PRODUCT DATA SHEET

MAGNUS HOOK CONNECTOR

PRODUCT DESCRIPTION

The Magnus hook connector is used to **make node connections in woodworking**. This connector impresses in particular due to its complete prefabrication, which in turn leads to **minimal assembly times** on the construction site. The connector consists of two different components: wood construction
screws and fixing screws. The two individual parts of the Magnus are fastened to the respective components using the wood construction screws and then pushed into one another without force or friction. The two components are braced against each another by means of fixing screws. This effectively prevents **unintentional loosening of the connection.** Wood connections created by Magnus **can be subjected to static loads in five directions with high, tested values.** Installation can be carried out both **visibly** (for shadow groove connections) **and concealed** (milled in).

ADVANTAGES

- Easy installation
- High level of prefabrication
- Suitable for high loads
- Visible and concealed connections
- Milling cutter as well as milling and assembly jig available
- ESC calculation software for free preliminary calculation

NOTE

Only approved for timber constructions protected from exposure to the elements in service classes 1 and 2.

APPLICATION IMAGE

Magnus hook connector for installing a beam on a wall.

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PRODUCT DATA SHEET

MAGNUS HOOK CONNECTOR

CERTIFICATION

- Regulated by European Technical Assessment ETA-15/0761

PRODUCT TABLE

Art. no.	Designation	Dimensions[a] [mm]	PU
944874	Magnus XS	30 x 30 x 9	20*
944875	Magnus S	50 x 60 x 13	10
944876	Magnus S	50 x 80 x 13	10
944877	Magnus S	50 x 100 x 13	10
944878	Magnus M	70 x 120 x 17	10
944879	Magnus M	70 x 140 x 17	10
944880	Magnus M	70 x 160 x 17	10
944881	Magnus M	70 x 180 x 17	10
944882	Magnus L	110 x 220 x 19	10
944883	Magnus L	110 x 260 x 19	10
944884	Magnus L	110 x 300 x 19	10
944887	Magnus L	110 x 340 x 19	10
944888	Magnus L	110 x 380 x 19	10
944889	Magnus L	110 x 580 x 19	10

a)Width x height x depth

*The scope of delivery includes 120 pcs fully threaded screws (4.0 x 30 mm), blue zinc-plated (TX15); 20 pcs fixing screws (4.2 x 26 mm), blue zinc-plated (TX15); 1x assembly instructions.

NOTE

You will find detailed assembly instructions on our website: **www.eurotec.team/magnus**

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INSTALLATION ACCESSORIES

Milling and assembly jig

Art. no.	Compatible with	PU
944867	Magnus XS	1
944894	Magnus S	1
944895	Magnus M	1
944870	Magnus L 220/260/300	1
944903	Magnus L 340/380/420	1
944904	Magnus L 460/500/540/580	1

Milling cutter

Art. no.	Compatible with	Shaft diameter [mm]	PU
944936	Magnus XS	6.35	1
29686	Magnus S	8	1
29696	Magnus M and L	8	1

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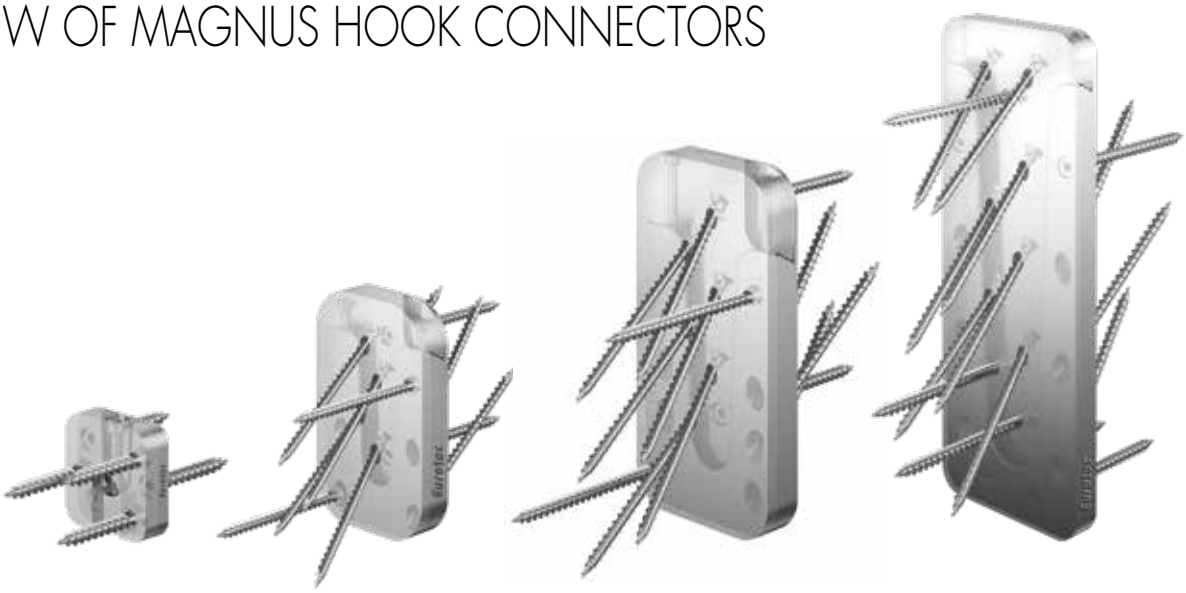
PRODUCT DATA SHEET MAGNUS HOOK CONNECTOR

OVERVIEW OF MAGNUS HOOK CONNECTORS



Magnus XS | Magnus S | Magnus M | Magnus L

Art. no.	Name	Dimensions	PU*	Fully threaded screws[b]		Fixing screws[b]		Main beam		Secondary beam surface-mounted		Secondary beam flush-mounted				characteristic load-bearing capacity F_{Rk}[e]			
		W x H x D[a]		Dimension	$n_{per\ connector}$	Dimension	$n_{per\ connector}$	min. W_{MB}	min. H_{MB}	min. W_{SB}	min. H_{SB}	min. W_{SB}[c]	min. H_{SB}	W_F	D_F[d]	$F_{1,Rk}$	$F_{2,Rk}$	$F_{3,Rk}$	$F_{4,Rk}$
		[mm]		[mm]		[mm]		[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[kN]	[kN]	[kN]	[kN]
944874	Magnus XS 30 x 30	30 x 30 x 9	20	4,0 x 30	6	4,2 x 26	1	40	40	40	40	40	40	32	11	1,2	1,57	1,70	1,19
944875	Magnus S 50 x 60	50 x 60 x 13	10	4,0 x 60	8	4,2 x 26	2	60	80	60	80	80	80	52	15	3,73	7,25	5,00	1,92
944876	Magnus S 50 x 80	50 x 80 x 13	10	4,0 x 60	12	4,2 x 26	2	60	100	60	100	80	100	52	15	3,73	14,50	5,00	2,80
944877	Magnus S 50 x 100	50 x 100 x 13	10	4,0 x 60	18	4,2 x 26	2	60	120	60	120	80	120	52	15	7,46	21,75	5,00	4,41
944878	Magnus M 70 x 120	70 x 120 x 17	10	5,0 x 80	13	4,8 x 60	2	80	140	80	140	100	140	72	19	5,49	21,34	13,00	5,17
944879	Magnus M 70 x 140	70 x 140 x 17	10	5,0 x 80	16	4,8 x 60	2	80	160	80	160	100	160	72	19	5,49	32,00	13,00	6,09
944880	Magnus M 70 x 160	70 x 160 x 17	10	5,0 x 80	21	4,8 x 60	2	80	180	80	180	100	180	72	19	10,98	37,34	13,00	8,27
944881	Magnus M 70 x 180	70 x 180 x 17	10	5,0 x 80	24	4,8 x 60	2	80	200	80	200	100	200	72	19	10,98	42,67	13,00	9,32
944882	Magnus L 110 x 220	110 x 220 x 19	4	8,0 x 120	13	4,8 x 60	2	120	240	120	240	140	240	112	21	9,29	36,10	23,00	13,96
944883	Magnus L 110 x 260	110 x 260 x 19	4	8,0 x 120	17	4,8 x 60	2	120	280	120	280	140	280	112	21	13,93	45,13	23,00	17,98
944884	Magnus L 110 x 300	110 x 300 x 19	4	8,0 x 120	20	4,8 x 60	2	120	320	120	320	140	320	112	21	13,93	54,15	23,00	20,56
944887	Magnus L 110 x 340	110 x 340 x 19	4	8,0 x 120	22	4,8 x 60	2	120	360	120	360	140	360	112	21	13,93	63,18	23,00	24,67
944888	Magnus L 110 x 380	110 x 380 x 19	4	8,0 x 120	25	4,8 x 60	2	120	400	120	400	140	400	112	21	9,29	72,20	23,00	26,96
944889	Magnus L 110 x 580	110 x 580 x 19	4	8,0 x 120	38	4,8 x 60	2	120	600	120	600	140	600	112	21	9,29	126,35	23,00	43,29

* 1 connector consists of 2 individual parts
a) D= assembly thickness
b) Included in delivery
c) Recommended minimum width of the secondary beam with the connector flush-mounted
d) To make installation easier, it is advantageous to reduce the milling depth slightly, especially for larger wood dimensions.
e) Both beams softwood with a gross density of ρ_k= 380 kg/m³.
The specified characteristic values of the load-bearing capacity F_{Rk} apply to the specified timber cross-sections, centred force application along the respective beam axis as well as connector installation flush with the top edge of the main and secondary beams.
Calculation according to ETA 15/0761. All mechanical values provided should be viewed as subject to the assumptions that have been made and represent example calculations.
All values are calculated minimum values and are subject to typographical and printing errors.
The characteristic values of the load-bearing capacity F_{Rk} should not be treated as equivalent to the max. possible load (the max. force). The characteristic values of the load-bearing capacity F_{Rk} should be reduced to the design values F_{Rd} in terms of the service class and the load duration class: $F_{Rd} = F_{Rk} \times k_{mod} / \gamma_M$.

Please note: These are planning aids. Projects must only be calculated by authorised persons.

