PRODUCT DATA SHEET

IIDEEFIX WOOD CONNECTORS

PRODUCT DESCRIPTION

The Idee***Fix*** wood connector is used to **create hidden wood connections** for single- or multiple-row serial connections in wood-wood connections. It ensures **high load-bearing capacity** for tensile and transverse forces, is designed for universal use and is **quick and easy to mount.**

ADVANTAGES

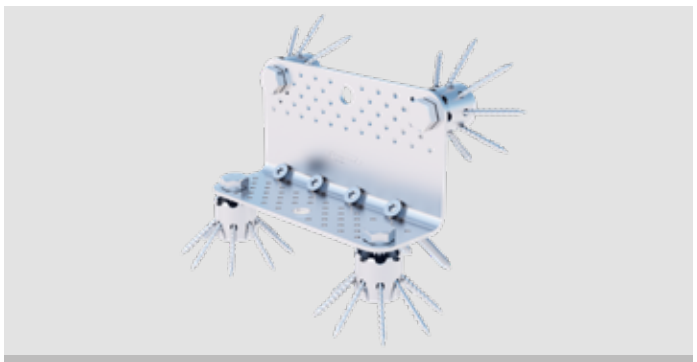
- High load-bearing capacity for tensile and transverse loads
- Adjustable tension/detachable
- Universal application
- Low wood-weakening effect
- For single- or multi-row series connections
- High pull-out resistance
- Strong connection
- Maximisation of the load-bearing capacity
- Time and cost-saving alternative
- Concealed connections
- No pre-drilling required for screwed according to approval/ETA (recommended for screw lengths > 245 mm)

NOTE

Only for use in timber structures in service class 1 and 2 (protected from direct weathering).
The screws are included in the scope of delivery

IMAGES OF APPLICATIONS

Application of Idee***Fix*** to connect the support and beam girder.



System angle CLT with Idee***Fix***

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APPROVAL

- Regulated by European Technical Assessment ETA-14/0160

PRODUCT TABLE

Art. no.	Designation	Diameter/Height [mm]	PU
945390	Idee***Fix*** 30 wood connector	30	25
944890	Idee***Fix*** 40 wood connector	40	25
944896	Idee***Fix*** 50 wood connector	50	25

INSTRUCTIONS FOR USE

Pre-drill the wood for the Idee***Fix***. Then insert the Idee***Fix*** into the drill hole without screws. Then, thanks to the low splitting effect of the screws, you can insert them without further pre-drilling. In the middle of the Idee***Fix*** is a thread in which another screw can be inserted.

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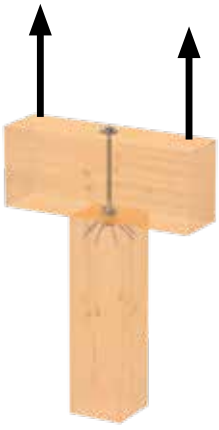
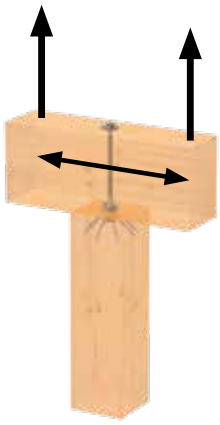
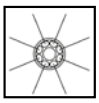
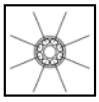
TECHNICAL INFORMATION





Idee*Fix*			Timber Dimensions		Tension connection with anti-twist element		Mortise joint with anti-twist element		Tensile load with threaded bolt		
Dimensions [mm]			Min. cross section post		Drilling depth for post	Drilling depth for cross-piece	Drilling depth for post	Drilling depth for cross-piece	Perm. Values	Char. Values	Screw pattern
d_c	a_g	v_c	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	$N_{ze.}$ [kN]	$R_{1,1,k}$ [kN]	pc.
30	M12	3	80	80	27	-	20	7	7,62	17,33	
40	M16	5	120	120	35	-	25	10	12,65	28,79	
50	M20	5	160	160	45	-	30	15	20,81	47,35	
30	M12	3	60	80	27	-	20	7	5,71	13,00	
40	M16	5	80	120	35	-	25	10	9,49	21,59	
50	M20	5	120	160	45	-	30	15	15,61	35,51	
30	M12	3	40	80	27	-	20	7	3,81	8,67	
40	M16	5	60	120	35	-	25	10	6,33	14,39	
50	M20	5	80	160	45	-	30	15	10,41	23,67	
30	M12	3	60	60	27	-	20	7	3,81	8,67	
40	M16	5	80	80	35	-	25	10	6,33	14,39	
50	M20	5	120	120	45	-	30	15	10,41	23,67	

