of 200 x 200 mm in case of a maximum deflection of 1/200 of the span (see AGI).
- If in case of a distributed live load of 500 daN/m² the maximum deflection is to be 4 mm, STACO® recommends to account for a span limitation according to this line.
- In case of a distributed live load of 500 daN/m², the maximum deflection at this limitation will be 1/200 of the span.

Load-bearing capacity of Serrated Grating

In case of Serrated Grating the load data are reduced as follows:

Types S1, S2 und S3 (punching depth = 2.5 mm)

- in case of a grating height of 25 mm = 10.0 %
- in case of a grating height of 30 mm = 8.3 %
- in case of a grating height of 40 mm = 6.3 %
- in case of a grating height of 50 mm = 5.0 %
- in case of a grating height of 60 mm = 4.2 %

(For Serrated Grating types see pages 30/31)

Multipliers of loading values:

Material	Fv/Fp	fv/tp
V2A (1.4301)	Factor 0.83	Factor 0.95
V4A (1.4571)	Factor 0.89	Factor 0.95
Stainless (4003)	Factor 1.38	Factor 1.00

STACO® SP Grating Loading Tables

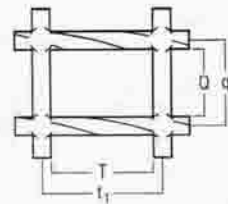
Type B

Material:
Steel St. 37.2

Nominal meshes:
2632 } for loading data see
table

Nominal meshes:
2645 } for loading data see
2670 } table minus 3%
2696 }

For exact manufacturing dimensions (t₁ and q₁) see pages 8/9.



t₁ = Bearing bar pitch
(spacing between centers)
T = Bearing bar width
(clear dimension)
q₁ = Transverse bar pitch
(spacing between centers)
Q = Transverse bar pitch
(clear dimension)

Bearing bar dimension	Span L = clear width between supports, in mm																					
	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	
25 x 3	Fv	5431	3772	2771	2122	1676	1358	1122	943	803	693	603	530	470	419	376	339	308	281	257	236	217
	fv	0.16	0.23	0.31	0.41	0.51	0.63	0.77	0.91	1.07	1.24	1.43	1.62	1.83	2.05	2.29	2.54	2.80	3.07	3.35	3.65	3.96
	Fp	440	351	293	250	220	196	176	160	147	135	126	117	110	104	97	92	88	84	80	77	74
	fp	0.16	0.22	0.29	0.37	0.46	0.56	0.67	0.80	0.93	1.07	1.22	1.38	1.56	1.74	1.93	2.14	2.35	2.57	2.80	3.05	3.30
25 x 5	Fv	9052	6286	4618	3536	2794	2263	1870	1572	1339	1155	1006	884	783	698	627	566	513	468	428	393	362
	fv	0.16	0.23	0.31	0.41	0.51	0.63	0.77	0.91	1.07	1.24	1.43	1.62	1.83	2.05	2.29	2.54	2.80	3.07	3.35	3.65	3.96
	Fp	734	586	489	419	367	326	293	266	245	225	209	196	183	172	163	155	147	139	133	127	122
	fp	0.16	0.22	0.29	0.37	0.46	0.56	0.67	0.80	0.93	1.07	1.22	1.38	1.56	1.74	1.93	2.14	2.35	2.57	2.80	3.05	3.30
30 x 3	Fv	7834	5440	3997	3060	2418	1958	1619	1360	1159	999	870	765	678	604	542	490	444	405	370	340	313
	fv	0.13	0.19	0.26	0.34	0.43	0.53	0.64	0.76	0.89	1.04	1.19	1.35	1.53	1.71	1.91	2.12	2.33	2.56	2.80	3.05	3.31
	Fp	630	504	420	360	315	280	252	229	210	194	180	168	158	149	140	132	126	120	115	110	105
	fp	0.13	0.18	0.24	0.31	0.39	0.47	0.56	0.66	0.77	0.89	1.02	1.16	1.30	1.45	1.61	1.78	1.96	2.15	2.34	2.54	2.76
30 x 5	Fv	13056	9067	6661	5100	4030	3264	2698	2267	1931	1665	1451	1275	1129	1007	904	816	740	674	617	567	522
	fv	0.13	0.19	0.26	0.34	0.43	0.53	0.64	0.76	0.89	1.04	1.19	1.35	1.53	1.71	1.91	2.12	2.33	2.56	2.80	3.05	3.31
	Fp	1050	840	700	600	525	467	420	382	350	324	300	280	263	247	233	221	210	200	191	182	175
	fp	0.13	0.18	0.24	0.31	0.39	0.47	0.56	0.66	0.77	0.89	1.02	1.16	1.30	1.45	1.61	1.78	1.96	2.15	2.34	2.54	2.76
40 x 3	Fv	13926	9671	7105	5440	4298	3482	2877	2418	2060	1776	1547	1360	1205	1075	964	870	789	719	658	604	557
	fv	0.10	0.14	0.19	0.25	0.32	0.40	0.48	0.57	0.67	0.78	0.89	1.02	1.15	1.29	1.43	1.59	1.75	1.92	2.10	2.29	2.48
	Fp	1101	881	734	629	550	489	440	400	367	339	315	294	275	259	245	232	220	210	200	191	183
	fp	0.10	0.14	0.18	0.23	0.29	0.35	0.42	0.50	0.58	0.67	0.77	0.87	0.97	1.09	1.21	1.34	1.47	1.61	1.76	1.91	2.07
40 x 5	Fv	23205	16114	11839	9064	7162	5801	4794	4029	3433	2960	2578	2266	2007	1790	1607	1450	1315	1199	1097	1007	928
	fv	0.10	0.14	0.19	0.25	0.32	0.40	0.48	0.57	0.67	0.78	0.89	1.02	1.15	1.29	1.43	1.59	1.75	1.92	2.10	2.29	2.48
	Fp	1834	1467	1223	1048	917	815	734	667	611	564	524	489	459	432	408	386	367	349	333	319	306
	fp	0.10	0.14	0.18	0.23	0.29	0.35	0.42	0.50	0.58	0.67	0.77	0.87	0.97	1.09	1.21	1.34	1.47	1.61	1.76	1.91	2.07
50 x 5	Fv	36261	25181	1889	14164	11192	9065	7492	6295	5364	4625	4029	3541	3137	2798	2511	2266	2056	1873	1714	1574	1450
	fv	0.08	0.11	0.15	0.20	0.26	0.32	0.38	0.46	0.54	0.62	0.71	0.81	0.92	1.03	1.15	1.27	1.40	1.54	1.68	1.83	1.98
	Fp	2833	2266	15987	1619	1416	1259	1133	1030	944	872	810	755	709	666	630	596	566	540	515	492	472
	fp	0.08	0.11	0.13	0.19	0.23	0.28	0.34	0.40	0.46	0.54	0.61	0.69	0.78	0.87	0.97	1.07	1.18	1.29	1.40	1.53	1.65

Legend:

Fv = Loading data for uniformly distributed loads (Fv), in daN/m²
fv = Deflection values (fv) in case of load Fv, in cm
Fp = Loading data for a central single load (Fp), in daN, and a loading area of 200 x 200 mm
fp = Deflection values (fp) in case of load Fp, in cm
Loading of material (permissible stress): 1600 daN/cm²
Safety factor up to yield point: 1.5
Safety factor up to breaking point: 2.35
Grating support = grating height, however 30 mm minimum

- This range should not be exceeded to ensure a safe passage. The elastic deflection under loading conditions is not more than 1/200 of the span, in any case ≤ 4 mm with a single traffic load of 150 daN referred to a loading area of 200 x 200 mm.
- Within this restriction the grating is still capable of taking up a single traffic load of 150 daN in the most unfavourable position of a loading area of 200 x 200 mm in case of a maximum deflection of 1/200 of the span (see AGI).
- If in case of a distributed live load of 500 daN/m² the maximum deflection is to be 4 mm, STACO® recommends to account for a span limitation according to this line.
- In case of a distributed live load of 500 daN/m², the maximum deflection at this limitation will be 1/200 of the span.

Load-bearing capacity of Serrated Grating

In case of Serrated Grating the load data are reduced as follows:

Types S1, S2 und S3 (punching depth = 2.5 mm)

- in case of a grating height of 25 mm = 10.0 %
- in case of a grating height of 30 mm = 8.3 %
- in case of a grating height of 40 mm = 6.3 %
- in case of a grating height of 50 mm = 5.0 %
- in case of a grating height of 60 mm = 4.2 %

(For Serrated Grating types see pages 30/31)

Multipliers of loading values:

Material	Fv/Fp	fv/fp
V2A (1.4301)	Factor 0.83	Factor 0.95
V4A (1.4571)	Factor 0.89	Factor 0.95
Stainless (4003)	Factor 1.38	Factor 1.00

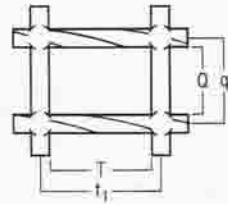
Type G

Material:
Steel St. 37.2

Nominal meshes:
3732 } for loading data see
table

Nominal meshes:
3745 } for loading data see
3770 } table minus 5%
3796 }

For exact manufacturing dimensions (t_1 and q_1) see pages 8/9.



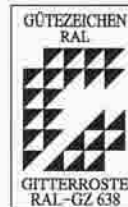
t_1 = Bearing bar pitch
(spacing between centers)
T = Bearing bar width
(clear dimension)
 q_1 = Transverse bar pitch
(spacing between centers)
Q = Transverse bar pitch
(clear dimension)

Bearing bar dimension	Span L = clear width between supports, in mm																					
	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	
20 x 3	Fv	2560	1770	1300	1000	790	640	520	440	370	320	280	250	220	190	170	160	145	130	120	110	100
	fv	0.40	0.47	0.55	0.63	0.71	0.79	0.86	0.94	1.01	1.09	1.17	1.27	1.34	1.37	1.45	1.59	1.67	1.72	1.81	1.89	1.94
	Fp	210	170	140	120	105	95	85	75	70	65	60	56	53	50	47	44	42	40	38	36	35
	fp	0.18	0.26	0.35	0.45	0.56	0.70	0.83	0.96	1.12	1.28	1.50	1.73	1.86	2.08	2.24	2.45	2.71	2.97	3.23	3.47	3.82
20 x 5	Fv	4260	2960	2170	1665	1315	1065	880	740	630	540	470	415	365	325	295	265	240	220	200	185	170
	fv	0.40	0.47	0.55	0.63	0.71	0.79	0.86	0.94	1.01	1.09	1.17	1.27	1.34	1.37	1.45	1.59	1.67	1.72	1.81	1.89	1.94
	Fp	350	280	235	200	175	155	140	125	115	105	100	95	85	80	78	74	71	67	64	61	59
	fp	0.18	0.26	0.35	0.45	0.56	0.68	0.82	0.96	1.12	1.28	1.50	1.73	1.86	2.08	2.24	2.45	2.71	2.97	3.23	3.47	3.82
25 x 3	Fv	3990	2770	2035	1560	1230	995	825	690	590	510	440	390	345	305	275	250	225	205	185	170	160
	fv	0.31	0.38	0.44	0.51	0.57	0.63	0.70	0.76	0.82	0.89	0.94	1.01	1.08	1.13	1.20	1.27	1.32	1.39	1.43	1.49	1.59
	Fp	330	265	220	190	165	145	130	120	110	100	95	90	80	75	73	69	65	62	59	57	55
	fp	0.15	0.21	0.28	0.36	0.45	0.55	0.66	0.79	0.92	1.05	1.23	1.41	1.50	1.68	1.90	2.12	2.35	2.58	2.81	3.03	3.25
25 x 5	Fv	6650	4620	3395	2600	2050	1660	1375	1155	980	845	740	650	575	510	460	415	375	340	310	285	265
	fv	0.31	0.38	0.44	0.51	0.57	0.63	0.70	0.76	0.82	0.89	0.94	1.01	1.08	1.13	1.20	1.27	1.32	1.39	1.43	1.49	1.59
	Fp	550	440	365	315	275	245	220	200	180	170	155	145	135	130	120	115	110	105	100	95	90
	fp	0.15	0.21	0.28	0.36	0.45	0.55	0.67	0.79	0.92	1.05	1.23	1.41	1.50	1.68	1.90	2.12	2.35	2.58	2.81	3.03	3.25
30 x 3	Fv	5760	4000	2930	2250	1775	1440	1190	1000	850	730	640	560	495	440	395	360	325	295	270	250	230
	fv	0.26	0.32	0.37	0.42	0.48	0.53	0.58	0.63	0.69	0.74	0.79	0.84	0.89	0.94	1.00	1.06	1.11	1.15	1.21	1.27	1.32
	Fp	470	375	313	268	235	208	188	170	156	144	134	125	117	110	104	100	94	90	85	82	78
	fp	0.12	0.17	0.23	0.30	0.38	0.46	0.55	0.65	0.76	0.88	1.01	1.14	1.28	1.43	1.60	1.79	1.95	2.15	2.32	2.54	2.73
30 x 5	Fv	9600	6665	4895	3750	2960	2400	1980	1665	1420	1220	1065	935	830	740	660	600	540	495	450	415	380
	fv	0.26	0.32	0.37	0.42	0.48	0.53	0.58	0.63	0.69	0.74	0.79	0.84	0.89	0.94	1.00	1.06	1.11	1.15	1.21	1.27	1.32
	Fp	783	626	522	447	390	348	313	285	260	240	223	209	195	184	174	165	156	149	142	136	130
	fp	0.12	0.17	0.23	0.30	0.38	0.46	0.55	0.65	0.76	0.88	1.01	1.14	1.28	1.43	1.60	1.79	1.95	2.15	2.32	2.54	2.73
35 x 3	Fv	7830	5440	3995	3060	2415	1955	1615	1360	1155	1000	870	765	675	600	540	485	440	400	370	340	310
	fv	0.23	0.27	0.32	0.36	0.41	0.45	0.50	0.54	0.59	0.64	0.68	0.73	0.77	0.81	0.86	0.90	0.94	0.99	1.04	1.09	1.12
	Fp	837	610	425	364	318	283	255	230	212	196	182	170	159	150	141	134	127	121	115	110	106
	fp	0.10	0.15	0.20	0.26	0.32	0.40	0.48	0.56	0.66	0.76	0.87	0.99	1.11	1.24	1.37	1.52	1.67	1.83	1.99	2.16	2.36
35 x 5	Fv	13050	9065	6660	5100	4030	3260	2695	2265	1930	1665	1450	1275	1130	1005	900	815	740	670	615	565	520
	fv	0.23	0.27	0.32	0.36	0.41	0.45	0.50	0.54	0.59	0.64	0.68	0.73	0.77	0.81	0.86	0.90	0.94	0.99	1.04	1.09	1.12
	Fp	1062	850	708	607	531	472	425	386	354	326	303	283	265	250	236	223	212	202	193	184	177
	fp	0.10	0.15	0.20	0.26	0.32	0.40	0.48	0.56	0.66	0.76	0.87	0.99	1.11	1.24	1.37	1.52	1.67	1.83	1.99	2.16	2.36
40 x 3	Fv	10240	7110	5220	4000	3160	2560	2115	1775	1510	1305	1135	1000	885	790	705	640	580	525	480	440	405
	fv	0.20	0.24	0.28	0.32	0.36	0.40	0.44	0.48	0.51	0.56	0.59	0.64	0.67	0.71	0.75	0.79	0.83	0.87	0.91	0.94	0.98
	Fp	823	658	548	470	411	365	329	300	274	253	235	219	205	193	182	173	164	156	150	143	137
	fp	0.10	0.13	0.17	0.23	0.28	0.35	0.42	0.49	0.57	0.66	0.76	0.86	0.96	1.08	1.20	1.33	1.46	1.60	1.75	1.90	2.06
40 x 5	Fv	17060	11845	8705	6665	5265	4265	3525	2960	2520	2175	1895	1665	1475	1315	1180	1065	965	880	805	740	680
	fv	0.20	0.24	0.28	0.32	0.36	0.40	0.44	0.48	0.51	0.56	0.59	0.64	0.67	0.71	0.75	0.79	0.83	0.87	0.91	0.94	0.98
	Fp	1370	1097	914	783	685	610	548	498	457	422	391	365	342	322	304	288	274	261	249	238	228
	fp	0.10	0.13	0.17	0.23	0.28	0.35	0.42	0.49	0.57	0.66	0.76	0.86	0.96	1.08	1.20	1.33	1.46	1.60	1.75	1.90	2.06
50 x 5	Fv	26650	18515	13600	10415	8225	6665	5505	4625	3940	3400	2960	2600	2305	2055	1845	1665	1510	1375	1260	1155	1065
	fv	0.16	0.19	0.22	0.25	0.29	0.32	0.35	0.38	0.41	0.44	0.48	0.51	0.54	0.57	0.60	0.63	0.67	0.70	0.73	0.76	0.79
	Fp	2110	1687	1406	1205	1054	937	843	767	703	649	602	562	527	496	468	444	421	401	383	366	351
	fp	0.07	0.10	0.14	0.18	0.23	0.28	0.33	0.39	0.46	0.53	0.61	0.69	0.77	0.86	0.96	1.06	1.17	1.28	1.40	1.52	1.64
60 x 5	Fv	38400	26660	19590	15000	11850	9600	7930	6665	5680	4895	4265	3750	3320	2960	2655	2400	2175	1980	1810	1665	1535
	fv	0.13	0.16	0.19	0.21	0.24	0.26	0.29	0.32	0.34	0.37	0.40	0.42	0.45	0.48	0.50	0.53	0.56	0.58	0.61	0.63	0.66
	Fp	2990	2392	1993	1708	1495	1329	1196	1087	996	920	854	797	747	703	664	629	598	569	543	520	498
	fp	0.06	0.09	0.12	0.15	0.19	0.23	0.28	0.33	0.38	0.44	0.51	0.57	0.65	0.72	0.80	0.89	0.98	1.07	1.16	1.27	1.37