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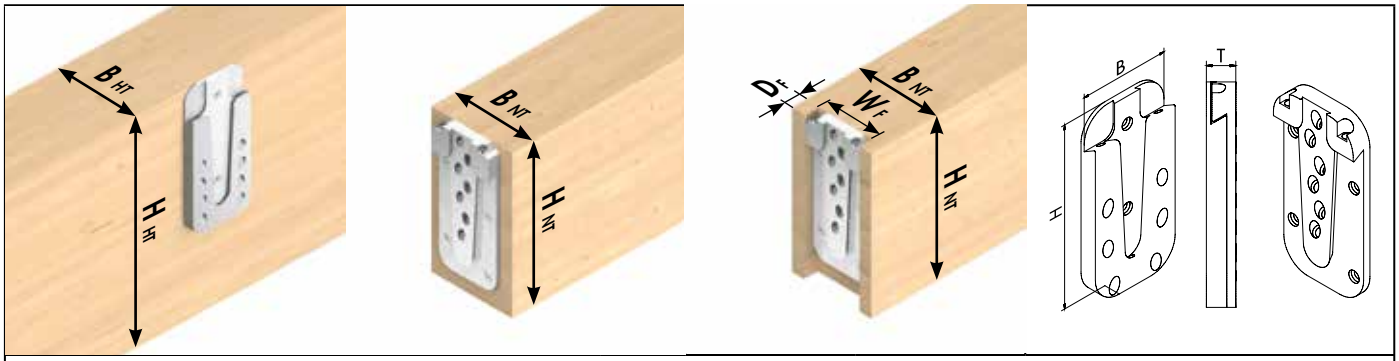
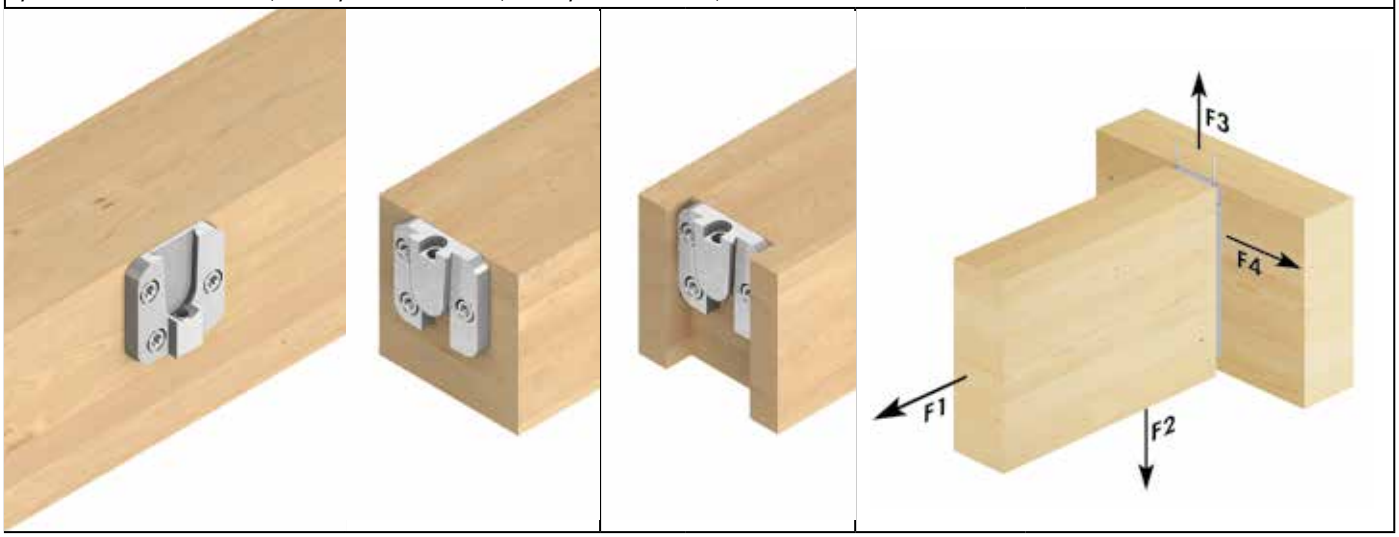
PRODUCT DATA SHEET

MAGNUS HOOK CONNECTOR

MAGNUS XS 30 X 30



Symbolic illustrations: f.l.t.r. Main beam, secondary beam surface-mounted, secondary beam flush-mounted, connector dimensions



Art. no.	Name	Dimensions	PU*	Fully threaded screws[b)]						Fixing screws[b)]	
		B x H x T[a)]		Dimensions	n_{gesamt}	In the main beam		In the secondary beam		Dimensions	n
		[mm]		[mm]		$n_{90°}$	$n_{45°}$	$n_{90°}$	$n_{45°}$	[mm]	
944874	Magnus XS 30 x 30	30 x 30 x 9	20	4,0 x 30	6	3	-	3	-	4,2 x 26	1

* 1 connector consists of 2 individual parts
a) D= assembly thickness
b) iIncluded in delivery

Art. no.	Name	Dimensions	Main beam		Secondary beam surface-mounted		Secondary beam flush-mounted				characteristic load-bearing capacity F_{Rk}[d)]			
		B x H x T[a)]	min. B_{HT}	min. H_{HT}	min. B_{NT}	min. H_{NT}	min. B_{NT}[b)]	min. H_{NT}	W_F	D_F[c)]	$F_{1,Rk}$	$F_{2,Rk}$	$F_{3,Rk}$	$F_{4,Rk}$
		[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[kN]	[kN]	[kN]	[kN]
944874	Magnus XS 30 x 30	30 x 30 x 9	40	40	40	40	40	40	32	11	1,12	1,57	1,70	1,19

a) D= assembly thickness
b) Included in delivery
c) Recommended minimum width of the secondary beam with the connector flush-mounted
d) To make installation easier, it is advantageous to reduce the milling depth slightly, especially for larger wood dimensions.
e) Both beams softwood with a gross density of ρ_k= 380 kg/m³.
The specified characteristic values of the load-bearing capacity F_{Rk} apply to the specified timber cross-sections, centred force application along the respective beam axis as well as connector installation flush with the top edge of the main and secondary beams. Calculation according to ETA 15/0761. All mechanical values provided should be viewed as subject to the assumptions that have been made and represent example calculations.
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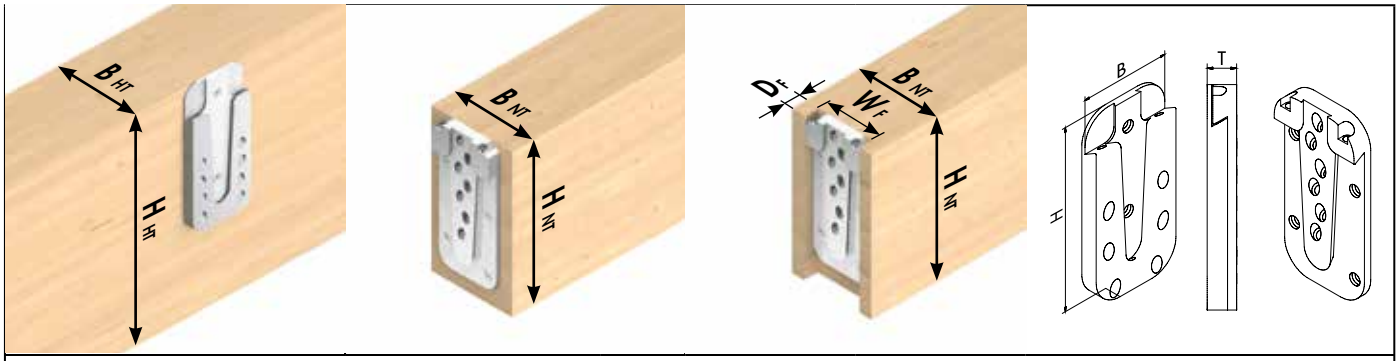
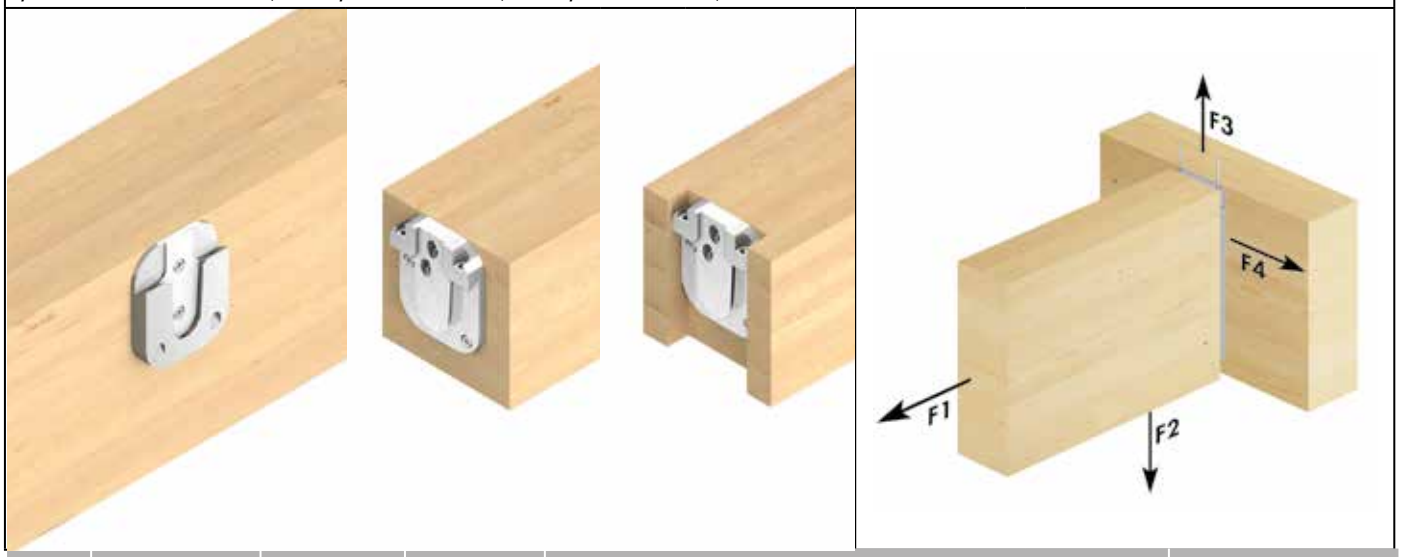
PRODUCT DATA SHEET

MAGNUS HOOK CONNECTOR

MAGNUS S 50 X 60



Symbolic illustrations: f.l.t.r. Main beam, secondary beam surface-mounted, secondary beam flush-mounted, connector dimensions



Art. no.	Name	Dimensions	PU*	Fully threaded screws[b]						Fixing screws[b]	
		B x H x T[a]		Dimensions	n_{gesamt}	In the main beam		In the secondary beam		Dimensions	n
		[mm]		[mm]		$n_{90°}$	$n_{45°}$	$n_{90°}$	$n_{45°}$	[mm]	
944875	Magnus S 50 x 60	50 x 60 x 13	10	4,0 x 60	8	2	2	2	2	4,2 x 26	2

* 1 connector consists of 2 individual parts
a) D= assembly thickness
b) iIncluded in delivery

Art. no.	Name	Dimensions	Main beam		Secondary beam surface-mounted		Secondary beam flush-mounted				characteristic load-bearing capacity F_{Rk}[d]			
		B x H x T[a]	min. B_{HT}	min. H_{HT}	min. B_{NT}	min. H_{NT}	min. B_{NT}[b]	min. H_{NT}	W_F	D_F[c]	$F_{1,Rk}$	$F_{2,Rk}$	$F_{3,Rk}$	$F_{4,Rk}$
		[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[kN]	[kN]	[kN]	[kN]
944875	Magnus S 50 x 60	50 x 60 x 13	60	80	60	80	80	80	52	15	3,73	7,25	5,00	1,92

