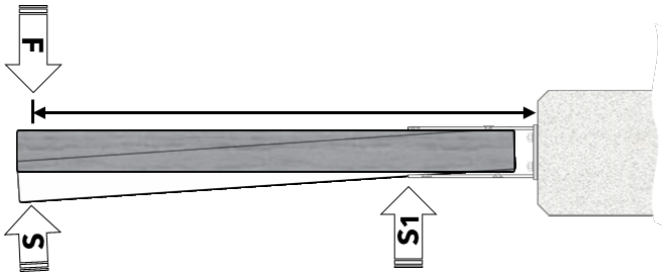
PRODUCT DATASHEET
TERA® FENCE POST BRACKET

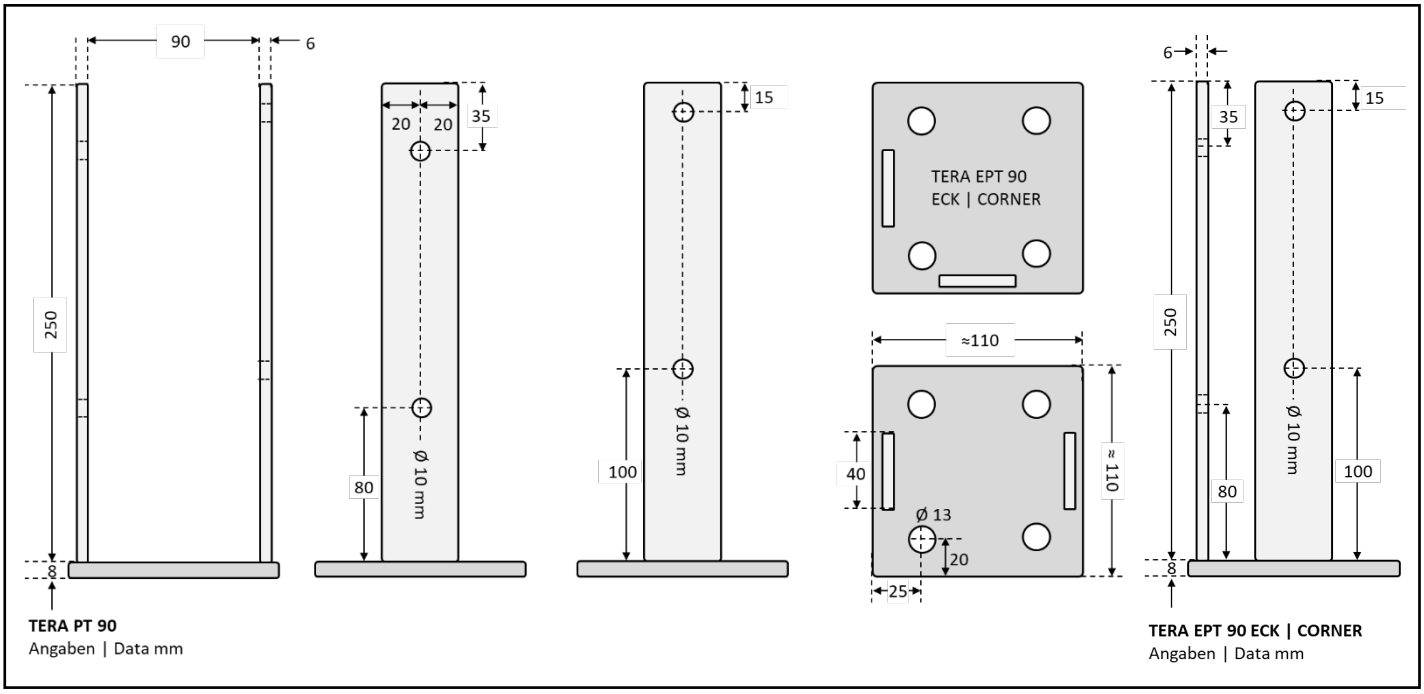
26.11.2024 This copy is not subject to the print or paper form

FIXINGGROUP GmbH
www.fixinggroup.com
office@fixinggroup.com

1. Unique identification code of the product type	TERA PT 90 FENCE POST BRACKET
2. Label for identification of the product	Type description: See product packaging
3. Intended purpose of use	Fastening for fence posts
4. Manufacturer	FIXINGGROUP GmbH
5. Test method for evaluating and monitoring performance	EN 26891:1991 Timber structures Connections with mechanical fasteners Determination of load bearing capacity and deformation behaviour EN 408:2012 Timber structures - Structural timber for load bearing purposes with determination of physical and mechanical properties
6. Harmonized standard - CE declaration	Not subject to declaration of conformity
7. Declared performance	According to the following tables and charts

