NPB255

Nail plate for CLT



Nail plate NPB255 has been developed to fix to provde support for and CLT panels to CLT Floors, timber supports or concrete supports. Versatlie and simple to install, centre markings are stamped onto the plate to assist accurate positioning over the CLT panels.

Features

Material

- Galvanized steel S250GD + Z275 according to EN 10346
- Thickness 3 mm

Advantages

- Ideal for use in Timber and CLT buildings
- Great versatility: can be utilised for Timber to Timber, Timber to concrete, CLT to CLT or CLT to concrete connections,
- High performance for horizontal (F₂ / F₃) and vertical (F₁) loads directions.

Applications

Applications

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Domaine d'utilisation

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Wood to wood

Wood to concrete

Installation - Timber to Concrete



NPB255

Nail plate for CLT



Technical Data





Product Dimensions

				vvood to	wood	
References	Dimensions [mm]		Dimensions [mm]		Box Quantity	Weight [kg]
Titololioos	Α	В	t	DOX Quantity	woight [kg]	
NPB255	214	255	3	10	1.2	
NPB255S0	294	255	3	10	1.7	

Product Characteristic Capacities - Timber to Timber - Nailing Pattern 1







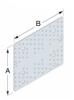
Wood to wood

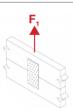
	Product capacities - Timber to timber - Nailing pattern 1							
Deferences	Fasteners		Product characteristic capacities - Timber C24 [kN]					
References	Ton part	Top part Bottom part	R _{1.k}		R _{2.k}			
	TOP Part		CNA4.0x50	CSA5.0x50	CNA4.0x50	CSA5.0x50		
NPB255	11	15	23.9	27.6	20.8	24		
NPB255S0	-	-	-	-	-	-		

• The timber member must be prevented from rotation (by other means)

Product Characteristic Capacities - Timber to Timber - Nailing Pattern 2







Wood to wood

			•					
	Product capacities - Timber to timber - Nailing pattern 2							
Deferences	Fasteners		Product characteristic capacities - Timber C24 [kN]					
References	Top part	Bottom part	R _{1.k}		R _{2.k}			
		Bottom part	CNA4.0x50	CSA5.0x50	CNA4.0x50	CSA5.0x50		
NPB255	13	15	28.3	32.6	19.4	22.3		
NPB255S0	-	-	-	-	-	-		

• The timber member must be prevented from rotation (by other means)

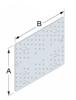
NPB255

Nail plate for CLT



Product Characteristic Capacities -Timber to Timber - Nailing Pattern 3







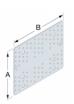
Wood to wood

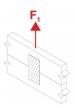
	Product capacities - Timber to timber - Nailing pattern 3				
Deference	Fasteners		Product characteristic capacities - Timber C24 [kN]		
References	Top part Bo	Bottom part	R _{2.k}		
		Dottom part	CSA5.0x50		
NPB255	11	15	20.7		
NPB255S0	-	-	-		

• The timber member must be prevented from rotation (by other means)

Product Characteristic Capacities -Timber to Timber - Nailing Pattern 4







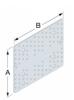
Wood to wood

	Wood to Wood						
	Product capacities - Timber to timber - Nailing pattern 4						
Deferences	Fasteners		Product characteristic capacities - Timber C24 [kN]				
References	Top part Bottom part		R _{2.k}				
	lop part Do	Dottom part	CSA5.0x50				
NPB255	17	24	27.8				
NPB255S0	-	-	-				

• The timber member must be prevented from rotation (by other means)

Product Characteristic Capacities - Timber to Timber - Nailing Pattern 5







Wood to wood

	Product capacities - Timber to timber - Nailing pattern 5					
Deference	Fasteners		Product characteristic capacities - Timber C24 [kN]			
References	Top part Bottom part		R _{2.k}			
	TOP Part	Bottom part	CSA5.0x50			
NPB255	16	23	30.6			
NPB255S0	-	-	-			

• The timber member must be prevented from rotation (by other means)

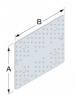
NPB255

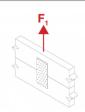
Nail plate for CLT



Product Characteristic Capacities -Timber to Timber - Nailing Pattern 6







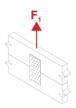
Wood	4-	
vvoou	ω	WOOL

	Product capacities - Timber to timber - Nailing pattern 6				
References	Fasteners		Product characteristic capacities - Timber C24 [kN]		
neielelices	Top part	Bottom part	R _{2.k}		
		Dottom part	CSA5.0x50		
NPB255	30	34	44		
NPB255S0	-	-	-		

• The timber member must be prevented from rotation (by other means)

Product Characteristic Capacities - Timber to Rigid Support - Nailing Pattern 1



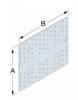


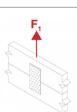
Wood to concrete

		Wood to concrete							
	Product capacities - Timber to Rigid support - Nailing pattern 1								
Deference	Fasteners		Product characteristic capacities - Timber C24 [kN]						
References	Top part	Bottom part	R _{1.k}		R _{2.k}				
		Bottom part	CNA4.0x50	CSA5.0x50	CNA4.0x50	CSA5.0x50			
NPB255	11	2	23.9	27.6	22.8	26.3			
NPB255S0	-	-	-	-	-	-			

- The timber member must be prevented from rotation (by other means)
- The group composed of two anchors shall be checked with shear loads F₁ and F₂, and a
 moment applied at the middle between the two anchor is equal to F₂*120mm (spacing of anchors:160
 mm)

Product Characteristic Capacities - Timber to Rigid Support - Nailing Pattern 2





	Product capacities - Timber to Rigid support - Nailing pattern 2							
References	Fasteners		Product characteristic capacities - Timber C24 [kN]					
neielelices	Top part	Bottom part	R _{1.k}		R _{2.k}			
			CNA4.0x50	CSA5.0x50	CNA4.0x50	CSA5.0x50		
NPB255	-	-	-	-	-	-		
NPB255S0	-	-	-	-	-	-		

- The timber member must be prevented from rotation (by other means)
- The group composed of two anchors shall be checked with shear loads F₁ and F₂, and a
 moment applied at the middle between the two anchor is equal to F₂*120mm (spacing of anchors:160
 mm)

Nail plate for CLT Strong-Tie	Technical data sheet	SIMPSON
		SIMPSON Strong-Tie

NPB255

Nail plate for CLT



Installation

Fasteners

CLT Connection:

- CNA annular ring shank nails dia. 4.0 x 50 mm,
- CSA screws dia. 5.0 x 40 mm.

Concrete Connection:

- Mechanical anchor: M12
- Chemical anchor: AT-HP resin + LMAS M12-150/35 threaded rod.

Applications

Nailing pattern



Wood to wood



Wood to concrete

NPB255 Nail plate for CLT