a) D= assembly thickness
b) Included in delivery
c) Recommended minimum width of the secondary beam with the connector flush-mounted
d) To make installation easier, it is advantageous to reduce the milling depth slightly, especially for larger wood dimensions.
e) Both beams softwood with a gross density of ρ_k= 380 kg/m³.
The specified characteristic values of the load-bearing capacity F_{Rk} apply to the specified timber cross-sections, centred force application along the respective beam axis as well as connector installation flush with the top edge of the main and secondary beams. Calculation according to ETA 15/0761. All mechanical values provided should be viewed as subject to the assumptions that have been made and represent example calculations.
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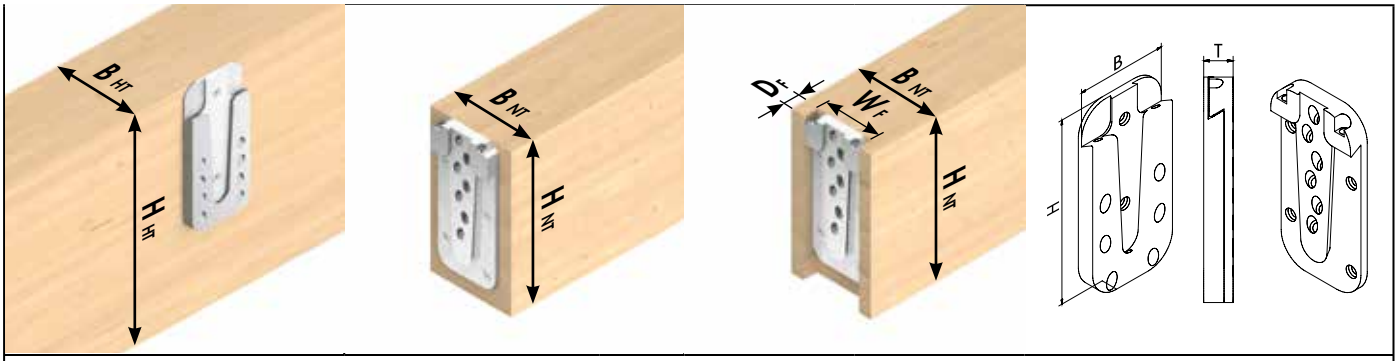
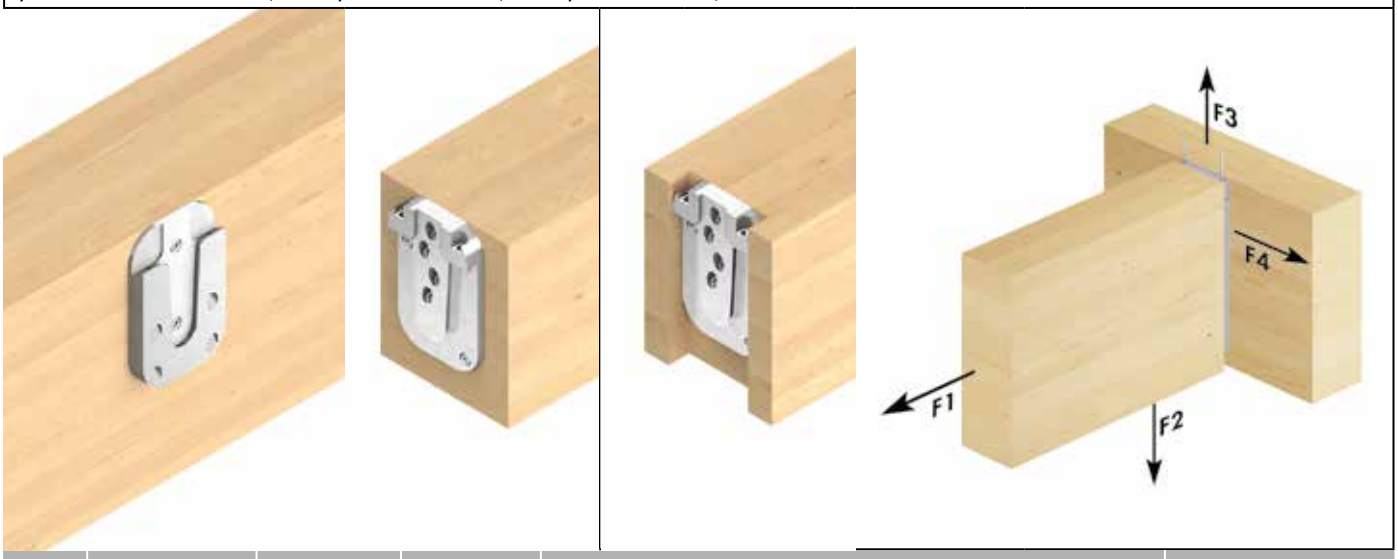
PRODUCT DATA SHEET

MAGNUS HOOK CONNECTOR

MAGNUS S 50 X 80



Symbolic illustrations: f.l.t.r. Main beam, secondary beam surface-mounted, secondary beam flush-mounted, connector dimensions



Art. no.	Name	Dimensions B x H x T[a)] [mm]	PU*	Fully threaded screws[b)] Dimensions [mm]	n_{gesamt}	In the main beam $n_{90°}$	In the main beam $n_{45°}$	In the secondary beam $n_{90°}$	In the secondary beam $n_{45°}$	Fixing screws[b)] Dimensions [mm]	Fixing screws[b)] n
944876	Magnus S 50 x 80	50 x 80 x 13	10	4,0 x 60	12	2	4	2	4	4,2 x 26	2

* 1 connector consists of 2 individual parts
a) D= assembly thickness
b) iIncluded in delivery

Art. no.	Name	Dimensions B x H x T[a)] [mm]	Main beam min. B_{HT} [mm]	Main beam min. H_{HT} [mm]	Secondary beam surface-mounted min. B_{NT} [mm]	Secondary beam surface-mounted min. H_{NT} [mm]	Secondary beam flush-mounted min. B_{NT}[b)] [mm]	Secondary beam flush-mounted min. H_{NT} [mm]	Secondary beam flush-mounted W_F [mm]	Secondary beam flush-mounted D_F[c)] [mm]	characteristic load-bearing capacity F_{Rk}[d)] $F_{1,Rk}$ [kN]	$F_{2,Rk}$ [kN]	$F_{3,Rk}$ [kN]	$F_{4,Rk}$ [kN]
944876	Magnus S 50 x 80	50 x 80 x 13	60	100	60	100	80	100	52	15	3,73	14,50	5,00	2,80

a) D= assembly thickness
b) Included in delivery
c) Recommended minimum width of the secondary beam with the connector flush-mounted
d) To make installation easier, it is advantageous to reduce the milling depth slightly, especially for larger wood dimensions.
e) Both beams softwood with a gross density of ρ_k= 380 kg/m³.

The specified characteristic values of the load-bearing capacity F_{Rk} apply to the specified timber cross-sections, centred force application along the respective beam axis as well as connector installation flush with the top edge of the main and secondary beams. Calculation according to ETA 15/0761. All mechanical values provided should be viewed as subject to the assumptions that have been made and represent example calculations.
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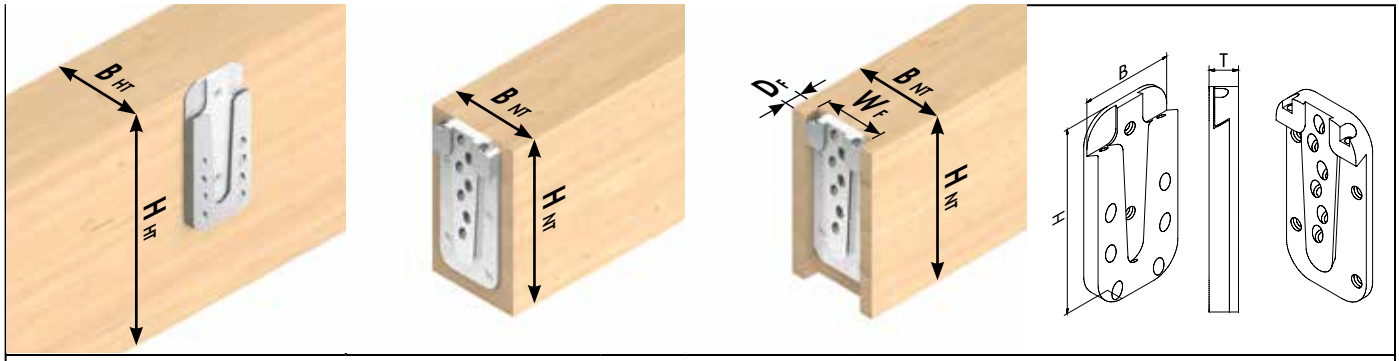
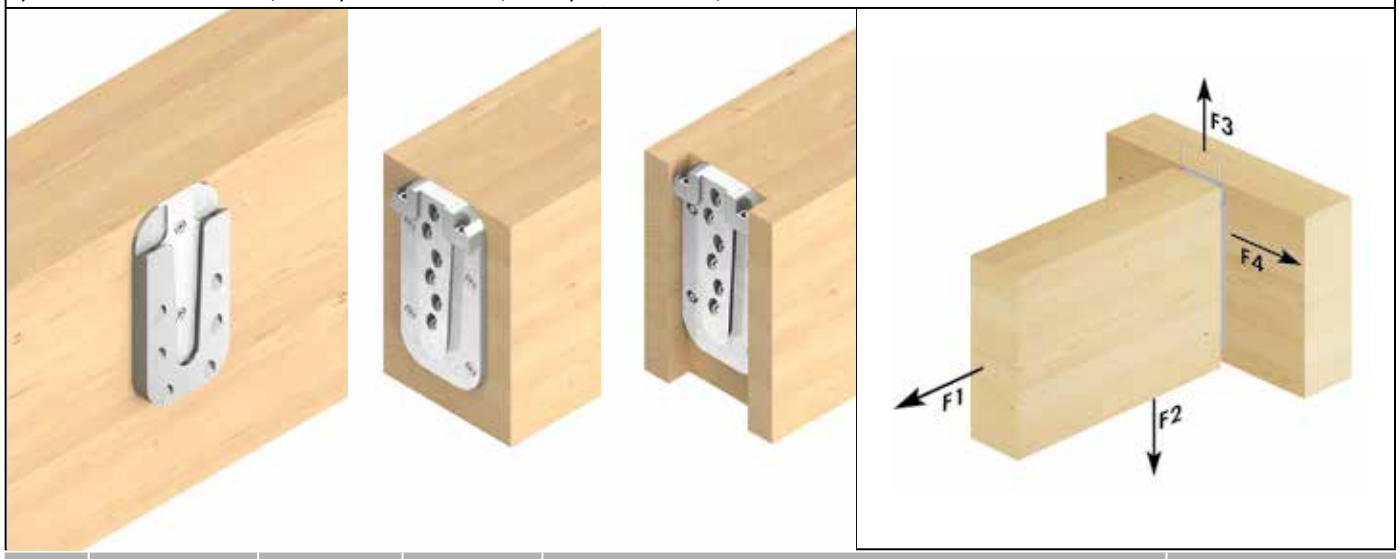
PRODUCT DATA SHEET

MAGNUS HOOK CONNECTOR

MAGNUS S 50 X 100



Symbolic illustrations: f.l.t.r. Main beam, secondary beam surface-mounted, secondary beam flush-mounted, connector dimensions



Art. no.	Name	Dimensions B x H x T[a)] [mm]	PU*	Fully threaded screws[b)] Dimensions [mm]	n_{gesamt}	In the main beam $n_{90°}$	In the main beam $n_{45°}$	In the secondary beam $n_{90°}$	In the secondary beam $n_{45°}$	Fixing screws[b)] Dimensions [mm]	Fixing screws[b)] n
944877	Magnus S 50 x 100	50 x 100 x 13	10	4,0 x 60	18	2	6	4	6	4,2 x 26	2

* 1 connector consists of 2 individual parts
a) D= assembly thickness
b) iIncluded in delivery

Art. no.	Name	Dimensions B x H x T[a)] [mm]	Main beam min. B_{HT} [mm]	Main beam min. H_{HT} [mm]	Secondary beam surface-mounted min. B_{NT} [mm]	Secondary beam surface-mounted min. H_{NT} [mm]	Secondary beam flush-mounted min. B_{NT}[b)] [mm]	Secondary beam flush-mounted min. H_{NT} [mm]	Secondary beam flush-mounted W_F [mm]	Secondary beam flush-mounted D_F[c)] [mm]	characteristic load-bearing capacity F_{Rk}[d)] $F_{1,Rk}$ [kN]	$F_{2,Rk}$ [kN]	$F_{3,Rk}$ [kN]	$F_{4,Rk}$ [kN]
944877	Magnus S 50 x 100	50 x 100 x 13	60	120	60	120	80	120	52	15	7,46	21,75	5,00	4,41

