

PERFECTLY SIMPLE SIMPLY PERFECT SHERPA TIMBER CONNECTIONS



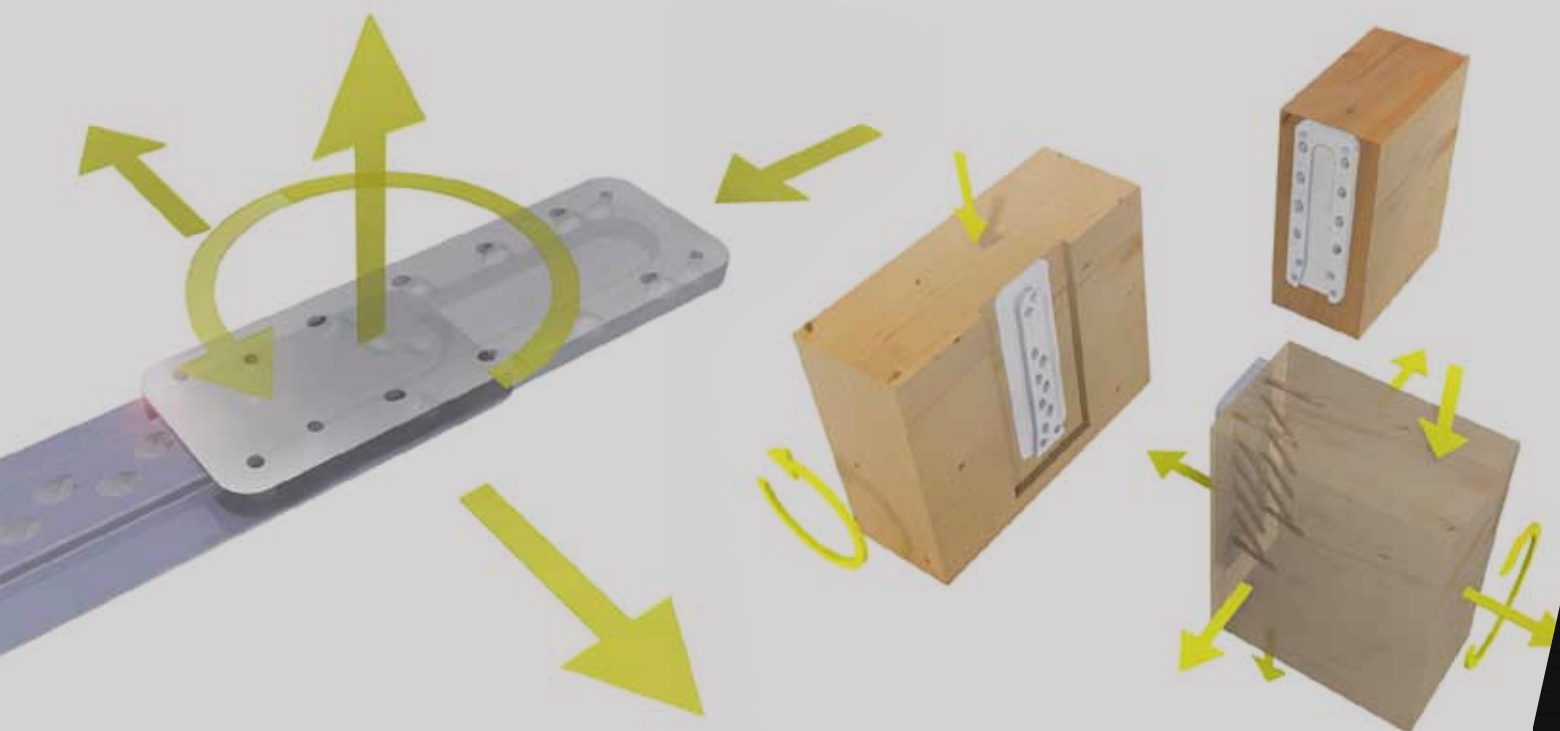
THE LEADING TECHNOLOGY IN STANDARDIZED TIMBER CONNECTION SYSTEMS

MULTI-FUNCTIONAL FOR WALL, FLOOR AND STRUCTURE

Function of SHERPA-series

SHERPA-connectors consist of two aluminum parts, which in principle create a form-fitting connection like a traditional dovetail connection.

Forces can be transferred in installation direction, perpendicular to the installation direction, in tension and compression as well as moments in all three spatial axes.



EXAMPLES, CONNECTIONS
STRUCTURAL SYSTEMS, FIRE-PROTECTION...
starting page 4

SHERPA-CONNECTOR-SYSTEMS
USAGE EXAMPLES AND PRODUCT SELECTION
starting page 15

INNOVATIVE CONNECTOR-SYSTEM

A simple system for virtually limitless usability. Usage in timber constructions, commercial construction, residential and non-residential construction, for bridges, solariums, balconies or staircases, in furniture construction, for fences, carpentry, and many more:

Regardless of what you are designing - using the SHERPA-connector system will lead to a high level of pre-fabrication and reduced assembly times.

The wide variety of available connectors is tailor-made for the task at hand and ensures a durable, long lasting and reliable load transfer.

Timber-Series



Roof- Wall- and timber structures connections, traditional beam to joist connections

XL-Series



For high capacity engineered timber structures

Assembly-Series



For balconies, carports, staircases, podiums, wall connections, solarium

SHERPA-SERVICE, TECHNICAL SUPPORT- HOTLINE
ORDERING...
starting page 30

ASSEMBLY INSTRUCTIONS, CONFIGURATION
PROPER SCREW INSTALLATION, EDGE DISTANCES...
starting page 22

Connections

BEAM - JOIST CONNECTIONS



HEADERS



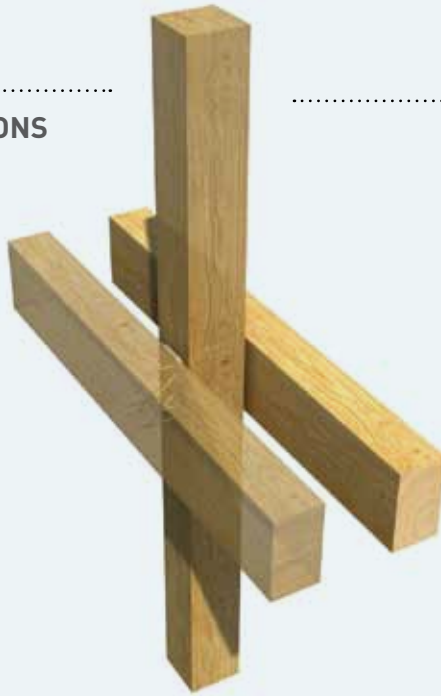
EAVE-PLATE - RAFTER CONNECTIONS



EAVE-PLATE - COLLAR-TIE CONNECTIONS



DOUBLE-JOIST - POST CONNECTIONS



KNEE-BRACE - POST AND DOUBLE-JOIST - BEAM CONNECTION



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INCLINED CONNECTIONS TO COLUMN

