



#### **Product Description**

#### MW Wire hanging system

Hilti Wire hanging system can be used for fastening heating, ventilation, and air condition (HVAC), conduit, and lighting to ceiling supports. The system is compatible with the Hilti Cast-In and Post-installed Anchoring portfolio. Wires are available in lengths from 6 ft to 20 ft. The system utilizes an eye bolt, loop, or clip to fasten to the required substrate, and a loop or channel lock to connect the wire to the media - pipe, duct, strut, or lighting equipment and fixtures.





#### **Listings / Approvals**

**UL (Underwriters Laboratories)** 

File E217969 under UL2239 for Loop lock File E522519 under UL 1598 for Channel lock



#### **Specifications**

#### **Material Specifications**

Description	Material	Coating	Minimum Coating Thickness
MW-EB	Carbon steel	Zinc	3 μm
MW-LP	Carbon steel	Zinc	3 μm
MW-C	Carbon steel	Zinc	3 μm
Loop lock	Aluminum + brass	Nickel	-
Channel lock	Steel + brass	Zinc + Nickel	-
Wire	Carbon steel	Zinc	3 μm

#### **Dimensions**

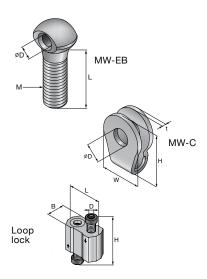
Description	Hole Diameter D in. (mm)	Thread Length L in. (mm)	Thread Size M in.
MW-EB Eye Bolt	3/16" (4.5)	1-1/2" (38.1)	1/4"
	1/4" (6.9)	2" (50.8)	3/8"

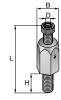
Description	Hole Diameter D in. (mm)	Piece Width W in. (mm)	Piece Height H in. (mm)	Piece Thickness t in. (mm)
MW-C Clip	7/16" (11)	1-3/16" (30)	1-11/16" (43)	1/8" (3)

Description	Width of Cable Lock w in. (mm)	Length of Cable Lock L in. (mm)	Height of Cable Lock H in. (mm)
MW-L Loop Lock 2.0	1/2" (12.4)	15/16" (23.1)	1-11/16" (42.5)
MW-L Loop Lock 3.0	11/16" (17.5)	1-5/16" (33)	2-1/4" (58)

Description	Width of Cable	Length of Cable	Thread	Thread
	Lock B	Lock L	Diameter H	Length H
	in. (mm)	in. (mm)	in. (mm)	in. (mm)
MW-CL Channel Lock	1-1/4" (32.5)	2-1/4" (58)	3/8" (10)	1" (25)

Cable Size	Diameter	Available Lengths
No. 2.0	5/64"	6ft, 10ft, 20ft
No. 3.0	7/64"	6ft, 10ft, 20ft







cable wire

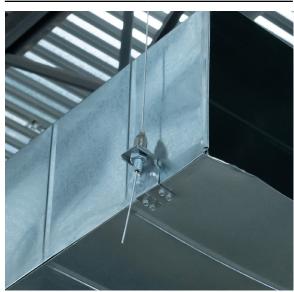
Channel



#### **MW Accessories**

#### **Application**









MW-C Clip

Wire No.	Item No.
2.0, 3.0	2287563

**Duct Attachment** 

Angle Name	Item No.
MVA-Z	386532
MVA-ZP	411499

#### Allowable loads for ventilation angle and clip

	<u> </u>	
Angle Name	Thread Size (in)	Allowable Load lbs (kg)
MVA-Z	1/4", 3/8"	120 (54)
MVA-ZP	1/4", 3/8"	225 (102)
MW-C	1/4", 3/8"	1100 (499)

The shown load values of allowable loads are based on a safety factor to ultimate strength of at least 5.



UL Rated Lighting Applications- The Load tables below reference Allowable Loads based on a safety factor of 5 from the Ultimate Load of the tested Wire Kit. These values may differ from UL Rated Loads for Lighting Applications. Please reference File E217969 under UL2239 for Loop Lock kits and File E522519 under UL1598 for Channel Lock kits or the product packaging for Rated Loads according to the applicable UL Standard.