Legend to table:
see page 12



The loading data of STACO® SP Grating have been approved by the TÜV (Association for technical inspection).
Certificate No. R30049



The loading data of STACO® SP Grating are in compliance with RAL-GZ 638

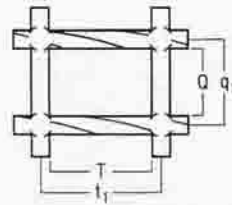
STACO® SP Grating Loading Tables

Type K

Material:
Steel St. 37.2

Nominal meshes:
1919 } for loading data see
1932 } table

Nominal meshes:
1945 } for loading data see
1970 } table minus 3%
1996 }



t_1 = Bearing bar pitch
(spacing between centers)
 T = Bearing bar width
(clear dimension)
 q_1 = Transverse bar pitch
(spacing between centers)
 Q = Transverse bar pitch
(clear dimension)

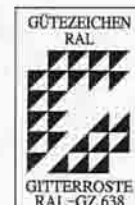
For exact manufacturing dimensions (t_1 and q_1) see pages 8/9.

Bearing bar dimension		Span L = clear width between supports, in mm																				
		500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500
20 x 3	Fv	4710	3271	2403	1840	1454	1178	973	818	697	601	523	460	407	363	326	294	267	243	223	204	188
	fv	0.20	0.29	0.39	0.51	0.64	0.79	0.96	1.14	1.34	1.56	1.79	2.03	2.29	2.57	2.87	3.17	3.50	3.84	4.20	4.57	4.96
	Fp	363	291	242	207	181	161	145	132	121	111	104	97	91	86	80	76	72	69	66	63	61
	fp	0.20	0.27	0.36	0.46	0.58	0.71	0.85	1.00	1.16	1.34	1.53	1.73	1.95	2.18	2.42	2.67	2.94	3.22	3.51	3.82	4.13
25 x 2	Fv	4899	3402	2499	1914	1512	1225	1012	850	725	625	544	478	424	378	339	306	278	253	232	213	196
	fv	0.16	0.23	0.31	0.41	0.51	0.63	0.77	0.91	1.07	1.24	1.43	1.62	1.83	2.05	2.29	2.54	2.80	3.07	3.35	3.65	3.96
	Fp	375	403	250	214	188	167	150	136	125	116	108	101	94	88	83	79	75	72	69	66	63
	fp	0.16	0.22	0.29	0.37	0.46	0.56	0.67	0.80	0.93	1.07	1.22	1.38	1.56	1.74	1.93	2.14	2.35	2.57	2.80	3.05	3.30
25 x 3	Fv	7348	5103	3749	2870	2268	1837	1518	1276	1087	937	816	718	636	567	509	459	417	380	347	319	294
	fv	0.16	0.23	0.31	0.41	0.51	0.63	0.77	0.91	1.07	1.24	1.43	1.62	1.83	2.05	2.29	2.54	2.80	3.07	3.35	3.65	3.96
	Fp	563	450	375	322	282	250	226	205	188	173	161	150	141	132	125	119	113	108	103	97	94
	fp	0.16	0.22	0.29	0.37	0.46	0.56	0.67	0.80	0.93	1.07	1.22	1.38	1.56	1.74	1.93	2.14	2.35	2.57	2.80	3.05	3.30
25 x 4	Fv	9798	6804	4999	3827	3024	2449	2024	1701	1449	1250	1089	957	848	756	679	612	555	506	463	425	392
	fv	0.16	0.23	0.31	0.41	0.51	0.63	0.77	0.91	1.07	1.24	1.43	1.62	1.83	2.05	2.29	2.54	2.80	3.07	3.35	3.65	3.96
	Fp	751	601	500	429	375	333	301	273	250	231	214	200	188	176	167	158	150	143	136	130	125
	fp	0.16	0.22	0.29	0.37	0.46	0.56	0.67	0.80	0.93	1.07	1.22	1.38	1.56	1.74	1.93	2.14	2.35	2.57	2.80	3.05	3.30
30 x 2	Fv	7066	4907	3605	2760	2181	1766	1460	1227	1045	901	785	690	611	545	489	442	401	365	334	307	283
	fv	0.13	0.19	0.26	0.34	0.43	0.53	0.64	0.76	0.89	1.04	1.19	1.35	1.53	1.71	1.91	2.12	2.33	2.56	2.80	3.05	3.31
	Fp	539	430	359	308	269	239	215	196	180	165	154	144	135	127	119	113	108	103	98	94	90
	fp	0.13	0.18	0.24	0.31	0.39	0.47	0.56	0.66	0.77	0.89	1.02	1.16	1.30	1.45	1.61	1.78	1.96	2.15	2.34	2.54	2.76
30 x 3	Fv	10598	7360	5407	4140	3271	2650	2190	1840	1568	1352	1176	1035	917	818	734	662	601	547	501	460	424
	fv	0.13	0.19	0.26	0.34	0.43	0.53	0.64	0.76	0.89	1.04	1.19	1.35	1.53	1.71	1.91	2.12	2.33	2.56	2.80	3.05	3.31
	Fp	808	647	539	462	404	359	323	294	269	249	231	215	202	190	180	170	161	154	147	141	135
	fp	0.13	0.18	0.24	0.31	0.39	0.47	0.56	0.66	0.77	0.89	1.02	1.16	1.30	1.45	1.61	1.78	1.96	2.15	2.34	2.54	2.76
30 x 4	Fv	14131	9813	7210	5520	4361	3533	2920	2453	2090	1802	1570	1380	1222	1090	979	883	801	730	668	613	565
	fv	0.13	0.19	0.26	0.34	0.43	0.53	0.64	0.76	0.89	1.04	1.19	1.35	1.53	1.71	1.91	2.12	2.33	2.56	2.80	3.05	3.31
	Fp	1077	862	718	615	539	478	430	392	359	331	308	288	269	253	240	226	215	205	196	188	180
	fp	0.13	0.18	0.24	0.31	0.39	0.47	0.56	0.66	0.77	0.89	1.02	1.16	1.30	1.45	1.61	1.78	1.96	2.15	2.34	2.54	2.76
35 x 3	Fv	14414	10010	7354	5630	4448	3603	2978	2502	2132	1838	1602	1408	1247	1112	998	901	817	745	681	626	577
	fv	0.11	0.16	0.22	0.29	0.37	0.45	0.55	0.66	0.77	0.89	1.02	1.16	1.31	1.47	1.64	1.81	2.00	2.19	2.40	2.61	2.83
	Fp	1092	874	728	623	546	486	437	397	364	336	312	291	273	256	242	230	218	208	199	190	183
	fp	0.11	0.15	0.20	0.26	0.32	0.39	0.48	0.56	0.66	0.76	0.87	0.98	1.10	1.23	1.37	1.52	1.67	1.83	2.00	2.17	2.36
35 x 4	Fv	19218	13346	9805	7507	5932	4805	3971	3337	2843	2451	2135	1877	1662	1483	1331	1201	1089	993	908	834	769
	fv	0.11	0.16	0.22	0.29	0.37	0.45	0.55	0.66	0.77	0.89	1.02	1.16	1.31	1.47	1.64	1.81	2.00	2.19	2.40	2.61	2.83
	Fp	1456	1165	970	832	728	647	582	529	486	448	416	388	364	343	323	306	291	278	265	253	242
	fp	0.11	0.15	0.20	0.26	0.32	0.39	0.47	0.56	0.66	0.76	0.87	0.98	1.10	1.24	1.37	1.52	1.67	1.83	2.00	2.17	2.35
40 x 2	Fv	12553	8718	6405	4904	3874	3138	2594	2179	1857	1601	1395	1226	1086	969	869	785	712	648	593	545	502
	fv	0.10	0.14	0.19	0.25	0.32	0.40	0.48	0.57	0.67	0.78	0.89	1.02	1.15	1.28	1.43	1.59	1.75	1.92	2.10	2.28	2.48
	Fp	946	756	630	540	473	420	378	344	316	291	270	252	237	223	210	199	190	181	172	164	157
	fp	0.10	0.14	0.18	0.23	0.29	0.35	0.42	0.50	0.58	0.67	0.76	0.87	0.97	1.09	1.21	1.34	1.47	1.61	1.75	1.91	2.07
40 x 3	Fv	18842	13084	9613	7360	5815	4710	3893	3271	2787	2403	2094	1840	1630	1454	1305	1178	1068	973	890	818	754
	fv	0.10	0.14	0.19	0.25	0.32	0.40	0.48	0.57	0.67	0.78	0.89	1.02	1.15	1.29	1.43	1.59	1.75	1.92	2.10	2.29	2.48
	Fp	1420	1135	947	812	710	631	568	516	473	437	405	378	355	334	316	298	284	270	258	247	237
	fp	0.10	0.14	0.18	0.23	0.29	0.35	0.42	0.50	0.58	0.67	0.77	0.87	0.97	1.09	1.21	1.34	1.47	1.61	1.76	1.91	2.07
40 x 4	Fv	25106	17435	12809	9807	7749	6277	5187	4359	3714	3202	2790	2452	2172	1937	1739	1569	1423	1297	1187	1090	1004
	fv	0.10	0.14	0.19	0.25	0.32	0.40	0.48	0.57	0.67	0.78	0.89	1.02	1.15	1.28	1.43	1.59	1.75	1.92	2.10	2.28	2.48
	Fp	1891	1513	1261	1081	946	841	756	688	630	582	540	504	473	445	420	398	378	360	344	329	316
	fp	0.10	0.14	0.18	0.23	0.29	0.35	0.42	0.50	0.58	0.67	0.76	0.87	0.97	1.09	1.21	1.34	1.47	1.61	1.75	1.91	2.07

Legend to tables:
see page 12



The loading data of STACO® SP Grating have been approved by the TÜV (Association for technical inspection).
Certificate No. R30049



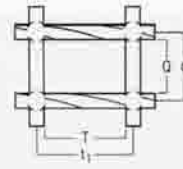
The loading data of STACO® SP Grating are in compliance with RAL-GZ 638

Type I

Material:
Steel St. 37.2

Nominal meshes:

1270 } for loading data see
1296 } table



t = Bearing bar pitch
(spacing between centers)
T = Bearing bar width (clear dimension)
q₁ = Transverse bar pitch
(spacing between centers)
Q = Transverse bar pitch
(clear dimension)

For exact manufacturing dimensions (t, and q₁) see pages 8/9.

