

ΕN

Technical Data Sheet

MFT-FOX H

Documentation prepared by:

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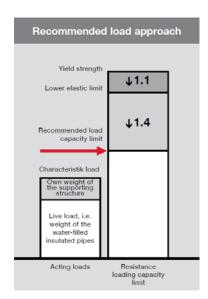
MFT-FOX H Brackets			FOX H 55 M 11 2084098	FOX H 75 M 11 2084361	FOX H 95 M 11 2084364	FOX H 115 M 11 2084367	FOX H 135 M 11 2084370
Technical datas	86	24 25.5	55-295	55-295	65,205	55,205	55,295
Material			EN AW-6063 T66	EN AW-6063 T66	EN AW-6063 T66	EN AW-6063 T66	EN AW-6063 T66
Material thickness:	S	[mm]	-	-	-	-	-
Bracket height:	h	[mm]	80	80	80	80	80
Bracket length:	I	[mm]	55	75	95	115	135
Bracket width:	w	[mm]	62	62	62	62	62
Hole diameter:	D	[mm]	11	11	11	11	11
Yield strength:	σ	[N/mm²]	200	200	200	200	200
Modulus of elasticity:	E	[N/mm²)	70000	70000	70000	70000	70000
Moment of inertia:	l _x	[mm ⁴]	-	-	-	-	-
Moment of inertia	ly	[mm ⁴]	-	-	-	-	-
Moment of deviation:	I_{xy}	[mm ⁴]	-	-	-	-	-
Moment of inertia on main axis:		[°]	-	-	-	-	-
Recommended Loads							
(Anchor)			Tay by	Ey Fy	Fy Fy	Fy Fy	Fy Fy
Vertical (Deadload)	F_y	[kN]	2,21	1,53	1,17	0,94	0,79
Horizontal (Windload):	F _x	[kN]	1,62	1,62	1,62	1,62	1,62

MFT-FOX H Brackets			FOX H 155 M 11 2084373	FOX H 175 M 11 2084376	FOX H 195 M 11 2084379	FOX H 215 M 11 2084382	FOX H 235 M 11 2084385
Technical datas	86	25.5	55-295	55-295	55-295	55-295	55-099
Material			EN AW-6063 T66				
Material thickness:	S	[mm]	-	-	-	-	-
Bracket height:	h	[mm]	80	80	80	80	80
Bracket length:	I	[mm]	155	175	195	215	235
Bracket width:	w	[mm]	62	62	62	62	62
Hole diameter:	D	[mm]	11	11	11	11	11
Yield strength:	σ	[N/mm²]	200	200	200	200	200
Modulus of elasticity:	Е	[N/mm²)	70000	70000	70000	70000	70000
Moment of inertia:	l _x	[mm ⁴]	-	-	-	-	-
Moment of inertia	ly	[mm ⁴]	-	-	-	-	-
Moment of deviation:	I_{xy}	[mm ⁴]	-	-	-	-	-
Moment of inertia on main axis:		[°]	-	-	-	-	-
Recommended Loads							
(Anchor)			Tay Fy	EV FV	Ey Ey	Ey Ey	Ey Ey
Vertical (Deadload)	F_y	[kN]	0,68	0,6	0,53	0,48	0,44
Horizontal (Windload):	F_x	[kN]	1,62	1,62	1,62	1,62	1,62

Hilti strongly advises the customer to verify the respective application by consultation and calculation of an structural engineer for the compliance of the product with applicable norms and standards. The non-involvement of a structure engineer will lead to a release of Hilti's liability. It is required that the product is used strictly according to the applicable Hilti Instruction For Use and within the application limits specified in the Hilti Technical Data Sheets, the technical specifications and supporting product literature, and the relevant application limits were not exceeded at any time. All rights reserved for Hilti AG. Duplication of drawings, as well as utilization and disclosure, are not permitted unless expressly agreed by Hilti AG.



MFT-FOX H Brackets			FOX H 255 M 11 2084388	FOX H 275 M 11 2084391	FOX H 295 M 11 2084394
Technical datas	86	24 25.5	55-295	55-295	55-299, 652
Material			EN AW-6063 T66	EN AW-6063 T66	EN AW-6063 T66
Material thickness:	S	[mm]	-	-	-
Bracket height:	h	[mm]	80	80	80
Bracket length:	I	[mm]	255	275	295
Bracket width:	W	[mm]	62	62	62
Hole diameter:	D	[mm]	11	11	11
Yield strength:	σ	[N/mm²]	200	200	200
Modulus of elasticity:	E	[N/mm²)	70000	70000	70000
Moment of inertia:	I _x	[mm ⁴]	-	-	-
Moment of inertia	I_y	[mm ⁴]	-	-	-
Moment of deviation:	I_{xy}	[mm ⁴]	-	-	-
Moment of inertia on main axis:		[°]	-	-	-
Recommended Loads					
(Anchor)			Fy Fy	EV FV	Ey Ey
Vertical (Deadload)	Fy	[kN]	0,4	0,37	0,34
Horizontal (Windload):	F _x	[kN]	1,62	1,62	1,62