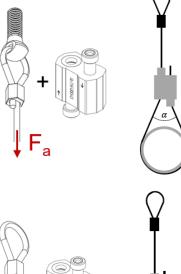
#### Allowable loads for lock and wire kits

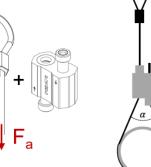
Description	Wire Length ft. (m)	Wire Rope Size	Allowable Tension Load +F <sub>a</sub> lbs. (kg)	Item No.
MW-EB 1/4 L 2.0	6 (2)	2.0	110 (50)	2331640
MW-EB 1/4 L 2.0	10 (3)	2.0	110 (50)	2331641
MW-EB 1/4 L 2.0	20 (6)	2.0	110 (50)	2331642
MW-EB 3/8 L 3.0	6 (2)	3.0	240 (109)	2331646
MW-EB 3/8 L 3.0	10 (3)	3.0	240 (109)	2331647
MW-EB 3/8 L 3.0	20 (6)	3.0	240 (109)	2331648

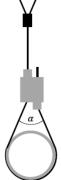
Note: The above values represent only the wire hanger kits. Load capacities of other connected parts, such as anchors, must be considered separately.

Description	Wire Length ft. (m)	Wire Rope Size	Allowable Tension Load +F <sub>a</sub> lbs. (kg)	Item No.
MW-LP L 2.0	6 (2)	2.0	110 (50)	2331652
MW-LP L 2.0	10 (3)	2.0	110 (50)	2331653
MW-LP L 2.0	20 (6)	2.0	110 (50)	2331654
MW-LP L 3.0	6 (2)	3.0	240 (109)	2331658
MW-LP L 3.0	10 (3)	3.0	240 (109)	2331659
MW-LP L 3.0	20 (6)	3.0	240 (109)	2331660

Note: The above values represent only the wire hanger kits. Load capacities of other connected parts, such as anchors, must be considered separately.







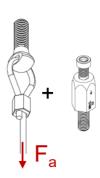
#### Allowable loads for channel lock and wire kits

Description	Wire Length ft. (m)	Wire Rope Size	Allowable Tension Load +F <sub>a</sub> lbs. (kg)	Item No.
MW-EB 1/4 CL 2.0	6 (2)	2.0	100 (45)	2331643
MW-EB 1/4 CL 2.0	10 (3)	2.0	100 (45)	2331644
MW-EB 1/4 CL 2.0	20 (6)	2.0	100 (45)	2331645
MW-EB 3/8 CL 3.0	6 (2)	3.0	200 (90)	2331649
MW-EB 3/8 CL 3.0	10 (3)	3.0	200 (90)	2331650
MW-EB 3/8 CL 3.0	20 (6)	3.0	200 (90)	2331651

Note: The above values represent only the wire hanger kits. Load capacities of other connected parts, such as anchors, must be considered separately.

Description	Wire Length ft. (m)	Wire Rope Size	Allowable Tension Load +F <sub>a</sub> lbs. (kg)	Item No.
MW-LP CL 2.0	6 (2)	2.0	100 (45)	2331655
MW-LP CL 2.0	10 (3)	2.0	100 (45)	2331656
MW-LP CL 2.0	20 (6)	2.0	100 (45)	2331657
MW-LP CL 3.0	6 (2)	3.0	200 (90)	2331661
MW-LP CL 3.0	10 (3)	3.0	200 (90)	2331662
MW-LP CL 3.0	20 (6)	3.0	200 (90)	2331663

Note: The above values represent only the wire hanger kits. Load capacities of other connected parts, such as anchors, must be considered separately.

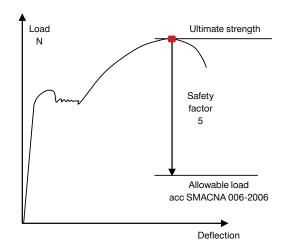


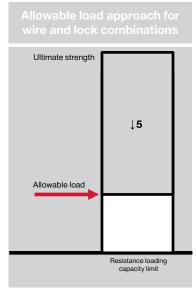




#### **Safety Factors Used to Calculate Load Capacities**

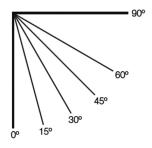
For all **lock and wire combinations**, the **allowable loads** are calculated from the ultimate limit with a safety factor of 5 according to SMACNA 006-2006 (HVAC duct construction standards).





