GoFix® MS II

SIHGA



GoFix® MS II
the wood construction screw

ETA-20/0558

SIHGA® Feature	YOUR Benefit
made in Austria	top European quality and added-value
special thread geometry	optimal traction in the end grain
fastens wood to wood, even OSB panels	screw without pre-drilling and pre-sinking
fastens pressure-resistant insulation materials for on-rafter insulation	for insulation with a compressive stress above 50 kPa
screwing permissible from 0° up to 90° to the grain	fastens with all screw-in angles
the splitting effect in the wood is reduced through the special multi-stage head	saves 50 % of storage, combines countersunk head and flat-head; transfers high forces, but can still be countersunk and facilitates screw connections close to the edge
special ribs on the shaft and slip coating	pre-drilling effect, easy rotation, battery-saving
SIHGA® tip	fast setting of the screw, user-friendly and time-saving
including SIHGAFIX®, Systemstift® and installation instructions	time-saving, practical, precise, all accessories enclosed; SIHGAFIX® also enables screwing into deep grooves
SIHGA® Ornamental Washer MSZ for diameter 8 mm	this Ornamental Washer MSZ increases the tensile force of the head to 9.1 kN; very attractive solution



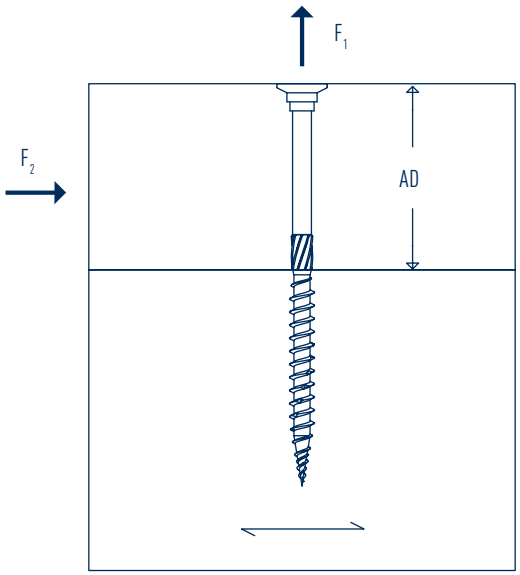


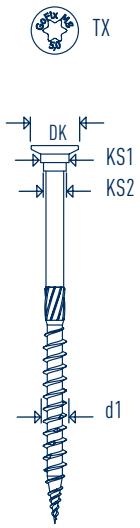
SIHGA® TIP:

For perfect screw pattern, screw head in flush.

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design values	SIHGA® performs the calculation for you





Dimension [mm]

