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NAIL PLATE STRIPS NAIL PLATES



NAIL PLATES / NAIL PLATE STRIPS

NAIL PLATE STRIPS

GH nail plate strips are simple connecting elements for fixing narrow timber parts or for large surface connection.



Basics of statics **from page 252**
Products **from page 256**

NAIL PLATES

GH nail plates have numerous application options. Mainly used as hub connectors in various forms for connecting timber constructions, such as strut connections, rolled tie strap hubs, truss connectors, etc. GH nail plates are also available in the **GREENline** series.



Basics of statics **from page 252**
Products **from page 258**

NAIL PLATE STRIPS / NAIL PLATES

SORTIMENT

						Length [mm]	Width [mm]	Basics Statics	Products & Statics	
								from page	from page	
NAIL PLATE STRIPS 2.0						1200	40-400	252	256	
NAIL PLATE STRIPS 2.5						1200	40-400	252	257	
NAIL PLATE BOARDS						2500	1200		256	
NAIL PLATES 2.0					 		120-500	40-200	252	258
NAIL PLATES 1.5 GREENLINE						120-500	40-200	252	259	

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CE symbol



Steel with indication of the steel quality and galvanisation



Stainless steel with material number



Timber/timber connection



Timber/concrete-connection



Usage class 1

Moisture content in the building materials that corresponds to a temperature of 20° C and a relative humidity of the ambient air that only exceeds a value of 65% for a few weeks per year, e.g. in the case of buildings that are closed on all sides and heated. Comment: In UC 1, the average moisture content of most softwoods does not exceed 12 %.



Usage class 2

Moisture content in the building materials that corresponds to a temperature of 20° C and a relative humidity of the ambient air that only exceeds a value of 85% for a few weeks per year, e.g. in the case of open buildings covered by a roof. Comment: In UC 2, the average moisture content of most softwoods does not exceed 20 %.



Usage class 3

Includes climatic conditions that lead to higher moisture contents than in UC 2, e.g. structures that are exposed to the weather without protection. Eurocode 5 / DIN EN 1995-1-1 section 2.3.1.3

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APPLICATIONS

Application:

Nail plates and nail plate strips are intended for transfer of tensile forces in connections.

Materials:

250
GD
Z275

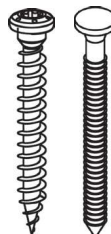
A4
1.4571

Material thicknesses:

1,5 bis 3,0 mm



For use in usage classes

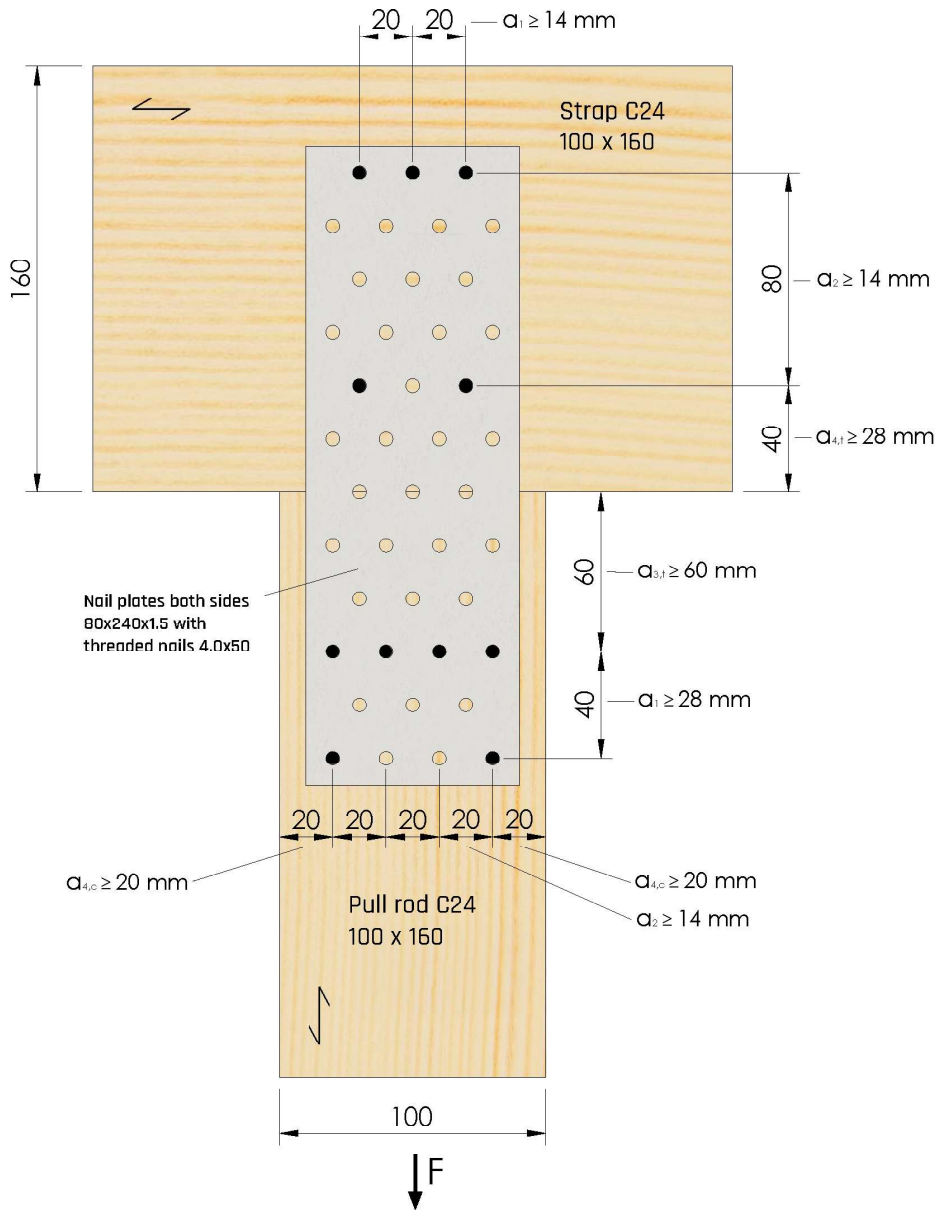


Connecting element:

GH threaded nails 4,0 x 35 / 40 / 50 / 60 / 75 / 100 mm

GH screws 5,0 x 25 / 35 / 40 / 50 / 60 / 70 mm

Connecting elements from page 274



Minimum and edge spacing

The regulations according to EN1995-1-1 apply for edge spacing parallel and vertical to the grain. In accordance with DIN 1052:2008-12 it is recommended that the clear distance between the outer connecting element groups of two joist hangers corresponds to 2 times the main beam height. If this is not achieved, the load capacity should be reduced.

		Force parallel to the grain	Force at a right angle to the grain
a_1	in grain direction	28 mm	14 mm
a_2	Right angle to the grain direction	14 mm	14 mm
$a_{3,t}$	End grain with stress	60 mm	40 mm
$a_{3,c}$	End grain without stress	40 mm	40 mm
$a_{4,t}$	Loaded edge	20 mm	28 mm
$a_{4,c}$	Unloaded edge	20 mm	20 mm

See EN 1995-1-1 Tab.8.2 for other brackets than those specified between force and grain

Minimum spacing according to EN 1995-1-1, for threaded nails $\varnothing$ 4 mm in nail sheets, $\rho_k \leq 420 \text{ kg/m}^3$