#### Load reduction with wire hanger angle

	Maximum load at an angle from vertical				
Lock Designation	0°	15°	30°	45°	60°
Load %	100	96	86	70	50





#### VENTILATION - SINGLE FASTENING POINT FIXED ON A CONCRETE SLAB

#### **Eyebolt Combo**



### ① Screw anchor, 1/4" support 2.0 mm wire

Description	Item No.
Screw anchor KH-EZ 1/4" X 1-5/8", 1/4"	423471
Screw anchor KH-EZ 1/4" X 2-1/2", 1/4"	418039
Hexagon nut 1/4" zinced	411751
MW-EB 1/4 L 2.0 6ft/2m	2331640
MW-EB 1/4 L 2.0 10ft/3m	2331641
MW-EB 1/4 L 2.0 20ft/6m	2331642

### ② Screw anchor, 3/8" support 3.0 mm wire

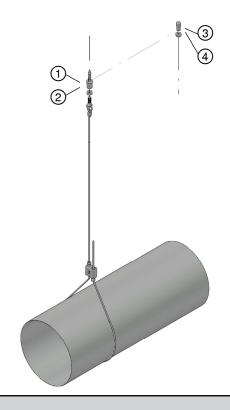
Description	Item No.
Screw anchor KH-EZ 1/4" X 1-5/8", 3/8"	423472
Screw anchor KH-EZ 1/4" X 2-1/2", 3/8"	418040
Hexagon nut 3/8" zinced	411752
MW-EB 3/8 L 3.0 6ft/2m	2331646
MW-EB 3/8 L 3.0 10ft/3m	2331647
MW-EB 3/8 L 3.0 20ft/6m	2331648

#### ③ Flush (drop-in) anchor, 1/4" support 2.0 mm wire

Description	Item No.
Flush anchor HDI+ 1/4"	409492
Flush anchor HDI-L+ 1/4"	409495
Flush anchor HDI-P+ 1/4"	409498
Hexagon nut 1/4" zinced	411751
MW-EB 1/4 L 2.0 6ft/2m	2331640
MW-EB 1/4 L 2.0 10ft/3m	2331641
MW-EB 1/4 L 2.0 20ft/6m	2331642

### 4 Flush (drop-in) anchor, 3/8" support3.0 mm wire

Description	Item No.
Flush anchor HDI+ 3/8"	409493
Flush anchor HDI-L+ 3/8"	409496
Flush anchor HDI-P+ 3/8"	409499
Hexagon nut 3/8" zinced	411752
MW-EB 3/8 L 3.0 6ft/2m	2331646
MW-EB 3/8 L 3.0 10ft/3m	2331647
MW-EB 3/8 L 3.0 20ft/6m	2331648



# Application

#### Description

Wire system - Ventilation - Single fastening point on concrete

## Loading must always be compared with the capacity of the anchor within the chosen base material

Only for vertically suspended loads. Eye-bolt not suitable for bracing

Base material	Product lines
Concrete	Wire system
	Anchors

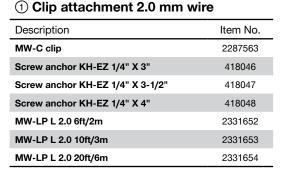
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### **VENTILATION - SINGLE FASTENING POINT FIXED ON A CONCRETE GIRDER**

#### **Loop Combo**

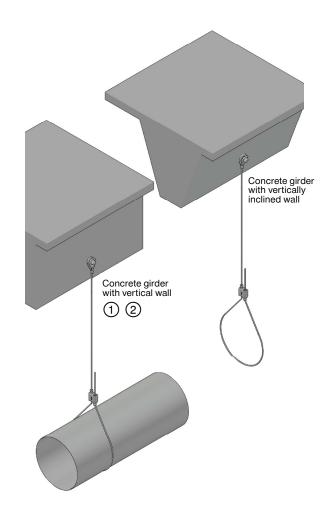








Description	Item No.
MW-C clip	2287563
Screw anchor KH-EZ 3/8" X 3"	418057
Screw anchor KH-EZ 3/8" X 3-1/2"	418058
Screw anchor KH-EZ 3/8" X 5"	418061
MW-LP L 3.0 6ft/2m	2331658
MW-LP L 3.0 10ft/3m	2331659
MW-LP L 3.0 20ft/6m	2331660



# **Application**

#### **Description**

Wire system - Ventilation - Single fastening point on side of a concrete girder

Comments

- Loading must always be compared with the capacity of the anchor within the chosen base material. This capacity is affected by the angle of loading from the vertical and the prying factor
- Only one wire may be suspended on each clip