GoFix® MS II

d1	TX	DK	KS 1	KS 2
4,0	15	8,0	5,2	4,0
4,5	20	9,0	5,9	4,5
5,0	25	10,0	6,6	5,0

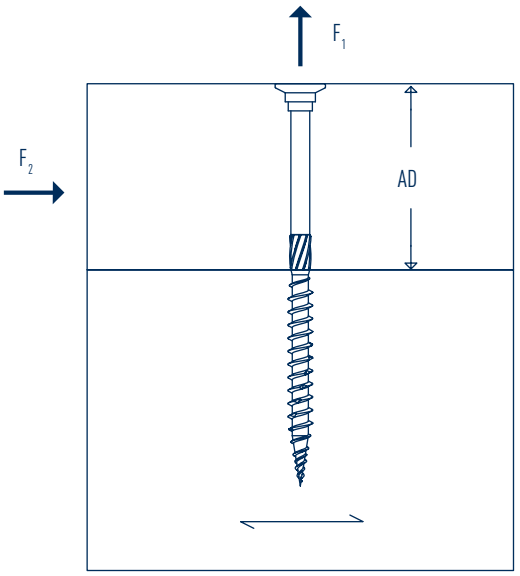
SIHGA®		Dimension	Installation Part	Characteristic Values*			
montagepack		GoFix® MS II	AD	Tensile Force F_1 [kN]		Shear Force F_2 [kN]	
Art. No.	PU	d1 x L	[mm]	Head	Thread	Wood-Wood	Steel-Wood
44056	500	**4,0 x 30**	12	1,04	1,04	0,75	1,10
44066	500	**4,0 x 35**	14	1,13	1,22	0,79	1,23
44076	500	**4,0 x 40**	16	1,13	1,39	0,82	1,29
44086	500	**4,0 x 45**	18	1,13	1,57	0,84	1,29
44096	500	**4,0 x 50**	20	1,13	1,74	0,87	1,29
44106	500	**4,0 x 60**	24	1,13	2,09	0,94	1,29
44226	400	**4,5 x 50**	20	1,39	1,89	1,01	1,52
44236	400	**4,5 x 60**	24	1,39	2,27	1,09	1,52
44246	300	**4,5 x 70**	28	1,39	2,65	1,16	1,52
44316	200	**5,0 x 50**	20	1,67	2,07	1,20	1,92
44326	200	**5,0 x 60**	24	1,67	2,48	1,27	1,92
44336	200	**5,0 x 70**	28	1,67	2,90	1,34	1,92
44346	200	**5,0 x 80**	32	1,67	3,31	1,42	1,92
44356	200	**5,0 x 90**	36	1,67	3,73	1,48	1,92
44366	200	**5,0 x 100**	40	1,67	4,14	1,48	1,92
44376	200	**5,0 x 120**	50	1,67	4,83	1,48	1,92

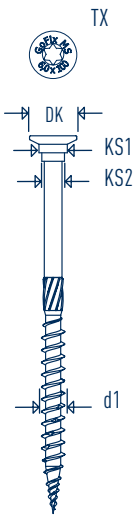
Subject to technical modifications and errors. Status of approval 05.2023

* characteristic values for measurement according to EC 5, bulk density ρk = 350 kg/m³ (C24)

ETA-20/0558

SIHGA® Feature	YOUR Benefit
fastens wood to wood, even OSB panels	screw without pre-drilling and pre-sinking
screwing permissible from 0° up to 90° to the grain	fastens with all screw-in angles
design values	SIHGA® performs the calculation for you





Dimension [mm]

GoFix® MS II

d1	TX	DK	KS 1	KS 2
6,0	30	13,5	8,6	6,0

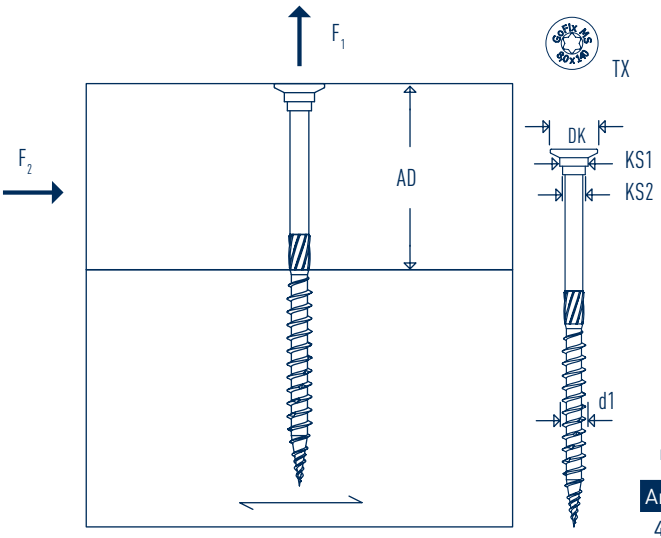
SIHGA®		Dimension	Installation Part	Characteristic Values*			
montagepack		GoFix® MS II	AD	Tensile Force F_1 [kN]		Shear Force F_2 [kN]	
Art. No.	PU	d1 x L	[mm]	Head	Thread	Wood-Wood	Steel-Wood
44406	100	**6,0 x 70**	28	2,97	3,38	1,90	2,87
44416	100	**6,0 x 80**	32	2,97	3,86	1,98	2,87
44426	100	**6,0 x 90**	36	2,97	4,34	2,06	2,87
44436	100	**6,0 x 100**	40	2,97	4,82	2,15	2,87
44446	100	**6,0 x 120**	50	2,97	5,63	2,25	2,87
44456	100	**6,0 x 140**	70	2,97	5,63	2,25	2,87
44466	100	**6,0 x 160**	90	2,97	5,63	2,25	2,87
44476	100	**6,0 x 180**	110	2,97	5,63	2,25	2,87
44486	100	**6,0 x 200**	130	2,97	5,63	2,25	2,87

