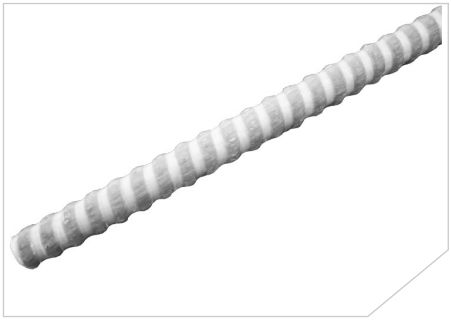
HAUCON

TECHNICAL DATA SHEET - FIBERGLASS TIE ROD

DESCRIPTION



The fiberglass tie rod has been specially developed for use in formwork. The corrosion resistance and high strength of the rod provide many advantages in all types of formwork.

The fiberglass tie rod is compatible with regular tie rods (Dywidag rods) and can be used with all the related standard accessories.

Special embedment parts such as cones, spacers and waterstops are not necessary. The tie rod is made of fiberglass, which cannot corrode. This ensures no rust extraction on concrete surfaces.

The fiberglass tie rod is ”concrete-coloured” in light to medium grey.

ADVANTAGES

- Supplied in lengths of 5,8 m
- Very low weight, making it easy to handle on the construction site
- Can be easily cut with a hacksaw or grinder (Remember to use gloves and eye protection, as the glass fibres can be irritating for both skin and eyes - Do not inhale the dust)
- Continuously threaded surface
- Compatibility with accessories for standard tie rods
- Very good bonding with concrete
- After casting, the rod is cut at the concrete surface. Because of the colour, the rod blends in with the surface of the concrete
- No post-work, - repair of cone holes, etc.

TECHNICAL INFORMATION

Max. load (design):
D15 ≤ 40 kN tension
D20 ≤ 90 kN tension

Both the 15- and 20 mm rod fits standard combi plates and nuts.

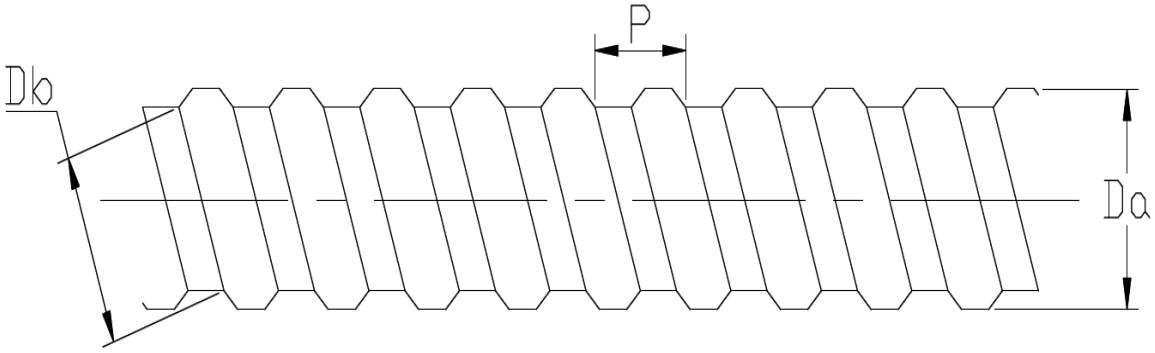
There is a risk at warping at high loads.

Tested to 30 mWc according to Vattenfall Research and Development AB.

For further information, please do not hesitate to contact our internal sales department on tel. +45 86 22 93 93.

TECHNICAL DATA

MATERIAL	DESCRIPTION
Fibre	Glass fibre
Matrix resin	Vinyl ester, Grey
Surface structure	Continious thread



GEOMETRY	SYMBOL	UNIT	D15	D20
Outer diameter	D_a	mm	17 ±0,5	22,3 ±0,5
Core diameter	D_b	mm	14,6 ±0,5	19,6 ±0,5
Pitch	P	mm	10 ±0,2	10 ±0,2
Core area	A_e	mm^2	130	250

PROPERTIES	SYMBOL	UNIT	D15	D20
Breaking load	$F_{r,u}$	kN	130	250
Tensile strength	f_t	MPa	1.000	1.000
Tensile E-modulus	E	GPa	45	45
Strain at failure (average)	ε_u	%	2,1	2,1
Bending strength	σ_f	MPa	400	400
Shear resistance 90°	τ	MPa	460	460
Torsional resistance	T	Nm	40	90
Fibre content (weight)	ρ_{rf}	%	75	75
Weight	g	g/m	380 ±20	685 ±0,2