IdeeFix 30/40/50

Hidden wood connector

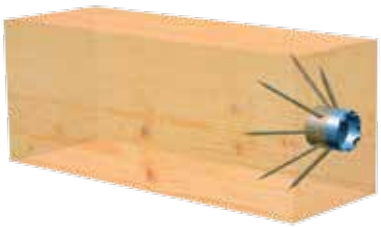
ETA-14/0160

IdeeFix 30/40/50

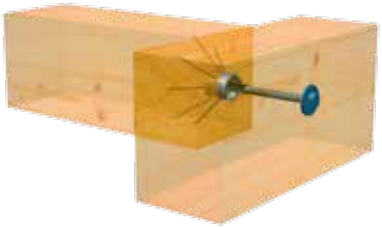
- Hidden wood connector
- High load absorption for tensile and transverse loads
- Adjustable tension/detachable
- Universal application
- Low wood-weakening effect
- Quick and easy installation
- For single- or multiple-row serial connections
- Comes supplied with system screws

1 Drill

2 Insert and install supplied screws



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



IdeeFix 30

Art. no.	Diameter/Height (mm)	PU
945390 incl. fully threaded screws, 5,0 x 40 mm	30	25

IdeeFix 40

Art. no.	Diameter/Height (mm)	PU
944890 incl. fully threaded screws, 6,0 x 60 mm	40	25

IdeeFix 50

Art. no.	Diameter/Height (mm)	PU
944896 incl. fully threaded screws, 8,0 x 90 mm	50	25

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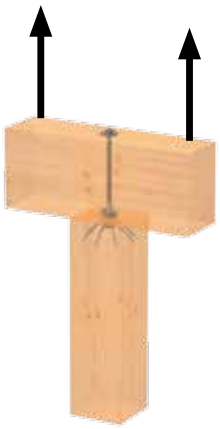
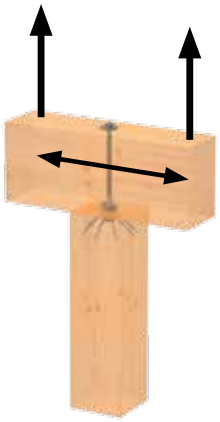
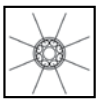
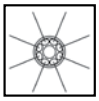
IdeeFix 30/40/50

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	$N_{ze.}$ [kN]	$R_{1,t,k}$ [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

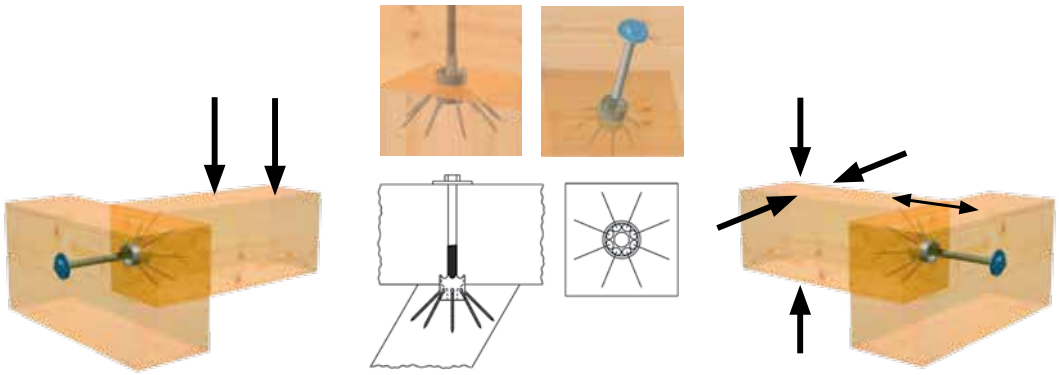
The connection is drawn together using a threaded rod or construction screw with a DIN 440 R washer

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.