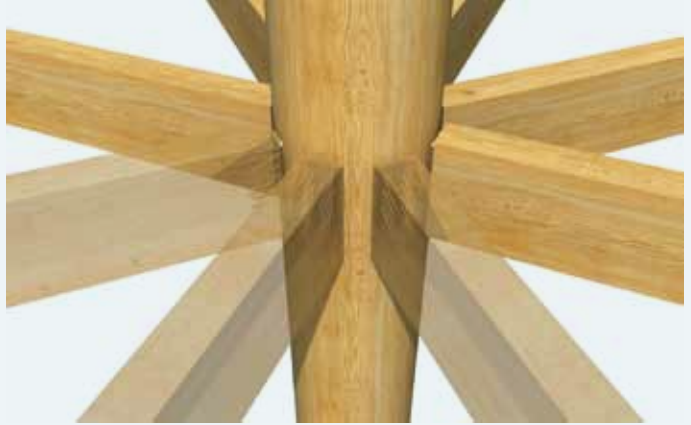


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**INCLINED CONNECTIONS
TO PLATES/BEAMS**



RADIAL JOISTS/BEAMS TO COLUMN CONNECTIONS



FACADE ELEMENTS CONNECTIONS



Structures

STAR-SHAPED STRUCTURES



CIRCULAR STRUCTURES



WIDE-SPAN STRUCTURES

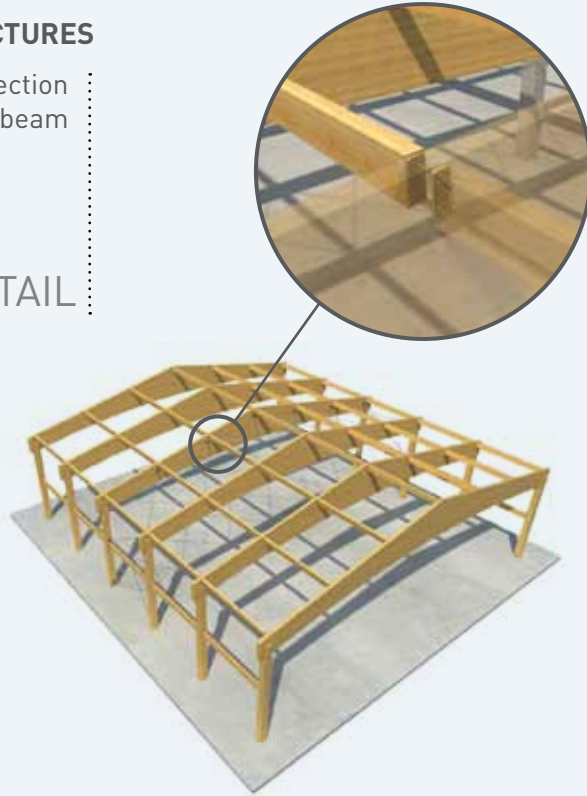


single-bay structure with
glulam roof beam using
SHERPA-connectors
to connect to roof beam
with the sawn-timber
or glulam lateral
bracing members

WIDE-SPAN STRUCTURES

purlin connection
to glulam roof beam

DETAIL

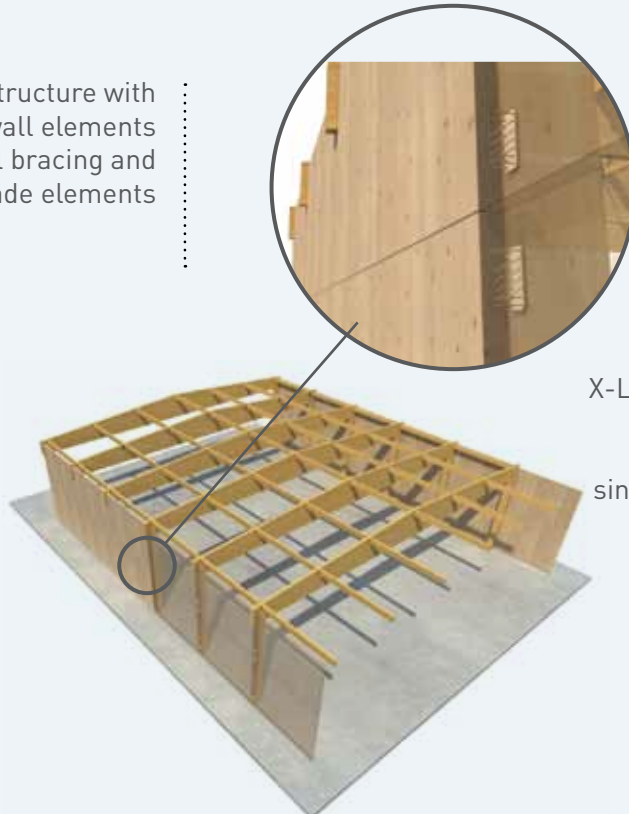


single-bay
structure with
glulam roof beam

WIDE-SPAN STRUCTURES

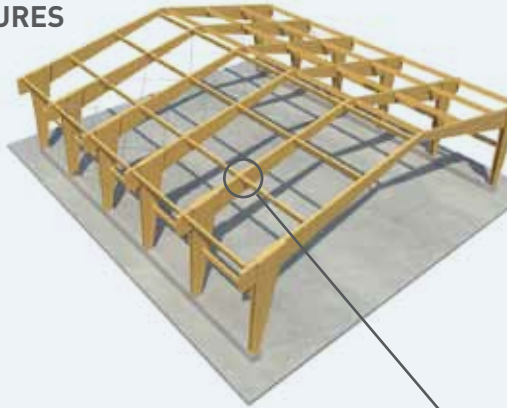
single-bay structure with
X-Lam wall elements
for lateral bracing and
as facade elements

DETAIL



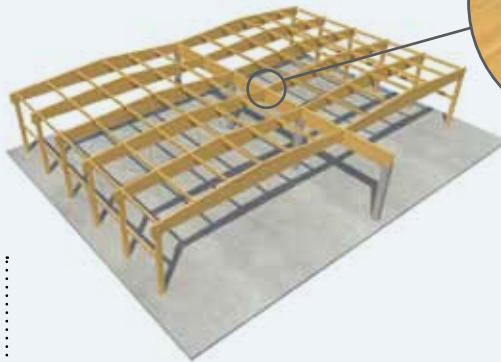
X-Lam wall element
connected to the
columns of a
single bay structure

WIDE-SPAN STRUCTURES

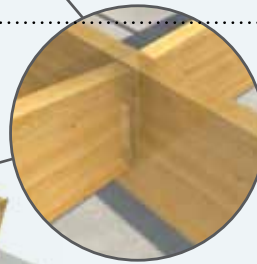


single-bay structure
with glulam roof beams
and moment resisting
corner connection

WIDE-SPAN STRUCTURES



two-bay structure
with glulam roof beams



glulam roof beam
to eave plate
connection

DETAIL

MULTI-STORY RESIDENTIAL AND OFFICE BUILDINGS



multi-storey
residential and
office building in
skeleton construction
with X-Lam wall and
floor elements

**SPECIALTY
CONSTRUCTION**



Stadium-stands roof

PEDESTRIAN AND CYCLIST BRIDGES



Pedestrian and cyclist bridge
with glulam main beams
and hung-in glulam joists
with bridge deck in X-Lam
construction

Connections to Concrete | Brick | Steel

Connections for timber elements with SHERPA-connectors to surfaces of Concrete | Brick | Steel are currently being developed and will be available shortly. More information on the current development on this topic is available on our homepage www.sherpa-connector.com.

