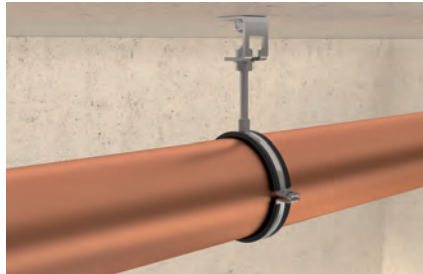
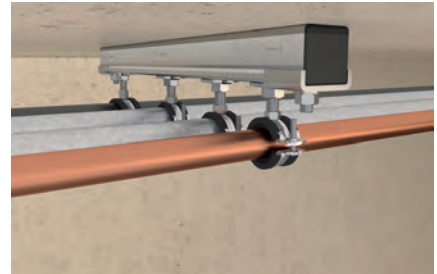


# Pipe clamp FRS zl

FRS zl pipe clamp with high corrosion protection



Height adjustable pipe installation



Drainage pipe assembly

## Applications

- Secure fixing for pipes with threaded rods or stud screws (also when there are fire protection requirements)
- For indoor and outdoor applications and in environments with high stress to components due to corrosion

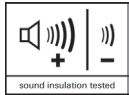
## Certificates



Fire resistance classification  
R120



MLAR R30



sound insulation tested

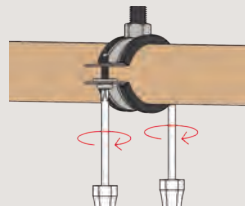
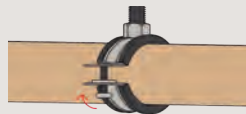
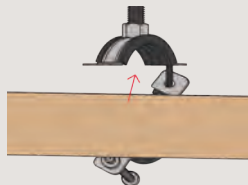
## Advantages/benefits

- The fire test report guarantees independently tested functional safety.
- The two screws allow an easy adjustment to suit the outer pipe diameter.
- The combination connecting nut with thread M8/M10 enables optimised mounting choices.
- The sound insulation insert offers noise protection and prevents contact corrosion.
- The screw's safety feature ensures trouble-free installation.
- The surface coating creates a high corrosion protection against environmental influences like humidity, water, saltwater or other corrosive substances.

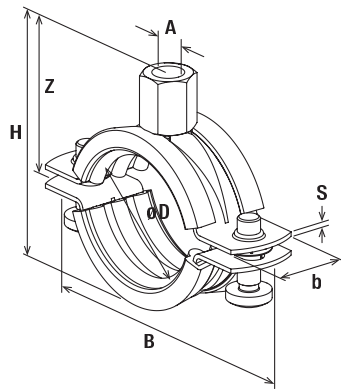
## Properties

- Material: steel DC01 (material no. 1.0330) acc. to DIN EN 10130
- Coating: Zinclamella acc. to DIN EN ISO 10683 or 13858, min. 15 µm
- Connecting nut: resistance welded, M8 / M10, SW 13
- Locking screw: flat head screw with combination recessed head
- Material sound insulation insert: EPDM; chlorine-free; silicone-free
- Sound insulation: for DIN 4109
- Temperature range: -40 °C to +100 °C
- Hardness: 55 ± 5° Shore A
- Fire behaviour: DIN 4102: Class B2

## Installation FRS



## Technical data



FRS M8/M10

Item	Item No.	Fire test report	Thread A	Size [inch]	Clamp- ing range D [mm]	Width B [mm]	Height H [mm]	Width x thick- ness clamp band b x s [mm]	Height Z Z [mm]	Locking screw	Max. recom. static load (centr. tension) $N_{recom.}$ [kN]	Sales unit [pcs]
FRS 12 - 15 M8/M10 hdg	537981	X	M 8 / M 10	1/4"	12 - 15	55	39	20 x 1.25	31	M 6	1.00	100
FRS 15 - 19 M8/M10 hdg	537982	X	M 8 / M 10	3/8"	15 - 19	59	43	20 x 1.25	29	M 6	1.00	100
FRS 20 - 24 M8/M10 hdg	537983	X	M 8 / M 10	1/2"	20 - 24	65	48	20 x 1.25	32	M 6	1.00	100
FRS 25 - 30 M8/M10 hdg	537984	X	M 8 / M 10	3/4"	25 - 30	72	54	20 x 1.25	35	M 6	1.00	100
FRS 32 - 37 M8/M10 hdg	537985	X	M 8 / M 10	1"	32 - 37	77	61	20 x 1.25	38	M 6	1.00	100
FRS 40 - 45 M8/M10 hdg	537986	X	M 8 / M 10	1 1/4"	40 - 45	89	69	20 x 1.25	42	M 6	1.00	50
FRS 48 - 54 M8/M10 hdg	537987	X	M 8 / M 10	1 1/2"	48 - 54	99	78	20 x 1.25	46	M 6	1.00	50
FRS 55 - 61 M8/M10 hdg	537988	X	M 8 / M 10	2"	55 - 61	105	85	20 x 1.25	50	M 6	1.00	50
FRS 63 - 67 M8/M10 hdg	537989	X	M 8 / M 10	—	63 - 67	111	91	20 x 1.25	53	M 6	1.00	50
FRS 72 - 80 M8/M10 hdg	537990	X	M 8 / M 10	2 1/2"	72 - 80	125	104	20 x 2.0	60	M 6	1.50	25
FRS 87 - 92 M8/M10 hdg	537991	X	M 8 / M 10	3"	87 - 92	137	116	20 x 2.0	66	M 6	1.50	25
FRS 95 - 103 M8/M10 hdg	557374	X	M 8 / M 10	—	95 - 103	149	130	25 x 2,0	73	M 6	2.00	25
FRS 108 - 116 M8/M10 hdg	537992	X	M 8 / M 10	4"	108 - 116	164	140	25 x 2,0	78	M 6	2.00	20
FRS 121 - 128 M8/M10 hdg	537993	X	M 8 / M 10	—	121 - 128	176	152	25 x 2.5	84	M 6	2.50	10
FRS 133 - 141 M8/M10 hdg	537994	X	M 8 / M 10	5"	133 - 141	187	165	25 x 2.5	90	M 6	2.50	10
FRS 159 - 165 M8/M10 hdg	537995	X	M 8 / M 10	—	159 - 165	211	198	25 x 2.5	102	M 6	2.50	8
FRS 165 - 168 M8/M10 hdg	537996	X	M 8 / M 10	6"	165 - 168	225	192	25 x 2.5	104	M 6	2.50	8

3a