

The HILTI logo is displayed in white, bold, uppercase letters within a red rectangular box. The background of the entire page is a photograph of a ceiling installation with metal pipes and brackets, with a semi-transparent white diagonal overlay.

Pipe Fixation

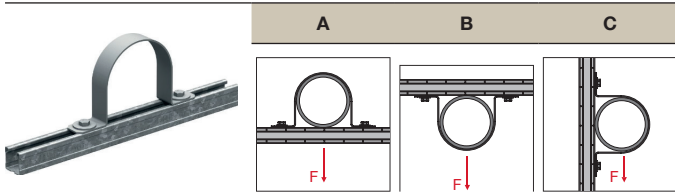
**Editorial Load Tables
(Euro Code)**

Version 1.0
March 2021



MP-US OC PIPE STRAPS

R12293800



Static loads (no Sprinkler loads)	F_{rec} [kN]	F_{rec} [kN]	F_{rec} [kN]
MP-US 18-90 OC		2.5	0.8
MP-US 102-222 OC	See load resistance of sub-structure	3.4	1.0
MP-US 275 OC		3.7	1.2
MP-US 326 OC		3.7	1.4


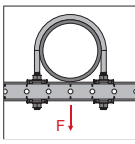
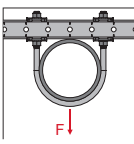
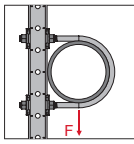
Sprinkler approved	VdS	FM APPROVED	UL LISTED
Application A			
Application B	MP-US 18 - 326 OC	MP-US 28 - 61 OC	MP-US 22 - 326 OC
Application C		No	

Design resistance

Shown load values are recommended values with partial safety factors for actions and resistance included. Design value = 1.4 * recommended value. The load resistance of a non-rigid sub-structure (incl. connecting elements) reduces the load resistance of the assembly and must therefore be considered and calculated separately.



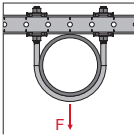
MP-UB / MP-UB OC U-BOLTS


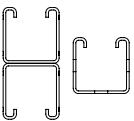
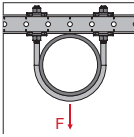
R12293802 / R12293804




 Static loads (no Sprinkler loads)	A	B	C
	 F_{rec} [kN]	 F_{rec} [kN]	 F_{rec} [kN]
MP-UB 21-48 (Galv. / OC) M8		9.9	1.8
MP-UB 60-89 (Galv. / OC) M10	See load resistance of sub-structure	23.8	3.5
MP-UB 102-324 (Galv. / OC) M12		50.4	5.3
MP-UB 355-406 (Galv. / OC) M20		50.4	8.9
MP-UB 457-609 (Galv. / OC) M24		52.5	8.9

Design resistance

Shown load values are recommended values with partial safety factors for actions and resistance included. Design value = 1.4 * recommended value. The load resistance of a non-rigid sub-structure (incl. connecting elements) reduces the load resistance of the assembly and must therefore be considered and calculated separately.

 Static loads – pipe mounted on open side of channel [kN]	 MM-System MM-C30 / -C-36	 MQ- / MT-System MQ-21-L, -41-L, -41,-41/3 MT-30 /-40 /-40T /-50 Quality: -galvanized, -F, -HDG, -HDG+, -F/ZM, -OC
	MP-UB 21-48 (Galv. / OC)	2.48
MP-UB 60-324 (Galv. / OC)	N.A.	

 Static loads – pipe mounted on closed side of channel [kN]	 MM-System MM-C30 / -C-36	 MQ- / MT-System MQ-21-L, -41-L, -41,-41/3 MT-30 /-40 /-40T /-50 Quality: -galvanized, -F, -HDG, -HDG+, -F/ZM, -OC
	MP-UB 21-48 (Galv. / OC)	2.48
MP-UB 60-324 (Galv. / OC)	N.A.	

Sprinkler approved			
Application A			
Application B	MP-UB 21 - 324 (Galv. / OC)	MP-UB 21 - 324 (Galv. / OC)	MP-UB 21 - 324 (Galv. / OC)
Application C		MP-UB /-OC 26 - 139 (Galv. / OC)	

MP-UB OC U-BOLTS

R12293807

	A	B	C
Static loads (no Sprinkler loads)	F_{rec} [kN]	F_{rec} [kN]	F_{rec} [kN]
MP-UB 1-1/2"-2" OC 3/8"		9.9	1.8
MP-UB 2-1/2"-12" OC 1/2"	See load resistance of sub-structure	50.4	5.3
MP-UB 14"-16" OC 7/8"		50.4	8.9
MP-UB 18"-24" OC 1"		52.5	8.9

Design resistance

Shown load values are recommended values with partial safety factors for actions and resistance included. Design value = 1.4 * recommended value. The load resistance of a non-rigid sub-structure (incl. connecting elements) reduces the load resistance of the assembly and must therefore be considered and calculated separately.