**WOOD-CONCRETE OR
WOOD-BRICK**



WOOD-STEEL



Fire - Protection

There are currently no methods available to directly calculate the fire rating of the SHERPA - connectors like there are for wooden members. However, the edge distances of the screws for SHERPA - connectors are designed, with the appropriated protection of the SHERPA - connectors side faces in place, to achive a 30 minute fire rating. If a higher fire rating is required, it can be achieved by applying appropriate constructive fire protection means.

Examples for methods are:

- covering of the connector with wood strips or similar



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- fully or partially housing the connector and filling of the gaps with fire inhibiting or retarding caulking



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- covering the side faces of the SHERPA - connector with fire retarding materials and coating the connecting beam with products that create foam in a fire situation



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Research to further study and clarify the behaviour of the SHERPA - connector in fire situations are currently being set up. Results of the research are expected in the near future. Up to date information regarding this topic will be published on the website www.sherpa-connector.com. A strategy to estimate the fire rating of a connection using SHERPA - connectors is shown in an example in section 6.2.11 of the SHERPA - handbook.



TIMBER-SERIES

Area of application

The SHERPA Timber-connector system is particularly flexible in its application. It finds application for roof, wall and structures connections as much as it does for traditional beam to joist connections.



General construction approval from the „Deutsches Institut für Bautechnik, Berlin“ (German Institute for construction technology, Berlin) for the connectors of the SHERPA - timber series Z-9.1-558

Advantages

- ✓ Simple and safe design and calculation
- ✓ Economical pre-assembly at the plant
- ✓ Fast assembly on the construction site
- ✓ Load capacities of 5 to 70 kN (1120 to 15730 lb)



Timber-Series selection

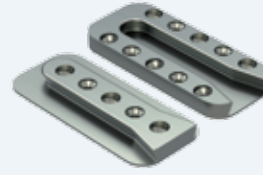


E

Dimensions: 80x210 mm
Thickness: 20 mm
Screws: 12x 8x120, 6x 8x80
to attach beams and joists



Screws		characteristic/design value (un-factored) (acc. approval Z-9.1-558)
End-grain	Side-grain	
12 pcs. 8x120	6 pcs. 8x80	36,0 kN (8090 lb)



D

Dimensions: 80x180 mm
Thickness: 20 mm
Screws: 10x 8x120, 5x 8x80
often used for angular/inclined connections



Screws		characteristic/design value (un-factored) (acc. approval Z-9.1-558)
End-grain	Side-grain	
10 pcs. 8x120	5 pcs. 8x80	30,0 kN (6740 lb)



D1

Dimensions: 53x180 mm
Thickness: 20 mm
Screws: 10x 8x120, 5x 8x80
designed for slender cross-sections



Screws		characteristic/design value (un-factored) (acc. approval Z-9.1-558)
End-grain	Side-grain	
10 pcs. 8x120	5 pcs. 8x80	30,0 kN (6740 lb)



C1

Dimensions: 80x150 mm
Thickness: 20 mm
Screws: 8x 8x120, 4x 8x80
ideal to attach joists



Screws		characteristic/design value (un-factored) (acc. approval Z-9.1-558)
End-grain	Side-grain	
8 pcs. 8x120	4 pcs. 8x80	20,0 kN (6740 lb)



C

Dimensions: 80x120 mm
Thickness: 20 mm
Screws: 6x 8x120, 3x 8x80
ideal for ceiling joists



Screws		characteristic/design value (un-factored) (acc. approval Z-9.1-558)
End-grain	Side-grain	
6 pcs. 8x120	3 pcs. 8x80	15,0 kN (3370 lb)

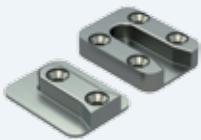


B

Dimensions: 65x120 mm
Thickness: 20 mm
Screws: 6x 8x120, 3x 8x80
ideal for ceilings

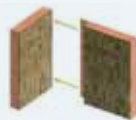


Screws		characteristic/design value (un-factored) (acc. approval Z-9.1-558)
End-grain	Side-grain	
6 pcs. 8x120	3 pcs. 8x80	12,0 kN (2690 lb)



A

Dimensions: 60x80 mm
Thickness: 20 mm
Screws: 4x 8x120, 2x 8x80



for walls, ceilings and joists

Screws		characteristic/design value (un-factored) (acc. approval Z-9.1-558)
End-grain	Side-grain	
4 pcs. 8x120	2 pcs. 8x80	8,0 kN (1790 lb)



KA

Dimensions: 60x80 mm
Thickness: 20 mm
Screws: 6x 8x80



Not suitable for long load durations, suggested for installation/mounting only.

to connect X-Lam elements and stick-framed panels

Screws		characteristic/design value (un-factored)
End-grain	side-grain	
4 pcs. 8x120	2 pcs. 8x80	3,0 kN (670 lb)



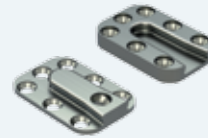
A2

Dimensions: 50x80 mm
Thickness: 20 mm
Screws: 4x 8x120, 2x 8x80

can be used to connect fixed elements like windows for example



Screws		characteristic/design value (un-factored) (acc. approval Z-9.1-558)
End-grain	Side-grain	
4 pcs. 8x120	2 pcs. 8x80	8,0 kN (1790 lb)



Series - S1

Dimensions: 40x60 mm
Thickness: 12 mm
Screws: 15 pcs. 5x60 fully-threaded

Screws		characteristic/design value (un-factored) (acc. approval Z-9.1-558)
End-grain	Side-grain	
8 pcs. 5x60	7 pcs. 5x60	5,6 kN (1250 lb)



Series - S2

Dimensions: 40x110 mm
Thickness: 12 mm
Screws: 23 pcs. 5x60 fully-threaded

Screws		characteristic/design value (un-factored) (acc. approval Z-9.1-558)
End-grain	Side-grain	
13 pcs. 5x60	11 pcs. 5x60	12,8 kN (2870 lb)



Series - S3

Dimensions: 40x150 mm
Thickness: 12 mm
Screws: 30 pcs. 5x60 fully-threaded

Screws		characteristic/design value (un-factored) (acc. approval Z-9.1-558)
End-grain	Side-grain	
17 pcs. 5x60	13 pcs. 5x60	18,7 kN (4200 lb)

Please also note the screw setting references found on page 23.