**Product lines Base material** Concrete Wire system Anchors

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## VENTILATION - SINGLE FASTENING POINT FIXED ON A STRUCTURAL STEEL - CENTRIC SOLUTION USING MT CHANNEL SYSTEM

#### **Eyebolt Combo**

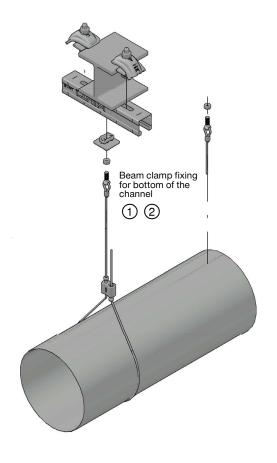


### ① Centric fixation of MT system channel 2.0 mm wire

Description	Item No.
MQT-U beam clamp	2301108
MT-30 13/16" equivalent strut	2268498
Pipe ring saddle MQA-F 1/4"	377884
Hexagon nut 1/4" zinced	411751
MW-EB 1/4 L 2.0 6ft/2m	2331640
MW-EB 1/4 L 2.0 10ft/3m	2331641
MW-EB 1/4 L 2.0 20ft/6m	2331642

### ② Centric fixation of MT system channel 3.0 mm wire

Description	Item No.
MQT-U beam clamp	2301108
MT-30 13/16" equivalent strut 6m	2293069
Pipe ring saddle MQA-S 3/8"	2293069
Hexagon nut 3/8" zinced	411752
MW-EB 3/8 L 3.0 6ft/2m	2331646
MW-EB 3/8 L 3.0 10ft/3m	2331647
MW-EB 3/8 L 3.0 20ft/6m	2331648



# Application

#### Description

Wire system - Ventilation - Single fastening point on steel - MT system

Comments

• Loading must always be compared with the capacity of all connected parts

Steel

Only for vertically suspended loads. Not suitable for bracing

Steel Product lines

Wire system

MM system

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**VENTILATION - SINGLE FASTENING POINT FIXED ON A STRUCTURAL** STEEL - LOOPING THE PROFILE

#### **Loop Combo**

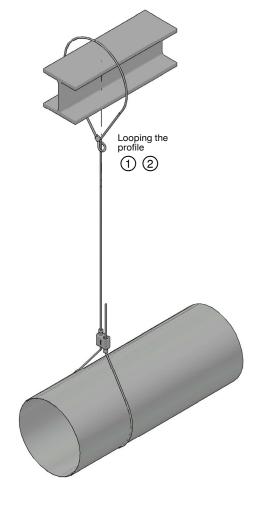


#### 1 Looping the profile with 2.0 mm wire

Description	Item No.
MW-LP L 2.0 6ft/2m	2331652
MW-LP L 2.0 10ft/3m	2331653
MW-LP L 2.0 20ft/6m	2331654

#### 2 Looping the profile with 3.0 mm wire

Description	Item No.
MW-LP L 3.0 6ft/2m	2331658
MW-LP L 3.0 10ft/3m	2331659
MW-LP L 3.0 20ft/6m	2331660



# **Application**

#### **Description**

Wire system - Ventilation - Single fastening point on steel - Looping the profile

Comments · Loading must always be compared with the capacity of the structural steel

Sharp edges must be avoided to prevent damage to the wire

**Base material Product lines** Steel

Wire system

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### **VENTILATION - Z-HANGERS FIXED ON CONCRETE SLAB**

#### **Eyebolt Combo**



### ① Screw anchor, premium Z-hanger 2.0 mm wire

Description	Item No.	
Screw anchor KH-EZ 1/4" X 5/8", 1/4"	423471	
Screw anchor KH-EZ 1/4" X 2-1/2", 1/4"	418039	
Hexagon nut 1/4" zinced	411751	
MW-EB 1/4 CL 2.0 6ft/2m	2331643	
MW-EB 1/4 CL 2.0 10ft/3m	2331644	
MW-EB 1/4 CL 2.0 20ft/6m	2331645	
② Z-Hanger and Connection		
MVA-Z Z-Hanger suitable for 2mm	386532	
Hexagon nut 3/8" zinced	411752	
Washer zinc 3/8"	411757	
Self-tapping Screws		
Zip screw 10-12 X 3/4" HHWH HVAC 1k	423252	