Bearing bar dimension	Span L = clear width between supports, in mm																					
	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	
20 x 2	Fv	4630	3215	2360	1805	1425	1155	955	800	660	590	510	450	400	355	320	285	260	235	215	200	185
	fv	0.40	0.47	0.55	0.63	0.71	0.79	0.87	0.94	1.02	1.11	1.18	1.26	1.34	1.42	1.50	1.56	1.65	1.71	1.79	1.89	1.98
	Fp	477	381	318	272	238	212	190	173	159	146	136	127	119	112	106	100	95	90	86	82	79
	fp	0.30	0.41	0.54	0.69	0.87	1.06	1.26	1.49	1.74	2.00	2.29	2.60	2.92	3.26	3.63	3.99	4.39	4.78	5.22	5.66	6.16
25 x 2	Fv	7240	5025	3690	2825	2235	1810	1495	1255	1070	920	800	705	625	555	500	450	410	370	340	310	285
	fv	0.32	0.38	0.44	0.50	0.57	0.63	0.69	0.76	0.82	0.88	0.94	1.01	1.07	1.13	1.20	1.26	1.33	1.38	1.44	1.50	1.55
	Fp	497	395	329	282	247	219	197	179	164	152	141	131	123	116	109	104	98	94	89	85	82
	fp	0.16	0.22	0.29	0.37	0.46	0.56	0.67	0.79	0.92	1.07	1.22	1.38	1.55	1.74	1.92	2.13	2.33	2.57	2.78	3.01	3.29
25 x 3	Fv	10860	7540	5540	4240	3350	2715	2240	1885	1605	1385	1205	1060	940	835	750	675	615	560	510	470	430
	fv	0.32	0.38	0.44	0.50	0.57	0.63	0.69	0.76	0.82	0.88	0.94	1.01	1.07	1.13	1.20	1.26	1.33	1.38	1.44	1.50	1.55
	Fp	741	593	494	423	370	329	296	269	247	228	211	197	185	174	164	156	148	141	134	128	123
	fp	0.16	0.22	0.29	0.37	0.46	0.56	0.67	0.79	0.92	1.07	1.22	1.38	1.55	1.74	1.92	2.13	2.33	2.57	2.78	3.01	3.29
30 x 2	Fv	10440	7250	5325	4080	3220	2610	2155	1810	1545	1330	1160	1020	900	805	720	650	590	540	490	450	415
	fv	0.26	0.32	0.37	0.42	0.48	0.53	0.58	0.63	0.69	0.74	0.79	0.85	0.90	0.95	1.00	1.05	1.11	1.16	1.21	1.26	1.31
	Fp	709	567	473	405	354	315	283	258	236	218	202	189	177	167	157	149	141	135	129	123	118
	fp	0.13	0.18	0.24	0.31	0.38	0.47	0.56	0.66	0.77	0.89	1.02	1.15	1.30	1.45	1.60	1.78	1.95	2.14	2.34	2.53	2.75
30 x 3	Fv	15685	10880	7990	6120	4835	3915	3235	2720	2315	1995	1740	1530	1355	1205	1085	975	885	805	740	680	625
	fv	0.26	0.32	0.37	0.42	0.48	0.53	0.58	0.63	0.69	0.74	0.79	0.85	0.90	0.95	1.00	1.05	1.11	1.16	1.21	1.26	1.31
	Fp	1064	851	709	608	532	473	425	387	354	327	304	283	266	250	236	224	212	202	193	185	177
	fp	0.13	0.18	0.24	0.31	0.38	0.47	0.56	0.66	0.77	0.89	1.02	1.15	1.30	1.45	1.60	1.78	1.95	2.14	2.34	2.53	2.75
40 x 3	Fv	27850	19340	14210	10880	8595	6960	5750	4835	4120	3550	3095	2720	2405	2145	1925	1740	1575	1435	1315	1205	1110
	fv	0.20	0.24	0.28	0.32	0.36	0.40	0.44	0.48	0.52	0.55	0.59	0.63	0.67	0.71	0.75	0.79	0.83	0.87	0.91	0.95	0.99
	Fp	1876	1501	1250	1072	938	833	750	682	625	577	536	500	469	441	416	395	375	357	341	326	312
	fp	0.10	0.13	0.17	0.23	0.29	0.35	0.42	0.50	0.58	0.67	0.77	0.87	0.97	1.09	1.21	1.34	1.47	1.61	1.75	1.90	2.06

Type M

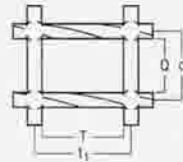
Material:
Steel St. 37.2

Nominal meshes:

2220 } for loading data see
2232 } table

Nominal meshes:

2245 } for loading data see
2270 } table minus 3 %
2296 }



t = Bearing bar pitch
(spacing between centers)
T = Bearing bar width (clear dimension)
q₁ = Transverse bar pitch
(spacing between centers)
Q = Transverse bar pitch
(clear dimension)

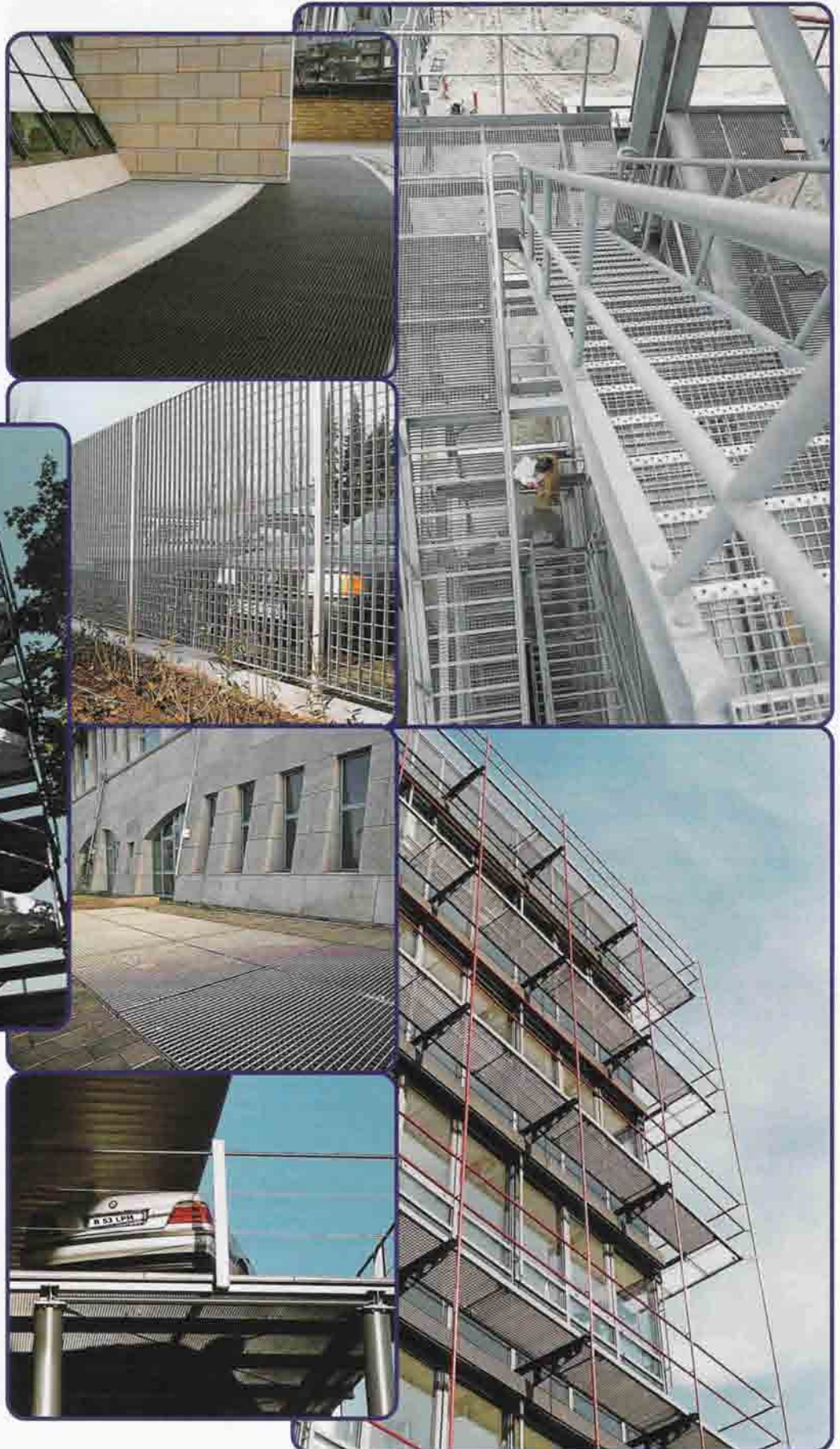
For exact manufacturing dimensions (t, and q₁) see pages 8/9.

Bearing bar dimension	Span L = clear width between supports, in mm																					
	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	
20 x 2	Fv	2790	1935	1420	1090	860	695	575	485	410	355	310	270	240	215	190	175	155	140	130	120	110
	fv	0.40	0.47	0.55	0.63	0.71	0.79	0.87	0.95	1.02	1.10	1.19	1.25	1.34	1.42	1.48	1.59	1.63	1.69	1.79	1.88	1.95
	Fp	210	170	140	120	105	90	80	75	70	65	60	56	52	49	47	44	42	40	38	36	35
	fp	0.18	0.26	0.34	0.45	0.56	0.66	0.78	0.96	1.14	1.31	1.50	1.70	1.92	2.14	2.38	2.62	2.90	3.17	3.45	3.71	4.08
20 x 3	Fv	4195	2915	2140	1640	1295	1050	865	725	620	535	465	410	360	320	290	260	235	215	195	180	165
	fv	0.40	0.47	0.55	0.63	0.71	0.79	0.87	0.95	1.02	1.10	1.19	1.25	1.34	1.42	1.48	1.59	1.63	1.69	1.79	1.88	1.95
	Fp	318	254	212	180	159	140	127	115	106	97	90	84	79	74	70	66	63	60	57	55	53
	fp	0.18	0.26	0.35	0.45	0.56	0.68	0.83	0.98	1.15	1.31	1.50	1.70	1.92	2.14	2.38	2.62	2.90	3.17	3.45	3.71	4.08
25 x 2	Fv	4366	3030	2225	1705	1345	1090	900	755	645	555	485	425	375	335	300	270	245	225	205	190	175
	fv	0.32	0.38	0.44	0.51	0.57	0.63	0.70	0.76	0.82	0.88	0.95	1.01	1.07	1.13	1.19	1.25	1.32	1.39	1.45	1.53	1.58
	Fp	328	263	219	187	164	146	131	119	109	101	93	87	82	77	73	69	65	62	59	57	54
	fp	0.15	0.21	0.28	0.36	0.45	0.55	0.66	0.78	0.91	1.05	1.19	1.35	1.53	1.71	1.91	2.10	2.31	2.53	2.76	3.03	3.24
30 x 2	Fv	6295	4370	3210	2460	1940	1570	1300	1090	930	800	700	615	540	485	435	390	355	325	295	270	250
	fv	0.26	0.32	0.37	0.42	0.48	0.53	0.58	0.63	0.69	0.74	0.79	0.85	0.89	0.95	1.00	1.05	1.11	1.16	1.21	1.25	1.31
	Fp	474	379	316	270	237	210	189	172	158	145	135	126	118	111	105	99	94	90	86	82	79
	fp	0.12	0.17	0.23	0.30	0.37	0.46	0.55	0.65	0.76	0.87	1.00	1.14	1.28	1.43	1.59	1.75	1.92	2.12	2.31	2.51	2.73
30 x 3	Fv	9445	6560	4815	3690	2915	2360	1950	1640	1395	1205	1050	920	815	725	650	590	535	485	445	410	375
	fv	0.26	0.32	0.37	0.42	0.48	0.53	0.58	0.63	0.69	0.74	0.79	0.85	0.89	0.95	1.00	1.05	1.11	1.16	1.21	1.25	1.31
	Fp	711	569	474	406	355	316	284	258	237	218	203	189	177	167	158	149	142	135	129	123	118
	fp	0.12	0.17	0.23	0.31	0.37	0.46	0.55	0.65	0.76	0.88	1.00	1.14	1.28	1.43	1.59	1.75	1.92	2.12	2.31	2.51	2.73
40 x 3	Fv	16790	11660	8565	6560	5180	4195	3470	2915	2480	2140	1865	1640	1450	1295	1160	1050	950	865	790	725	670
	fv	0.20	0.24	0.28	0.32	0.36	0.40	0.44	0.48	0.51	0.55	0.59	0.63	0.67	0.71	0.75	0.79	0.83	0.87	0.91	0.95	0.99
	Fp	1240	992	826	708	620	551	496	451	413	381	354	330	310	291	275	261	248	236	225	215	206
	fp	0.10	0.13	0.18	0.23	0.28	0.34	0.41	0.49	0.56	0.67	0.76	0.86	0.97	1.09	1.21	1.34	1.47	1.61	1.75	1.90	2.06

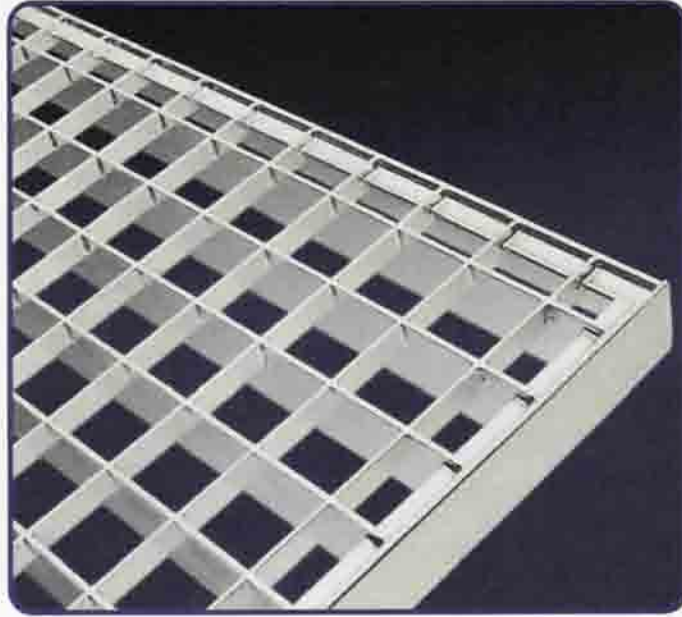
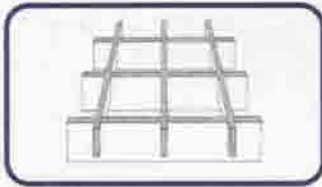
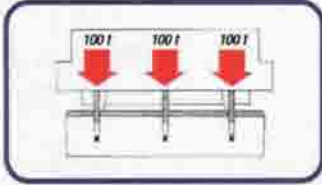
STACO® Press Grates (PR Grating)

Also in the press grating market, we intend to share our experience of more than 40 years as well as our knowhow with our customers. Let us know your specific requirements! We will do our best to give you an unobjectionable product and offer you an optimal service.