Series - S4

Dimensions: 55x110 mm
Thickness: 12 mm
Screws: 24 pcs. 5x60 fully-threaded

Screws		characteristic/design value (un-factored) (acc. approval Z-9.1-558)
End-grain	Side-grain	
13 pcs. 5x60	11 pcs. 5x60	12,8 kN (2870 lb)



Series - S5

Dimensions: 55x150 mm
Thickness: 12 mm
Screws: 30 pcs. 5x60 fully-threaded

Screws		characteristic/design value (un-factored) (acc. approval Z-9.1-558)
End-grain	Side-grain	
17 pcs. 5x60	13 pcs. 5x60	20,9 kN (4690 lb)

XL-SERIES

Area of application

SHERPA XL high capacity-connectors for use in engineered timber construction. A competitive advantage for timber structures compared to steel and reinforced concrete structures can be achieved due to the standardized design and implementation of the SHERPA - system.



General construction approval from the „Deutsches Institut für Bautechnik, Berlin“ (German Institute for construction technology, Berlin) for the connectors of the SHERPA - timber series Z-9.1-788

Advantages

- ✓ Simple and safe design and calculation
- ✓ Economical pre-assembly at the plant
- ✓ Fast assembly on the construction site
- ✓ Complex structures and connections can be design to load capacities of 55 to 280 kN (12360 to 62940 lb)



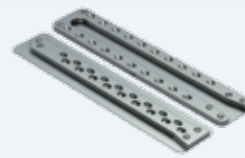
XL-Series selection



DXL 280

Dimensions: 140x605 mm
 Thickness: 20 mm
 Screws: 63 pcs. 8x160 fully-threaded

Screws	characteristic/design value (un-factored) (acc. approval Z-9.1-778)
54 pcs. 8x160 fully-threaded	ca. 280 kN (62940 lb)



XL 250

Dimensions: 120x608 mm
 Thickness: 20 mm
 Screws: 48 pcs. 8x160 fully-threaded

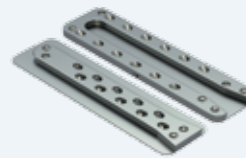
Screws	characteristic/design value (un-factored) (acc. approval Z-9.1-778)
48 pcs. 8x160 fully-threaded	ca. 250 kN (56200 lb)



XL 190

Dimensions: 120x528 mm
 Thickness: 20 mm
 Screws: 40 pcs. 8x160 fully-threaded

Screws	characteristic/design value (un-factored) (acc. approval Z-9.1-778)
40 pcs. 8 x 160 fully-threaded	ca. 190 kN (42710 lb)



XL 140

Dimensions: 120x448 mm
 Thickness: 20 mm
 Screws: 32 pcs. 8x160 fully-threaded

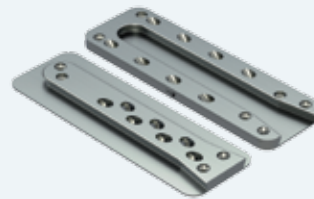
Screws	characteristic/design value (un-factored) (acc. approval Z-9.1-778)
32 pcs. 8x160 fully-threaded	ca. 140 kN (31470 lb)



XL 120

Dimensions: 120x408 mm
 Thickness: 20 mm
 Screws: 29 pcs. 8x160 fully-threaded

Screws	characteristic/design value (un-factored) (acc. approval Z-9.1-778)
29 pcs. 8x160 fully-threaded	ca. 120 kN (26970 lb)



XL 100

Dimensions: 120x368 mm
 Thickness: 20 mm
 Screws: 25 pcs. 8x160 fully-threaded

Screws	characteristic/design value (un-factored) (acc. approval Z-9.1-778)
25 pcs. 8x160 fully-threaded	ca. 100 kN (22480 lb)



XL 80

Dimensions: 120x328 mm
 Thickness: 20 mm
 Screws: 24 pcs. 8x160 fully-threaded

Screws	characteristic/design value (un-factored) (acc. approval Z-9.1-778)
24 pcs. 8x160 fully-threaded	ca. 80 kN (17980 lb)



XL 70

Dimensions: 120x288 mm
 Thickness: 20 mm
 Screws: 21 pcs. 8x160 fully-threaded

Screws	characteristic/design value (un-factored) (acc. approval Z-9.1-778)
21 pcs. 8x160 fully-threaded	ca. 70 kN (15730 lb)



XL 55

Dimensions: 120x248 mm
 Thickness: 20 mm
 Screws: 18 pcs. 8x160 fully-threaded

Screws	characteristic/design value (un-factored) (acc. approval Z-9.1-778)
18 pcs. 8x160 fully-threaded	ca. 55 kN (12360 lb)

Please also note the screw setting references found on page 23.

ASSEMBLY-SERIES

Area of application

The SHERPA Assembly-connector system was developed particularly for the secure assembly of balconies, carports, stair treads, podiums, wall connections, solariums, fences and many more.



Advantages

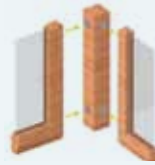
- ✓ easy to use for professionals and do-it-yourself's alike
- ✓ intuitive assembly
- ✓ secure connection
- ✓ easy assembly and take down for temporary structures (i. e. for events, outdoor catering/kitchen or similar)



Assembly-Series selection



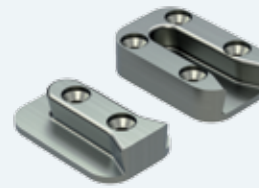
A3



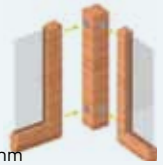
Dimensions:
Thickness: 20 mm
Screws: 6x 5x60

40x80 mm

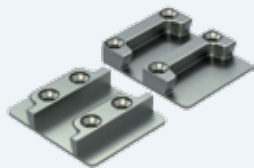
designed for solariums



A1



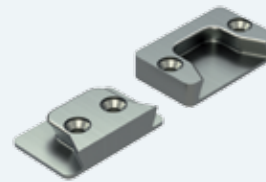
Dimensions: 35x55 mm
Thickness: 17 mm
Screws: 6x 5x60



