



**DATASHEET
M-JOINT MGSI®
P100**

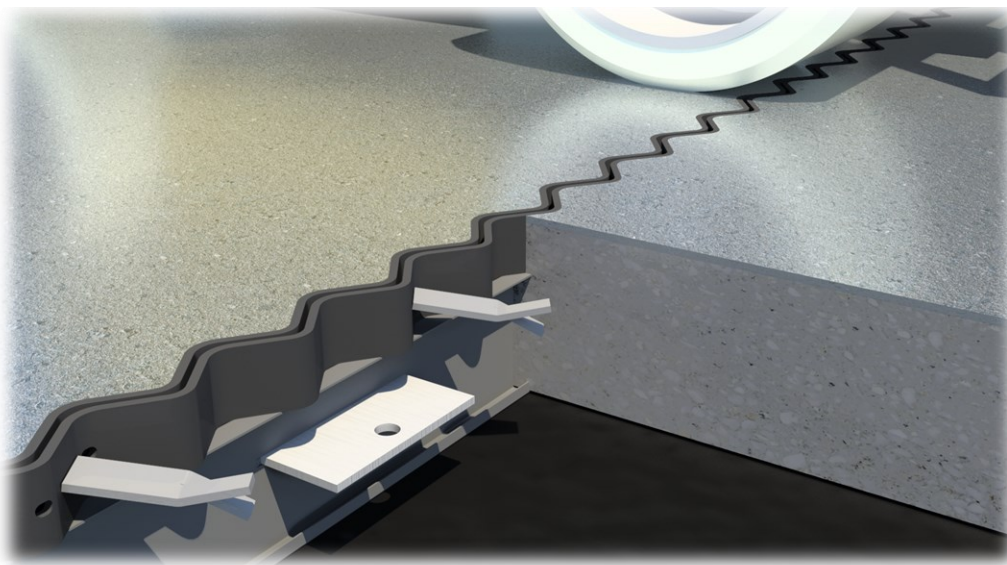


Management
System
ISO 9001:2015

www.tuv.com
ID 9108625648

CE M-JOINT MGSI®

DOP 20.03



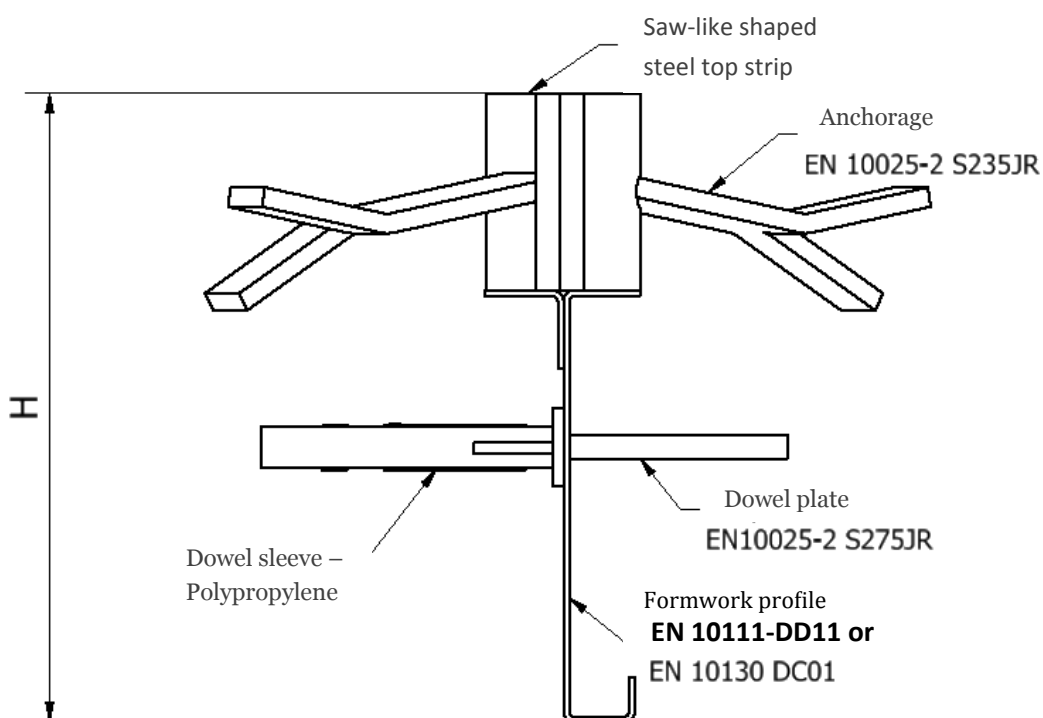
CONSTRUCTION JOINT

COMPLETE SYSTEM
OF CONSTRUCTION /
EXPANSION JOINTS:

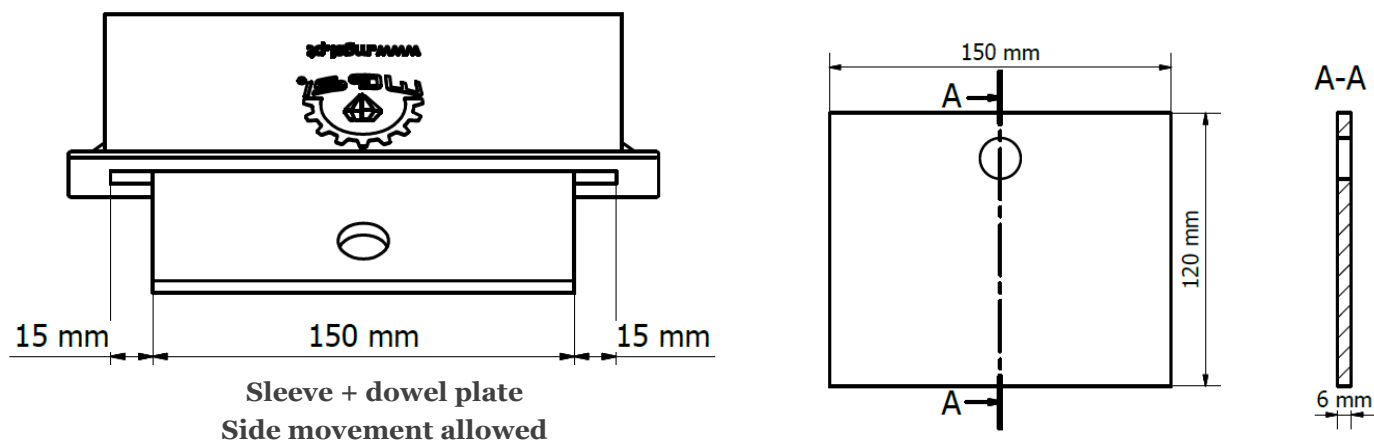
WITH LOAD
TRANSFER DEVICES
BETWEEN SLABS.