d_c is the diameter and the total height of the connector
a_g is the metric connection thread of the connector
v_c is the height of the integrated anti-twist system
Fully threaded screw, GoFix® FK IF 30 5,0 x 40 mm - IF 40 6,0 x 60 mm - IF 50 8,0 x 90 mm
The connection is drawn together using a threaded rod or construction screw with a DIN 440 R washer
Tension connection as a mortise joint with simultaneous absorption of transverse forces
R_k characteristic value calculated according to DIN 1052:2004-08 Timber p_k 380 kg/m³ Nze. recommended permissible load R_k x 0,8 k_{mod} : 1,3 ym : 1,4. Factor 1,4 average load safety factor

Please note: The stated values are planning aids. Projects must only be calculated by authorised persons.

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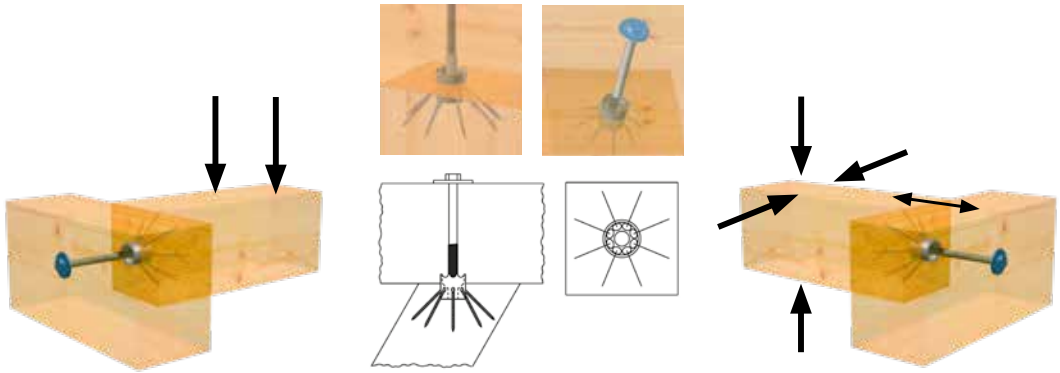
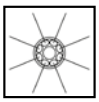
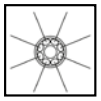
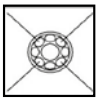
IIDEEFIX WOOD CONNECTORS

MAIN-SECONDARY BEAM



IdeeFix			Timber Dimensions		Timber Dimensions		Main–secondary beam with anti-twist element		Load-bearing capacity with threaded bolt		
Dimensions [mm]			Min. cross section of secondary beam		Min. cross section of main beam		Drilling depth for SB	Drilling depth for MB	Perm. Values	Char. Values	Screw pattern
d_c	a_g	v_c	w [mm]	h [mm]	w [mm]	h [mm]	[mm]	[mm]	$V_{ze.}$ [kN]	$R_{23,k}$ [kN]	pc.
30	M12	3	80	80	80	80	20	7	4,32	8,94	
40	M16	5	120	120	120	120	25	10	6,98	14,66	
50	M20	5	160	160	160	160	30	15	10,88	21,09	
30	M12	3	60	80	60	80	20	7	3,50	7,97	
40	M16	5	80	120	80	120	25	10	5,63	12,80	
50	M20	5	120	160	120	160	30	15	8,65	19,68	
30	M12	3	40	80	40	80	20	7	3,50	7,97	
40	M16	5	60	120	60	120	25	10	5,63	12,80	
50	M20	5	80	160	80	160	30	15	8,65	19,68	
30	M12	3	60	60	60	60	20	7	3,50	7,97	
40	M16	5	80	80	80	80	25	10	5,63	12,80	
50	M20	5	120	120	120	120	30	15	8,65	19,68	

d_c is the diameter and the total height of the connector
a_g is the metric connection thread of the connector
v_c is the height of the integrated anti-twist system
System – Fully threaded screw, GoFix® FK IF 30 5,0 x 40 mm - IF 40 6,0 x 60 mm - IF 50 8,0 x 90 mm
The connection is drawn together using a threaded rod or construction screw with a DIN 440 R washer
MB–SB connection as a mortise joint with simultaneous absorption of tensile forces
R_k characteristic value calculated according to DIN 1052:2004-08 Timber p_k 380 kg/m³ Nze. recommended permissible load R_k x 0,8 k_{mod} : 1,3 ym : 1,4. Factor 1,4 average load safety factor



