

GEWI® Plus – bars

GEWI® Plus – system

diameters & weight

nom Ø [mm]	article-no.	max Ø [mm]	pitch [mm]	cross section [mm ²]	nom weight [kg/m]
18	18 TR ¹⁾	21	8	254	2.00
22	22 TR ¹⁾	25	8	380	2.98
25	25 TR ¹⁾	28	10	491	3.85
28	28 TR ¹⁾	32	11	616	4.83
30	30 TR ¹⁾	34	11	707	5.55
35	35 TR ¹⁾	40	14	962	7.55
43	43 TR ¹⁾	48	17	1452	11.40
57.5	57 TR ¹⁾	63	20	2597	20.38
63.5	63 TR ¹⁾	69	21	3167	24.86
75	75 TR ¹⁾	82	24	4418	34.68

¹⁾ 0000 for stock lengths in to

¹⁾ 0002 for fix lengths in to

¹⁾ 0100 for fix lengths in m

strengths & loads

nom Ø [mm]	yield strength f_{yk} ($f_{0.2k}$) [N/mm ²]	ultimate strength f_{tk} [N/mm ²]	yield load F_{yk} ($F_{0.2k}$) [kN]	ultimate load F_{tk} [kN]
18	670	800	170	204
22			255	304
25			329	393
28			413	493
30			474	565
35			645	770
43			973	1162
57.5			1740	2077
63.5			2122	2534
75			2960	3534

elongation, fatigue strength & Young's modulus

nom Ø [mm]	elongation at max. load A_{gt} [%]	elongation at rupture A_{10} ²⁾ [%]	fatigue resistance $2 \sigma_A$ [N/mm ²]	Young's modulus [N/mm ²]
18	≥ 5.0	≥ 10.0	150	205 000
22				
25				
28				
30				
35				
43			120	
57.5				
63.5			no data	
75				

²⁾ gauge length = 10 · nom Ø

Please note:

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