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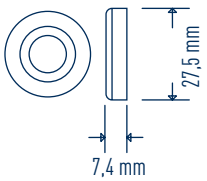
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design values	SIHGA® performs the calculation for you
online calculation	at www.sihga.com (on-rafter insulation)



Dimension [mm]

GoFix® MS II

d1	TX	DK	KS 1	KS 2
8,0	40	18,3	11,6	8,0



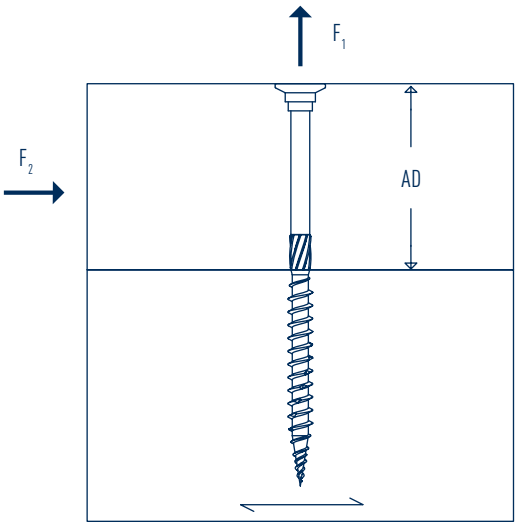
SIHGA®	Dimension	Characteristic Values*
montagepack	Washer MSZ	Tensile Force F_1 [kN]
Art. No.	PU	d_{MSZ} [mm]	Washer MSZ
44696	75	27,5	9,1

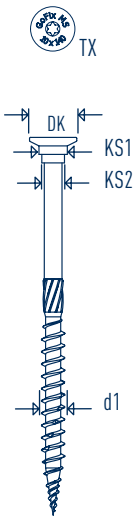
SIHGA®		Dimension	Installation Part	Characteristic Values*			
montagepack		GoFix® MS II	AD	Tensile Force F_1 [kN]		Shear Force F_2 [kN]	
Art. No.	PU	d1 x L	[mm]	Head	Thread	Wood-Wood	Steel-Wood
44506	75	**8,0 x 80**	30	4,96	4,96	2,96	4,66
44516	75	**8,0 x 100**	40	5,05	5,95	3,19	4,72
44526	75	**8,0 x 120**	50	5,05	6,94	3,44	4,72
44536	75	**8,0 x 140**	60	5,05	7,94	3,71	4,72
44546	75	**8,0 x 160**	70	5,05	8,93	3,71	4,72
44556	75	**8,0 x 180**	80	5,05	9,92	3,71	4,72
44566	75	**8,0 x 200**	100	5,05	9,92	3,71	4,72
44576	75	**8,0 x 220**	120	5,05	9,92	3,71	4,72
44586	75	**8,0 x 240**	140	5,05	9,92	3,71	4,72
44596	75	**8,0 x 260**	160	5,05	9,92	3,71	4,72
44606	75	**8,0 x 280**	180	5,05	9,92	3,71	4,72
44616	75	**8,0 x 300**	200	5,05	9,92	3,71	4,72
44626	75	**8,0 x 320**	220	5,05	9,92	3,71	4,72
44636	75	**8,0 x 340**	240	5,05	9,92	3,71	4,72
44646	75	**8,0 x 360**	260	5,05	9,92	3,71	4,72
44656	75	**8,0 x 380**	280	5,05	9,92	3,71	4,72
44666	75	**8,0 x 400**	300	5,05	9,92	3,71	4,72
44676	75	**8,0 x 450**	350	5,05	9,92	3,71	4,72
44686	75	**8,0 x 500**	400	5,05	9,92	3,71	4,72