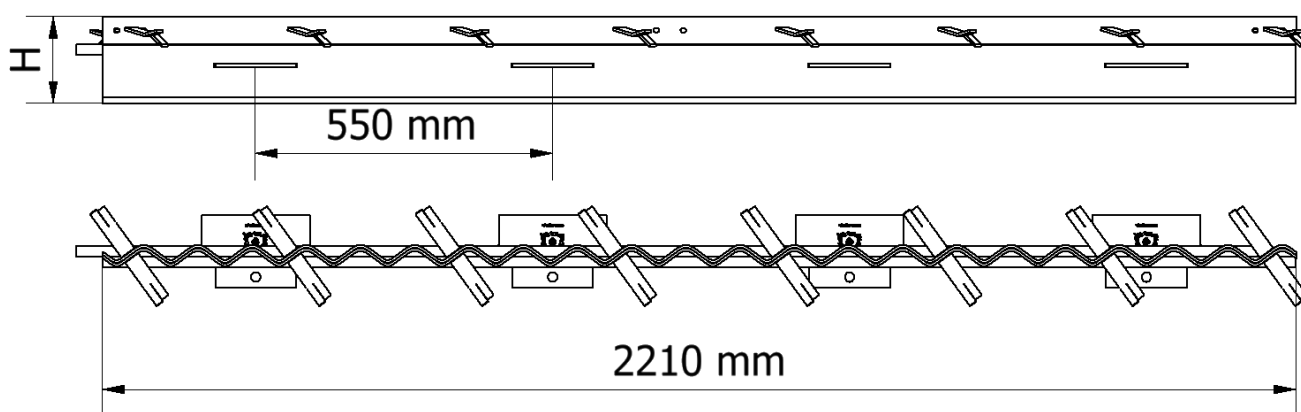
Joint detail



Load transmission device

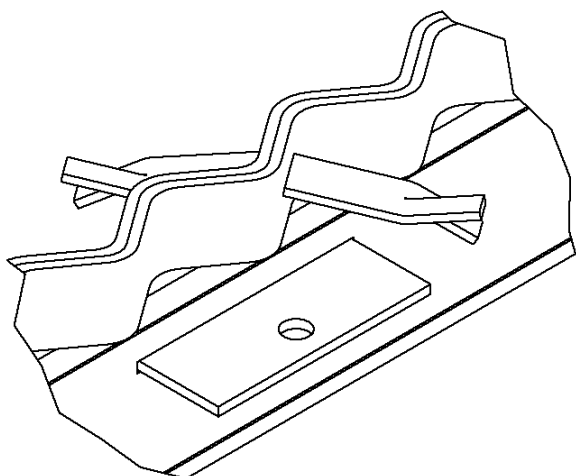


Joint dimensions

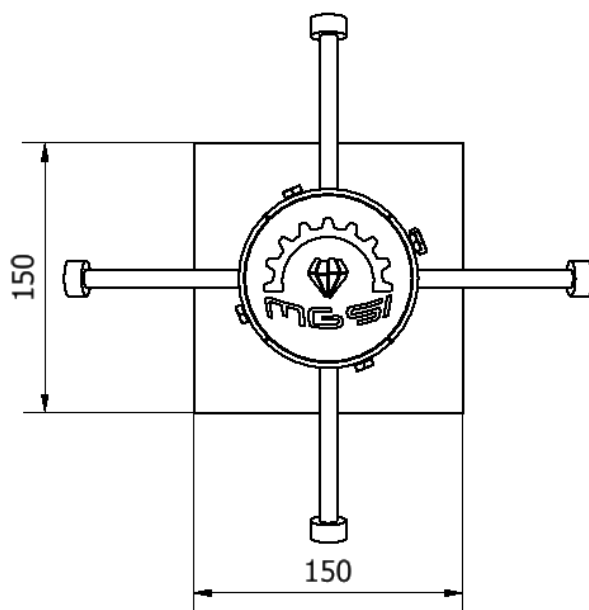
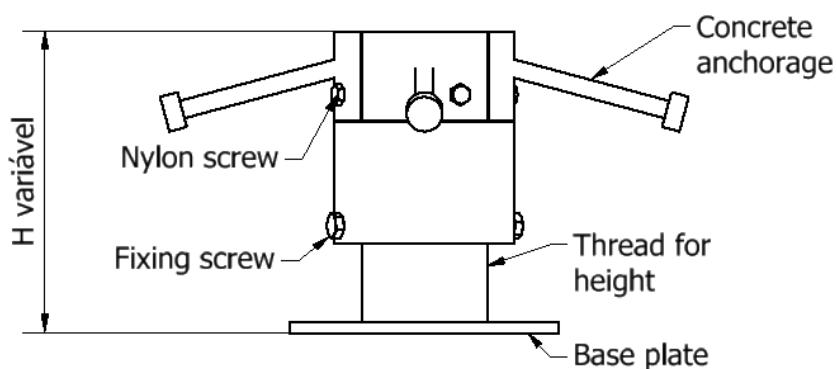


Joint detail

Possibility of top strips in
stainless steel or galvanized steel



Joint intersections



Joint characteristics

Element	Saw-like shaped steel	Anchorage	Formwork profile	Dowel sleeve	Dowel plate
Material	EN 10277-2 S235JR	EN 10025-2 S235JR	EN 10130 DC01 or EN 10111- DD11	Polypropylene	EN10025-2 S275JR

JOINT DIMENSIONS			
Joint height	Slab	Dowel plate	Length
(mm)	(mm)	(mm)	(mm)
130	$130 < h \leq 150$	150 x 120 x 6	2210 + 50 Lag for joint union
150	$150 < h \leq 160$		
160	$160 < h \leq 180$		
180	$180 < h \leq 200$		
200	$200 < h \leq 230$		
230	$230 < h \leq 250$		
250	$250 < h \leq 280$		
280	$280 < h \leq 300$		
300	$300 < h \leq 330$		

S275 JR	Capacity of load transmission devices in Ultimate Limit State (ULS) kN				
F _{ck}	Joint opening (mm)				
	5	10	15	20	30
C25/30	58,2	46,0	37,2	30,8	22,5
C32/40	63,8	49,1	39,0	31,8	22,9
C40/50	69,0	51,8	40,4	32,7	23,2

Ultimate joint Resistance (kN/m)

S= 550mm	F _{ck}	Joint opening (mm)				
		5	10	15	20	30
150	25 MPa	31,1	30,5	30,0	29,5	28,5
	32 MPa	35,1	34,6	34,0	33,4	32,3
	40 MPa	39,3	38,6	38,0	37,4	36,1
175	25 MPa	39,7	39,1	38,5	37,9	36,8
	32 MPa	44,9	44,3	43,6	42,9	41,6
	40 MPa	50,2	49,5	48,7	48,0	42,3
200	25 MPa	49,4	48,7	48,0	47,3	40,9
	32 MPa	55,8	55,1	54,3	53,5	41,7
	40 MPa	62,4	61,6	60,7	59,4	42,3
250	25 MPa	71,6	70,8	67,6	56,0	40,9
	32 MPa	81,0	80,1	70,8	57,9	41,7
	40 MPa	90,6	89,5	73,5	59,4	42,3
300	25 MPa	69,8	69,4	67,6	56,0	40,9
	32 MPa	78,9	78,5	70,8	57,9	41,7
	40 MPa	88,2	87,8	73,5	59,4	42,3

Theoretical calculations according to TR34 4th Edition and EN1992-1-1:2010 considering plate dowels at slab mid height - The use of steel fibres in the concrete should not be considered when calculating load transfer resistance. For others situations not mentioned, please contact MGSI® TECHNICAL DEPARTMENT.

The dimensions of the final product may vary by + -2% compared to the datasheet