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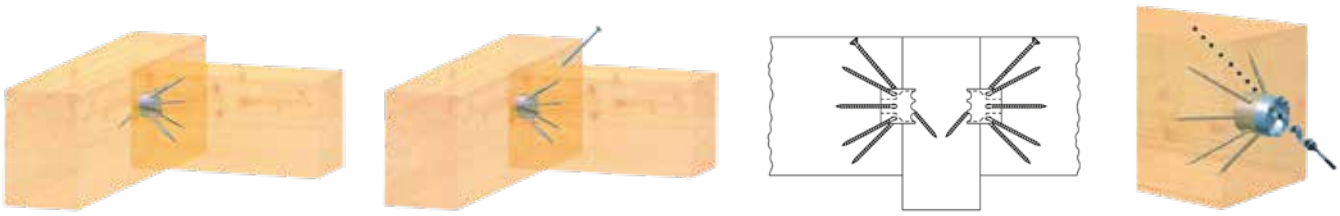
IIDEEFIX WOOD CONNECTORS

MAIN-SECONDARY BEAM, DOUBLE-SIDED CONNECTION, WITH FIXING SCREW



Idee*Fix*			Timber Dimensions		Timber Dimensions		Main–secondary beam with anti-twist element		Load-bearing capacity with threaded bolt		
Dimensions [mm]			Min. cross section of secondary beam		Min. cross section of main beam		Drilling depth for SB	Drilling depth for MB	Perm. Values	Char. Values	Screw pattern
d_c	a_g	v_c	w [mm]	h [mm]	w [mm]	h [mm]	[mm]	[mm]	$V_{ze.}$ [kN]	$R_{23,k}$ [kN]	pc.
30	M12	3	80	80	80	80	20	10	2,34	5,32	
40	M16	5	120	120	120	120	25	15	3,60	8,19	
50	M20	5	160	160	160	160	30	20	5,03	11,44	
30	M12	3	60	80	60	80	20	10	2,34	5,32	
40	M16	5	80	120	80	120	25	15	3,60	8,19	
50	M20	5	120	160	120	160	30	20	5,03	11,44	
30	M12	3	40	80	40	80	20	10	2,34	5,32	
40	M16	5	60	120	60	120	25	15	3,60	8,19	
50	M20	5	80	160	80	160	30	20	5,03	11,44	
30	M12	3	60	60	60	60	20	10	2,34	5,32	
40	M16	5	80	80	80	80	25	15	3,60	8,19	
50	M20	5	120	120	120	120	30	20	5,03	11,44	

d_c is the diameter and the total height of the connector
a_g is the metric connection thread of the connector
v_c is the height of the integrated anti-twist system
System – Fully threaded screw, GoFix® FK IF 30 5,0 x 40 mm - IF 40 6,0 x 60 mm - IF 50 8,0 x 90 mm
Position retention using GoFix® SK IF 30 5,0 x 100 mm, IF 40 6,0 x 140 mm, IF 50 8,0 x 160 mm
MB–SB connection as mortise joint for double-sided connection of secondary beam
R_k characteristic value calculated according to DIN 1052:2004-08 Timber p_k 380 kg/m³ Nze. recommended permissible load R_k x 0,8 k_{mod} : 1,3 ym : 1,4. Favtor 1,4 average load safety factor

Please note: The stated values are planning aids. Projects must only be calculated by authorised persons.