Multi



Dimensions: 80x96 mm / 60x96 mm
Thickness: 20 mm
Screws: 8x 8x80
1x safety wedge

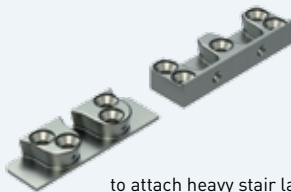


W8



Dimensions: 80x50 mm
Thickness: 20 mm
Screws: 4x 8x80

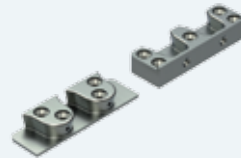
WTS6 special



Dimensions: 110x35 mm
Thickness: 20 mm
Screws: 9x 8x80
2x locking screw

to attach heavy stair landings and treads

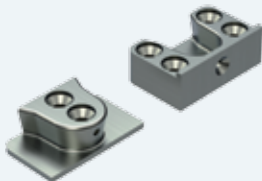
WTS5 special



Dimensions: 110x35 mm
Thickness: 20 mm
Screws: 9x 5x60
2x locking screw

ideal for wide handrails

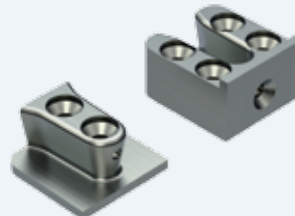
WTS3 special



Dimensions: 55x35 mm
Thickness: 20 mm
Screws: 6x 5x60
1x locking screw

for heavy loads and pedestals/podiums

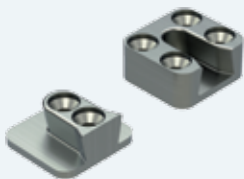
WTS1 special



Dimensions: 32x35 mm
Thickness: 20 mm
Screws: 6x 5x60
1x locking screw

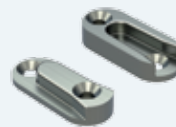
to attach attach stair treads, handrails and newels/balusters

WTS1



Dimensions: 32x30 mm
Thickness: 17 mm
Screws: 6x 5x60

mini 17



Dimensions: 17x40 mm
Thickness/housing depth:
10 mm
Screws: 4 Stk. 3,5x35
Radius: 17 mm

SHERPA special screws

Depending on the size and model of the SHERPA-connectors, different SHERPA special screws either fully or partially threaded with reinforced special head are used.

The entire SHERPA-concept is based on a system, in which the type and quality of the applied screws have a significant effect on the quality and safety of the connection. The identified types and sizes of screws have to be used in accordance to the general construction approval. A guarantee for the listed characteristic/design values can only be given for the use of the system consisting of SHERPA-connector and SHERPA-special screw.

Name	Dimensions
special screw Timber-Series	8 x 120 mm
special screw Timber-Series	8 x 80 mm
special screw S-Series hardened, fully threaded	5 x 60 mm
special screw XL/DXL-Series self-tapping	8 x 160 mm
special screw Assembly-Connector	3,5 x 35 mm
locking screw for special connectors	4 x 8 mm
special screw self-tapping for up-lift protection	6 x 100 mm
additional thread for up-lift protection	
plastic safety wedge Multi-Assembly connector	

SHERPA- special screws

5 x 60 mm
8 x 80 mm
8 x 120 mm
8 x 160 mm





ASSEMBLY SUGGESTIONS:

The SHERPA-part with the larger amount of screws is to be fastened to the end-grain of the secondary beam.

For the Timber-Series and the S-Series, SHERPA-special screws 8 x 80 mm / 8 x 120 mm and SHERPA-special screws 5 x 60 mm respectivel have to be used in compliance with the construction approval Z-9.1-558.

For the connectors of the SHERPA XL/DXL-Series, SHERPA-special screws 8 x 160 mm have to be used (Z-9.1-788). It is recommended to fasten these screws with a torque wrench to a torque of $M_T = 20 \text{ Nm}$ (14.75 lbft).

SUGGESTIONS TO THE PRE-DRILLING DURING ASSEMBLY:

It is recommended to pre-drill the screws for the Timber-Series, as wood splitting can occur in the wood if not pre-drilled. A pre-drilling kit is available in our product range to assist with the task.

No pre-drilling is required for the installation of the special screws of the SHERPA XL/DXL-Series, as the 8 x 160 mm-special feature a special screw tip (half tip) that prevents wood splitting.

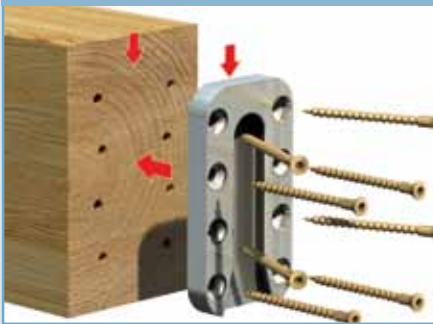
Assembly instructions

NOTICE:
According to approval Z-9.1-558
SHERPA-special screws
8 x 80 mm / 8 x 120 mm
have to be used.

SHERPA® A, B, C, C1, D, D1, E, F (with general construction approval) 
A2, KA, W8, WTS6 spezial, multi (Assembly connectors)

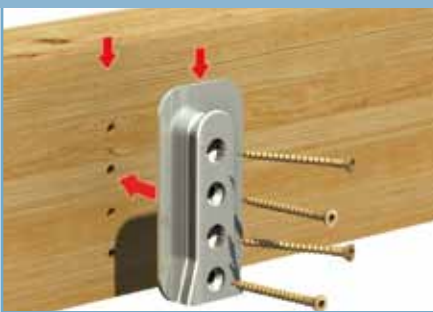
PLACEMENT

End-grain 8 x 120 mm



The SHERPA-part with the larger amount of holes has to be fastened to the end-grain (secondary beam).

Side-grain 8 x 80 mm



Flush or housed



All SHERPA®-parts have centerline markings on the top/bottom faces for ease of positioning.

ASSEMBLY

Flush or housed



SHERPA®-connectors of the Timber-Series can also be fully housed. The housing depth is depending on the type and has to be made 1mm shallower than the thickness of the connector.

d = screw diameter

Pre-drilling/straight



It is recommended to pre-drill the screws for the Timber-Series.


Screw installation - straight



To make the positioning easier, pre-drill and install the straight screws first then pre-drill and install the inclined screws.

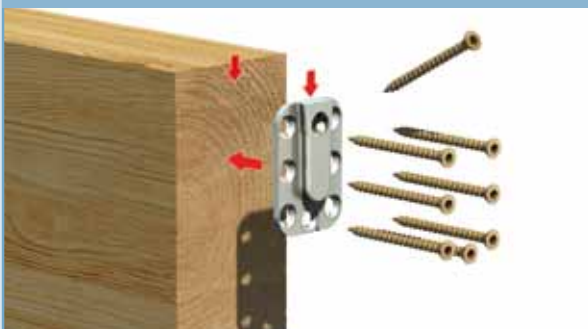
Assembly instructions

NOTICE:
According to approval Z-9.1-558
SHERPA-special screws
5 x 60 mm have to be used.

