

TP THREADED ROD

■ Features and Benefits

- According to DIN 975
- Material: steel
- Zinc-plated
- Tested for fire safety



■ Characteristics

Anchor type			M8						M10						M12						M14					
			GVZ				A4	C	GVZ				A4	C	GVZ				A4	C	GVZ				A4	C
			4.8	5.8	8.8	10.9			4.8	5.8	8.8	10.9			4.8	5.8	8.8	10.9			4.8	5.8	8.8	10.9		
Stressed cross sectional area anchor rod	A_s	[mm ²]	36.6						58.0						84.3						115.0					
Section modulus	W	[mm ³]	31.2						62.3						109.2						173.9					
Design value of bending moment	$M_{Rd,S}^0$	[Nm]		15.2	24.0	28.1	16.7	20.8		29.6	48.0	56.1	33.3	41.6		52.0	84.0	98.0	59.0	73.6		83.2	133.6	156.7	93.6	116.8
Yield strength anchor rod	f_{yk}	[N/mm ²]	320	400	640	900	450	560	320	400	640	900	450	560	320	400	640	900	450	560	320	400	640	900	450	560
Tensile strength anchor rod	f_{uk}	[N/mm ²]	400	500	800	1000	700	700	400	500	800	1000	700	700	400	500	800	1000	700	700	400	500	800	1000	700	700

■ Characteristics

Anchor type			M16						M20					
			GVZ				A4	C	GVZ				A4	C
			4.8	5.8	8.8	10.9			4.8	5.8	8.8	10.9		
Stressed cross sectional area anchor rod	A_s	[mm ²]	157.0						245.0					
Section modulus	W	[mm ³]	277.5						540.9					
Design value of bending moment	$M_{Rd,S}^0$	[Nm]		132.8	212.8	249.3	148.7	185.6		259.2	415.2	486.7	291.0	363.2
Yield strength anchor rod	f_{yk}	[N/mm ²]	320	400	640	900	450	560	320	400	640	900	450	560
Tensile strength anchor rod	f_{uk}	[N/mm ²]	400	500	800	1000	700	700	400	500	800	1000	700	700

Anchor type			M22						M24					
			GVZ				A4	C	GVZ				A4	C
			4.8	5.8	8.8	10.9			4.8	5.8	8.8	10.9		
Stressed cross sectional area anchor rod	A_s	[mm ²]	303						353.0					
Section modulus	W	[mm ³]	743.9						935.5					
Design value of bending moment	$M_{Rd,S}^0$	[Nm]		357.6	572.8	669.3	401.3	500.8		448.0	716.8	841.3	502.6	627.2
Yield strength anchor rod	f_{yk}	[N/mm ²]	320	400	640	900	450	560	320	400	640	900	450	560
Tensile strength anchor rod	f_{uk}	[N/mm ²]	400	500	800	1000	700	700	400	500	800	1000	700	700

■ Characteristics

Anchor type			M27						M30						M36	M39	M42
			GVZ				A4	C	GVZ				A4	C	GVZ	GVZ	GVZ
			4.8	5.8	8.8	10.9			4.8	5.8	8.8	10.9			5.8	5.8	5.8
Stressed cross sectional area anchor rod	A_s	[mm ²]	459.0						561.0						817.0	976.0	1121
Section modulus	W	[mm ³]	1387						1874						3294	4301	5294
Design value of bending moment	$M_{Rd,S}^0$	[Nm]		666.4	1066	1248	748.1	933.6		898.4	1438	1687	1008	1258	1581	2069	2551
Yield strength anchor rod	f_{yk}	[N/mm ²]	320	400	640	900	450	560	320	400	640	900	450	560	400	400	400
Tensile strength anchor rod	f_{uk}	[N/mm ²]	400	500	800	1000	700	700	400	500	800	1000	700	700	500	500	500