a) D= assembly thickness
b) Included in delivery
c) Recommended minimum width of the secondary beam with the connector flush-mounted
d) To make installation easier, it is advantageous to reduce the milling depth slightly, especially for larger wood dimensions.
e) Both beams softwood with a gross density of ρ_k= 380 kg/m³.
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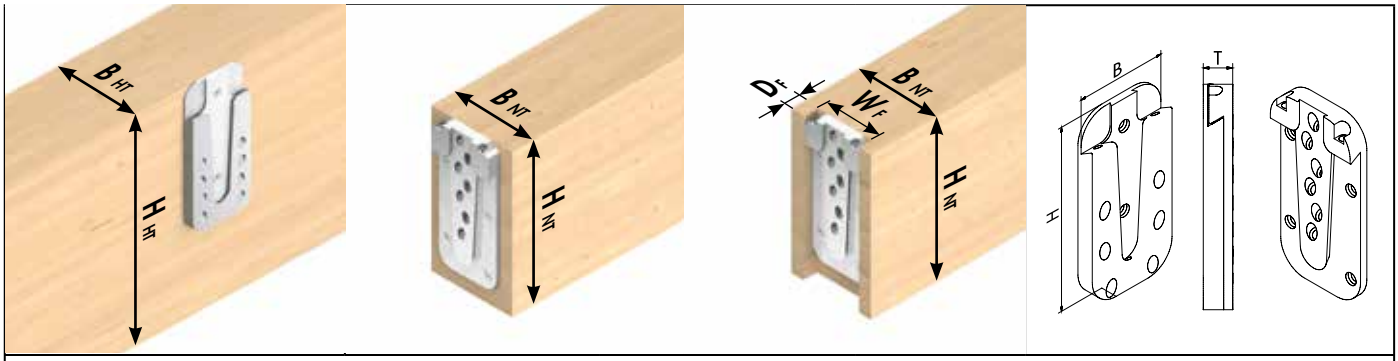
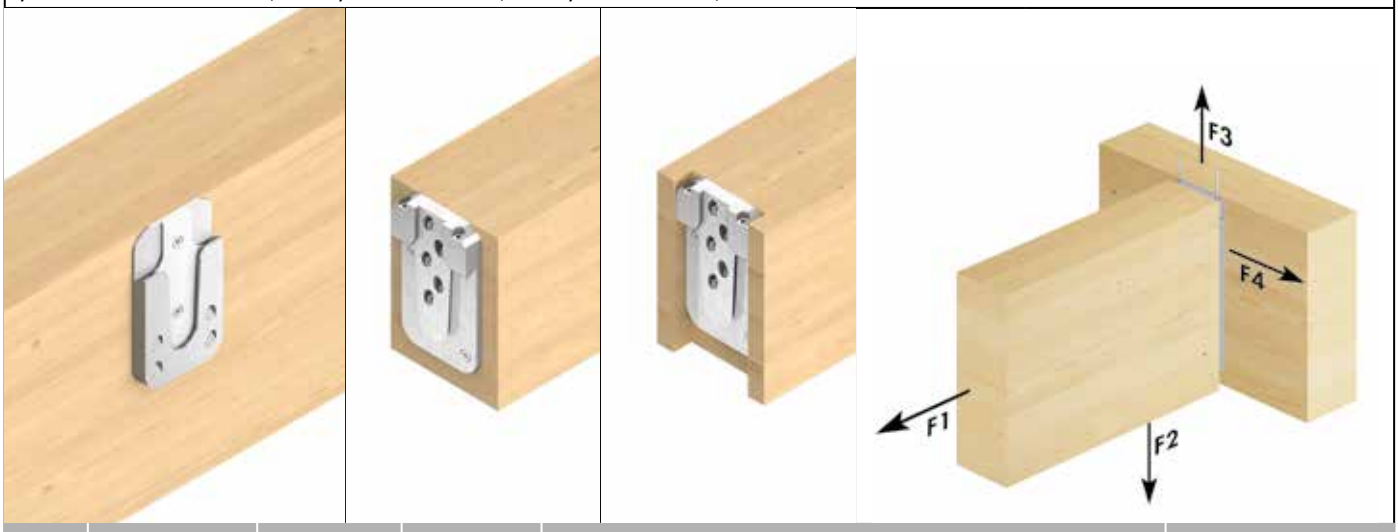
MAGNUS HOOK CONNECTOR

MAGNUS M 70 X 120



Symbolic illustrations: f.l.t.r. Main beam, secondary beam surface-mounted, secondary beam flush-mounted, connector dimensions



Art. no.	Name	Dimensions	PU*	Fully threaded screws[b]						Fixing screws[b]	
		B x H x T[a]		Dimensions	n_{gesamt}	In the main beam		In the secondary beam		Dimensions	n
		[mm]		[mm]		$n_{90°}$	$n_{45°}$	$n_{90°}$	$n_{45°}$	[mm]	
944878	Magnus M 70 x 120	70 x 120 x 17	10	5,0 x 80	13	2	4	2	5	4,8 x 60	2

* 1 connector consists of 2 individual parts
a) D= assembly thickness
b) iIncluded in delivery

Art. no.	Name	Dimensions	Main beam		Secondary beam surface-mounted		Secondary beam flush-mounted				characteristic load-bearing capacity F_{Rk}[d]			
		B x H x T[a]	min. B_{HT}	min. H_{HT}	min. B_{NT}	min. H_{NT}	min. B_{NT}[b]	min. H_{NT}	W_F	D_F[c]	$F_{1,Rk}$	$F_{2,Rk}$	$F_{3,Rk}$	$F_{4,Rk}$
		[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[kN]	[kN]	[kN]	[kN]
944878	Magnus M 70 x 120	70 x 120 x 17	80	140	80	140	100	140	72	19	5,49	21,34	13,00	5,17

a) D= assembly thickness
b) Included in delivery
c) Recommended minimum width of the secondary beam with the connector flush-mounted
d) To make installation easier, it is advantageous to reduce the milling depth slightly, especially for larger wood dimensions.
e) Both beams softwood with a gross density of ρ_k= 380 kg/m³.
The specified characteristic values of the load-bearing capacity F_{Rk} apply to the specified timber cross-sections, centred force application along the respective beam axis as well as connector installation flush with the top edge of the main and secondary beams. Calculation according to ETA 15/0761. All mechanical values provided should be viewed as subject to the assumptions that have been made and represent example calculations.
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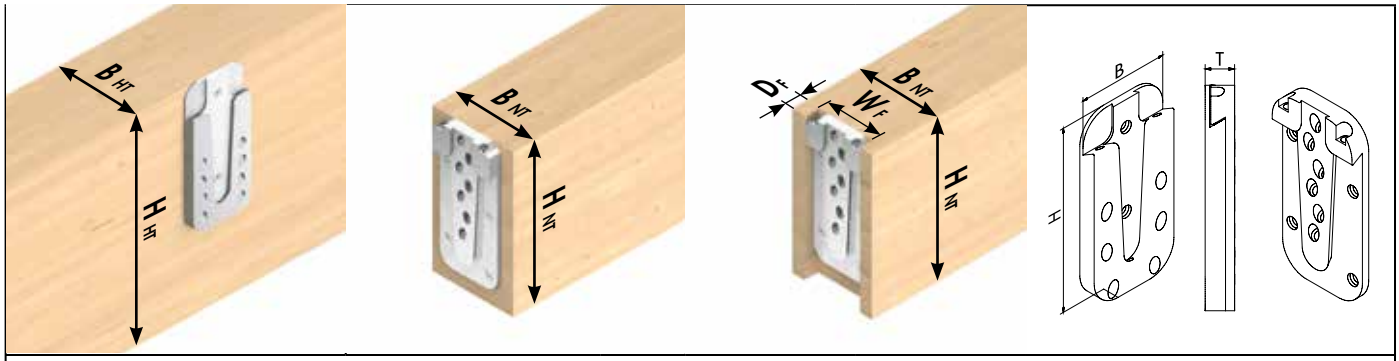
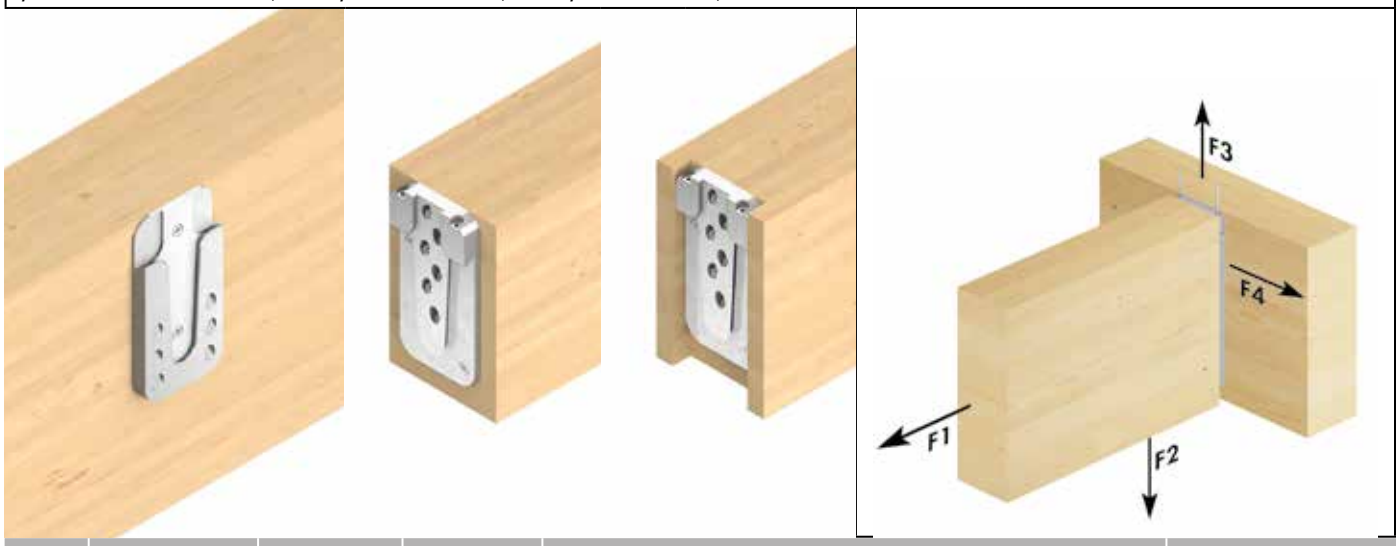
PRODUCT DATA SHEET

MAGNUS HOOK CONNECTOR

MAGNUS M 70 X 140



Symbolic illustrations: f.l.t.r. Main beam, secondary beam surface-mounted, secondary beam flush-mounted, connector dimensions



Art. no.	Name	Dimensions B x H x T[a)] [mm]	PU*	Fully threaded screws[b)] Dimensions [mm]	n_{gesamt}	In the main beam $n_{90°}$	In the main beam $n_{45°}$	In the secondary beam $n_{90°}$	In the secondary beam $n_{45°}$	Fixing screws[b)] Dimensions [mm]	Fixing screws[b)] n
944879	Magnus M 70 x 140	70 x 140 x 17	10	5,0 x 80	16	2	6	2	6	4,8 x 60	2

* 1 connector consists of 2 individual parts
a) D= assembly thickness
b) iIncluded in delivery

Art. no.	Name	Dimensions B x H x T[a)] [mm]	Main beam min. B_{HT} [mm]	Main beam min. H_{HT} [mm]	Secondary beam surface-mounted min. B_{NT} [mm]	Secondary beam surface-mounted min. H_{NT} [mm]	Secondary beam flush-mounted min. B_{NT}[b)] [mm]	Secondary beam flush-mounted min. H_{NT} [mm]	Secondary beam flush-mounted W_F [mm]	Secondary beam flush-mounted D_F[c)] [mm]	characteristic load-bearing capacity F_{Rk}[d)] $F_{1,Rk}$ [kN]	$F_{2,Rk}$ [kN]	$F_{3,Rk}$ [kN]	$F_{4,Rk}$ [kN]
944879	Magnus M 70 x 140	70 x 140 x 17	80	160	80	160	100	160	72	19	5,49	32,00	13,00	6,09