STACO® Press Grates are modern safety components for stages, platforms, ramps, stairways, covers, racks and shelves, separating and protective walls, fences, etc. in many fields in the construction of industrial plants, objects and administration buildings.



STACO® PR Grating
also available in
stainless steel
(see pages 22/23)



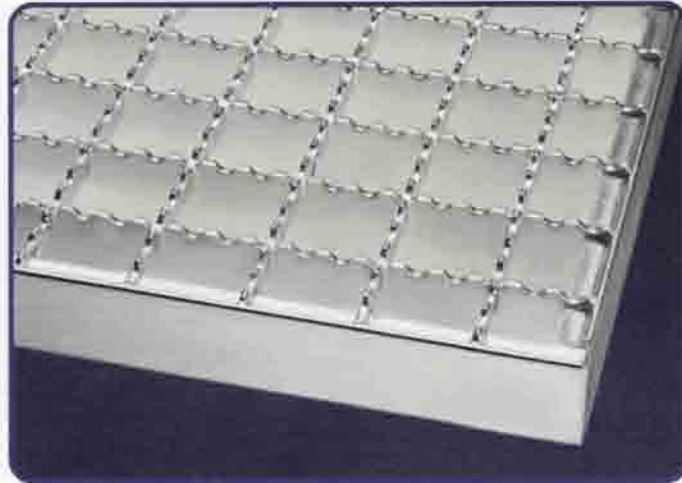
Edge Binding

In general, STACO® PR Grating is provided with a T-profile or a steel flat as edge binding. The grating may also be provided with other special bindings such as binders set on edge, stilts, angle irons, Z-profiles, and the like as a function of the specific application involved (see also page 32).

Design Principle

The transverse bars are pressed into the conically recessed bearing bars under pressure. As a result of the high pressure applied ("cold welding"), the STACO® PR Grating features high stability and is offering two major benefits:

1. The grating is well suited for any further processing such as sawing.
2. Disturbing clattering or rattling noises are avoided permanently.



STACO® Serrated Non-slip Grates

STACO® Grates are of highly nonskid design. Snow, ice, oil, fat, moisture or other critical conditions at ascending or descending catwalks or surfaces increase the danger of skidding. In such cases STACO® PR Serrated Grates and treads with their non-slip notches offer a very good protection against accidents. STACO® PR Serrated Grating is manufactured in different designs (see also page 30).

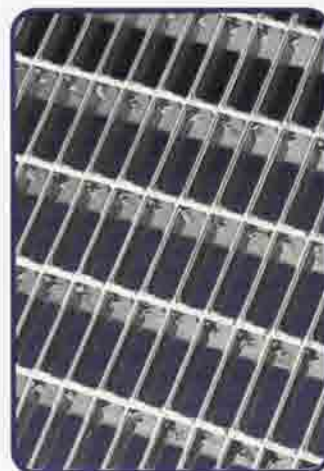
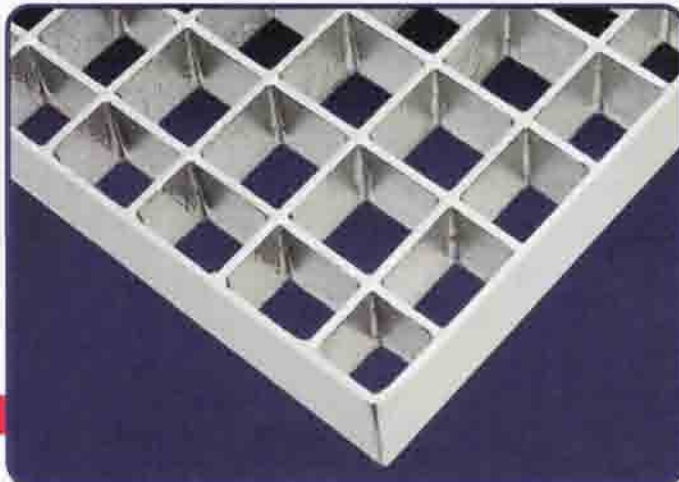


STACO® Serrated Grating is BIA tested!

STACO® Full Grates

STACO® Full Grates, generally also called carton grates, are manufactured by pressing of bearing bars and transverse bars of identical height and identical thickness. Steel, special steel and aluminium may be used for this

manufacturing method. Accordingly, attractive structural elements for building fronts, suspended ceilings, partition walls, and many other purposes are available for architectural purposes in particular.



STACO® PR Safety Mesh Grating

For safety reasons, a transverse bar spacing of approx. 10 mm clear width is recommended for areas with heavy pedestrian traffic. The narrow meshing also contributes to an attractive and uniform appearance.

STACO® PR Grating Manufacturing Program

Type Nominal Mesh	Number of bearing bars complete with 2 edge binders referred to a width of 1000 mm	1) Clear width in mm (approximate dimensions depending on material thickness) 2) Spacing between centers in mm (manufacturing dimension) Mesh width 1) Mesh pitch 2)	— Approximate weight in kg per 1 m ² PR Grating complete with edge binding und hot-galvanized —																											
			Bearing bar dimension Height/Thickness																											
			20/2	20/3	25/2	25/3	25/4	25/5	30/2	30/3	30/4	30/5	35/2	35/3	35/4	35/5	40/2	40/3	40/4	40/5	50/3	50/4	50/5	60/3	60/4	60/5	70/5	70/6		
3030	30	30 x 31 34 x 33	16 V	22 V	19 V	26 V	37 V	46 V	22 V	30 V	42 V	53 V	24 V	34 V	48 V	60 V	27 V	38 V	53 V	66 V	47 V	66 V	80 V	55 V	78 V	94 V	108 V	131 V		
3230	29	31 x 31 35 x 33	15	21	18	25	36	45	21	29	41	52	23	33	47	59	26	37	52	65	46	65	78	54	76	92	105	128		
3040	30	30 x 42 34 x 44	15	20	18	25	34	43	20	29	40	50	23	33	46	57	26	37	51	64	45	64	78	54	75	92	105	128		
3010	30	30 x 09 34 x 11	26	32	29	36	-	-	32	40	-	-	34	44	-	-	37	48	-	-	-	-	-	-	-	-	-	-		
3020	30	30 x 20 34 x 22	18	24	21	28	41	51	24	32	-	-	27	37	-	-	30	41	-	-	-	-	-	-	-	-	-	-		
3050	30	30 x 53 34 x 55	14	20	17	24	33	41	20	28	38	48	22	32	44	55	25	36	50	62	44	62	76	53	73	90	104	125		
3065	30	30 x 65 34 x 66	13	19	16	23	32	40	19	27	38	47	22	31	43	54	25	36	49	61	44	61	75	52	72	89	102	124		
30100	30	30 x 98 34 x 99	13	18	15	22	30	38	18	26	36	45	21	31	42	52	24	35	47	59	43	59	73	51	70	87	101	121		
2010	46	20 x 09 22 x 11	31	39	35	45	-	-	39	51	-	-	43	57	-	-	47	63	-	-	-	-	-	-	-	-	-	-		
2020	46	20 x 20 22 x 22	24 V	32 V	28 V	38 V	-	-	32 V	44 V	-	-	36 V	50 V	-	-	40 V	56 V	-	-	-	-	-	-	-	-	-	-		
2030	46	20 x 31 22 x 33	21	29	25	35	49	61	29	41	57	72	33	47	65	82	37	53	73	92	65	92	112	78	108	132	152	184		
2040	46	20 x 42 22 x 44	20	28	24	34	47	59	28	40	55	69	32	45	63	79	36	52	71	89	64	89	109	76	105	129	150	181		
2050	46	20 x 53 22 x 55	19	27	23	33	46	57	27	39	54	67	31	45	62	77	35	51	70	87	63	87	107	76	103	128	148	178		
2065	46	20 x 65 22 x 66	18	27	23	33	45	56	27	39	53	66	31	45	61	76	35	51	69	86	63	86	106	75	102	126	147	177		
20100	46	20 x 98 22 x 99	18	26	22	32	43	54	26	38	51	64	30	44	59	74	34	50	67	84	62	84	104	74	100	125	145	174		
4010	23	41 x 09 44 x 11	23	28	25	31	-	-	28	34	-	-	30	37	-	-	32	40	-	-	-	-	-	-	-	-	-	-		
4020	23	41 x 20 44 x 22	16	20	18	23	-	-	20	26	-	-	22	29	-	-	24	33	-	-	-	-	-	-	-	-	-	-		
4030	23	41 x 31 44 x 33	13	17	15	21	30	37	17	24	34	42	20	27	38	48	22	30	42	53	36	53	64	43	61	74	85	103		
4040	23	41 x 42 44 x 44	12 V	16 V	14 V	19 V	28 V	35 V	16 V	23 V	32 V	40 V	18 V	26 V	36 V	45 V	21 V	29 V	40 V	50 V	35 V	50 V	61 V	42 V	59 V	71 V	82 V	99 V		
4050	23	41 x 53 44 x 55	11	15	13	19	26	33	15	22	30	38	18	25	35	43	20	28	39	48	34	48	59	41	57	69	80	97		
4065	23	41 x 65 44 x 66	11	15	13	18	25	32	15	21	29	37	17	24	34	42	19	28	38	47	34	47	58	40	56	68	79	95		
40100	23	41 x 98 44 x 99	10	14	12	17	24	30	14	20	28	35	16	24	32	40	18	27	36	45	33	45	56	39	54	66	77	93		
40130	23	41 x 131 44 x 132	10	14	12	17	23	29	14	20	27	34	16	23	32	39	18	26	36	45	33	45	55	39	53	66	78	92		
5010	19	52 x 09 55 x 11	22	26	24	28	-	-	26	31	-	-	27	33	-	-	29	36	-	-	-	-	-	-	-	-	-	-		
5020	19	52 x 20 55 x 22	14	18	16	21	-	-	18	23	-	-	20	26	-	-	22	29	-	-	-	-	-	-	-	-	-	-		
5030	19	52 x 31 55 x 33	12	15	14	18	26	33	15	21	30	37	17	23	34	42	19	26	37	46	31	46	55	37	53	64	73	89		
5040	19	52 x 42 55 x 44	11	14	13	17	24	30	14	20	28	35	16	22	31	39	18	25	35	44	30	44	52	35	51	61	70	85		
5050	19	52 x 53 55 x 55	10 V	13 V	12 V	16 V	23 V	28 V	13 V	19 V	26 V	33 V	15 V	21 V	30 V	37 V	17 V	24 V	33 V	42 V	29 V	42 V	51 V	35 V	49 V	59 V	68 V	83 V		
5065	19	52 x 65 55 x 66	9	13	11	16	22	27	13	18	25	32	15	21	29	36	16	24	32	41	39	41	49	34	48	58	67	81		
50100	19	52 x 98 55 x 99	9	12	10	15	20	25	12	17	24	30	14	20	27	34	16	23	31	39	28	39	48	33	46	56	65	79		
50130	19	52 x 131 55 x 132	8	12	10	14	20	25	12	17	23	29	14	20	27	34	15	22	30	38	28	38	47	33	45	56	64	78		
6510	16	64 x 09 67 x 11	21	24	23	26	-	-	24	29	-	-	26	31	-	-	27	33	-	-	-	-	-	-	-	-	-	-		

Type Nominal Mesh	Number of bearing bars complete with 2 edge binders referred to a width of 1000 mm	Mesh width 1) Mesh pitch 2)	— Approximate weight in kg per 1 m ² PR Grating complete with edge binding und hot-galvanized —																											
			Bearing bar dimension														Height/Thickness													
			20/2	20/3	25/2	25/3	25/4	25/5	30/2	30/3	30/4	30/5	35/2	35/3	35/4	35/5	40/2	40/3	40/4	40/5	50/3	50/4	50/5	60/3	60/4	60/5	70/5	70/6		
6520	16	64 x 20 67 x 22	13	16	15	19	—	—	16	21	—	—	18	23	—	—	20	26	—	—	—	—	—	—	—	—	—			
6530	16	64 x 31 67 x 33	11	14	12	16	24	30	14	18	27	34	15	21	30	37	17	23	33	41	28	41	49	32	47	56	64	78		
6540	16	64 x 42 67 x 44	10	13	11	15	22	27	13	17	25	31	14	20	28	35	16	22	31	39	26	39	46	31	45	54	61	75		
6550	16	64 x 53 67 x 55	9	12	10	14	20	25	12	16	23	29	13	19	26	33	16	21	29	37	26	37	44	30	43	52	59	72		
6565	16	64 x 65 67 x 66	8	11	10	14	19	24	11	16	22	28	13	18	25	32	14	21	28	36	25	36	43	30	42	51	58	71		
65100	16	64 x 98 67 x 99	8	11	9	13	18	22	11	15	21	26	12	17	24	30	14	20	27	34	24	34	41	29	40	49	56	68		
65130	16	64 x 131 67 x 132	7	10	9	13	17	22	10	15	20	25	12	17	23	29	13	19	26	33	24	33	40	28	39	48	56	67		

Legend:

Material grades upon request:

**Steel St 37.2 acc. to EN 10 025 (all types)
to St. 52.3 (only bearing bars of 2 to 4 mm thickness)**

- hot-galvanized acc. to DIN EN ISO 1461 (DIN 50976)
- bituminized
- plastics coated
- stove-enamelled

Serrated designs:

- S1: Bearing bars (from 22 mm to 99 mm transverse bar pitch)
- S2: Bearing bars and transverse bars (except for bearing bar dimension 70 x 6 mm)
- S3: Transverse bars (all types)

Standard program: For cost reduction and shorter delivery times we recommend material according to our standard program.