SHERPA® S1, S2, S3, S4, S5 (with general construction approval) 
A1, A3, KA1, KT, K, WTS1 special, WTS1, WTS3 special, WTS5 special, mini 10, mini 17

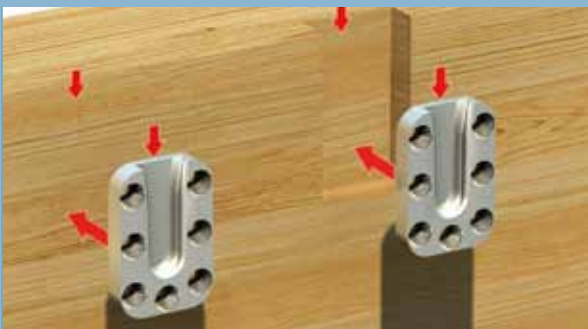
PLACEMENT

Screws 5 x 60 mm



The SHERPA-part with the larger amount of holes has to be fastened to the end-grain (secondary beam).

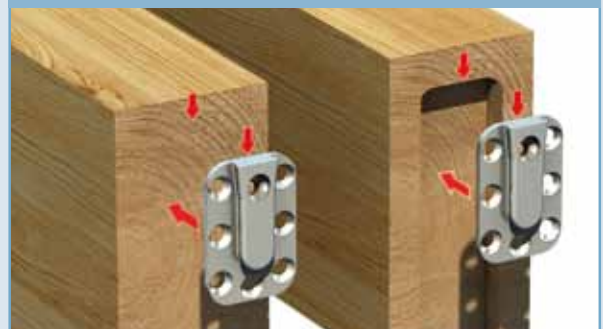
Flush or housed



All SHERPA®-parts have centerline markings on the top/ bottom faces for ease of positioning.

ASSEMBLY

Flush or housed



SHERPA®-connectors of the S-Series can also be fully housed. The housing depth is depending on the typ and has to be made 1 mm shallower than the thickness of the connector.

Screw installation



Install the straight screws first, then install the inclined screws.

Notice (applicable to all SHERPA®-connectors):

All specifications applies to solid sawn timber with a minimum grade of C24 per EN 338:2009 and DIN 1052:2008 (equivalent S10 per DIN 4074-1:2008) and all glulam with a minum grade per EN 1194:1999 or DIN 1052:2008. Solid sawn timber has to have a moisture content of 18% at the time the connection is installed and has to be free of heart (FOHC) for all end-grain applications.

The listed characteristic/design values are only guaranteed if the appropriate SHERPA®-special screws are used with the respective SHERPA®-connectors. It is recommended to apply a lubricant (spray) on the male and female sides of the connector parts to minimize the friction between the two surface during installation. All surfaces that SHERPA®-connectors are applied to have to plane and smooth. Under circumstances the dimension changes due to swelling and shrinkage of the wood during installation has to be considered.

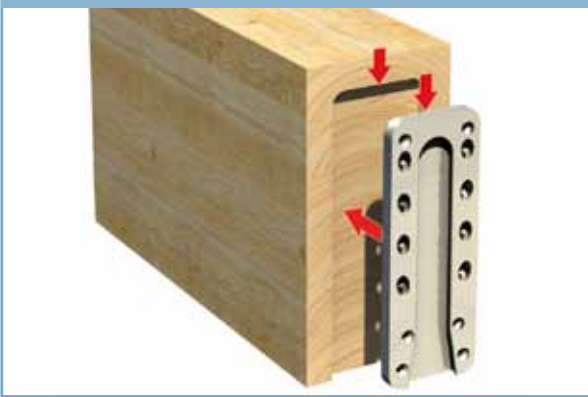
Assembly instructions

NOTICE:
According to approval Z-9.1-788
SHERPA-special screws
8 x 160 mm have to be used.

SHERPA® XL / DXL-Serie XL 55, XL 70, XL 80, XL 100,
XL 120, XL 140, XL 190, XL 250, DXL 280

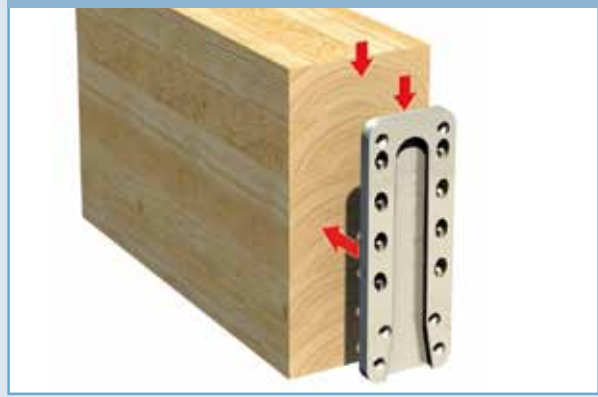
Assembly on end-grain (secondary beam)

Housed option



The housing depth for SHERPA® XL/DXL-connectors has to be 3 to 5 mm shallower than the thickness of the connector.

Flush option



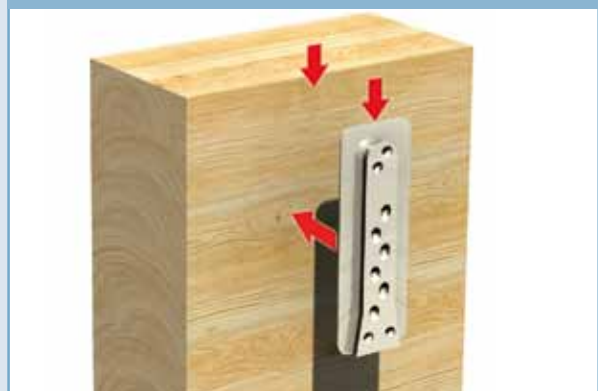
Assembly on side-grain (main beam)

Housed into the main beam



The housing depth for SHERPA® XL/DXL-connectors has to be 3 to 5 mm shallower than the thickness of the connector.

Assembled flush



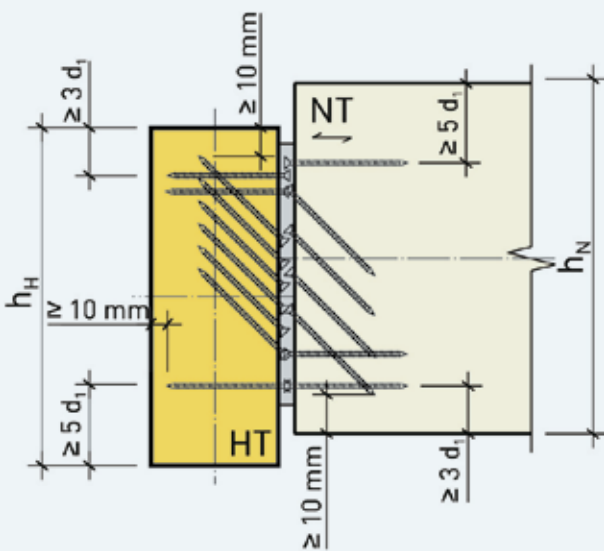
Under consideration of the appropriate edge distance, the SHERPA-part with the larger amount of holes has to be fastened to the end-grain (secondary beam). The SHERPAXL/DXL-connectors can be mounted either flush or fully housed. The appropriate self-tapping, fully threaded screws can be installed without pre-drilling the wood. Advice for the screw installation: install the straight screws first to secure and fix the connector in place, then install the inclined screws.