a) D= assembly thickness
b) Included in delivery
c) Recommended minimum width of the secondary beam with the connector flush-mounted
d) To make installation easier, it is advantageous to reduce the milling depth slightly, especially for larger wood dimensions.
e) Both beams softwood with a gross density of ρ_k= 380 kg/m³.
The specified characteristic values of the load-bearing capacity F_{Rk} apply to the specified timber cross-sections, centred force application along the respective beam axis as well as connector installation flush with the top edge of the main and secondary beams. Calculation according to ETA 15/0761. All mechanical values provided should be viewed as subject to the assumptions that have been made and represent example calculations.
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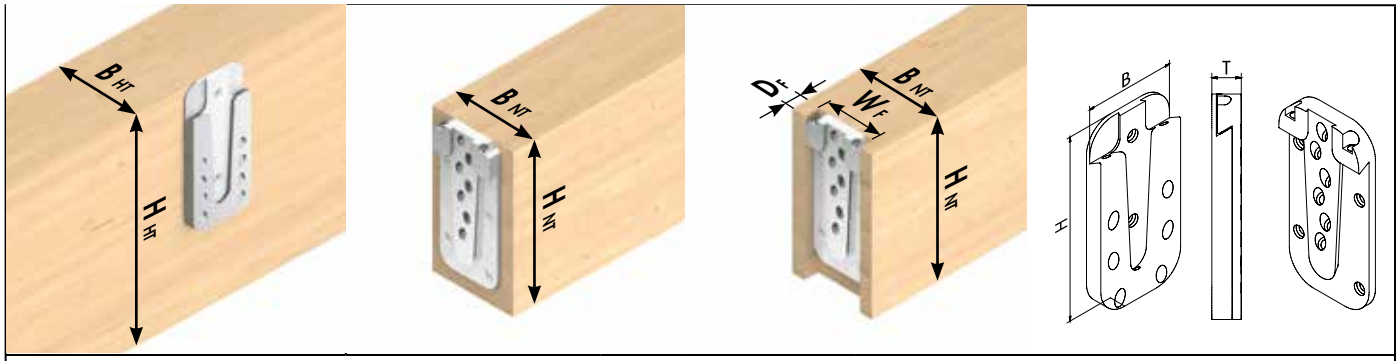
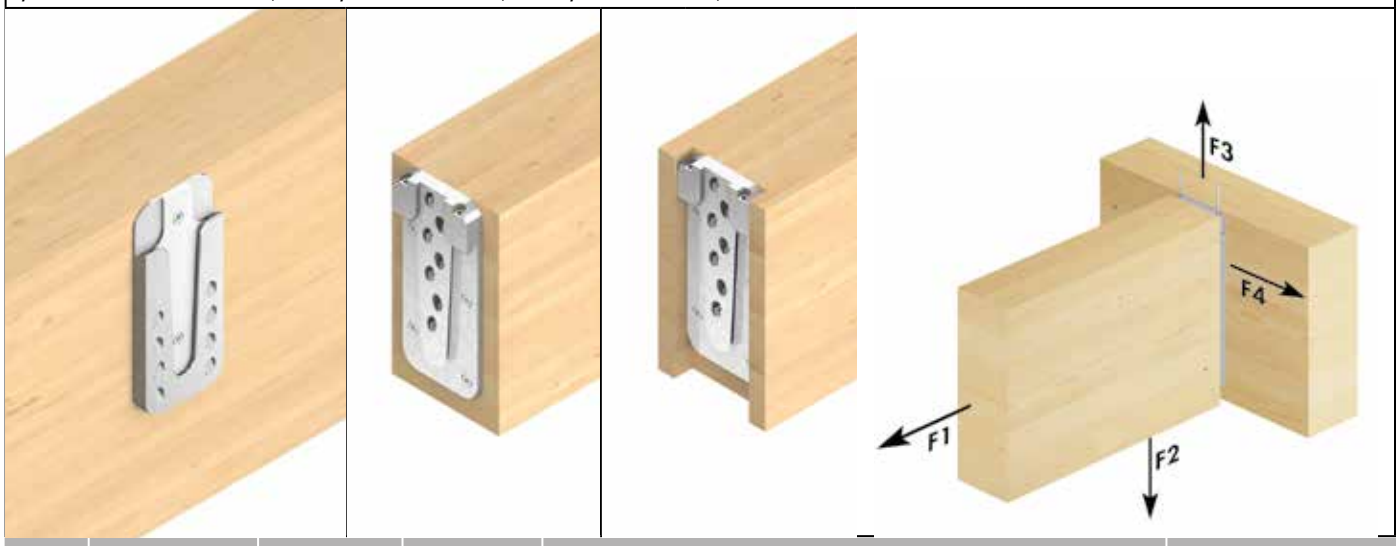
PRODUCT DATA SHEET

MAGNUS HOOK CONNECTOR

MAGNUS M 70 X 160



Symbolic illustrations: f.l.t.r. Main beam, secondary beam surface-mounted, secondary beam flush-mounted, connector dimensions



Art. no.	Name	Dimensions	PU*	Fully threaded screws[b]						Fixing screws[b]	
		B x H x T[a]		Dimensions	n_{gesamt}	In the main beam		In the secondary beam		Dimensions	n
		[mm]		[mm]		$n_{90°}$	$n_{45°}$	$n_{90°}$	$n_{45°}$	[mm]	
944880	Magnus M 70 x 160	70 x 160 x 17	10	5,0 x 80	21	2	8	4	7	4,8 x 60	2

* 1 connector consists of 2 individual parts
a) D= assembly thickness
b) ilncluded in delivery

Art. no.	Name	Dimensions	Main beam		Secondary beam surface-mounted		Secondary beam flush-mounted				characteristic load-bearing capacity F_{Rk}[d]			
		B x H x T[a]	min. B_{HT}	min. H_{HT}	min. B_{NT}	min. H_{NT}	min. B_{NT}[b]	min. H_{NT}	W_F	D_F[c]	$F_{1,Rk}$	$F_{2,Rk}$	$F_{3,Rk}$	$F_{4,Rk}$
		[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[kN]	[kN]	[kN]	[kN]
944880	Magnus M 70 x 160	70 x 160 x 17	80	180	80	180	100	180	72	19	10,98	37,34	13,00	8,27

a) D= assembly thickness
b) Included in delivery
c) Recommended minimum width of the secondary beam with the connector flush-mounted
d) To make installation easier, it is advantageous to reduce the milling depth slightly, especially for larger wood dimensions.
e) Both beams softwood with a gross density of ρ_k= 380 kg/m³.
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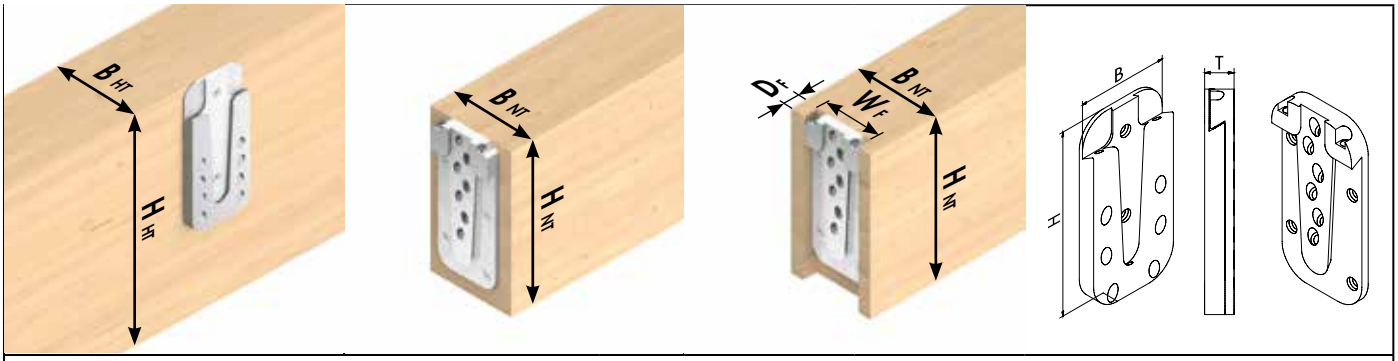
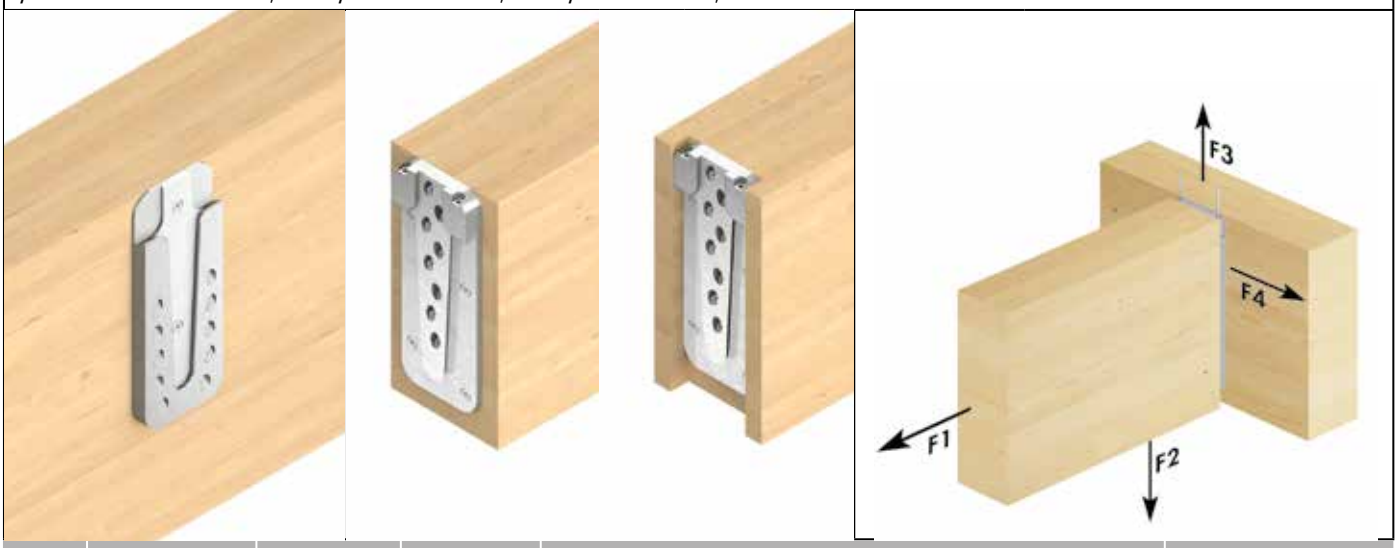
PRODUCT DATA SHEET

MAGNUS HOOK CONNECTOR

MAGNUS M 70 X 180



Symbolic illustrations: f.l.t.r. Main beam, secondary beam surface-mounted, secondary beam flush-mounted, connector dimensions



Art. no.	Name	Dimensions	PU*	Fully threaded screws[b)]						Fixing screws[b)]	
		B x H x T[a)]		Dimensions	n_{gesamt}	In the main beam		In the secondary beam		Dimensions	n
		[mm]		[mm]		$n_{90°}$	$n_{45°}$	$n_{90°}$	$n_{45°}$	[mm]	
944881	Magnus M 70 x 180	70 x 180 x 17	10	5,0 x 80	24	2	10	4	8	4,8 x 60	2

* 1 connector consists of 2 individual parts
a) D= assembly thickness
b) iIncluded in delivery

Art. no.	Name	Dimensions	Main beam		Secondary beam surface-mounted		Secondary beam flush-mounted				characteristic load-bearing capacity F_{Rk}[d)]			
		B x H x T[a)]	min. B_{HT}	min. H_{HT}	min. B_{NT}	min. H_{NT}	min. B_{NT}[b)]	min. H_{NT}	W_F	D_F[c)]	$F_{1,Rk}$	$F_{2,Rk}$	$F_{3,Rk}$	$F_{4,Rk}$
		[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[kN]	[kN]	[kN]	[kN]
944881	Magnus M 70 x 180	70 x 180 x 17	80	200	80	200	100	200	72	19	10,98	42,67	13,00	9,32