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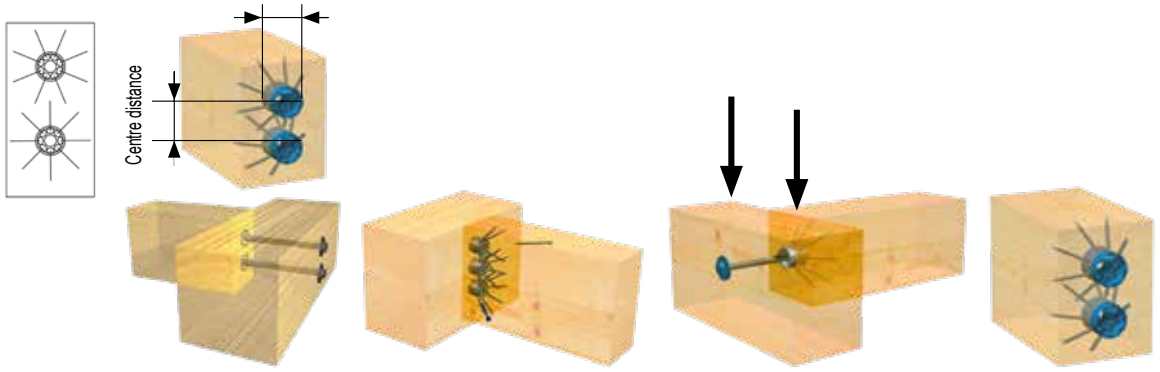
IIDEEFIX WOOD CONNECTORS

MAIN-SECONDARY BEAM MULTIPLE CONNECTION, SINGLE-ROW



Idee*Fix*			Timber Dimensions		Edge and centre distance		Main–secondary beam Multiple connection		Load-bearing capacity Single-row		
Dimensions [mm]			Min. cross section of secondary beam		Edge distance	Centre distance	Drilling depth for SB	Drilling depth for MB	Perm. Values	Char. Values	Number of Connectors
d_c	a_g	v_c	w [mm]	h [mm]	[mm]	[mm]	[mm]	[mm]	$V_{ze.}$ [kN]	$R_{23,k}$ [kN]	pc.
30	M12	3	80	80	50	50	20	7	4,32	8,94	1
40	M16	5	120	120	60	60	25	10	6,98	14,66	1
50	M20	5	160	160	80	80	30	15	10,88	21,09	1
30	M12	3	80	150	50	50	20	10	8,64	17,88	2
40	M16	5	120	180	60	60	25	15	13,96	29,32	2
50	M20	5	160	240	80	80	30	20	21,76	42,18	2
30	M12	3	80	200	50	50	20	10	12,96	26,82	3
40	M16	5	120	240	60	60	25	15	20,94	43,98	3
50	M20	5	160	320	80	80	30	20	32,64	63,27	3
30	M12	3	80	250	50	50	20	10	17,28	35,76	4
40	M16	5	120	300	60	60	25	15	27,92	58,64	4
50	M20	5	160	400	80	80	30	20	43,52	84,36	4
30	M12	3	80	300	50	50	20	10	21,60	44,70	5
40	M16	5	120	360	60	60	25	15	34,90	73,30	5
50	M20	5	160	480	80	80	30	20	54,40	105,45	5
30	M12	3	80	350	50	50	20	10	25,92	53,64	6
40	M16	5	120	420	60	60	25	15	41,88	87,96	6
50	M20	5	160	560	80	80	30	20	65,28	126,54	6
30	M12	3	80	400	50	50	20	10	30,24	62,58	7
40	M16	5	120	480	60	60	25	15	48,86	102,62	7
50	M20	5	160	640	80	80	30	20	76,16	117,63	7
30	M12	3	80	450	50	50	20	10	34,56	71,52	8
40	M16	5	120	540	60	60	25	15	55,84	117,28	8
50	M20	5	160	720	80	80	30	20	87,04	168,72	8

d_c is the diameter and the total height of the connector
a_g is the metric connection thread of the connector
v_c is the height of the integrated anti-twist system – Fully threaded screw, GoFix® FK
IF 30 5,0 x 40 mm - IF 40 6,0 x 60 mm - IF 50 8,0 x 90 mm
The connection is drawn together using a threaded rod or constructionscrew with a DIN 440 R washer
MB–SB connection as a mortise joint with simultaneous absorption of tensile forces
R_k characteristic value calculated according to DIN 1052:2004-08 Timber p_k 380 kg/m³ Nze. recommended permissible load R_k x 0,8 k_{mod} : 1,3 ym : 1,4. Favtor 1,4 average load safety factor