Static loads – pipe mounted on open side of channel [kN]	MM-System MM-C30 / -C-36	MQ- / MT-System MQ-21-L, -41-L, -41,-41/3 MT-30 /-40 /-40T /-50 Quality: -galvanized, -F, -HDG, -HDG+, -F/ZM, -OC
MP-UB 1-1/2"-12" OC	N.A.	3.23

Static loads – pipe mounted on closed side of channel [kN]	MM-System MM-C30 / -C-36	MQ- / MT-System MQ-21-L, -41-L, -41,-41/3 MT-30 /-40 /-40T /-50 Quality: -galvanized, -F, -HDG, -HDG+, -F/ZM, -OC
MP-UB 1-1/2"-12" OC	N.A.	6.17

Sprinkler approved		
Application A	MP-UB 1-1/2"-12" OC	
Application B		MP-UB 1-1/2"-12" OC
Application C	MP-UB 1-1/2"-5" OC	



Pipe Fixation

**Editorial Load Tables
(US Code)**

Version 1.0
March 2021



MP-US OC PIPE STRAPS

LOADS CALCULATED BASED ON THE MSS-SP-58

R12293800

	A	B	C
Static loads (no Sprinkler loads)	Max. Allowable Load [lb]* (Typical A)	Max. Allowable Load [lb]* (Typical B)	Max. Allowable Load [lb]* (Typical C)
MP-US 18-90 OC		300	75
MP-US 102-222 OC	See load resistance of sub-structure		
MP-US 275 OC		800	240
MP-US 326 OC			

Design resistance

* Allowable load for MP-US OC Pipe Straps with a safety factor of 3

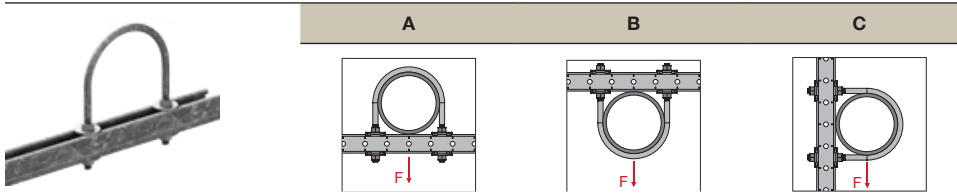
Sprinkler approved			
Application A			
Application B	MP-US 18 - 326 OC	MP-US 28 - 61 OC	MP-US 22 - 326 OC
Application C		No	

MP-UB / MP-UB OC U-BOLTS

LOADS CALCULATED BASED ON THE MSS-SP-58

R12293802

R12293804



Design resistance

* Allowable load for MP-UB / MP-UB OC U-Bolts with a safety factor of 3

Static loads (no Sprinkler loads)	Max. Allowable Load [lb]* (Typical A)	Max. Allowable Load [lb]* (Typical B)	Max. Allowable Load [lb]* (Typical C)
MP-UB 21-48 (Galv. / OC) M8		1460	360
MP-UB 60-89 (Galv. / OC) M10			
MP-UB 102-324 (Galv. / OC) M12	See load resistance of sub-structure	2700	675
MP-UB 355-406 (Galv. / OC) M20		7016	2000
MP-UB 457-609 (Galv. / OC) M24		11800	-


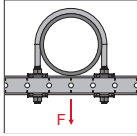
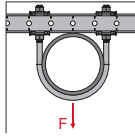
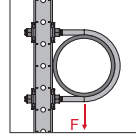
Sprinkler approved	FM APPROVED	UL LISTED
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Application A	MP-UB 21 - 324 (Galv. / OC)	
Application B		MP-UB 21 - 324 (Galv. / OC)
Application C	MP-UB /-OC 26 - 139 (Galv. / OC)	

MP-UB OC U-BOLTS



LOADS CALCULATED BASED ON THE MSS-SP-58

R12293807

 Static loads (no Sprinkler loads)	A	B	C
	 Max. Allowable Load [lb]* (Typical A)	 Max. Allowable Load [lb]* (Typical B)	 Max. Allowable Load [lb]* (Typical C)
MP-UB 1-1/2"-2" OC 3/8"		1460	360
MP-UB 2-1/2"-12" OC 1/2"	See load resistance of sub-structure	2700	675
MP-UB 14"-16" OC 7/8"		7016	2000
MP-UB 18"-24" OC 1"		11800	-

Design resistance

* Allowable load for MP-UB / MP-UB OC U-Bolts with a safety factor of 3

Sprinkler approved	 	
	Application A	Application B
Application A	MP-UB 1-1/2"-12" OC	MP-UB 1-1/2"-12" OC
Application B		MP-UB 1-1/2"-12" OC
Application C	MP-UB 1-1/2"-5" OC	



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