a) D= assembly thickness
b) Included in delivery
c) Recommended minimum width of the secondary beam with the connector flush-mounted
d) To make installation easier, it is advantageous to reduce the milling depth slightly, especially for larger wood dimensions.
e) Both beams softwood with a gross density of ρ_k= 380 kg/m³.
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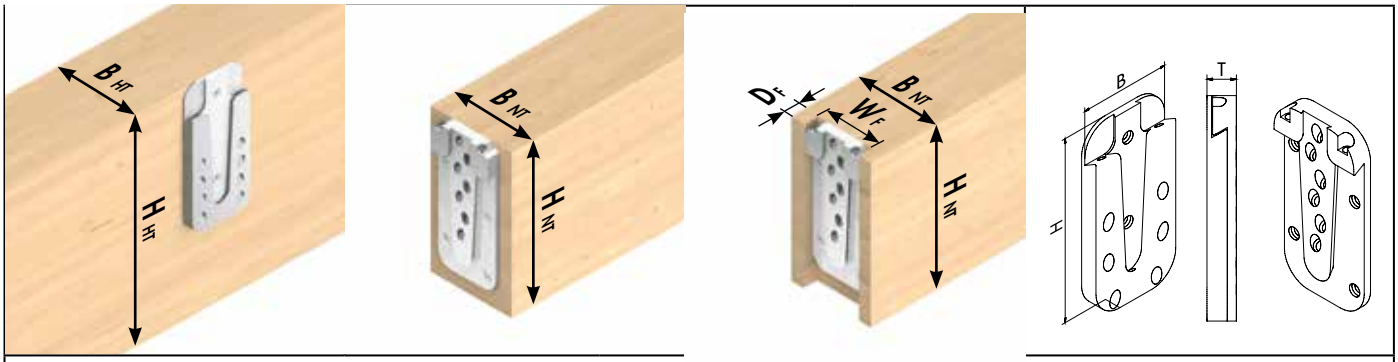
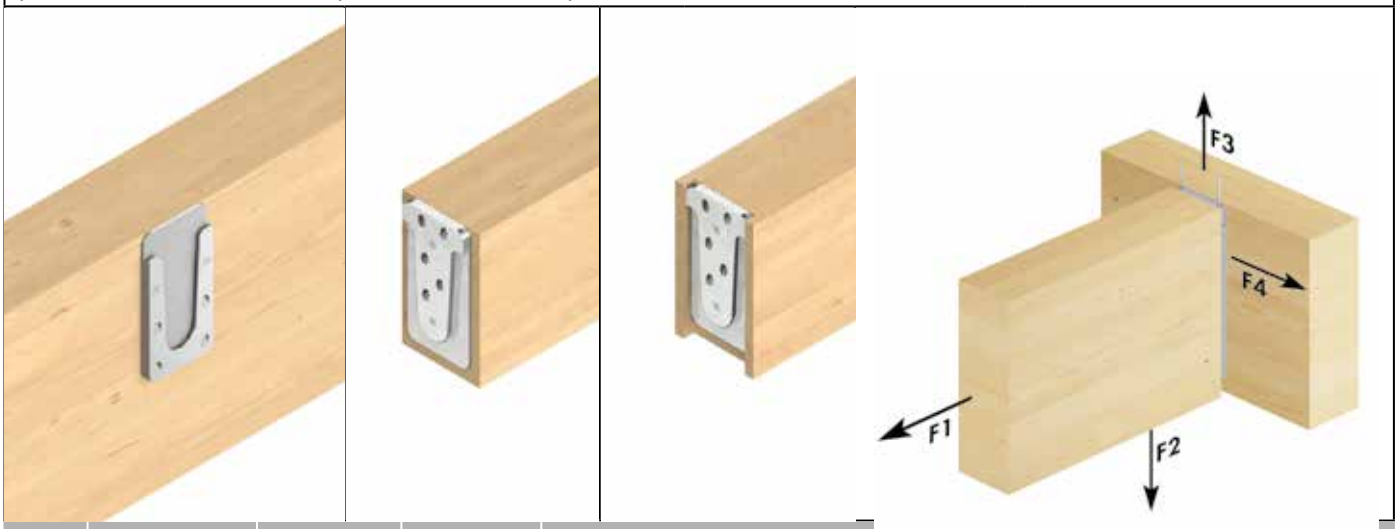
PRODUCT DATA SHEET

MAGNUS HOOK CONNECTOR

MAGNUS L 110 X 220



Symbolic illustrations: f.l.t.r. Main beam, secondary beam surface-mounted, secondary beam flush-mounted, connector dimensions



Art. no.	Name	Dimensions	PU*	Fully threaded screws[b]						Fixing screws[b]	
		B x H x T[a]		Dimensions	n_{gesamt}	In the main beam		In the secondary beam		Dimensions	n
		[mm]		[mm]		$n_{90°}$	$n_{45°}$	$n_{90°}$	$n_{45°}$	[mm]	
944882	Magnus L 110 x 220	110 x 220 x 19	4	8,0 x 120	13	2	4	2	5	4,8 x 60	2

* 1 connector consists of 2 individual parts
a) D= assembly thickness
b) included in delivery

Art. no.	Name	Dimensions	Main beam		Secondary beam surface-mounted		Secondary beam flush-mounted				characteristic load-bearing capacity F_{Rk}[d]			
		B x H x T[a]	min. B_{HT}	min. H_{HT}	min. B_{NT}	min. H_{NT}	min. B_{NT}[b]	min. H_{NT}	W_F	D_F[c]	$F_{1,Rk}$	$F_{2,Rk}$	$F_{3,Rk}$	$F_{4,Rk}$
		[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[kN]	[kN]	[kN]	[kN]
944882	Magnus L 110 x 220	110 x 220 x 19	120	240	120	240	140	240	112	21	9,29	36,10	23,00	13,96

a) D= assembly thickness
b) Included in delivery
c) Recommended minimum width of the secondary beam with the connector flush-mounted
d) To make installation easier, it is advantageous to reduce the milling depth slightly, especially for larger wood dimensions.
e) Both beams softwood with a gross density of ρ_k= 380 kg/m³.
The specified characteristic values of the load-bearing capacity F_{Rk} apply to the specified timber cross-sections, centred force application along the respective beam axis as well as connector installation flush with the top edge of the main and secondary beams. Calculation according to ETA 15/0761. All mechanical values provided should be viewed as subject to the assumptions that have been made and represent example calculations.
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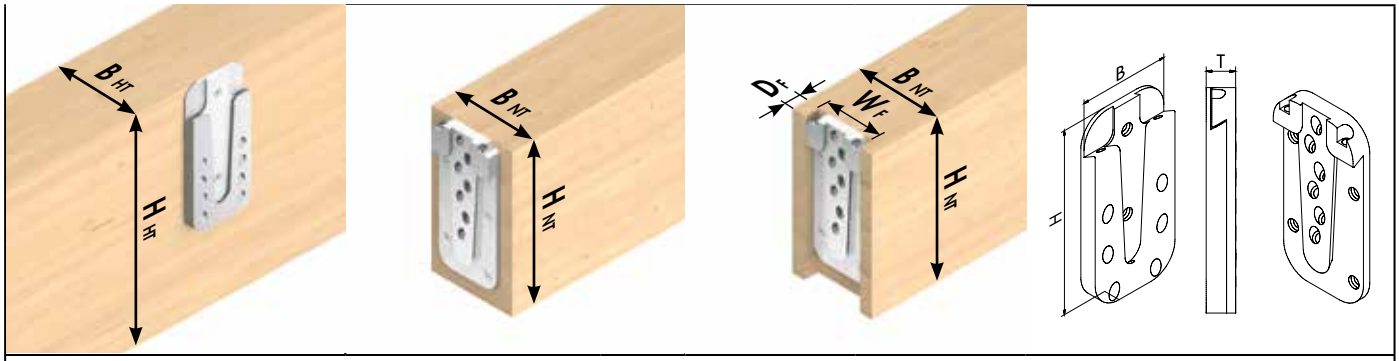
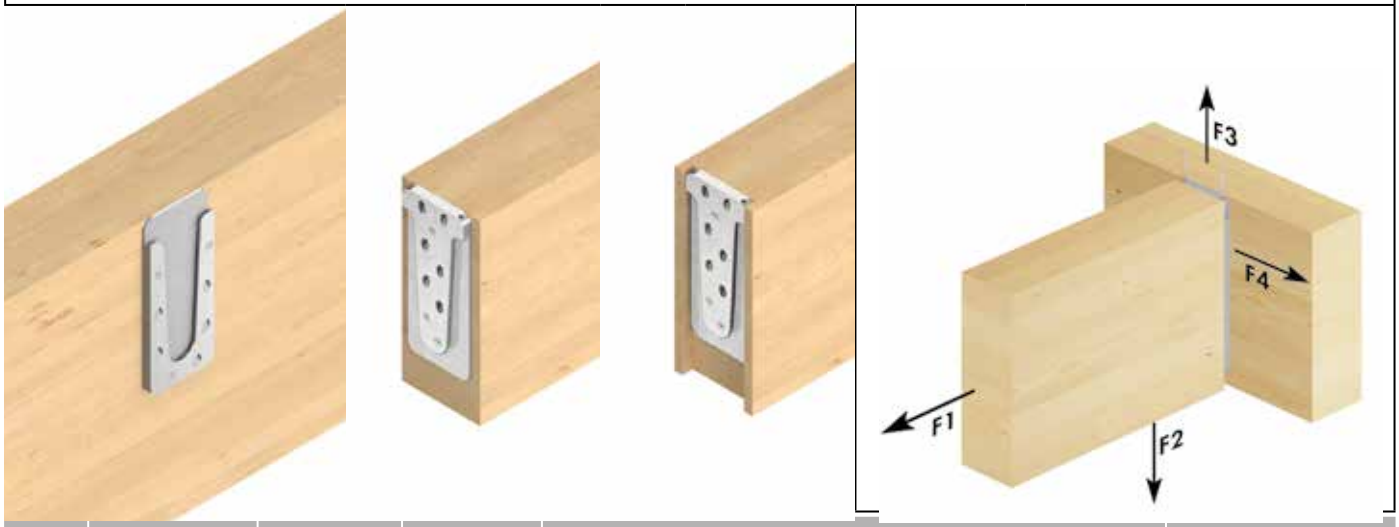
PRODUCT DATA SHEET

MAGNUS HOOK CONNECTOR

MAGNUS L 110 X 260



Symbolic illustrations: f.l.t.r. Main beam, secondary beam surface-mounted, secondary beam flush-mounted, connector dimensions



Art. no.	Name	Dimensions B x H x T[a)] [mm]	PU*	Fully threaded screws[b)] Dimensions [mm]	n_{gesamt}	In the main beam $n_{90°}$	In the main beam $n_{45°}$	In the secondary beam $n_{90°}$	In the secondary beam $n_{45°}$	Fixing screws[b)] Dimensions [mm]	Fixing screws[b)] n
944883	Magnus L 110 x 260	110 x 260 x 19	4	8,0 x 120	17	3	5	3	6	4,8 x 60	2

* 1 connector consists of 2 individual parts
a) D= assembly thickness
b) included in delivery

Art. no.	Name	Dimensions B x H x T[a)] [mm]	Main beam min. B_{HT} [mm]	Main beam min. H_{HT} [mm]	Secondary beam surface-mounted min. B_{NT} [mm]	Secondary beam surface-mounted min. H_{NT} [mm]	Secondary beam flush-mounted min. B_{NT}[b)] [mm]	Secondary beam flush-mounted min. H_{NT} [mm]	Secondary beam flush-mounted W_F [mm]	Secondary beam flush-mounted D_F[c)] [mm]	characteristic load-bearing capacity F_{Rk}[d)] $F_{1,Rk}$ [kN]	$F_{2,Rk}$ [kN]	$F_{3,Rk}$ [kN]	$F_{4,Rk}$ [kN]
944883	Magnus L 110 x 260	110 x 260 x 19	120	280	120	280	140	280	112	21	13,93	45,13	23,00	17,98

