

I SIMPLEX

REMOVABLE CONCEALED CONNECTOR

SIMPLE

Ideal for longitudinal and transverse connections in timber subject to tension. Suitable for 12, 16 or 20 mm diameter bolts or threaded rods.

TEMPORARY STRUCTURES

Disassembled by simply unscrewing the bolt. Suitable for temporary structures or those that can be disassembled and reassembled.

CANOPIES AND PAVILIONS

For small canopies or pavilions, it can be used to connect beams to columns and provide stability to the structure.



SERVICE CONDITIONS

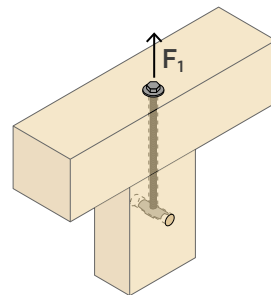
DRY

MATERIAL

Zn
ELECTRO
PLATED

cast iron with zinc plating

EXTERNAL LOADS



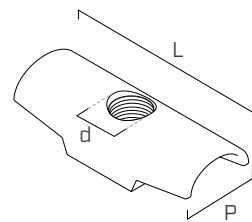
PANEL-PANEL

It can be used in panel-to-panel connections for tension connections and for pulling panels by closing the joint.

CODES AND DIMENSIONS

DIN 1052

CODE	rod	L [in]	P [in]	hole [in]	pcs
SIMPLEX12	M12	2 1/8	7/8	0.95	100
SIMPLEX16	M16	2 13/16	1 1/8	1.26	100
SIMPLEX20	M20	3 5/8	1 1/2	1.57	50



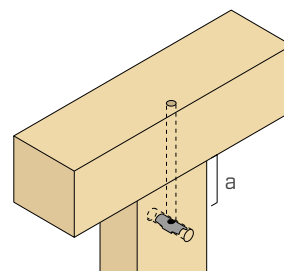
STRUCTURAL VALUES FOR THE SIMPLEX BARREL NUT

WOOD-BEARING CAPACITY

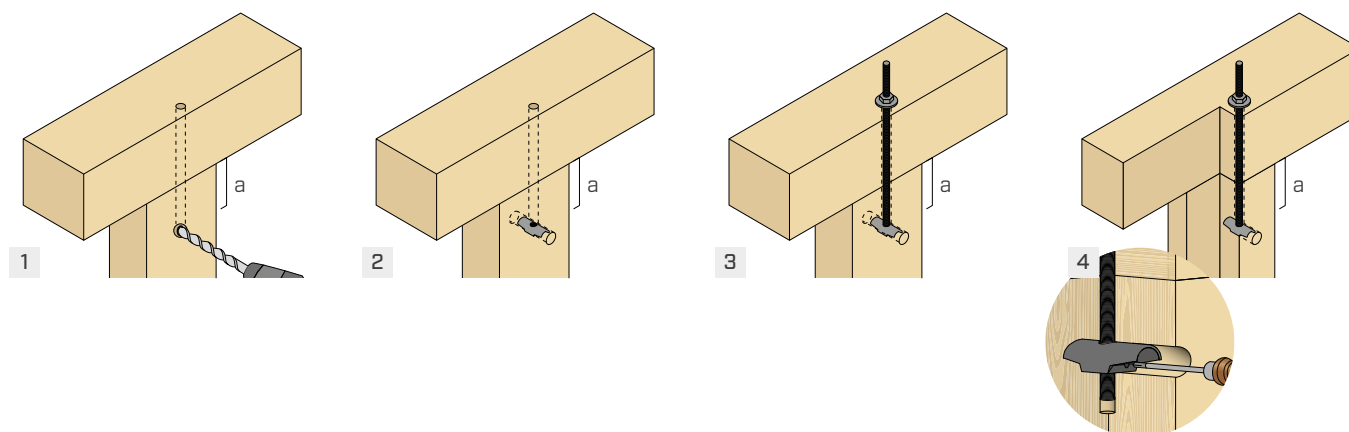
CODE	rod	P [in]	L _{eff} [in]	a ⁽¹⁾ [in]	F _{1,ASD} [lbf]			
					parallel-to-grain SG=0.49 SG=0.55		perpendicular-to-grain SG=0.49 SG=0.55	
SIMPLEX12	M12	7/8	1 1/4	6 1/8	1385	1554	470	556
SIMPLEX16	M16	1 1/8	1 2/3	7 7/8	2367	2667	709	838
SIMPLEX20	M20	1 1/2	2 4/5	10 1/2	4331	4862	1119	1323

L_{eff} = L - d, with d = the diameter of counter sunk hole in SIMPLEX

⁽¹⁾a is the minimum distance from the end of the element.



INSTALLATION



GENERAL PRINCIPLES:

- The allowable wood-bearing capacities shown in this document were calculated using the dowel bearing strength equations provided in ANSI/AWC NDS-2024, National Design Specification® for Wood Construction.