It is recommended to fasten the SHERPAXL/DXL-connectors using a torque wrench with a torque setting of $M_T = 20 \text{ Nm}$ (14.75 lbf \cdot ft).

Minimum edge distances for SHERPA-connectors

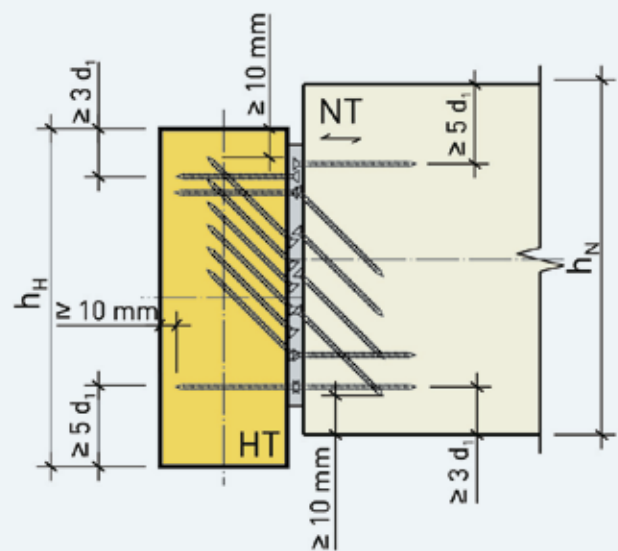
On the following pages the minimum required edge distances for SHERPA-connectors are illustrated. The sketches were created for the SHERPAXL/DXL-connectors and are valid for all SHERPA-Series correspondingly.

Minimum edge distances for a perpendicular Beam (HT) - Joist (HT) - Connection

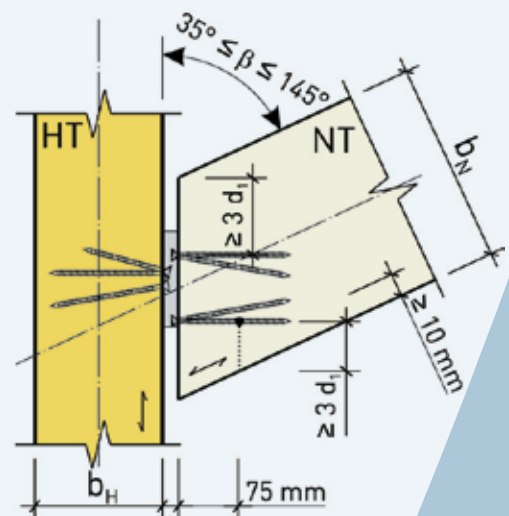
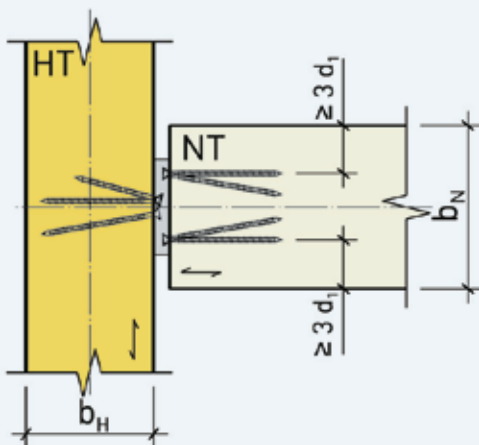


d_1 ... Nenndurchmesser der Schraube

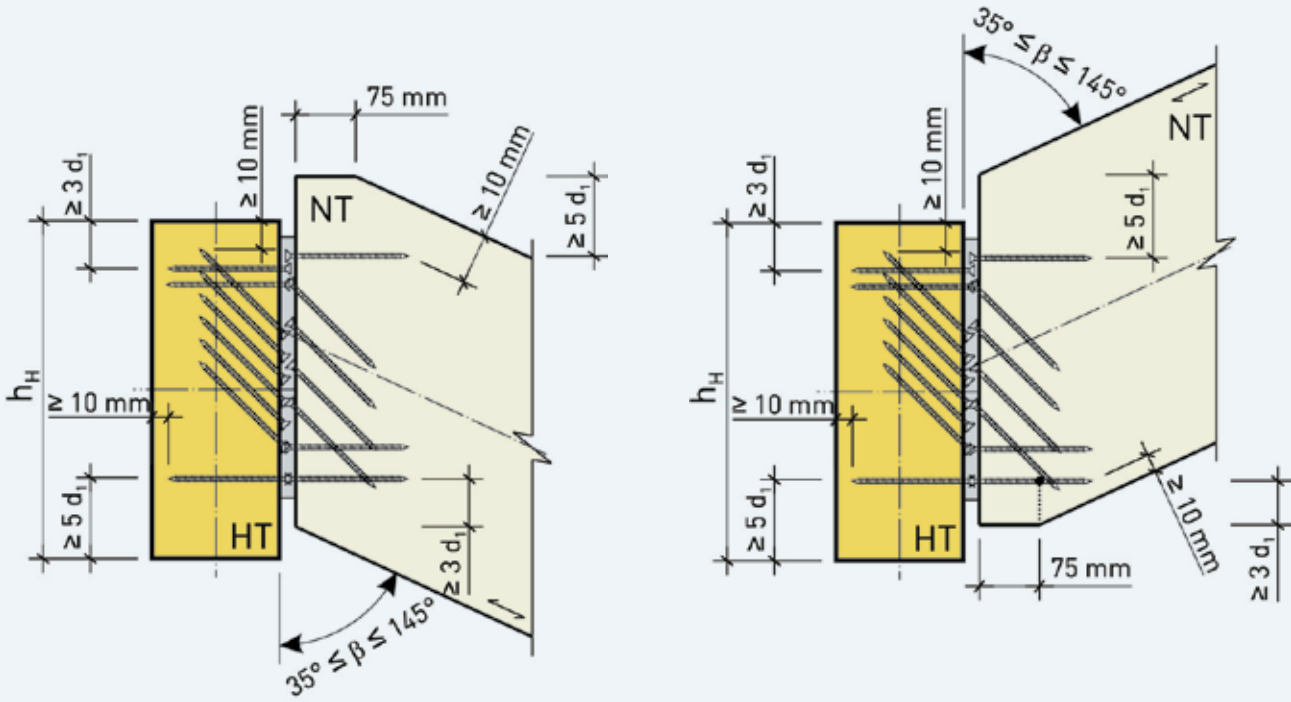
Minimum edge distances for an angled (plan-view) Beam (HT) - Joist (HT) - Connection