Aluminium, AlMg, and other grades upon request

- pickled
 - anodized
 - stove-enamelled
- (Weight data reduced by appr. 65%.)

Full grates:

- all types designated by "V"

For minimum ordering quantities and delivery times please consult your STACO® Service Department.

Special steel 1.4301 (V2A) and 1.4571 (V4A) (all types with bearing bars of 2 to 4 mm thickness)

- pickled
 - electrochemically polished
 - stove-enamelled
- (Weight data reduced by appr. 7%)

Stainless 4003 (upon request)

- unpickled only

Mesh pitches other than those specified in the table are possible. Please contact your STACO® Service Department.

Individual Manufacture:

STACO® will manufacture pressed grates also for specific individual applications!

Examples:

- Extreme heavy-duty grates with bearing bars of more than 120 x 8 mm in size
- Pressed grates with checker plate covering
- Full grates, bearing and transverse bars of identical height and thickness (see page 17)
- Fencing elements
- Safety light well grating
- Building facings and protection against graffiti and wall scribbling
- Ceiling grates
- Rack and shelf grates
- and many other applications more

Please consult our Service Engineers.

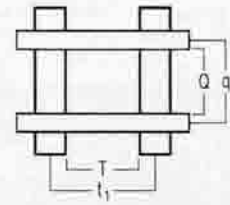
STACO® PR Grating Loading Tables

Type 30

Material:
Steel St. 37.2

Nominal meshes:
3010 } for loading data see
3020 } table
3030 }

Nominal meshes:
3040 } for loading data see
3050 } table minus 5%
3065 }
30100 }



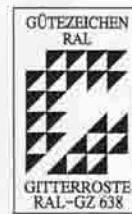
t_i = Bearing bar pitch
(spacing between centers)
 T = Bearing bar width
(clear dimension)
 q_i = Transverse bar pitch
(spacing between centers)
 Q = Transverse bar pitch
(clear dimension)

For exact manufacturing dimensions (t_i , u_i , q_i) see pages 18/19

Bearing bar dimension	Span L = clear width between supports, in mm																					
	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	
20 x 2	Fv	1839	1277	938	718	568	460	390	319	272	235	204	180	159	142	127	115	104	95	87	80	74
	Iv	0.20	0.29	0.39	0.51	0.64	0.79	0.96	1.14	1.34	1.56	1.79	2.03	2.29	2.57	2.87	3.17	3.50	3.84	4.20	4.57	4.96
	Fp	179	143	119	102	89	79	71	65	60	55	51	48	45	42	40	38	36	34	32	31	30
	fp	0.20	0.27	0.36	0.46	0.58	0.70	0.85	1.00	1.16	1.34	1.53	1.73	1.95	2.18	2.42	2.67	2.94	3.22	3.51	3.82	4.13
20 x 3	Fv	2765	1920	1410	1080	853	691	572	480	409	353	307	270	240	213	191	173	157	143	131	120	111
	Iv	0.20	0.29	0.39	0.51	0.64	0.79	0.96	1.14	1.34	1.56	1.79	2.03	2.29	2.57	2.87	3.17	3.50	3.84	4.20	4.57	4.96
	Fp	269	215	179	154	134	119	107	98	90	83	77	72	67	63	60	57	54	51	49	47	45
	fp	0.20	0.27	0.36	0.46	0.58	0.71	0.85	1.00	1.16	1.34	1.53	1.73	1.95	2.18	2.42	2.67	2.94	3.22	3.51	3.82	4.13
25 x 2	Fv	2876	1997	1467	1123	887	719	594	500	426	367	319	281	249	222	199	180	163	149	136	125	115
	Iv	0.16	0.23	0.31	0.41	0.51	0.63	0.77	0.91	1.07	1.24	1.43	1.62	1.83	2.05	2.29	2.54	2.80	3.07	3.35	3.65	3.96
	Fp	277	222	185	158	139	123	111	101	92	85	79	74	69	65	62	58	55	53	50	48	46
	fp	0.16	0.22	0.29	0.37	0.46	0.56	0.67	0.80	0.93	1.07	1.22	1.38	1.56	1.74	1.93	2.14	2.35	2.57	2.80	3.05	3.30
25 x 3	Fv	4313	2995	2201	1685	1328	1078	891	749	638	550	479	421	373	333	299	270	245	223	204	187	173
	Iv	0.16	0.23	0.31	0.41	0.51	0.63	0.77	0.91	1.07	1.24	1.43	1.62	1.83	2.05	2.29	2.54	2.80	3.07	3.35	3.65	3.96
	Fp	416	332	277	237	208	185	166	151	139	128	119	111	104	98	92	87	83	79	76	72	69
	fp	0.16	0.22	0.29	0.37	0.46	0.56	0.67	0.80	0.93	1.07	1.22	1.38	1.56	1.74	1.93	2.14	2.35	2.57	2.80	3.05	3.30
25 x 4	Fv	5751	3993	2934	2246	1775	1437	1188	998	851	734	639	562	497	444	398	359	326	297	272	250	230
	Iv	0.16	0.23	0.31	0.41	0.51	0.63	0.77	0.91	1.07	1.24	1.43	1.62	1.83	2.05	2.29	2.54	2.80	3.07	3.35	3.65	3.96
	Fp	554	443	369	317	277	246	222	201	185	170	158	148	138	130	123	117	111	106	101	96	92
	fp	0.16	0.22	0.29	0.37	0.46	0.56	0.67	0.80	0.93	1.07	1.22	1.38	1.56	1.74	1.93	2.14	2.35	2.57	2.80	3.05	3.30
25 x 5	Fv	7188	4992	3668	2808	2219	1797	1485	1248	1064	917	798	702	622	554	498	449	408	371	340	312	288
	Iv	0.16	0.23	0.31	0.41	0.51	0.63	0.77	0.91	1.07	1.24	1.43	1.62	1.83	2.05	2.29	2.54	2.80	3.07	3.35	3.65	3.96
	Fp	693	554	462	396	346	308	277	252	231	213	198	185	173	163	154	146	139	132	126	120	115
	fp	0.16	0.22	0.29	0.37	0.46	0.56	0.67	0.80	0.93	1.07	1.22	1.38	1.56	1.74	1.98	2.14	2.35	2.57	2.80	3.05	3.30
30 x 2	Fv	4147	2880	2116	1620	1280	1037	857	720	614	529	461	405	359	320	287	259	235	214	196	180	166
	Iv	0.13	0.19	0.26	0.34	0.43	0.53	0.64	0.76	0.89	1.04	1.19	1.35	1.53	1.71	1.91	2.12	2.33	2.56	2.80	3.05	3.30
	Fp	396	317	264	226	198	176	158	144	132	122	113	105	99	93	88	83	79	75	72	69	66
	fp	0.13	0.18	0.24	0.31	0.39	0.47	0.56	0.66	0.77	0.89	1.02	1.16	1.30	1.45	1.61	1.78	1.96	2.15	2.34	2.54	2.76
30 x 3	Fv	6221	4320	3174	2430	1920	1555	1285	1080	920	794	691	608	538	480	431	370	353	321	294	270	249
	Iv	0.13	0.19	0.26	0.34	0.43	0.53	0.64	0.76	0.89	1.04	1.19	1.35	1.53	1.71	1.91	2.12	2.33	2.56	2.80	3.05	3.30
	Fp	594	475	396	340	297	264	238	216	198	183	170	158	149	140	132	125	119	113	108	103	99
	fp	0.13	0.18	0.24	0.31	0.39	0.47	0.56	0.66	0.77	0.89	1.02	1.16	1.30	1.45	1.61	1.78	1.96	2.15	2.34	2.54	2.76
30 x 4	Fv	8294	5760	4232	3240	2560	2074	1714	1440	1227	1058	922	810	717	640	574	518	470	428	392	360	332
	Iv	0.13	0.19	0.26	0.34	0.43	0.53	0.64	0.76	0.89	1.04	1.19	1.35	1.53	1.71	1.91	2.12	2.33	2.56	2.80	3.05	3.30
	Fp	792	634	528	453	396	352	317	288	264	244	226	211	198	186	176	167	158	151	144	138	132
	fp	0.13	0.18	0.24	0.31	0.39	0.47	0.56	0.66	0.77	0.89	1.02	1.16	1.30	1.45	1.61	1.78	1.96	2.15	2.34	2.54	2.76
30 x 5	Fv	10368	7200	5290	4050	3200	2592	2142	1800	1534	1322	1152	1013	897	800	718	648	588	536	490	450	415
	Iv	0.13	0.19	0.26	0.34	0.43	0.53	0.64	0.76	0.89	1.04	1.19	1.35	1.53	1.71	1.91	2.12	2.33	2.56	2.80	3.05	3.30
	Fp	990	792	660	566	495	440	396	360	330	305	283	264	248	233	220	208	198	189	180	172	165
	fp	0.13	0.18	0.24	0.31	0.39	0.47	0.56	0.66	0.77	0.89	1.02	1.16	1.30	1.45	1.61	1.78	1.96	2.15	2.34	2.54	2.76
40 x 2	Fv	7368	5117	3759	2878	2274	1842	1523	1279	1090	940	819	720	637	569	510	461	418	381	348	320	295
	Iv	0.10	0.14	0.19	0.25	0.32	0.40	0.48	0.57	0.67	0.78	0.89	1.02	1.15	1.28	1.43	1.59	1.75	1.92	2.10	2.29	2.48
	Fp	691	553	461	395	345	307	276	251	230	213	197	184	173	163	153	145	138	132	126	120	115
	fp	0.10	0.14	0.18	0.23	0.29	0.35	0.42	0.50	0.58	0.67	0.76	0.87	0.97	1.09	1.21	1.34	1.47	1.61	1.76	1.91	2.07
40 x 3	Fv	11059	7680	5642	4320	3414	2765	2285	1920	1636	1410	1229	1080	957	853	766	691	627	571	523	480	442
	Iv	0.10	0.14	0.19	0.25	0.32	0.40	0.48	0.57	0.67	0.78	0.89	1.02	1.15	1.29	1.43	1.59	1.75	1.92	2.10	2.29	2.48
	Fp	1037	829	691	592	518	461	415	377	346	319	296	276	259	244	230	216	207	197	189	180	173
	fp	0.10	0.14	0.18	0.23	0.29	0.35	0.42	0.50	0.58	0.67	0.77	0.87	0.97	1.09	1.21	1.34	1.47	1.61	1.76	1.91	2.07
40 x 4	Fv	14737	10234	7519	5756	4549	3684	3045	2558	2180	1879	1637	1439	1274	1137	1021	921	835	761	696	640	590
	Iv	0.10	0.14	0.19	0.25	0.32	0.40	0.48	0.57	0.67	0.78	0.89	1.02	1.15	1.28	1.43	1.59	1.75	1.92	2.10	2.28	2.48
	Fp	1382	1105	921	789	691	614	553	502	461	425	395	368	345	325	307	291	276	263	251	240	230
	fp	0.10	0.14	0.18	0.23	0.29	0.35	0.42	0.50	0.58	0.67	0.76	0.87	0.97	1.09	1.21	1.34	1.47	1.61	1.75	1.91	2.07
40 x 5	Fv	18428	12797	9401	7198	5687	4607	3807	3120	2726	2351	2048										



The loading data of STACO® PR Grating have been approved by the TÜV (Association for technical inspection). Certificate No. R30049