### Screw anchor, premium Z-hanger 3.0 mm wire

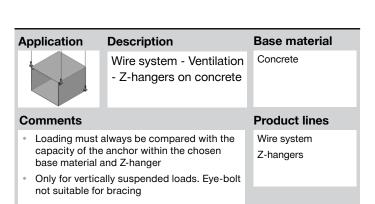
Description	Item No.	
Screw anchor KH-EZ 1/4" X 1-5/8", 3/8"	423472	
Screw anchor KH-EZ 1/4" X 2-1/2", 3/8"	418040	
Hexagon nut 3/8" zinced	411752	
MW-EB 3/8 CL 3.0 6ft/2m	2331649	
MW-EB 3/8 CL 3.0 10ft/3m	2331650	
MW-EB 3/8 CL 3.0 20ft/6m	2331651	
Z-Hanger and Connection		
MVA-ZP Z-Hanger suitable for 2mm and 411499		
Hexagon nut 3/8" zinced	411752	
Washer zinc 3/8"	411757	
Self-tapping Screws		
Zip screw 10-12 X 3/4" HHWH HVAC 1k	423252	

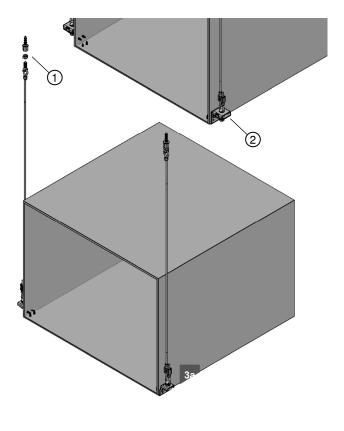


#### Alternative HDI flush anchor

Description	Item No.
Flush anchor HDI+ 1/4"	409492
Flush anchor HDI-L+ 1/4"	409495
Flush anchor HDI-P 1/4"	409498







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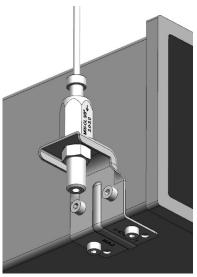
### VENTILATION - Z-HANGERS FIXED ON ASIDE OF A CONCRETE GIRDER

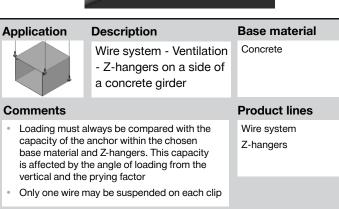
#### **Loop Combo**



#### Clip attachment 2.0 mm wire

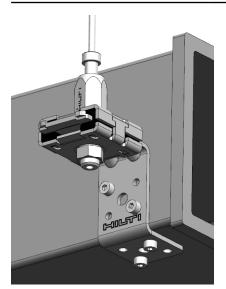
Description	Item No.	
MW-C clip	2287563	
Screw anchor KH-EZ 1/4" X 3"	418046	
Screw anchor KH-EZ 1/4" X 3-1/2"	418047	
Screw anchor KH-EZ 1/4" X 4"	418048	
MW-LP CL 2.0 6ft/2m	2331655	
MW-LP CL 2.0 10ft/3m	2331656	
MW-LP CL 2.0 20ft/6m	2331657	
① Z-Hanger and Connection		
MVA-Z Z-Hanger suitable for 2mm	386532	
Hexagon nut 3/8" zinced	411752	
Washer zinc 3/8"	411757	
Self-tapping Screws		
Zip screw 10-12" X 3/4" HHWH HVAC 1k	423252	





### Screw anchor, premium Z-hanger 3.0 mm wire

Description	Item No.	
MW-C clip	2287563	
Screw anchor KH-EZ 3/8" X 3"	418057	
Screw anchor KH-EZ 3/8" X 3-1/2"	418058	
Screw anchor KH-EZ 3/8" X 5"	418061	
MW-LP L 3.0 6ft/2m	2331658	
MW-LP L 3.0 10ft/3m	2331659	
MW-LP L 3.0 20ft/6m	2331660	
Z-Hanger and Connection		
MVA-ZP Z-Hanger suitable for 2mm and 3mm wire	411499	
Hexagon nut 3/8" zinced	411752	
Washer zinc 3/8"	411757	
Self-tapping Screws		
Zip screw 10-12" X 3/4" HHWH HVAC 1k	423252	



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# VENTILATION - Z-HANGERS FIXED ON STRUCTURAL STEEL USING BEAM CLAMPS

