

WR – bars

November 2011

WR – system

diameters & weight

nom Ø [mm]	article-no.	max Ø [mm]	pitch [mm]	cross section [mm ²]	weight [kg/m]
26.5	26 WR ... ¹⁾	31	13	552	4.48
32	32 WR ... ¹⁾	37	16	804	6.53
36	36 WR ... ¹⁾	42	18	1018	8.27
40	40 WR ... ¹⁾	46	20	1257	10.21
47	47 WR ... ¹⁾	53	21	1735	14.10

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} ($f_{p0.1k}$) [N/mm ²]	ultimate strength f_{pk} [N/mm ²]	yield load F_{yk} ($F_{p0.1k}$) [kN]	ultimate load F_{pk} [kN]
26.5	950	1050	525	580
32			760	845
36			960	1070
40			1190	1320
47			1650	1820

acc. to EN 10138-4

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]
26.5	≥ 5	≥ 7	180	205 000
32				
36				
40				
47			120	

²⁾ gauge length = 10 · nom Ø