The loading data of STACO® PR Grating are in compliance with RAL-GZ 638

Bearing bar dimension		500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500
		50 x 3	Fv	17280	12000	8816	6750	5333	4320	3570	3000	2556	2204	1920	1688	1495	1333	1197	1080	979	893	816
	fv	0.08	0.11	0.16	0.20	0.26	0.32	0.38	0.46	0.54	0.62	0.71	0.81	0.92	1.03	1.15	1.27	1.40	1.54	1.68	1.83	1.98
	Fp	1589	1272	1060	908	795	706	636	578	530	489	454	424	397	374	353	335	318	303	289	276	265
	fp	0.08	0.11	0.15	0.19	0.23	0.28	0.34	0.40	0.46	0.54	0.61	0.69	0.78	0.87	0.97	1.07	1.18	1.29	1.40	1.53	1.65
50 x 4	Fv	23031	15994	11750	8996	7108	5757	4758	3999	3407	2938	2559	2249	1993	1778	1595	1439	1306	1190	1088	1000	922
	fv	0.08	0.11	0.16	0.20	0.26	0.32	0.38	0.46	0.54	0.62	0.71	0.81	0.92	1.03	1.15	1.27	1.40	1.54	1.68	1.83	1.98
	Fp	2118	1695	1412	1210	1059	941	847	770	706	652	605	565	530	498	471	446	424	403	385	368	353
	fp	0.08	0.11	0.15	0.19	0.23	0.28	0.34	0.40	0.46	0.54	0.61	0.69	0.78	0.87	0.97	1.07	1.18	1.29	1.40	1.53	1.65
50 x 5	Fv	28796	19997	14692	11248	8888	7199	5950	5000	4260	3673	3200	2813	2491	2222	1994	1800	1633	1488	1361	1250	1152
	fv	0.08	0.11	0.16	0.20	0.26	0.32	0.38	0.46	0.54	0.62	0.71	0.81	0.92	1.03	1.15	1.27	1.40	1.54	1.68	1.83	1.98
	Fp	2649	2119	1766	1513	1324	1177	1059	963	883	815	757	706	662	623	589	558	530	504	482	461	441
	fp	0.08	0.11	0.15	0.19	0.23	0.28	0.34	0.40	0.46	0.54	0.61	0.69	0.78	0.87	0.97	1.07	1.18	1.29	1.40	1.53	1.65
60 x 3	Fv	24883	17280	12695	9720	7680	6220	5141	4320	3681	3173	2764	2430	2152	1919	1723	1555	1410	1285	1175	1080	995
	fv	0.07	0.10	0.13	0.17	0.21	0.27	0.32	0.38	0.45	0.52	0.60	0.68	0.76	0.86	0.96	1.06	1.17	1.28	1.40	1.52	1.65
	Fp	2247	1797	1498	1284	1123	998	899	817	749	691	642	599	561	528	499	473	449	428	408	390	374
	fp	0.07	0.09	0.12	0.15	0.19	0.24	0.28	0.33	0.39	0.45	0.51	0.58	0.65	0.73	0.81	0.89	0.98	1.07	1.17	1.27	1.38
60 x 4	Fv	33178	23040	16927	12960	10240	8294	6855	5760	4908	4232	3686	3240	2870	2560	2298	2074	1881	1714	1568	1440	1328
	fv	0.07	0.10	0.13	0.17	0.21	0.27	0.32	0.38	0.45	0.52	0.60	0.68	0.76	0.86	0.96	1.06	1.17	1.28	1.40	1.52	1.65
	Fp	2996	2397	1998	1712	1498	1332	1199	1090	999	922	856	799	749	705	666	631	599	571	545	521	499
	fp	0.07	0.09	0.12	0.15	0.19	0.24	0.28	0.33	0.39	0.45	0.51	0.58	0.65	0.73	0.81	0.89	0.98	1.07	1.17	1.27	1.38
60 x 5	Fv	41472	28800	21159	16200	12800	10368	8569	7200	6135	5290	4608	4050	3587	3200	2872	2592	2351	2142	1960	1800	1659
	fv	0.07	0.10	0.13	0.17	0.21	0.27	0.32	0.38	0.45	0.52	0.60	0.68	0.76	0.86	0.96	1.06	1.17	1.28	1.40	1.52	1.65
	Fp	3745	2996	2497	2140	1873	1665	1498	1362	1248	1152	1070	999	936	881	832	789	749	713	681	651	624
	fp	0.07	0.09	0.12	0.15	0.19	0.24	0.28	0.33	0.39	0.45	0.51	0.58	0.65	0.73	0.81	0.89	0.98	1.07	1.17	1.27	1.38
70 x 5	Fv	56443	39196	28797	22048	17420	14111	11662	9799	8349	7199	6271	5512	4882	4355	3908	3528	3199	2915	2667	2450	2257
	fv	0.06	0.08	0.11	0.15	0.18	0.23	0.27	0.33	0.38	0.44	0.51	0.58	0.66	0.74	0.82	0.91	1.00	1.10	1.20	1.31	1.42
	Fp	4997	3998	3338	2855	2498	2221	1999	1817	1666	1537	1428	1332	1249	1175	1110	1052	999	952	908	869	833
	fp	0.05	0.07	0.10	0.13	0.16	0.20	0.24	0.28	0.33	0.38	0.43	0.49	0.55	0.62	0.69	0.76	0.84	0.92	1.00	1.09	1.18
70 x 6	Fv	67737	47039	33854	25920	20480	16588	13709	11520	9815	8463	7372	6480	5740	5120	4595	4147	3761	3427	3135	2940	2710
	fv	0.06	0.08	0.11	0.15	0.18	0.23	0.27	0.33	0.38	0.44	0.51	0.58	0.66	0.74	0.82	0.91	1.00	1.10	1.20	1.31	1.42
	Fp	5997	4798	3998	3427	2998	2665	2399	2181	1999	1845	1713	1599	1499	1411	1332	1262	1199	1142	1090	1043	999
	fp	0.05	0.07	0.10	0.13	0.16	0.20	0.24	0.28	0.33	0.38	0.43	0.49	0.55	0.62	0.69	0.76	0.84	0.92	1.00	1.09	1.18

Legend:

Fv = Loading data for uniformly distributed loads (Fv), in daN/m²
 fv = Deflection values (fv) in case of load Fv, in cm
 Fp = Loading data for a central single load (Fp), in daN, and a loading area of 200 x 200 mm
 fp = Deflection values (fp) in case of load Fp, in cm

Loading of material (permissible stress): 1600 daN/cm²
 Safety factor up to yield point: 1.5
 Safety factor up to breaking point: 2.35
 Grating support = grating height, however 30 mm minimum

As compared with nominal mesh PR 3030 the loading data (Fv) will be reduced by 3% and loads (Fp) by 4% in case of PR 3230.

Load-bearing capacity of Serrated Grating

In case of S1 and S2 the load data are reduced as follows:

Types S1 and S2 (punching depth = 2.5 mm)

in case of a grating height of 25 mm = 10.0 %	in case of a grating height of 50 mm = 5.0 %
in case of a grating height of 30 mm = 8.3 %	in case of a grating height of 60 mm = 4.2 %
in case of a grating height of 35 mm = 7.2 %	in case of a grating height of 70 mm = 3.6 %
in case of a grating height of 40 mm = 6.3 %	

In case of type S3 there will be no change of loading data.

(For Serrated Grating types see pages 30/31)

This range should not be exceeded to ensure a safe passage. The elastic deflection under loading conditions is not more than 1/200 of the span, in any case ≤ 4 mm with a single traffic load of 150 daN referred to a loading area of 200 x 200 mm.

Within this restriction the grating is still capable of taking up a single traffic load of 150 daN in the most unfavourable position of a loading area of 200 x 200 mm in case of a maximum deflection of 1/200 of the span (see AGI).

If in case of a distributed live load of 500 daN/m² the maximum deflection is to be 4 mm, STACO® recommends to account for a span limitation according to this line.

In case of a distributed live load of 500 daN/m², the maximum deflection at this limitation will be 1/200 of the span.

Multipliers of loading values:

Material	Fv/Fp	fv/fp
V2A (1.4301)	Factor 0,83	Factor 0,95
V4A (1.4571)	Factor 0,89	Factor 0,95
Stainless (4003)	Factor 1,38	Factor 1,00
AlMg ₂ (Aluminium)	Factor 0,76	Factor 2,94

STACO® Stainless Steel Grates

For more than 40 years, STACO® have been manufacturing grating made of stainless steel. Users from the fields of industry, trade, handicraft, municipalities, medicine and sanitary installations as well as architecture rely on the high quality and economics of our stainless steel products.

Optimal Surface Properties

STACO® Stainless Steel Grates do not require any additional corrosion protection as is the case with conventional steel grates, for instance, which mostly are hot galvanized by full immersion in a galvanizing bath.

The chromium contents of at least 10.5% in stainless steel form a colourless and transparent oxide layer on the surface. This protective layer is highly corrosion-resistant. It is for this reason that STACO® Stainless Steel Grates are being used whenever stringent requirements need to be satisfied in regard to corrosion protection and hygienics.

All tarnish normally generated on the surface during welding is removed by a special pickling process. STACO® Stainless Steel Grates thus also contribute substantially to a first-class appearance of your structures.



STACO® is a member to the association of Edelmetall Rostfrei e.V. trademark users.

STACO® Stainless Steel Grates are primarily manufactured in the following grades of material:

Material No.	Conventional Designation	International Designation	Short Designation
1.4301	V2A	INOX 304	x 5 CrNi 18 9
1.4571	V4A	INOX 316 TI	x 10 CrNi MoTi 1810

Other Stainless Steel Grades available upon request.

For fastening materials see page 28.

STACO® SP Stainless Steel Grating Pressure Welded Grates

For manufacturing program see pages 8 and following.

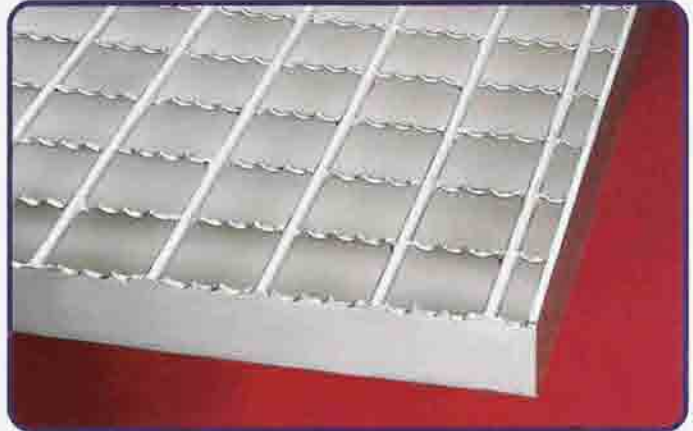
STACO® SP Stainless Steel Grates are manufactured with smooth and round transverse bars, in order to restrict dust and other undesired deposits to a minimum.



Stainless Steel Grating SP 3032



Stainless Steel Tread SP 3032



Stainless Steel Grating SP 3032 Serrated Type S1 (SP/S1 3032)

STACO® PR Stainless Steel Grating Pressed Grates

For manufacturing program see pages 18 and following.



Stainless Steel Grating PR 3030



Stainless Steel Tread PR 3030
Serrated Type S3 (PR/S3 3030)



Stainless Steel Tread PR 3010



Stainless Steel Grating PR 3030 Serrated Type S3 (PR/S3 3030)

Other nominal mesh widths for SP see pages 8/9, for PR see pages 18/19.

STACO® Security Fencing Elements

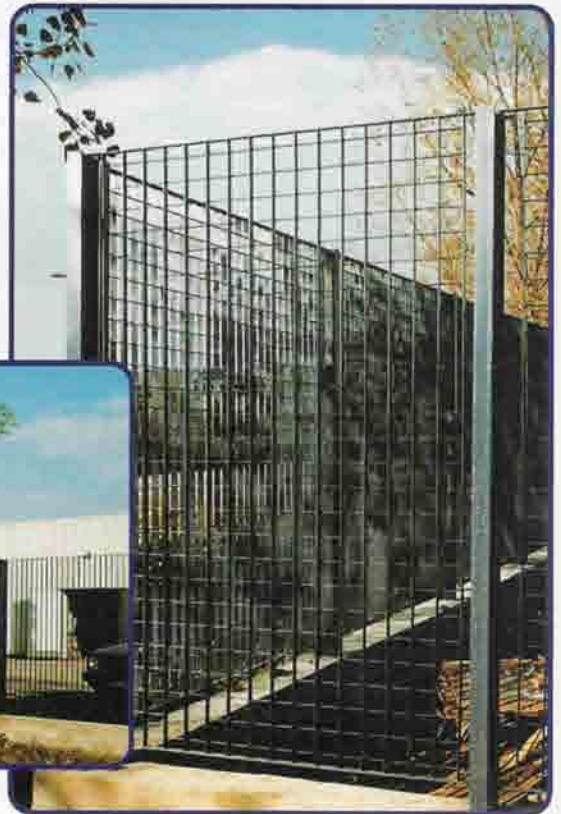
From the very beginning, we have paid utmost attention to the manufacture of stable and secure structural elements. STACO® fencing elements are manufactured with the same care and experience as our grates. You can rest assured that the designation "Security" is fully justified with every fencing element supplied. Convince yourselves of the high quality of our products!



**STACO® Security Fencing
also available in
stainless steel**

STACO® fencing elements:

- offer a high standard of safety
- are extremely stable
- feature a high torsional rigidity
- are designed for a long service life
- are provided with optimal corrosion protection
- may be given individual paint coatings
- give an aesthetic and attractive appearance



STACO® Security Fencing Elements may be manufactured both from SP and PR Grating.

Irrespective of the type of grating selected you can rely on the high quality standards of STACO® SP and PR Grating.

Fencing made of SP Grating

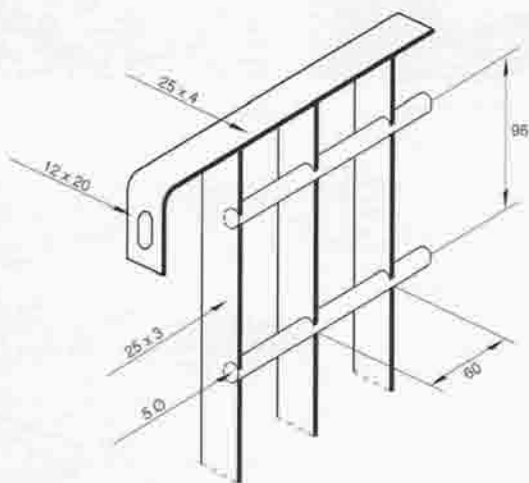


Figure: SP (ZE) 6096/25 x 3

For SP Grating Fences, we especially recommend the nominal mesh width of all "Z Types"; see manufacturing program on pages 8/9.

Fencing made of PR Grating

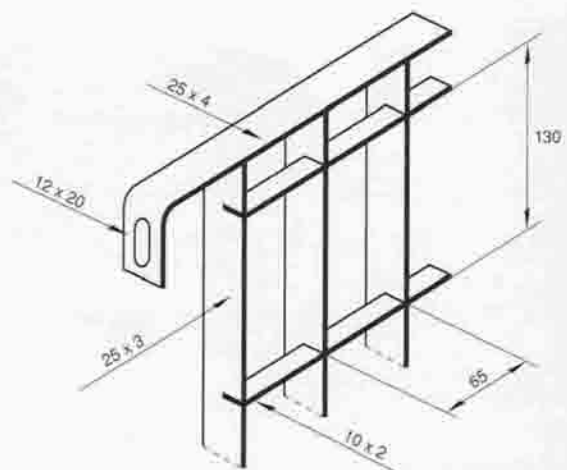


Figure: PR 65130/25 x 3

For PR Grating Fences, we especially recommend all types having a nominal mesh width of 65; see manufacturing program on pages 18/19.