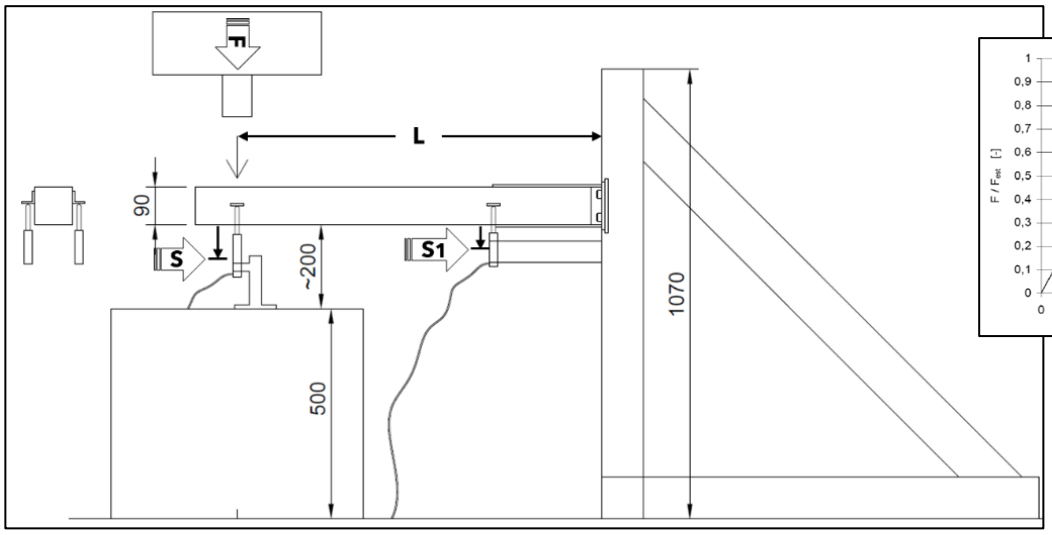
General information	
1.1. Material	Steel material S235
1.2 Coating	- Hot-Dip Galvanized Hot dip galvanized on all sides after processing, with a zinc layer thickness of approximately 55 µm.
1.3 Dimensions	According to the following diagrams: A slight distortion of the post mounting brackets cannot be prevented during hot-dip galvanizing at 450°C due to the release of residual stresses.
1.4 Tests All specifications are effective test loads according to the schematic test setup: F: Moment load at 1.000 mm S: Displacement below the force application point and at the end of the mounting bracket Connection timber: larch 90 x 90 mm secured with 4 wood construction screws, 10 x 80 mm.	

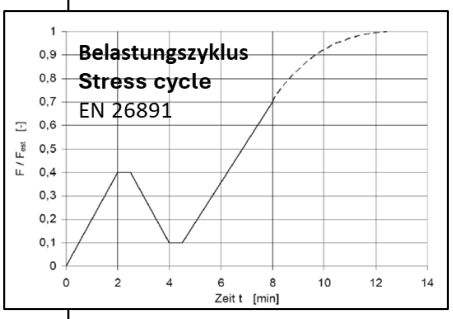
FIXINGGROUP GmbH
www.fixinggroup.com
office@fixinggroup.com



TERA PT 90
Angaben | Data mm

TERA EPT 90 ECK | CORNER
Angaben | Data mm





TERA PT 90 **Loading test**		**L** 1.000 mm Cantilever length				
F Force [kN] | **S** Def. [mm]		**F**max	**S** mm | F 0,8 kN	**S1** mm | F 0,8 kN	**S** mm | F 1,4 kN	**S1** mm | F 1,4 kN
Larch fence post 90 x 90 mm	TEST 1	2,32	18,73	3,80	39,49	8,14
	TEST 2	1,59	19,48	4,04	43,81	9,12
	TEST 3	1,68	22,41	4,55	47,11	9,72
	TEST 4	1,46	24,23	4,92	58,25	12,01
	TEST 5	1,74	31,13	6,43	65,32	13,84
	Mean Value	**1,76**	**23,20**	**4,75**	**50,80**	**10,57**
	Minimum	1,46	18,73	3,80	39,49	8,14
	Maximum	2,32	31,13	6,43	65,32	13,84

Failure Cause:
Plastic deformation of the mounting brackets accompanied by splitting of the wood along the screw row.