a) D= assembly thickness
b) Included in delivery
c) Recommended minimum width of the secondary beam with the connector flush-mounted
d) To make installation easier, it is advantageous to reduce the milling depth slightly, especially for larger wood dimensions.
e) Both beams softwood with a gross density of ρ_k= 380 kg/m³.
The specified characteristic values of the load-bearing capacity F_{Rk} apply to the specified timber cross-sections, centred force application along the respective beam axis as well as connector installation flush with the top edge of the main and secondary beams. Calculation according to ETA 15/0761. All mechanical values provided should be viewed as subject to the assumptions that have been made and represent example calculations.
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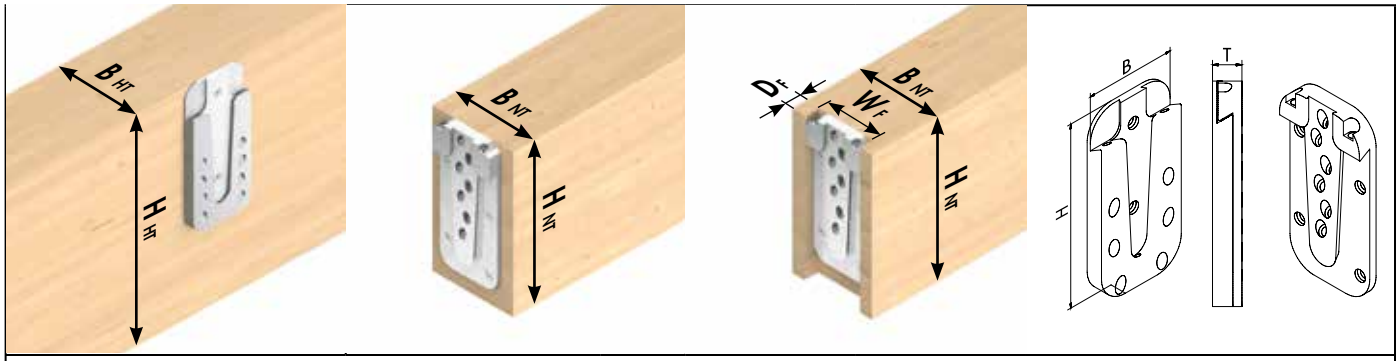
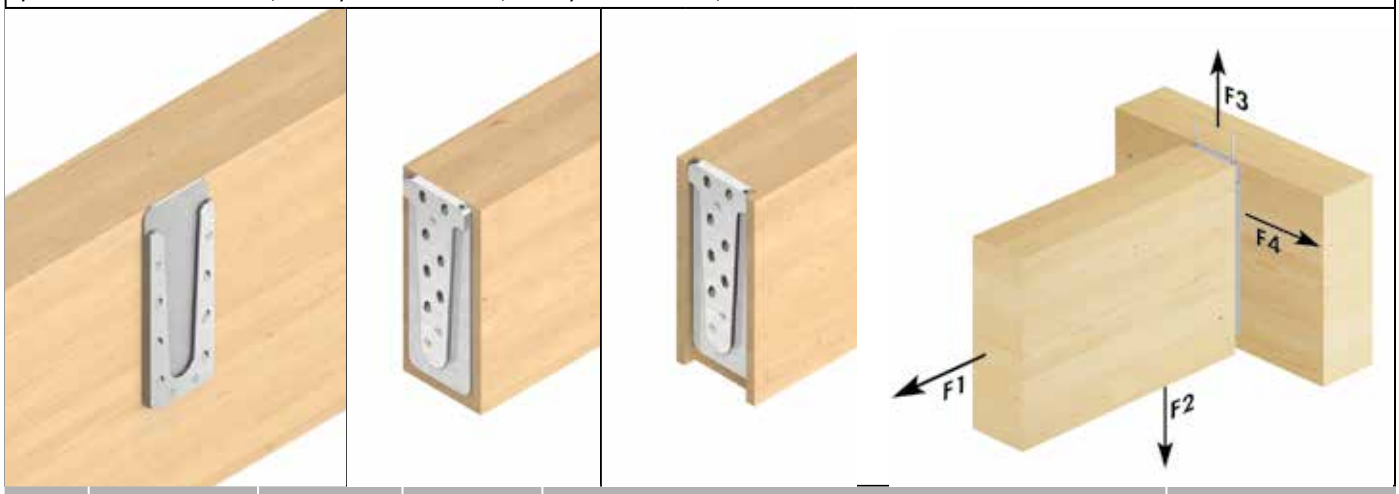
PRODUCT DATA SHEET

MAGNUS HOOK CONNECTOR

MAGNUS L 110 X 300



Symbolic illustrations: f.l.t.r. Main beam, secondary beam surface-mounted, secondary beam flush-mounted, connector dimensions



Art. no.	Name	Dimensions	PU*	Fully threaded screws[b]						Fixing screws[b]	
		B x H x T[a]		Dimensions	n_{gesamt}	In the main beam		In the secondary beam		Dimensions	n
		[mm]		[mm]		$n_{90°}$	$n_{45°}$	$n_{90°}$	$n_{45°}$	[mm]	
944884	Magnus L 110 x 300	110 x 300 x 19	4	8,0 x 120	20	4	6	3	7	4,8 x 60	2

* 1 connector consists of 2 individual parts
a) D= assembly thickness
b) iIncluded in delivery

Art. no.	Name	Dimensions	Main beam		Secondary beam surface-mounted		Secondary beam flush-mounted				characteristic load-bearing capacity F_{Rk}[d]			
		B x H x T[a]	min. B_{HT}	min. H_{HT}	min. B_{NT}	min. H_{NT}	min. B_{NT}[b]	min. H_{NT}	W_F	D_F[c]	$F_{1,Rk}$	$F_{2,Rk}$	$F_{3,Rk}$	$F_{4,Rk}$
		[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[kN]	[kN]	[kN]	[kN]
944884	Magnus L 110 x 300	110 x 300 x 19	120	320	120	320	140	320	112	21	13,93	54,15	23,00	20,56

a) D= assembly thickness
b) Included in delivery
c) Recommended minimum width of the secondary beam with the connector flush-mounted
d) To make installation easier, it is advantageous to reduce the milling depth slightly, especially for larger wood dimensions.
e) Both beams softwood with a gross density of ρ_k= 380 kg/m³.
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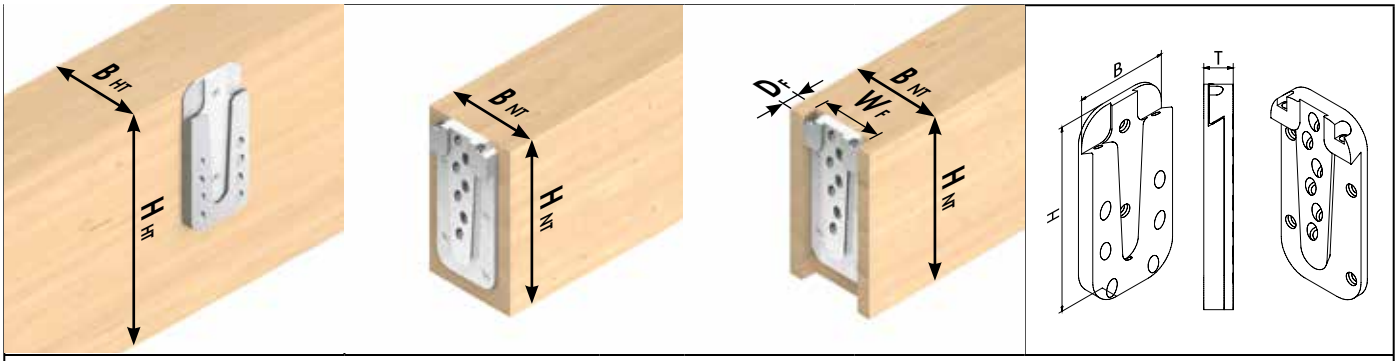
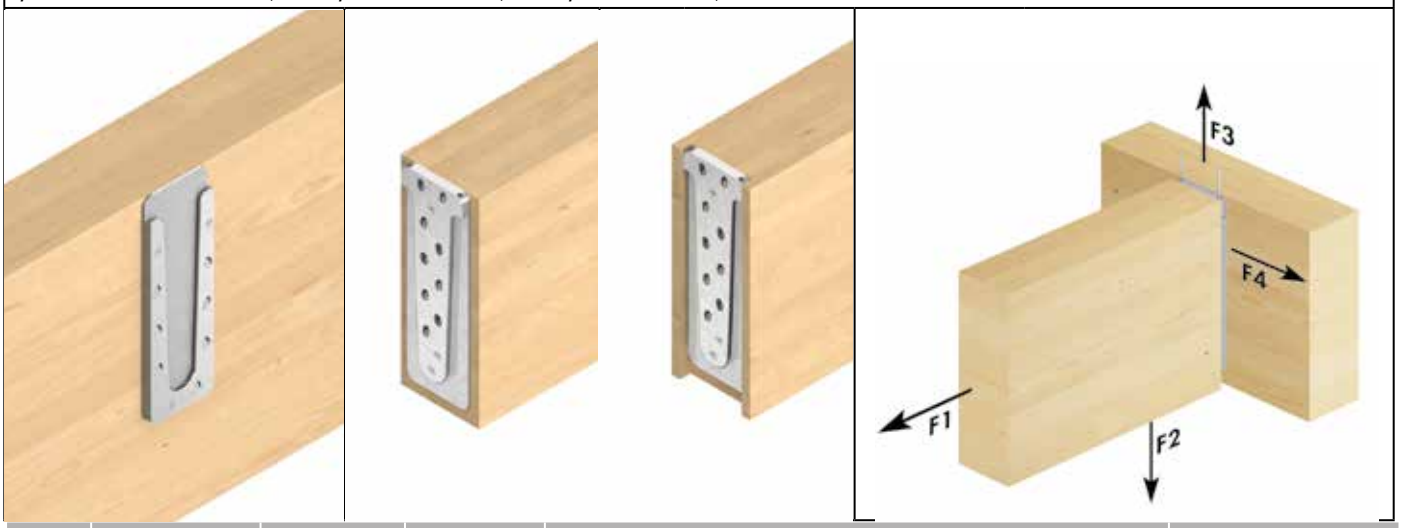
PRODUCT DATA SHEET

MAGNUS HOOK CONNECTOR

MAGNUS L 110 X 340



Symbolic illustrations: f.l.t.r. Main beam, secondary beam surface-mounted, secondary beam flush-mounted, connector dimensions



Art. no.	Name	Dimensions B x H x T[a)] [mm]	PU*	Fully threaded screws[b)] Dimensions [mm]	n_{gesamt}	In the main beam $n_{90°}$	In the main beam $n_{45°}$	In the secondary beam $n_{90°}$	In the secondary beam $n_{45°}$	Fixing screws[b)] Dimensions [mm]	Fixing screws[b)] n
944887	Magnus L 110 x 340	110 x 340 x 19	4	8,0 x 120	22	3	7	3	9	4,8 x 60	2

* 1 connector consists of 2 individual parts
a) D= assembly thickness
b) iIncluded in delivery

Art. no.	Name	Dimensions B x H x T[a)] [mm]	Main beam min. B_{HT} [mm]	Main beam min. H_{HT} [mm]	Secondary beam surface-mounted min. B_{NT} [mm]	Secondary beam surface-mounted min. H_{NT} [mm]	Secondary beam flush-mounted min. B_{NT}[b)] [mm]	Secondary beam flush-mounted min. H_{NT} [mm]	Secondary beam flush-mounted W_F [mm]	Secondary beam flush-mounted D_F[c)] [mm]	characteristic load-bearing capacity F_{Rk}[d)] $F_{1,Rk}$ [kN]	$F_{2,Rk}$ [kN]	$F_{3,Rk}$ [kN]	$F_{4,Rk}$ [kN]
944887	Magnus L 110 x 340	110 x 340 x 19	120	360	120	360	140	360	112	21	13,93	63,18	23,00	24,67