Loading capacity limit:

All loading capacity limits in this manual are to be considered as recommended values. Recommended values are calculated from the elastic limit equal to yield strength, with applied material safety factor of 1.1 and an applied additional safety factor of 1.4



MFT-FOX H Brackets			FOX H 55 M 6,5 2084097	FOX H 75 M 6,5 2084360	FOX H 95 M 6,5 2084363	FOX H 115 M 6,5 2084366	FOX H 135 M 6,5 2084369
Technical datas	86	24 25.5 22 6.5 6.5 25.5 68	55-295	55-205	55-205	55-000	55-295
Material			EN AW-6063 T66	EN AW-6063 T66	EN AW-6063 T66	EN AW-6063 T66	EN AW-6063 T66
Material thickness:	S	[mm]	-	-	-	-	-
Bracket height:	h	[mm]	80	80	80	80	80
Bracket length:	- 1	[mm]	55	75	95	115	135
Bracket width:	w	[mm]	62	62	62	62	62
Hole diameter:	D	[mm]	6,5	6,5	6,5	6,5	6,5
Yield strength:	σ	[N/mm²]	200	200	200	200	200
Modulus of elasticity:	Е	[N/mm²)	70000	70000	70000	70000	70000
Moment of inertia:	l _x	[mm ⁴]	-	-	-	-	-
Moment of inertia	ly	[mm ⁴]	-	-	-	-	-
Moment of deviation:	I_{xy}	[mm ⁴]	-	-	-	-	-
Moment of inertia on main axis:		[°]	-	-	-	-	-
Recommended Loads							
(Screwfastening)			Fy Fy	Fy Fy	Fy Fy	Ey Fy	i i i
Vertical (Deadload)	F_y	[kN]	1,89	1,31	1	0,81	0,68
Horizontal (Windload):	F _x	[kN]	1,38	1,38	1,38	1,38	1,38

MFT-FOX H Brackets			FOX H 155 M 6,5 2084372	FOX H 175 M 6,5 2084375	FOX H 195 M 6,5 2084378	FOX H 215 M 6,5 2084381	FOX H 235 M 6,5 2084384
Technical datas	86	24 25.5 22 6.5 25.5 25.5 68	55-292	55-295	55 205	55 299	55-000
Material		_	EN AW-6063 T66				
Material thickness:	S	[mm]	-	-	-	-	-
Bracket height:	h	[mm]	80	80	80	80	80
Bracket length:	- 1	[mm]	155	175	195	215	235
Bracket width:	w	[mm]	62	62	62	62	62
Hole diameter:	D	[mm]	6,5	6,5	6,5	6,5	6,5
Yield strength:	σ	[N/mm²]	200	200	200	200	200
Modulus of elasticity:	Е	[N/mm²)	70000	70000	70000	70000	70000
Moment of inertia:	l _x	[mm ⁴]	-	-	-	-	-
Moment of inertia	ly	[mm ⁴]	-	-	-	-	-
Moment of deviation:	I_{xy}	[mm ⁴]	-	-	-	-	-
Moment of inertia on main axis:		[°]	-	-	-	-	-
Recommended Loads (Screwfastening)			Fy D	Fy 64	Fy Py	Fy Q	Fy 0
Vertical (Deadload)	F_y	[kN]	0,58	0,51	0,46	0,41	0,37
Horizontal (Windload):	F _x	[kN]	1,38	1,38	1,38	1,38	1,38



MFT-FOX H Brackets			FOX H 255 M 6,5 2084387	FOX H 275 M 6,5 2084390	FOX H 295 M 6,5 2084393
Technical datas	86	24 25.5 6.5 9 6.5 25.5	55.499	55.496	55.499
Material			EN AW-6063 T66	EN AW-6063 T66	EN AW-6063 T66
Material thickness:	S	[mm]	-	-	-
Bracket height:	h	[mm]	80	80	80
Bracket length:	1	[mm]	255	275	295
Bracket width:	w	[mm]	62	62	62
Hole diameter:	D	[mm]	6,5	6,5	6,5
Yield strength:	σ	[N/mm²]	200	200	200
Modulus of elasticity:	E	[N/mm²)	70000	70000	70000
Moment of inertia:	l _x	[mm ⁴]	-	-	-
Moment of inertia	l _y	[mm ⁴]	-	-	-
Moment of deviation:	I _{xy}	[mm ⁴]	-	-	-
Moment of inertia on main axis:		[°]	-	-	-
Recommended Loads					
(Screwfastening)			Fy Py	Py Py	Ty Fy
Vertical (Deadload)	F_y	[kN]	0,34	0,32	0,29
Horizontal (Windload):	F _x	[kN]	1,38	1,38	1,38

Pield strength Lower elastic limit Recommended load capacity limit Characteristik load Own weight of the supporting structure Live load, i.e. weight of the water-filled insulated pipes Acting loads Resistance loading capacity limit

