

GEWI® – bars

GEWI® – system

diameters & weight

nom Ø [mm]	article-no.	max Ø [mm]	pitch [mm]	cross section [mm ²]	weight [kg/m]
12	12 T ¹⁾	14.5	7	113	0.89
16	16 T ¹⁾	18	8	201	1.58
20	20 T ¹⁾	23	10	314	2.47
25	25 T ¹⁾	28	12.5	491	3.85
28	28 T ¹⁾	32	14	616	4.83
32	32 T ¹⁾	36	16	804	6.31
40	40 T ¹⁾	45	20	1257	9.86
50	50 T ¹⁾	56	26	1963	15.41
63.5	63 T ¹⁾	69	21	3167	24.86

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]
12	500	550	57	62
16			101	111
20			157	173
25			245	270
28			308	339
32			402	442
40			628	691
50			982	1080
63.5	555	700	1758	2217

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]
12	≥ 6.0	≥ 10.0	215	205 000
16				
20				
25				
28			170	
32			160	
40			150	
50			120	
63.5	≥ 5.0			

²⁾ gauge length = 10 · nom Ø