STACO® Safety Grating

Protect yourself against burglary ...



... by using STACO® Safety Grates.

Protect your premises:

- Banking institutes
- Municipal institutions and public offices
- Administration buildings
- Industrial plants
- Facilities and plants for which particular safety requirements or regulations need to be satisfied
- Private estates and many other objects more

Advantages offered by hot-galvanized STACO® Safety Grates:

- The round bars (18 mm dia) welded in position on the underside cannot be cut by means of bolt cutters or other similar standard tools.
- A safety chain of welded steel will additionally be protected against severing by means of a steel sleeve pipe.
- Anti-burglary tensioning device actuated by means of a lever mechanism.
- Optimal protection of escapes against burglary, since the lever mechanism can be readily unlocked from inside.
- Simple assembly and installation according to given instructions.

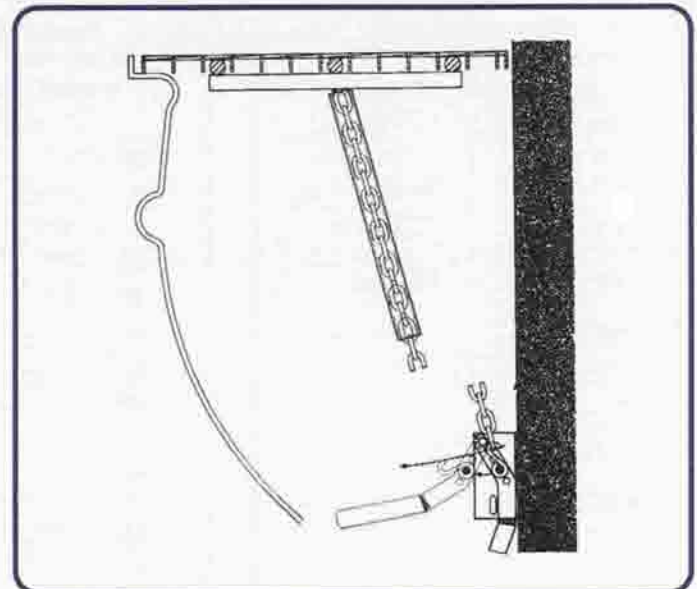
The STACO® Safety System consists of:

- STACO® Safety Grating
PR or SP type at option
- Safety chain
- Chain sleeve pipe with locking pin
- Lever type tensioning device
Unlocking from outside not possible



Figure: Typ PR 3010/30 x 3 with narrow mesh.
Particularly recommendable in case of pedestrian traffic.

Utility patent granted



Technical drawing: STACO® Safety Grating System

Standard Program:

Mesh width (Nominal size)	Grating height/thickness
PR: 3010 mm	25 x 3 mm
3030 mm	30 x 3 mm
SP: 3014 mm	40 x 3 mm

Other types and designs possible upon request.

Angular frames available upon request.

STACO® Storage Grates and Mats



SP Grating

Pressure welded grates
with edge binding and hot-galvanized
Nominal mesh width 3032
(Mesh pitch = 34 x 38 mm)

Grate outside dimensions, in mm	Bearing bar dimension, in mm
<u>500</u> x 1000	30 x 2
<u>600</u> x 1000	and
<u>700</u> x 1000	30 x 3
<u>800</u> x 1000	
<u>900</u> x 1000	
* <u>1000</u> x 950	
*(<u>1000</u> x 1000)	
<u>1100</u> x 1000	
<u>1200</u> x 1000	
<u>1500</u> x 1000	30 x 3

The underlined dimension is the bearing bar dimension.

PR Grating

Pressure welded grates
with edge binding and hot-galvanized
Nominal mesh width 3032
(Mesh pitch = 34 x 33 mm)

Grate outside dimensions, in mm	Bearing bar dimension, in mm
<u>500</u> x 1000	30 x 2
<u>600</u> x 1000	and
<u>700</u> x 1000	30 x 3
<u>800</u> x 1000	
<u>900</u> x 1000	
* <u>1000</u> x 950	
*(<u>1000</u> x 1000)	
<u>1200</u> x 1000	
<u>1500</u> x 1000	30 x 3
Nominal mesh widths 3010 (Mesh pitch = 34 x 11 mm)	
<u>600</u> x 1000	30 x 2
<u>800</u> x 1000	
* <u>1000</u> x 950	
*(<u>1000</u> x 1000)	

* Citation from the Code of Practice for Metal Grating BGI 588, Para 3.1.1., issued by the (German) Employers' Liability Insurance Association:

"Square single grates shall be avoided, in order to make sure that the correct bearing bar direction is maintained during installation. Deviations shall be permissible provided that the square single grates are supported on all sides or improper installation is made impossible by technical measures."

Grating Mats

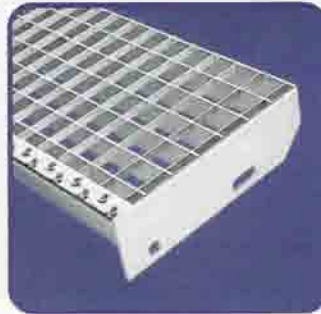
Pressure welded grating mats
Rough iron and without edge binding
Nominal mesh width 3032
(Mesh pitch = 34 x 38 mm)

Mat outside dimensions, in mm	Bearing bar dimension, in mm
<u>6100</u> x 1000	25 x 2 30 x 2 30 x 3 30 x 3 Serrated SP-S1 40 x 2 40 x 3
Hot-galvanized and without edge binding	
<u>3000</u> x 1000 <u>6100</u> x 1000	30 x 2 30 x 3 30 x 3 Serrated SP-S1
Pressed grating mats Rough iron and without edge binding Nominal mesh widths 3030/3010 (Mesh pitch = 34 x 33/34 x 11 mm) 34 x 33 also in Serrated PR S2	
<u>3000</u> x 1200	30 x 2 30 x 3
<i>Grating Mats for further processing can be supplied quickly and at a favourable price.</i>	

STACO® Storage Treads



Storage Tread (type SP 3032)



Storage Tread (type PR 3030)



Storage Tread (type PR 3010),
available in 270 mm width

Safety front edge

For safety reasons, the stair treads will be provided with a perforated safety front edge developed by STACO®. This development has been taken over by many manufacturers and has been approved in practice. It prevents persons from skidding on the tread front edge and ensures a safe hold also in case of icing, contamination, slippery oil films or similar conditions.

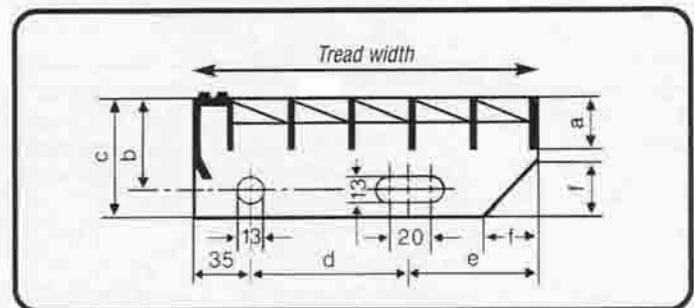
Treads: SP and PR

Bores acc. to DIN 24 531 – Hot-galvanized acc. to DIN EN ISO 1461 (DIN 50 976)

L ₋₃ ⁺⁰	B ₋₅ ⁺⁵	Bearing bar height	a	b	c	d	e	f	Permissible single load N ^{II}	Weight approx. kg
600 30 x 2	240	30	55	70	120	85	30	1500	3.7	
	270	30	55	70	150	85	30	1500	4.3	
	305	30	55	70	180	90	30	1500	4.5	
600 30 x 3	240	30	55	70	120	85	30	1500	6.0	
	270	30	55	70	150	85	30	1500	7.5	
	305	30	55	70	180	90	30	1500	10.0	
800 30 x 2	240	30	55	70	120	85	30	1200	4.7	
	270	30	55	70	150	85	30	1200	5.2	
	305	30	55	70	180	90	30	1200	6.0	
800 30 x 3	240	30	55	70	120	85	30	1500	8.0	
	270	30	55	70	150	85	30	1500	9.0	
	305	30	55	70	180	90	30	1500	11.5	
1000 30 x 2	240	30	55	70	120	85	30	960	5.5	
	270	30	55	70	150	85	30	960	6.7	
	305	30	55	70	180	90	30	960	7.0	
1000 30 x 3	240	30	55	70	120	85	30	1500	9.5	
	270	30	55	70	150	85	30	1500	10.5	
	305	30	55	70	180	90	30	1500	13.0	
1200 40 x 3	240	40	55	70	120	85	30	1500	13.0	
	270	40	55	70	150	85	30	1500	15.5	
	305	40	55	70	180	90	30	1500	18.0	

Nominal mesh width SP 3032 – Nominal mesh width PR 3030 and 3010.

Lengths of 800 mm and 1000 mm are to be preferred.



Treads may also be tailor-made according to customers' specific requirements. For cost reasons, however, it is recommended to consider the DIN standard dimensions as shown in the table.

Storage Treads SP and PR with a bearing bar thickness of 3 mm are in compliance with DIN 24 531.

Elongated hole adjustment

In order to facilitate assembly and installation, the side plates of STACO® Treads are provided with round and elongated holes.

Serrated Stair Treads

STACO® Stair Treads are available in all Serrated designs.

In this connection, please also refer to the corresponding manufacturing programs for SP Grating (pages 8/9) and PR Grating (pages 18/19).

Note on safety

STACO® Stair Treads will be secured to the strings by fillet welds on all bearing bars. This is what makes the difference with our product!



STACO® Fastening Material for Grating

Fastening for delivery ex stock

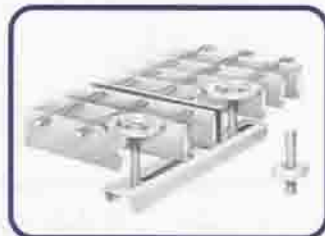
STACO® offers a line of fastenings for every type of grating and all supporting structures. The fastenings are made of steel according to DIN 17 100 and hot-galvanized according to DIN EN ISO 1461 or stainless steel 1.4301 and/or 1.4571. (Exception: Hook bolts will be electro-galvanized according to DIN 50 961.)

Article No.: 1 Standard Clamps



This fastening set permits easy assembly through the grate from above.

Article No.: 3 Double Clamps



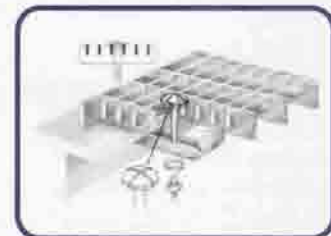
Double clamps are primarily used for the connection of grates. They prevent displacement of the grates in longitudinal and transverse direction and avoid tripping edges.

Article No.: 5 Welding Bolt Fastenings



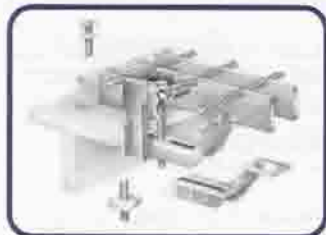
As a rule, fastenings of this type consist of an electro-galvanized threaded bolt to be welded to the supporting structure by means of a bolt welder (according to DIN 32 500) specifically developed for this purpose. Further fastening elements are hexagon nuts and washers and/or clasps.

Article No.: 7 Clamps for Narrow Mesh Widths



This clamping set is suitable for fastening grates with narrow mesh widths such as 30 x 10 mm, for instance.

Article No.: 2 Safety Clamps



The safety clamps are provided with a special clasp of which the retaining straps are additionally attached to the transverse bars and secured in position thereon. The bottom part of safety clamps can be supplied with finger hole, at option. This design is provided with a locking device additionally securing the clamp against slipping in bearing bar direction.

Article No.: 4 Hook Bolts (Short)



Hook bolts with short hook serve for fastening of grates in case of angular profiles and/or vertical supports without bottom flange. (Please indicate the profile dimension at the time of order.) Electro-galvanized according to DIN 50 961.

Article No.: 6 Setting Bolt Fastenings



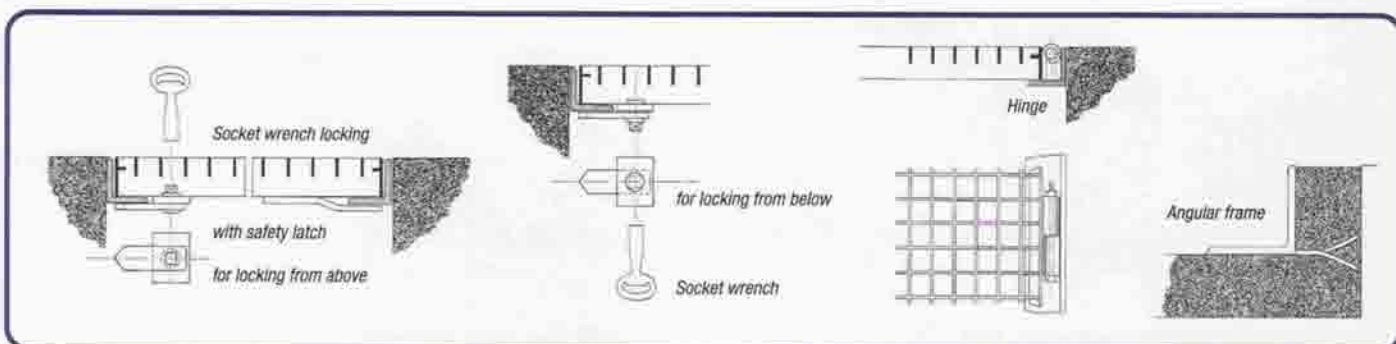
A threaded bolt is forced into the supporting structure by means of a bolt driving tool resulting in some sort of cold welding. With an upper part specifically developed for this type of bolts and called holding flange the grate will be secured on the supporting structure. Please contact us for ammunition, equipment etc.

Article No.: 8 Hook bolt (long)



Upon request, hook bolts with long hook are supplied as a special design for vertical supports with bottom flange such as channel sections. (Please indicate profile dimensions at the time of ordering.) Electro-galvanized according to DIN 50 961.