#### **Eyebolt Combo**

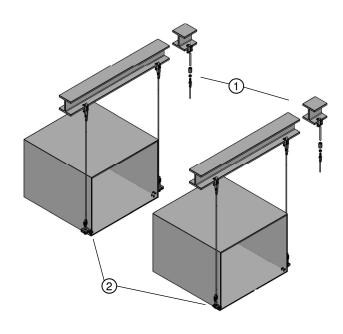


#### ① Threaded beam clamp 2.0 mm wire

<u> </u>		
Description	Item No.	
Beam clamp BC-EG 1/4"	258002	
Threaded rod 1/4" X 6' zinced	257963	
Threaded rod connector 1/4" zinced	411746	
Hexagon nut 1/4" zinced	411751	
MW-EB 1/4 CL 2.0 6ft/2m	2331643	
MW-EB 1/4 CL 2.0 10ft/3m	2331644	
MW-EB 1/4 CL 2.0 20ft/6m	2331645	
② Z-Hanger and Connection		
MVA-Z Z-hanger suitable for 2mm	386532	
Hexagon nut 3/8" zinced	411752	
Washer zinc 3/8"	411757	
Self-tapping Screws		
Zip Screw 10-12 x 3/4" HHWH HVAC 1k	423252	

#### Threaded beam clamp 3.0 mm wire

Description	Item No.	
Beam clamp BC 3/8"	257366	
Threaded rod 3/8" x 6'	257969	
Threaded rod connector 3/8" zinced	411747	
Hexagon nut 3/8" zinced	411752	
MW-EB 3/8 CL 3.0 6ft/2m	2331649	
MW-EB 3/8 CL 3.0 10ft/3m	2331650	
MW-EB 3/8 CL 3.0 20ft/6m	2331651	
Z-Hanger and Connection		
MVA-ZP Z-Hanger suitable for 2mm and 3mm wire	411499	
Hexagon nut 3/8" zinced	411752	
Washer zinc 3/8"	411757	
Self-tapping Screws		
Zip Screw 10-12 x 3/4" HHWH HVAC 1k	423252	



Application	Description	Base material
	Wire system - Ventilation - Z-hangers on structural steel	Steel
Comments		Product lines
9	lways be compared with the	Wire system
capacity of the l	beam clamp and structural steel	Beam clamps
	ly suspended loads. Not	Z-hangers
suitable for brac	cing	

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# VENTILATION - Z-HANGERS FIXED ON STRUCTURAL STEEL - CENTRIC SOLUTION USING MT CHANNEL SYSTEM

#### **Eyebolt Combo**

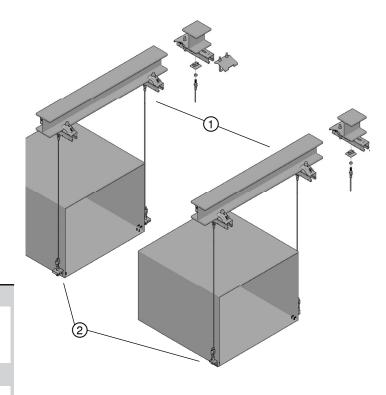


### ① Centric fixation of MT system channel, 2.0 mm wire

Description	Item No.	
Beam clamp MQT-U	301108	
MT-30 13/16" equivalent strut	2268498	
Pipe ring saddle MQA-F 1/4"	377884	
Hexagon nut 1/4" zinced	411751	
MW-EB 1/4 CL 2.0 6ft/2m	2331643	
MW-EB 1/4 CL 2.0 10ft/3m	2331644	
MW-EB 1/4 CL 2.0 20ft/6m	2331645	
② Z-Hanger and Connection		
MVA-Z Z-hanger suitable for 2mm	386532	
Hexagon nut 3/8" zinced	411752	
Washer zinc 3/8"	411757	
Self-tapping Screws		
Zip Screw 10-12 x 3/4" HHWH HVAC 1k	423252	

### Screw anchor, premium Z-hanger 3.0 mm wire

Description	Item No.	
Beam clamp MQT-U	301108	
MT-30 13/16" equivalent strut	2268498	
Pipe ring saddle MQA-S 3/8"	2293069	
Hexagon nut 3/8" zinced	411752	
MW-EB 3/8 CL 3.0 6ft/2m	2331649	
MW-EB 3/8 CL 3.0 10ft/3m	2331650	
MW-EB 3/8 CL 3.0 20ft/6m	2331651	
Z-Hanger and Connection		
MVA-ZP Z-Hanger suitable for 2mm and 3mm wire	411499	
Hexagon nut 3/8" zinced	411752	
Washer zinc 3/8"	411757	
Self-tapping Screws		
Zip Screw 10-12 x 3/4" HHWH HVAC 1k	423252	