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design values	SIHGA® performs the calculation for you
online calculation	at www.sihga.com (on-rafter insulation)





Dimension [mm]
GoFix® MS II

d1	TX	DK	KS 1	KS 2
10,0	50	22,5	14,4	10,0

SIHGA®		Dimension	Installation Part	Characteristic Values*			
montagepack		GoFix® MS II	AD	Tensile Force F_1 [kN]		Shear Force F_2 [kN]	
Art. No.	PU	d1 x L	[mm]	Head	Thread	Wood-Wood	Steel-Wood
44706	50	**10,0 x 80**	30	5,75	5,75	3,49	5,57
44716	50	**10,0 x 100**	40	6,90	6,90	4,16	6,34
44726	50	**10,0 x 120**	50	7,09	8,05	4,48	6,39
44736	50	**10,0 x 140**	60	7,09	9,20	4,79	6,39
44746	50	**10,0 x 160**	70	7,09	10,35	5,04	6,39
44756	50	**10,0 x 180**	80	7,09	11,50	5,04	6,39
44766	50	**10,0 x 200**	100	7,09	11,50	5,04	6,39
44776	50	**10,0 x 220**	120	7,09	11,50	5,04	6,39
44786	50	**10,0 x 240**	140	7,09	11,50	5,04	6,39
44796	50	**10,0 x 260**	160	7,09	11,50	5,04	6,39
44806	50	**10,0 x 280**	180	7,09	11,50	5,04	6,39
44816	50	**10,0 x 300**	200	7,09	11,50	5,04	6,39
44826	50	**10,0 x 320**	220	7,09	11,50	5,04	6,39
44836	50	**10,0 x 340**	240	7,09	11,50	5,04	6,39
44846	50	**10,0 x 360**	260	7,09	11,50	5,04	6,39
44856	50	**10,0 x 400**	300	7,09	11,50	5,04	6,39
44866	50	**10,0 x 450**	350	7,09	11,50	5,04	6,39
44876	50	**10,0 x 500**	400	7,09	11,50	5,04	6,39
44886	50	**10,0 x 550**	450	7,09	11,50	5,04	6,39
44896	50	**10,0 x 600**	500	7,09	11,50	5,04	6,39

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Greatest earthquake protection

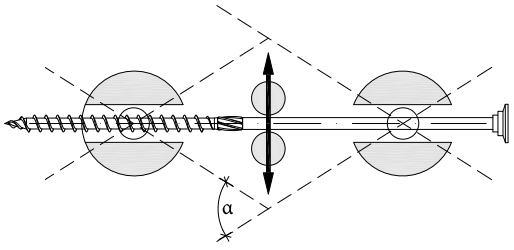
GoFix® MS II

SIHGA® Feature	YOUR Benefit
SIHGA® is ahead of its time	tests already under way for the latest revision of Eurocode 5
latest tests confirm excellent properties	ductility ensures safety
best ductility class S3 for earthquake resistance	safety according to prEN 14592
simulated earthquake load through cyclic bending of the bolts	reliable residual load capacity of at least 90 %