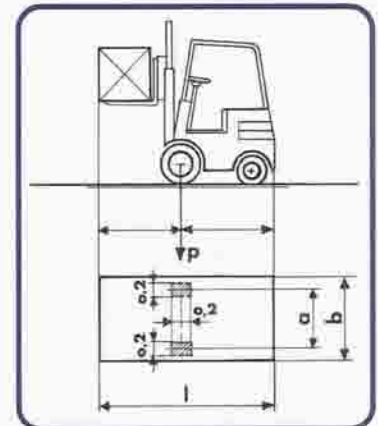
Fastening Accessories



Estimated Loads for Heavy-Duty Grating

Extracts from DIN 1055/1072

Standard Forklift Trucks (DIN 1055)						
Permissible gross vehicle weight	Nominal capacity	Static axle load (standard load)	Mean tread	Overall width	Overall length	Uniformly distributed live load (standard load)
daN	daN	P daN	a m	b m	l m	daN
2500	600	2000	0.8	1.0	2.4	1000
3500	1000	3000	0.8	1.0	2.8	1250
7000	2500	6500	1.0	1.2	3.4	1500
13000	5000	12000	1.2	1.5	3.6	2500



Estimated Loads for Heavy-Duty Grating

	Passenger cars Bridge Class -	Vans Bridge Class 3/3		Trucks Bridge Class 6/6	Trucks Bridge Class 9/9	Bridge Classes acc. to DIN		
		12/12	30/30			60/30		
Wheel pressure	4500N	10000N	20000N	30000N	40000N	50000N	100000N	
Bearing bar spacing (nominal dimension)	30 20	30 20	30	30	30	30	30	
Span in mm	Bearing bars	Bearing bars	Bearing bars	Bearing bars	Bearing bars	Bearing bars	Bearing bars	Bearing bars
300	30 x 2 30 x 2 30 x 3	35 x 2 30 x 3 30 x 3	40 x 3	40 x 4	40 x 5	40 x 4	40 x 4	
400	30 x 3 30 x 2	35 x 3 40 x 2	40 x 5	50 x 4	50 x 5	50 x 5 60 x 4	50 x 5	
500	30 x 3 35 x 2	40 x 3 35 x 3	50 x 4	60 x 4	60 x 5	60 x 5	70 x 5	
600	40 x 2 35 x 2 30 x 3	50 x 3 40 x 3 40 x 4	50 x 5	60 x 5 70 x 4	70 x 5	70 x 5 80 x 4	90 x 5	
700	40 x 2 40 x 2 35 x 3 35 x 3	50 x 3 40 x 4	60 x 4	70 x 5 80 x 4	80 x 4	80 x 5 90 x 4	100 x 5	
800	35 x 3 40 x 2	50 x 4 50 x 3	60 x 5	70 x 5	80 x 5	90 x 5	110 x 5	
900	40 x 3 35 x 3	60 x 3 50 x 3 50 x 4	70 x 4	80 x 5	90 x 5	100 x 5	120 x 5	
1000	40 x 3 35 x 3	60 x 3 50 x 4 50 x 5	70 x 5	80 x 5	90 x 5	100 x 5	-	
1100	45 x 3 40 x 3	50 x 5 50 x 4	70 x 5	90 x 5 100 x 4	100 x 5	110 x 5	-	
1200	45 x 3 40 x 3 40 x 4	60 x 4 60 x 3	80 x 4	100 x 4 90 x 5	100 x 5	110 x 5	-	
1300	50 x 3 40 x 4 45 x 3	60 x 4 50 x 5	80 x 5	100 x 5	110 x 5	120 x 5	-	
1400	50 x 3 40 x 5	60 x 5 60 x 4 50 x 5	80 x 5	100 x 5	110 x 5	120 x 5	-	
1500	50 x 3 45 x 3 40 x 5	60 x 5 60 x 4	90 x 4	100 x 5	120 x 5	-	-	

- Passenger cars = Contact area/zone 200 x 200 mm
- Bridge class 3/3 = Contact area/zone 200 x 200 mm
- Bridge class 6/6 = Contact area/zone 200 x 200 mm
- Bridge class 9/9 = Contact area/zone 200 x 260 mm
- Bridge class 12/12 = Contact area/zone 200 x 300 mm
- Bridge class 30/30 = Contact area/zone 200 x 400 mm
- Bridge class 60/30 = Contact area/zone 200 x 600 mm

Oscillating Lever Value (DIN 1072)

Should the road surface contain sections (e.g. road crossings, gratings etc.) affecting local braking loads, in particular, the wheel loads of standard vehicle applied to individual components shall be multiplied by a factor of 1.3 as brake loads.

STACO® Serrated Grating: Nonskidding everywhere

When oil, moisture, icing or similar conditions render walking on platforms or catwalks difficult, STACO® Serrated Grates offer better nonskidding properties (see also evaluation table on page 31).

STACO® Serrated Trapezoid

With the Serrated Trapezoid Grates (type S3) we are introducing a new generation of non-slip pressure welded grating. A manufacturing process developed by ourselves permits the transverse bars to be welded in position clearly below bearing bar level. As compared with other pressure welded grates, your feet will be in optimal contact with the non-skidding surface in case of the STACO® Serrated Trapezoid Grating (see illustration on the right).

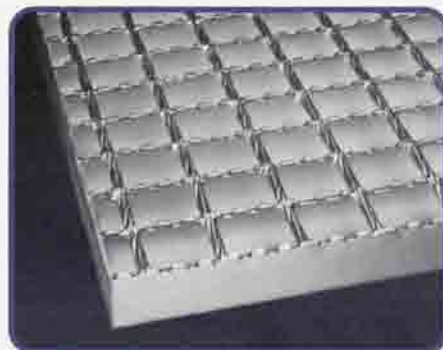
STACO® Serrated Trapezoid Grates are extremely safe, since sharp notches and recesses have been avoided. The blunt recesses guarantee both good nonskidding properties and a high passive safety to prevent injuries in case of falling. A safety plus that will convince you in practice immediately.

SP Serrated Grates and Treads

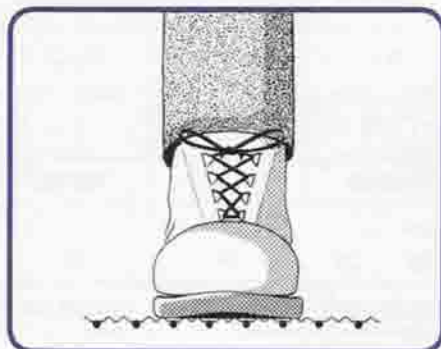
Type SP/S1: Serrated standard



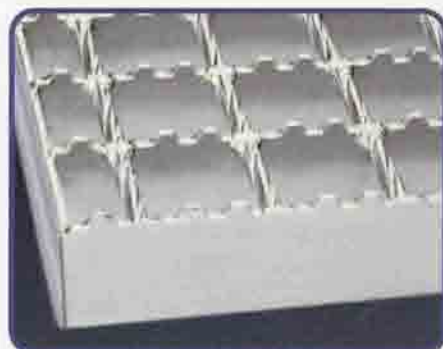
Type SP/S2: Serrated interrupted



STACO® Serrated Trapezoid



Type SP/S3: Serrated Trapezoid



**STACO® SP and PR Serrated Grates and Treads
also available in stainless steel**

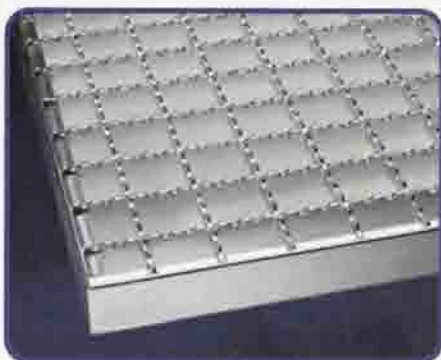
(see pages 22/23)

PR Serrated Grates and Treads

Type PR/S1: Bearing bar serrated



Type PR/S2: Bearing and transverse bars serrated



Type PR/S3: Transverse bars serrated



Notches and recesses as well as specifications other than shown herein, upon request.

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and anytime

Antiskidding Evaluation Table (according to Code of Practice ZH 1/571 issued by the [German] Employers' Liability Insurance Association)

Pressure Welded Grating: Testing performed on Type SP/AA 3032* - 30/3 – Hot-galvanized according to DIN			
Type of antiskidding	Testing number	Evaluation group 1) for antiskidding	Evaluation group 2) for displacement volume
SP (Transverse bar: twisted round steel)	92211	R 10	V 10
SP/S1 (Bearing bar with standard serration)	91208	R 11	V 10
SP/S2 (Bearing bar with intermittent serration)	91210	R 11	V 10
SP/S3 (Bearing bar Serrated Trapezoid)	91209	R 11	V 10
Pressed Grating: Testing performed on Type PR 3030* - 30/3 – Hot-galvanized according to DIN			
Type of antiskidding	Testing number	Evaluation group 1) for antiskidding	Evaluation group 2) for displacement volume
PR (Not serrated)	92213	R 10	V 10
PR/S1 (Bearing bar serrated)	92212	R 11	V 10
PR/S2 (Bearing and transverse bars serrated)	92214	R 12	V 10
PR/S3 (Transverse bar serrated)	92215	R 11	V 10

* Nominal mesh

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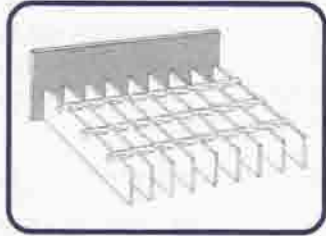
STACO® is BIA authorized to use the BG mark for the above products.



STACO® Special Designs

Upend Binding/Toe Plate

Safety binding welded to the bearing bar ends and projecting beyond the grating. Prevents objects from falling down or skidding.



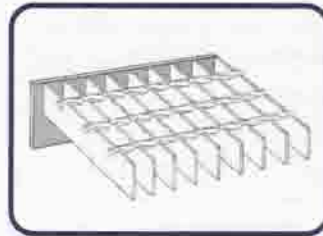
Tread Upend Binding

A flat iron will be welded to the rear edge of tread in full length, in order to prevent objects from falling down or skidding between treads.



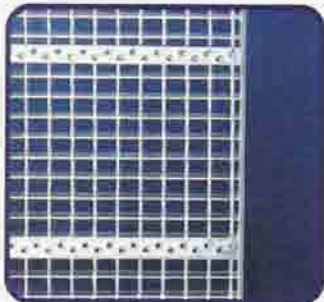
Deep Binding

In cases, for instance, requiring level differences to be compensated. Or when substances, liquids etc. should be allowed to drain to underneath the grates.



Tread Strips

Tread strips such as square strips, perforated strips, fluted strips etc. may be welded to the grates transverse to the walking direction as an additional protection against skidding on inclined surfaces.



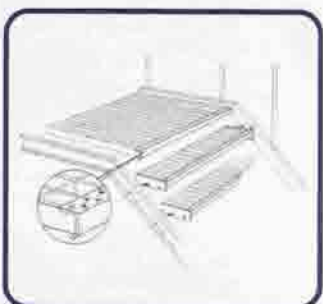
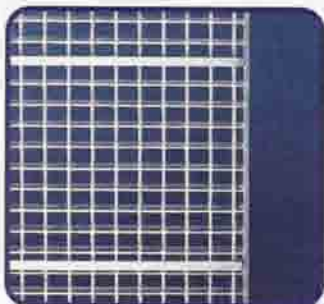
End Plates

In case of platforms connecting to a stairway an end plate is recommendable for safety reasons. Stair treads are generally provided with an end plate offering an extremely good protection against skidding.



Tailor-made solutions

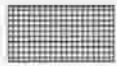
We are offering individual solutions to comply with specific requirements such as in case of design modifications.



Cut-Outs

Our modern computer-controlled torch cutting equipment permits us to manufacture grating with any desired cut-outs and sections.

Calculation of cut-outs according to AGI/H10:



Effective area installed



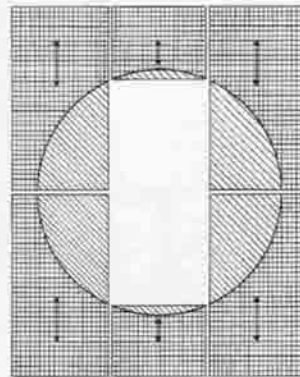
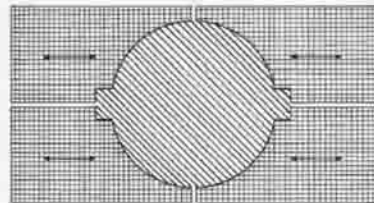
Area also to be calculated



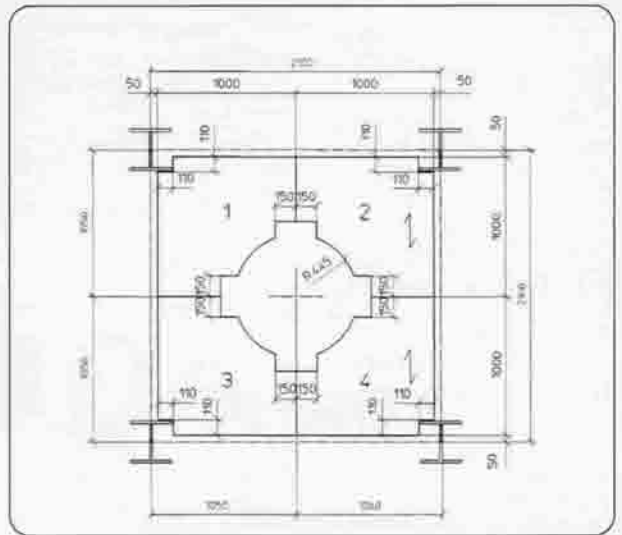
Area not to be calculated



Bearing bar direction



We prepare your installation drawings using CAD.



Our design computers (CAD) are directly connected (ONLINE) to the torch-cutting equipment within the scope of computer-aided manufacturing (CAM) and guarantee absolutely accurate cutting.

