

IdeeFix

Hidden wood connector



What can it be used for?

- As a hidden timber connection
- For wood / wood connections
- Hidden connector for making joints between the column and beam or main and secondary beam and the steel plate and beam

Advantages

- High load absorption for tensile and transverse loads
- Adjustable tension/detachable
- Universal application
- Low wood-weakening effect
- For single- or multiple-row serial connections

Assembly

- Quick and easy installation
- Comes supplied with system screws
- See graphic on page 165



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IdeeFix 30



Art. no.	Diameter/Height [mm]	PU
945390	30	25
Incl. fully threaded screws 5,0 x 40 mm		

IdeeFix 40



Art. no.	Diameter/Height [mm]	PU
944890	40	25
Incl. fully threaded screws 6,0 x 60 mm		

IdeeFix 50



Art. no.	Diameter/Height [mm]	PU
944896	50	25
Incl. fully threaded screws 8,0 x 90 mm		

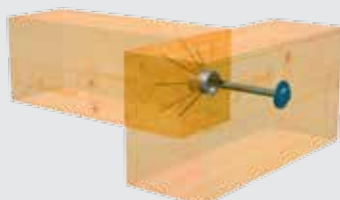
1 Drill



2 Insert and install supplied screws

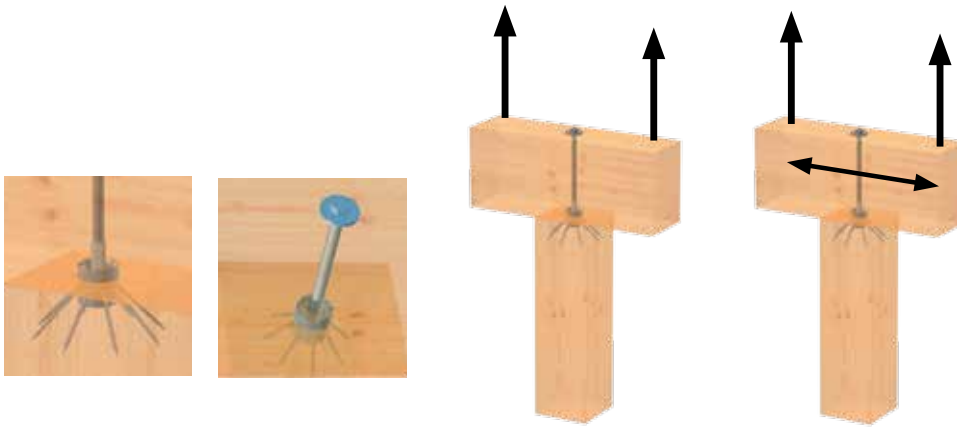


3 Fix construction in place with construction screws – and THAT'S IT!



IdeeFix 30/40/50

Technical information



IdeeFix			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_{26} [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

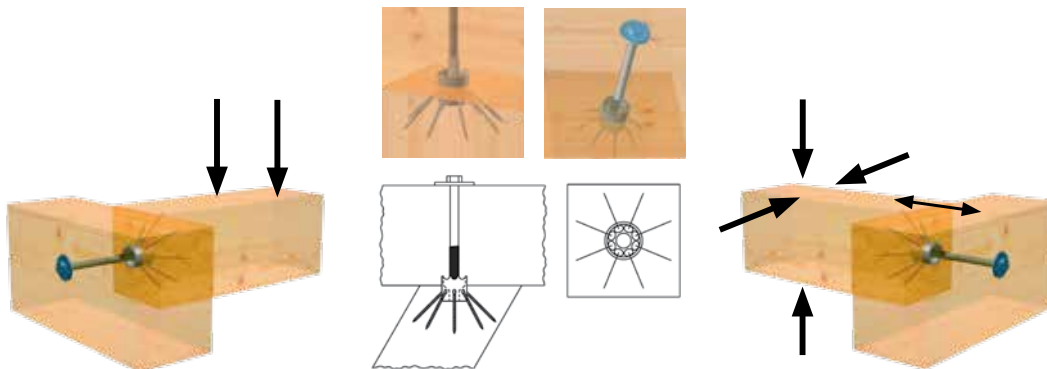
The connection is drawn together using a threaded rod or construction screw with a DIN 440 R washer

Tension connection as a mortise joint with simultaneous absorption of transverse forces

R_k characteristic value calculated according to DIN 1052:2004-08 Holz p_k 380 kg/m³ Nze. recommended permissible load $R_k \times 0,8 k_{mod} : 1,3 \text{ ym} : 1,4$. Factor 1,4 average load safety factor

