



# Certificate of Compliance

This certificate is issued for the following:

## Seismic Sway Brace Components

(see listing attached)

### Prepared for:

Hilti AG  
Feldkircherstrasse 100  
BU Installation  
Postfach 333  
Schaan, 9494  
Liechtenstein

### Manufactured at:

Inka Yapi Baglanti Elemanlari  
Sanayi ve Ticaret AS  
Istanbul Anadolu Takasi Organize Sanayi Bolgesi  
Gazi Bulvari No. 7  
Tuzla, Istanbul, Turkey

FM Approvals Class: 1950 (September 2013)

Approval Identification: 3063229 Approval Granted: February 18, 2019

To verify the availability of the Approved product, please refer to [www.approvalguide.com](http://www.approvalguide.com)

Said Approval is subject to satisfactory field performance, continuing Surveillance Audits, and strict conformity to the constructions as shown in the Approval Guide, an online resource of FM Approvals.

A handwritten signature in black ink, appearing to read 'D. B. Fuller', is written over a horizontal line.

David Fuller  
VP - Manager of Fire Protection  
FM Approvals  
1151 Boston-Providence Turnpike  
Norwood, MA 02062



*Member of the FM Global Group*



# Certificate of Compliance

Model	Part Description	Run Pipe Nominal Size	Orientation	Allowable Horizontal Capacity (F) per Installation Angle, lb (N)				Remarks
				30°-44°	45°-59°	60°-74°	75°-90°	
MQS-SP	Pipe Attachment	2, 2-1/2, 3	Lateral	1111 (4940)	1443 (6417)	2425 (10788)	NR	a, b
MQS-SP	Pipe Attachment	4, 5	Lateral	1007 (4478)	1648 (7331)	2407 (10708)	NR	a, b
MQS-SP	Pipe Attachment	6	Lateral	1679 (7467)	2450 (10898)	2707 (12040)	NR	a, b
MQS-SP	Pipe Attachment	8	Lateral	1747 (7770)	1994 (8870)	2532 (11263)	NR	a, b
MQS-SP	Pipe Attachment	10	Lateral	463 (2060)	463 (2060)	NR	NR	a, b
MQS-SP	Pipe Attachment	12	Lateral	342 (1520)	487 (2166)	NR	NR	a, b
MQS-SP	Pipe Attachment	2, 2-1/2, 3	Longitudinal	1228 (5462)	1799 (8001)	2203 (9801)	NR	a, b
MQS-SP	Pipe Attachment	4, 5	Longitudinal	1080 (4804)	1619 (7203)	1925 (8561)	NR	a, b
MQS-SP	Pipe Attachment	6	Longitudinal	1199 (5332)	1679 (7467)	1858 (8265)	NR	a, b
MQS-SP	Pipe Attachment	8	Longitudinal	1080 (4804)	1857 (8262)	1987 (8837)	NR	a, b
MQS-SP	Pipe Attachment	10	Longitudinal	873 (3884)	763 (3394)	NR	NR	a, b
MQS-SP	Pipe Attachment	12	Longitudinal	954 (4244)	815 (3625)	NR	NR	a, b
MQS-SP-L	Structural Attachment	NA	Note G	1490 (6620)	1440 (6400)	1160 (5150)	NR	a, c
MQS-SP-T	Structural Attachment	NA	Note G	780 (3460)	1130 (5020)	1360 (6040)	NR	a, d
MQS-SP-L ½"	Structural Attachment	NA	Note G	1490 (6620)	1440 (6400)	1160 (5150)	NR	k, l
MQS-SP-T ½"	Structural Attachment	NA	Note G	780 (3460)	1130 (5020)	1360 (6040)	NR	k, l
MQS-IB	Beam Clamp	NA	Along	680 (3020)	970 (4310)	1190 (5290)	NR	a, e, f
MQS-IB	Beam Clamp	NA	Across	710 (3150)	1000 (4440)	1190 (5290)	NR	a, e, f



Member of the FM Global Group



# Certificate of Compliance

## Remarks:

- a. FM Approved when used with MQ-41, MQ-21, MQ-21D or HS 1-5/8 12 ga PG10 channel as brace element.
- b. MQS-SP consists of parts marked MQS-SP, MQS-P (2140053) and MQS-C-SP (2080472). The correct designation for the FM Approved sway brace is MQS-SP.
- c. MQS-SP-L consists of parts marked MQS-A-SP-12 (2136842), MQS-P (2140053) and MQS-C-SP (2080472). The correct designation for the FM Approved sway brace is MQS-SP-L.
- d. MQS-SP-T consists of parts marked MQS-A-SP-12 (2136842), QTY=2; MQS-P (2140053) and MQS-C-SP (2080472). The correct designation for the FM Approved sway brace is MQS-SP-T.
- e. MQS-IB is FM Approved when used with either MQS-SP-T or MQS-SP-L to connect brace to the MQS-IB.
- f. MQS-IB consists of parts marked MQS-IB (2148831 and 2148855). The correct designation for the FM Approved sway brace is MQS-IB
- g. MQS-SP-L is designated –L for brace element longitudinal. This refers to the orientation relative to the sprinkler pipe being braced, not orientation to a structural member. MQS-SP-T is designated –T for brace element transverse to sprinkler pipe.
- h. Lateral – brace element perpendicular to sprinkler pipe; Longitudinal – brace element parallel to sprinkler pipe
- i. Along - Brace element loading along the length of the beam, Across - Brace element loading across the width of the beam
- j. NR – Not rated for this installation angle range; NA – Not Applicable
- k. MQS-SP-L 1/2" consists of parts marked MQS-A-SP-1/2 (2186464), MQS-P (2140053) and MQS-C-SP (2080472). The correct designation for the FM Approved sway brace is MQS-SP-L 1/2".
- l. MQS-SP-T 1/2" consists of parts marked MQS-A-SP-1/2" (2186464), MQS-A-SP-12 (2136842), MQS-P (2140053) and MQS-C-SP (2080472). The correct designation for the FM Approved sway brace is MQS-SP-T 1/2".



Member of the FM Global Group