d_1 ... Nenndurchmesser der Schraube

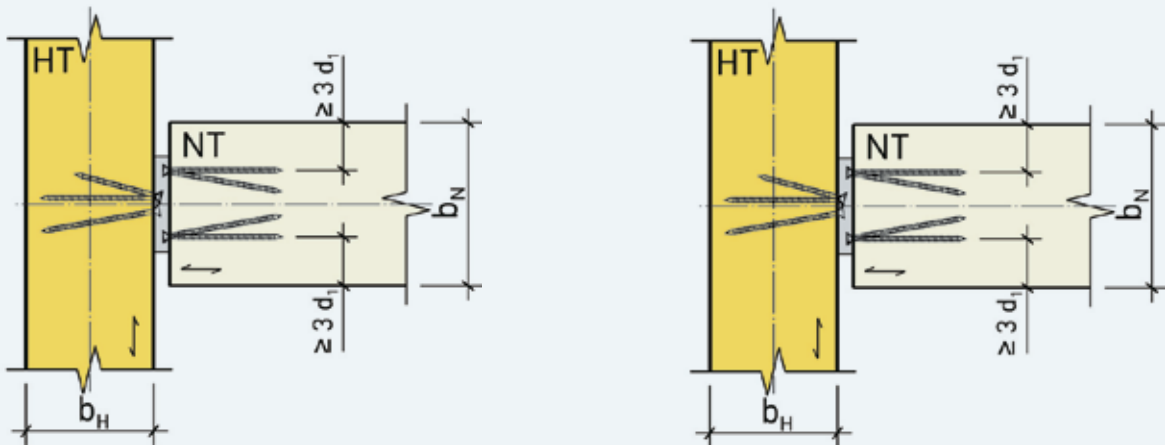


Minimum edge distances for a declined / inclined (elevation-view)
Beam (HT) - Joist (HT) - Connection



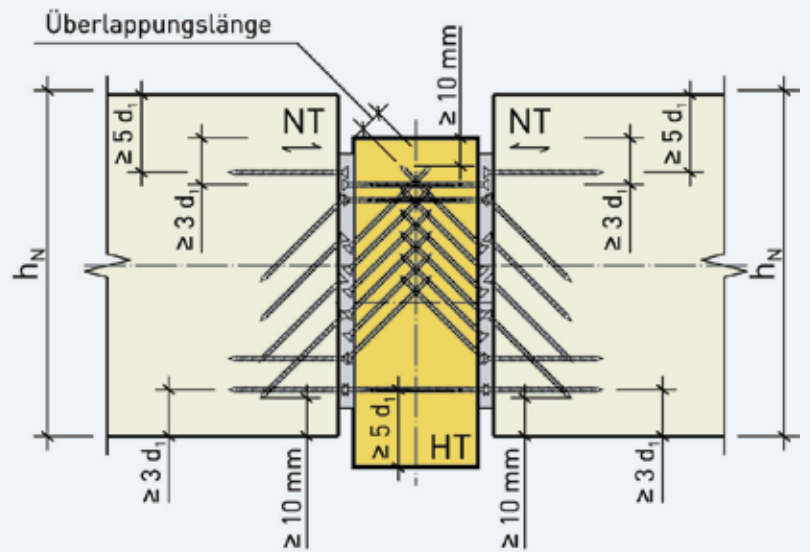
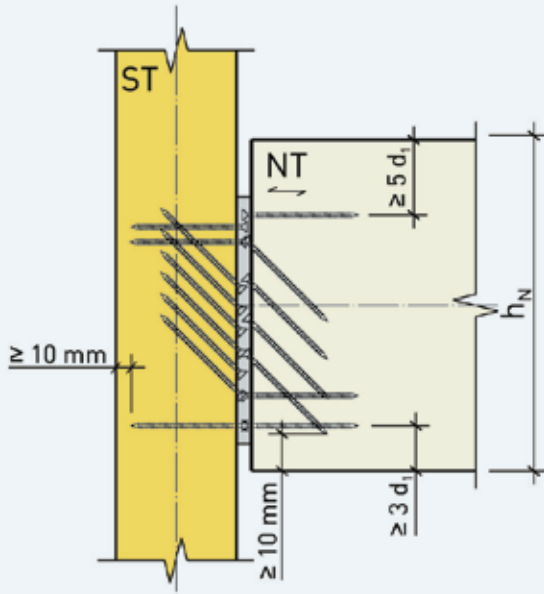
d_1 ... Nenndurchmesser der Schraube

d_1 ... Nenndurchmesser der Schraube



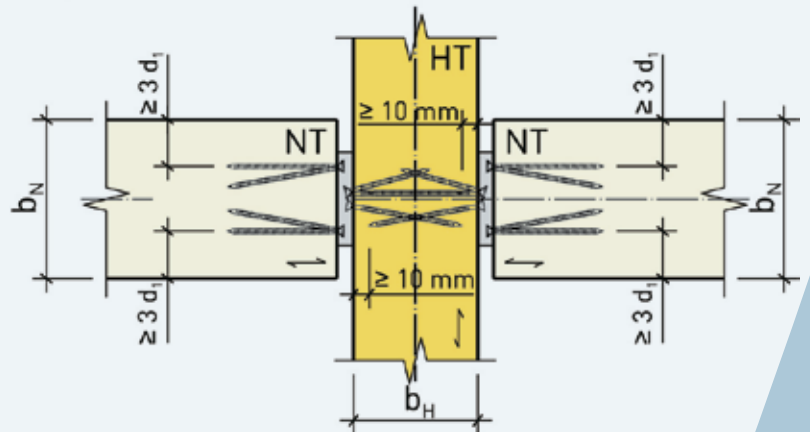
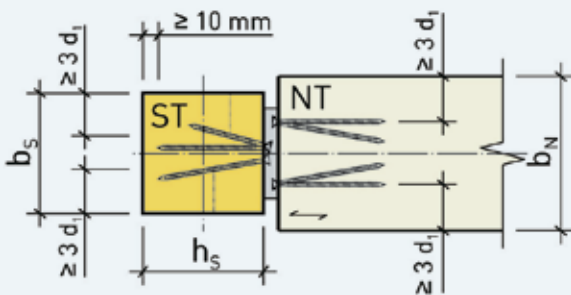
Minimum edge distances
for a perpendicular Post/Column (ST) -
Joist (HT) - Connection

Minimum edge distances
for a both sides perpendicular
Beam (HT) - Joist (HT) - Connection



d_1 ... Nenndurchmesser der Schraube

d_1 ... Nenndurchmesser der Schraube



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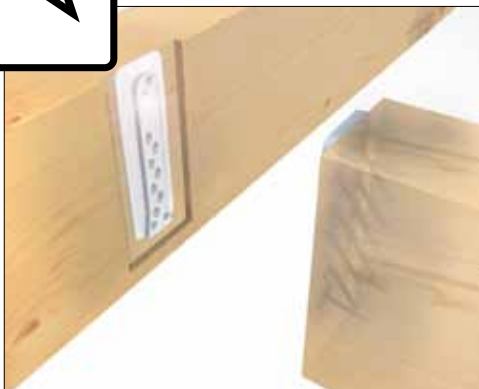


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