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

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

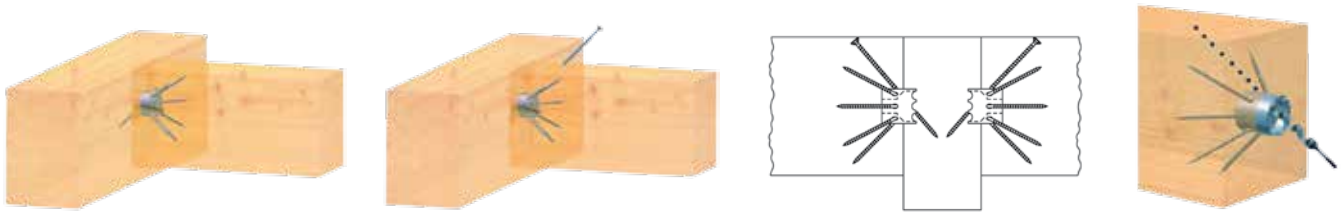
The connection is drawn together using a threaded rod or construction screw with a DIN 440 R washer

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 $R_k \times 0,8 k_{mod}$: 1,3 ym : 1,4. Factor 1,4 average load safety factor

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Main/Secondary beam, double-sided connection, with fixing screw



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_{z_b} [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

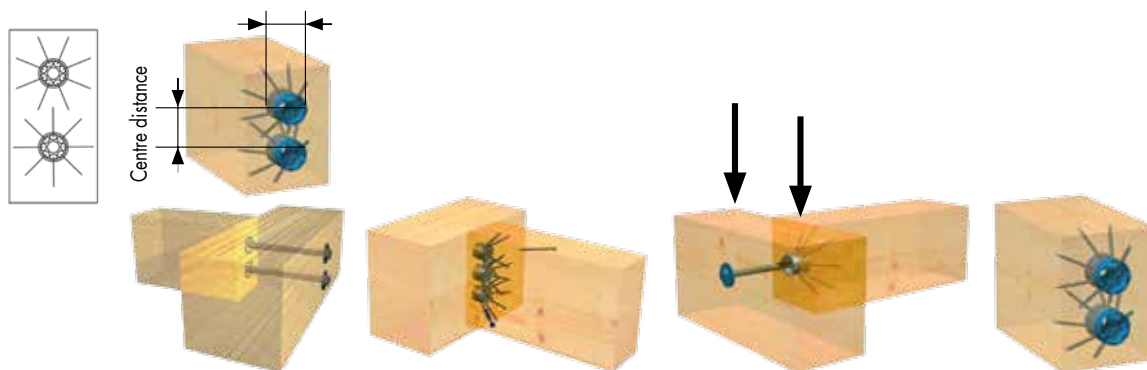
Position retention using GoFix® SK IF 30 5,0 x 100 mm, IF 40 6,0 x 140 mm, IF 50 8,0 x 160 mm

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 ρ_k 380 kg/m³ Nze. recommended permissible load $R_k \times 0,8 k_{mod}$; 1,3 ym : 1,4. Favor 1,4 average load safety factor

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Main/Secondary beam multiple connection, single-row



IdeeFix			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

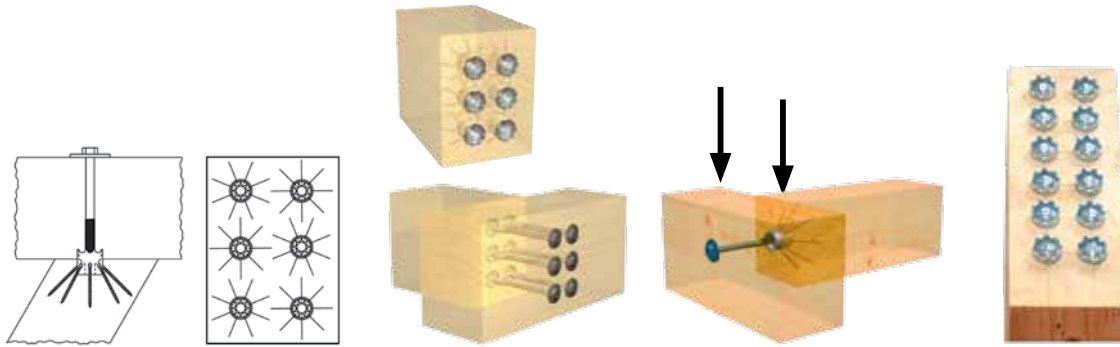
The connection is drawn together using a threaded rod or constructionscrew with a DIN 440 R washer



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 $R_k \times 0,8 k_{mod} : 1,3 \text{ ym} : 1,4$. Favorit 1,4 average load safety factor

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

Main/Secondary beam multiple connection, double-row



IdeeFix			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]	$V_{z,k}$ [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 ρ_k 380 kg/m³ Nze. recommended permissible load $R_{k,k} \times 0,8 k_{mod}$; 1,3 ym : 1,4. Factor 1,4 average load safety factor

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