MAIN–SECONDARY BEAM



IdeeFix			Timber Dimensions		Timber Dimension		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	$V_{zo.}$ [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 vc 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

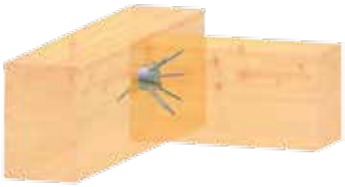
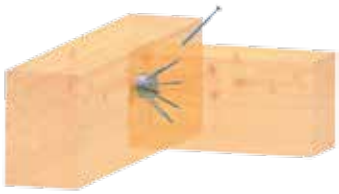
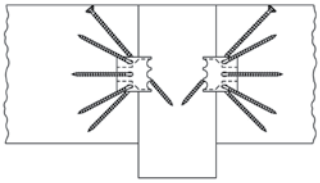
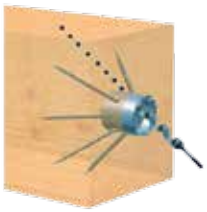
The connection is drawn together using a threaded rod or construction screw with a DIN 440 R washer

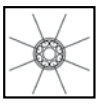
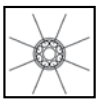
MB–SB connection as a mortise joint with simultaneous absorption of tensile forces

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.

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 vc 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

Position retention using GoFix® FK wood-construction screws IF 30 5.0 x 100 mm, IF 40 6.0 x 140 mm, IF 50 8.0 x 160 mmIF 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.
Factor 1.4 average load safety factor

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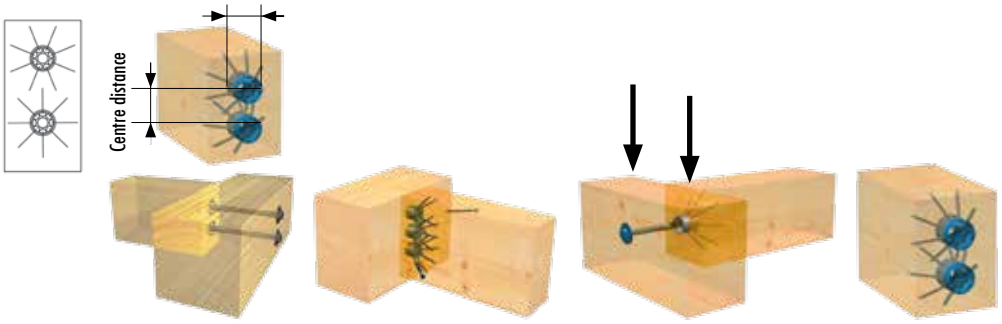
MAIN–SECONDARY BEAM
multiple connection, single-row



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 vc 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

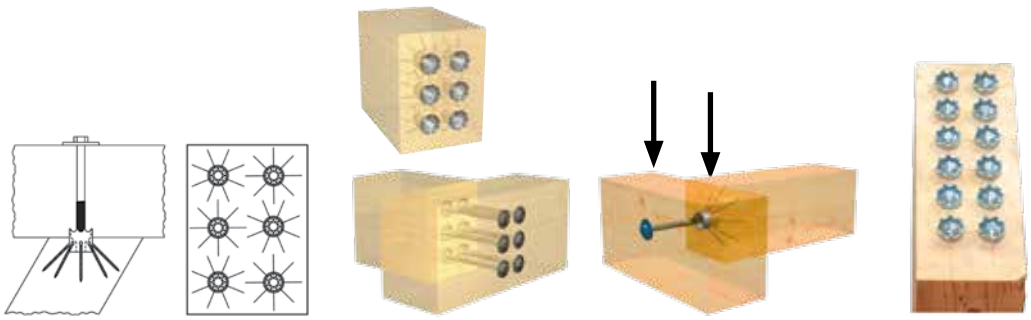
The connection is drawn together using a threaded rod or construc-tionscrew with a DIN 440 R washer

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.

MAIN–SECONDARY BEAM
multiple connection, double-row



IdeeFix			Timber Dimensions		Edge and centre distance		Main–secondary beam Multiple connection		Load-bearing capacity Double-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	$V_{zc.}$ [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 ag is the metric connection thread of the connector, v_c vc 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 440 R

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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