Loading capacity limit:

All loading capacity limits in this manual are to be considered as recommended values. Recommended values are calculated from the elastic limit equal to yield strength, with applied material safety factor of 1.1 and an applied additional safety factor of 1.4

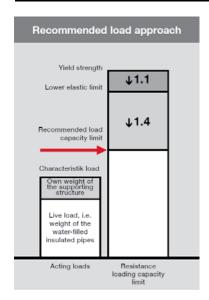


MFT-FOX H Brackets			FOX H 55 M 5 2084096	FOX H 75 M 5 2084099	FOX H 95 M 5 2084362	FOX H 115 M 5 2084365	FOX H 135 M 5 2084368
Technical datas	86	36.45 25.5 5	55-000	55-205	55-000	55-205	55-295
Material			EN AW-6063 T66	EN AW-6063 T66	EN AW-6063 T66	EN AW-6063 T66	EN AW-6063 T66
Material thickness:	S	[mm]	-	-	-	-	-
Bracket height:	h	[mm]	80	80	80	80	80
Bracket length:	1	[mm]	55	75	95	115	135
Bracket width:	w	[mm]	62	62	62	62	62
Hole diameter:	D	[mm]	5	5	5	5	5
Yield strength:	σ	[N/mm²]	200	200	200	200	200
Modulus of elasticity:	E	[N/mm²)	70000	70000	70000	70000	70000
Moment of inertia:	l _x	[mm ⁴]	-	-	-	-	-
Moment of inertia	l _y	[mm ⁴]	-	-	-	-	-
Moment of deviation:	I _{xy}	[mm ⁴]	-	-	-	-	-
Moment of inertia on main axis:		[°]	-	-	-	-	-
Recommended Loads							
(Directfastening)			Ey Fy	Try Fy	Ty Fy	Try Fy	Fy Fy
Vertical (Deadload)	F_y	[kN]	1,06	0,73	0,56	0,45	0,38
Horizontal (Windload):	F _x	[kN]	0,77	0,77	0,77	0,77	0,77

MFT-FOX H Brackets			FOX H 155 M 5 2084371	FOX H 175 M 5 2084374	FOX H 195 M 5 2084377	FOX H 215 M 5 2084380	FOX H 235 M 5 2084383
Technical datas	96	36.45 25.5	55-299	55-299	55-295	55-295	55-295
Material			EN AW-6063 T66				
Material thickness:	S	[mm]	-	-	-	-	-
Bracket height:	h	[mm]	80	80	80	80	80
Bracket length:	I	[mm]	155	175	195	215	235
Bracket width:	w	[mm]	62	62	62	62	62
Hole diameter:	D	[mm]	5	5	5	5	5
Yield strength:	σ	[N/mm²]	200	200	200	200	200
Modulus of elasticity:	Е	[N/mm²)	70000	70000	70000	70000	70000
Moment of inertia:	l _x	[mm ⁴]	-	-	-	-	-
Moment of inertia	l _y	[mm ⁴]	-	-	-	-	-
Moment of deviation:	I _{xy}	[mm ⁴]	-	-	-	-	-
Moment of inertia on main axis:		[°]	-	-	-	-	-
Recommended Loads							,
(Directfastening)			E Fy	Try Fy	Fy Fy	Fy Fy	Try Fy
Vertical (Deadload)	F_y	[kN]	0,32	0,28	0,25	0,23	0,21
Horizontal (Windload):	F _x	[kN]	0,77	0,77	0,77	0,77	0,77



MFT-FOX H Brackets			FOX H 255 M 5 2084386	FOX H 275 M 5 2084389	FOX H 295 M 5 2084392
Technical datas	96	25.5	55-295	55-295	55-495
Material			EN AW-6063 T66	EN AW-6063 T66	EN AW-6063 T66
Material thickness:	S	[mm]	-	-	-
Bracket height:	h	[mm]	80	80	80
Bracket length:	1	[mm]	255	275	295
Bracket width:	w	[mm]	62	62	62
Hole diameter:	D	[mm]	5	5	5
Yield strength:	σ	[N/mm²]	200	200	200
Modulus of elasticity:	E	[N/mm²)	70000	70000	70000
Moment of inertia:	l _x	[mm ⁴]	-	-	-
Moment of inertia	l _y	[mm ⁴]	-	-	-
Moment of deviation:	I _{xy}	[mm ⁴]	-	-	-
Moment of inertia on main axis:		[°]	-	-	-
Recommended Loads (Directfastening)			Fy Q	Fy Q	Ey G
Vertical (Deadload)	F_y	[kN]	0,19	0,18	0,16
Horizontal (Windload):	F_x	[kN]	0,77	0,77	0,77



Loading capacity limit:

All loading capacity limits in this manual are to be considered as recommended values. Recommended values are calculated from the elastic limit equal to yield strength, with applied material safety factor of 1.1 and an applied additional safety factor of 1.4