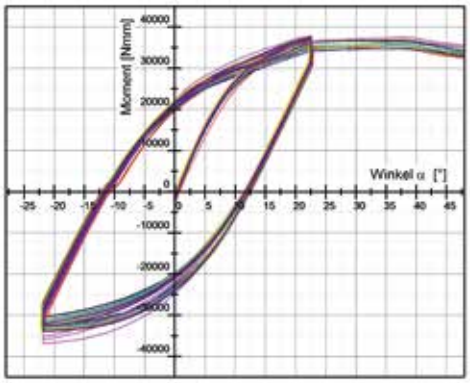
GoFix® MS II	Residual Load Capacity
∅ [mm]	M_{final}/M_{int}
6	90 %
8	93 %
10	100 %



bending of the bolt during the test



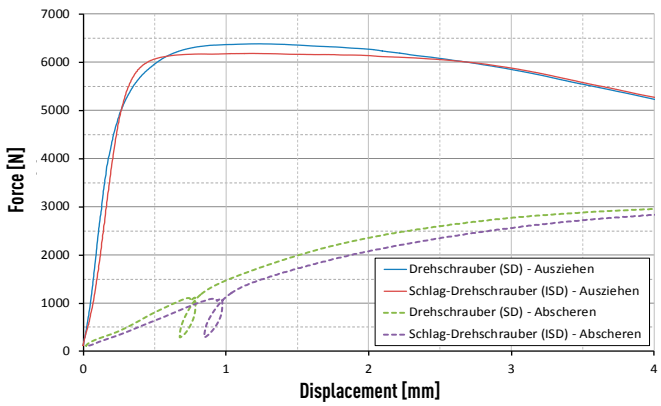
torque load of the bolt as a function of the bending angle



GoFix® MS II application by means of impact screwdriver

Tested by the University of Innsbruck

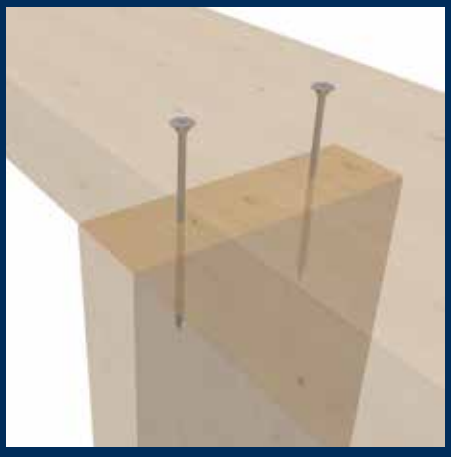
SIHGA® Feature	YOUR Benefit
positive report for processing with impact screwdrivers	provides security
graph below shows comparison of screw-in methods	only slightly affects the initial stiffness of a connection
impact screwdriver brings benefits	less strain on the wrist, even when working overhead







GoFix® MS II using in end grain





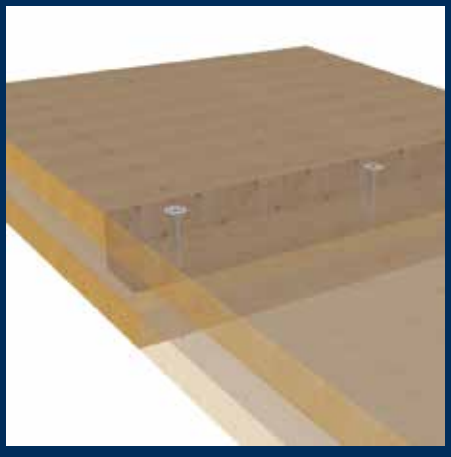
GoFix® MS II using in hardwood

SIHGA® Feature	YOUR Benefit
use in hardwood allowed	safety according to ETA -20/0558
extensive application possible by means of pre-drilling	in solid wood, glued plywood board and laminated veneer wood
head pull-through force and thread extension may be increased by the factor k; observe maximum tensile strength according to ETA	high load capacity for efficient connections

GoFix® MS II	Core Diameter = max. Predrilling Diameter
Diameter [mm]	[mm]
5,0	3,3
6,0	4,0
8,0	5,3
10,0	6,2

$$k_{dens} = \left(\frac{\rho_k}{350}\right)^{0,8}$$





SIHGA® TIP:

For screw connections in hardwood WITHOUT drilling, we recommend GoFix® SH.