a) D= assembly thickness
b) Included in delivery
c) Recommended minimum width of the secondary beam with the connector flush-mounted
d) To make installation easier, it is advantageous to reduce the milling depth slightly, especially for larger wood dimensions.
e) Both beams softwood with a gross density of ρ_k= 380 kg/m³.
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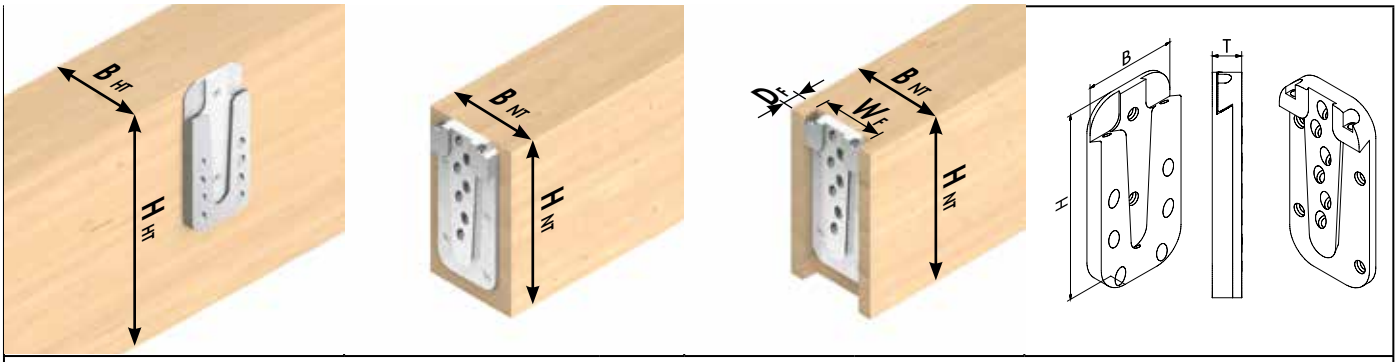
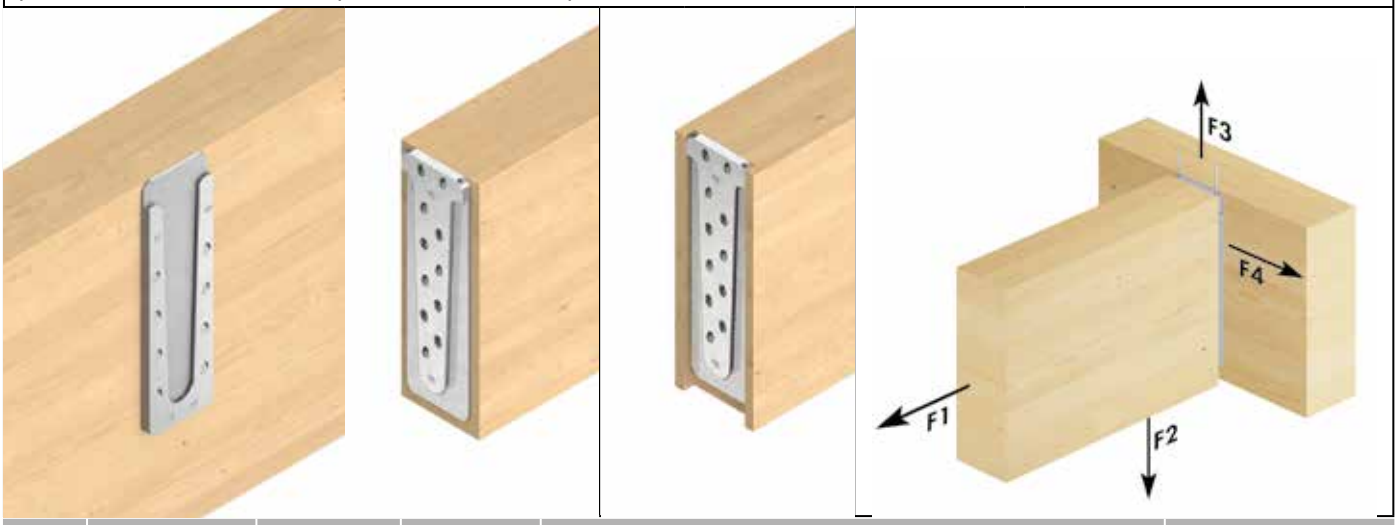
PRODUCT DATA SHEET

MAGNUS HOOK CONNECTOR

MAGNUS L 110 X 380



Symbolic illustrations: f.l.t.r. Main beam, secondary beam surface-mounted, secondary beam flush-mounted, connector dimensions



Art. no.	Name	Dimensions	PU*	Fully threaded screws[b)]						Fixing screws[b)]	
		B x H x T[a)]		Dimensions	n_{gesamt}	In the main beam		In the secondary beam		Dimensions	n
		[mm]		[mm]		$n_{90°}$	$n_{45°}$	$n_{90°}$	$n_{45°}$	[mm]	
944888	Magnus L 110 x 380	110 x 380 x 19	4	8,0 x 120	25	4	8	2	11	4,8 x 60	2

* 1 connector consists of 2 individual parts
a) D= assembly thickness
b) ilncluded in delivery

Art. no.	Name	Dimensions	Main beam		Secondary beam surface-mounted		Secondary beam flush-mounted				characteristic load-bearing capacity F_{Rk}[d)]			
		B x H x T[a)]	min. B_{HT}	min. H_{HT}	min. B_{NT}	min. H_{NT}	min. B_{NT}[b)]	min. H_{NT}	W_F	D_F[c)]	$F_{1,Rk}$	$F_{2,Rk}$	$F_{3,Rk}$	$F_{4,Rk}$
		[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[kN]	[kN]	[kN]	[kN]
944888	Magnus L 110 x 380	110 x 380 x 19	120	400	120	400	140	400	112	21	9,29	72,20	23,00	26,96

a) D= assembly thickness
b) Included in delivery
c) Recommended minimum width of the secondary beam with the connector flush-mounted
d) To make installation easier, it is advantageous to reduce the milling depth slightly, especially for larger wood dimensions.
e) Both beams softwood with a gross density of ρ_k= 380 kg/m³.
The specified characteristic values of the load-bearing capacity F_{Rk} apply to the specified timber cross-sections, centred force application along the respective beam axis as well as connector installation flush with the top edge of the main and secondary beams. Calculation according to ETA 15/0761. All mechanical values provided should be viewed as subject to the assumptions that have been made and represent example calculations.
All values are calculated minimum values and are subject to typographical and printing errors.
The characteristic values of the load-bearing capacity F_{Rk} should not be treated as equivalent to the max. possible load (the max. force). The characteristic values of the load-bearing capacity F_{Rk} should be reduced to the design values F_{Rd} in terms of the service class and the load duration class: $F_{Rd} = F_{Rk} \times k_{mod} / \gamma_M$.

Please note: These are planning aids. Projects must only be calculated by authorised persons.

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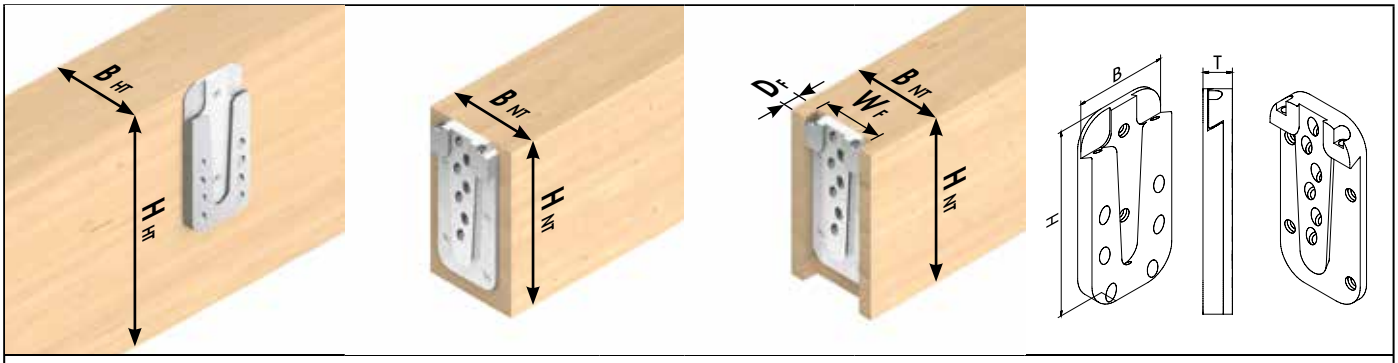
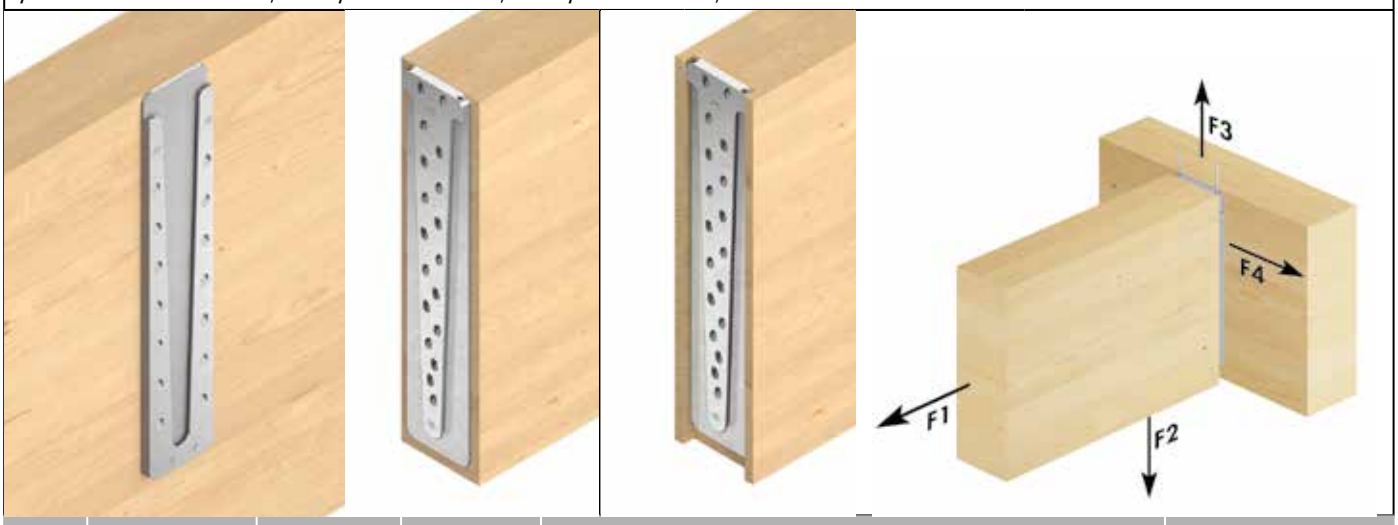
PRODUCT DATA SHEET

MAGNUS HOOK CONNECTOR

MAGNUS L 110 X 580



Symbolic illustrations: f.l.t.r. Main beam, secondary beam surface-mounted, secondary beam flush-mounted, connector dimensions



Art. no.	Name	Dimensions B x H x T[a)] [mm]	PU*	Fully threaded screws[b)] Dimensions [mm]	n_{gesamt}	In the main beam $n_{90°}$	In the main beam $n_{45°}$	In the secondary beam $n_{90°}$	In the secondary beam $n_{45°}$	Fixing screws[b)] Dimensions [mm]	Fixing screws[b)] n
944889	Magnus L 110 x 580	110 x 580 x 19	4	8,0 x 120	38	4	14	2	18	4,8 x 60	2

* 1 connector consists of 2 individual parts
a) D= assembly thickness
b) iIncluded in delivery

Art. no.	Name	Dimensions B x H x T[a)] [mm]	Main beam min. B_{HT} [mm]	Main beam min. H_{HT} [mm]	Secondary beam surface-mounted min. B_{NT} [mm]	Secondary beam surface-mounted min. H_{NT} [mm]	Secondary beam flush-mounted min. B_{NT}[b)] [mm]	Secondary beam flush-mounted min. H_{NT} [mm]	Secondary beam flush-mounted W_F [mm]	Secondary beam flush-mounted D_F[c)] [mm]	characteristic load-bearing capacity F_{Rk}[d)] $F_{1,Rk}$ [kN]	$F_{2,Rk}$ [kN]	$F_{3,Rk}$ [kN]	$F_{4,Rk}$ [kN]
944889	Magnus L 110 x 580	110 x 580 x 19	120	600	120	600	140	600	112	21	9,29	126,35	23,00	43,29

a) D= assembly thickness
b) Included in delivery
c) Recommended minimum width of the secondary beam with the connector flush-mounted
d) To make installation easier, it is advantageous to reduce the milling depth slightly, especially for larger wood dimensions.
e) Both beams softwood with a gross density of ρ_k= 380 kg/m³.
The specified characteristic values of the load-bearing capacity F_{Rk} apply to the specified timber cross-sections, centred force application along the respective beam axis as well as connector installation flush with the top edge of the main and secondary beams. Calculation according to ETA 15/0761. All mechanical values provided should be viewed as subject to the assumptions that have been made and represent example calculations.
All values are calculated minimum values and are subject to typographical and printing errors.
The characteristic values of the load-bearing capacity F_{Rk} should not be treated as equivalent to the max. possible load (the max. force). The characteristic values of the load-bearing capacity F_{Rk} should be reduced to the design values F_{Rd} in terms of the service class and the load duration class: $F_{Rd} = F_{Rk} \times k_{mod} / \gamma_M$.

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