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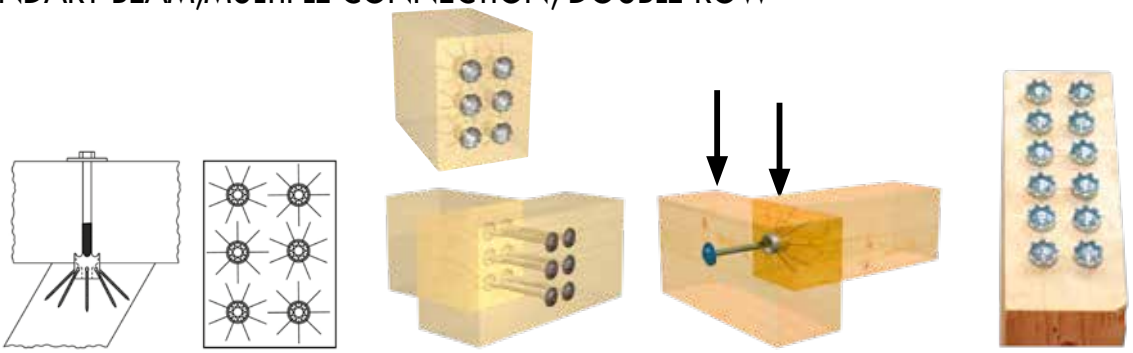
MAIN-SECONDARY BEAM;MULTIPLE CONNECTION, DOUBLE-ROW



Idee*Fix*			Timber Dimensions		Edge and centre distance		Main–secondary beam Multiple connection		Load-bearing capacity Single-row		
Dimensions [mm]			Min. cross section of secondary beam		Edge distance	Centre distance	Drilling depth for SB	Drilling depth for MB	Perm. Values	Char. Values	Number of connectors
d_c	a_g	v_c	w [mm]	h [mm]	[mm]	[mm]	[mm]	[mm]	$V_{ze.}$ [kN]	$R_{23,k}$ [kN]	pc.
30	M12	3	150	80	50	50	20	10	8,64	17,88	2
40	M16	5	180	120	60	60	25	15	13,96	29,32	2
50	M20	5	240	160	80	80	30	20	21,76	42,18	2
30	M12	3	150	150	50	50	20	10	17,28	35,76	4
40	M16	5	180	180	60	60	25	15	27,92	58,64	4
50	M20	5	240	240	80	80	30	20	43,52	84,36	4
30	M12	3	150	200	50	50	20	10	25,92	53,64	6
40	M16	5	180	240	60	60	25	15	41,88	87,96	6
50	M20	5	240	320	80	80	30	20	65,28	126,54	6
30	M12	3	150	250	50	50	20	10	34,56	71,52	8
40	M16	5	180	300	60	60	25	15	55,84	117,28	8
50	M20	5	240	400	80	80	30	20	87,04	168,72	8
30	M12	3	150	300	50	50	20	10	43,20	89,40	10
40	M16	5	180	360	60	60	25	15	69,80	146,60	10
50	M20	5	240	480	80	80	30	20	108,80	210,90	10
30	M12	3	150	350	50	50	20	10	51,84	107,28	12
40	M16	5	180	420	60	60	25	15	83,76	175,92	12
50	M20	5	240	560	80	80	30	20	130,56	253,08	12
30	M12	3	150	400	50	50	20	10	60,48	125,16	14
40	M16	5	180	480	60	60	25	15	97,72	205,24	14
50	M20	5	240	640	80	80	30	20	152,32	295,26	14
30	M12	3	150	450	50	50	20	10	69,12	143,04	16
40	M16	5	180	540	60	60	25	15	111,68	234,56	16
50	M20	5	240	720	80	80	30	20	174,08	337,44	16

d_c is the diameter and the total height of the connector
a_g is the metric connection thread of the connector
v_c is the height of the integrated anti-twist system
Fully threaded screw, GoFix® FK IF 30 5,0 x 40 mm - IF 40 6,0 x 60 mm - IF 50 8,0 x 90 mm
The connection is drawn together using a threaded rod or constructionscrew with a DIN 440 R washer
MB–SB connection as a mortise joint with simultaneous absorption of tensile forces
R_k characteristic value calculated according to DIN 1052:2004-08 Timber p_k 380 kg/m³ Nze. recommended permissible load R_k x 0,8 k_{mod} : 1,3 ym : 1,4. Factor 1,4 average load safety factor

Please note: The stated values are planning aids. Projects must only be calculated by authorised persons.

If you are not familiar with how this product is used, and particularly with the product's intended use, please contact our Application Technology department (technik@eurotec.team).

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