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A I' +!	D	Dana material
Application	Description	Base material
	Wire system - Ventilation	Steel
	- Z-hangers on structural	
	steel - MT system	

#### Comments

- Loading must always be compared with the capacity of all connected parts
- Only for vertically suspended loads. Not suitable for bracing

#### **Product lines**

Wire system
MT system
Z-hangers

The published data is a typical application the suitability for a specific project, design, or jobsite must be assessed by the Engineer of Record for the project. All product's must be used according to the manufacturer's instructions for use and within the application limits as published.



# VENTILATION - Z-HANGERS FIXED ON STRUCTURAL STEEL - LOOPING THE PROFILE

#### **Loop Combo**



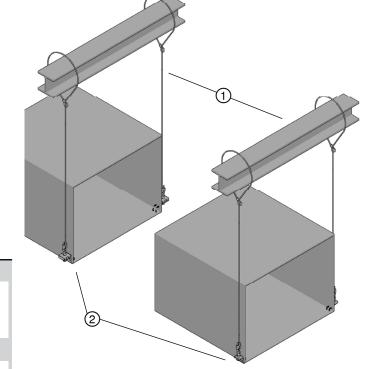
#### 1 Looping the profile with 2.0 mm wire

<u> </u>		
Description	Item No.	
MW-LP CL 2.0 6ft/2m	2331655	
MW-LP CL 2.0 10ft/3m	2331656	
MW-LP CL 2.0 20ft/6m	2331657	
② Z-Hanger and Connection		
MVA-Z Z-Hanger suitable for 2mm	411499	
Hexagon nut 3/8" zinced	411752	
Washer zinc 3/8"	411757	
Self-tapping Screws		
Zip Screw 10-12 x 3/4" HHWH HVAC 1k	423252	

### Screw anchor, premium Z-hanger 3.0 mm wire

Description	Item No.	
MW-LP CL 3.0 6ft/2m	2331661	
MW-LP CL 3.0 10ft/3m	2331662	
MW-LP CL 3.0 20ft/6m	2331663	
Z-Hanger and Connection		
MVA-ZP Z-Hanger suitable for 2mm and 3mm wire	411499	
Hexagon nut 3/8" zinced	411752	
Washer zinc 3/8"	411757	
Self-tapping Screws		
Zip Screw 10-12 x 3/4" HHWH HVAC 1k	423252	





# Application Description Base material Wire system - Ventilation - Z-hangers on structural steel - Looped

#### Comments

- Loading must always be compared with the capacity of the structural steel and all connected parts
- Sharp edges must be avoided to prevent damage to the wire

#### **Product lines**

Wire system
MT system
Z-hangers

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# VENTILATION / CABLE TRAY<sup>1</sup> - TRAPEZE FIXED ON CONCRETE SLAB - MT SYSTEM

#### **Eyebolt Combo**

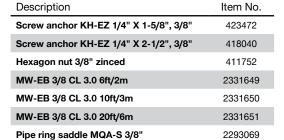


### ① Screw anchor, 1/4" support 2.0 mm wire

Description	Item No.
Screw anchor KH-EZ 1/4" X 1-5/8", 1/4"	423471
Screw anchor KH-EZ 1/4" X 2-1/2", 1/4"	418039
Hexagon nut 1/4" zinced	411751
MW-EB 1/4 CL 2.0 6ft/2m	2331643
MW-EB 1/4 CL 2.0 10ft/3m	2331644
MW-EB 1/4 CL 2.0 20ft/6m	2331645
Pipe ring saddle MQA-S 3/8"	2293069

### ② Screw anchor, 3/8" support 3.0 mm wire





#### ③ Flush (drop-in) anchor, 1/4" support 2.0 mm wire

Description	Item No.
Flush anchor HDI+ 1/4"	409492
Flush anchor HDI-L+ 1/4"	409495
Flush anchor HDI-P+ 1/4"	409498
Hexagon nut 1/4" zinced	411751
MW-EB 1/4 CL 2.0 6ft/2m	2331643
MW-EB 1/4 CL 2.0 10ft/3m	2331644
MW-EB 1/4 CL 2.0 20ft/6m	2331645
Pipe ring saddle MQA-S 3/8"	2293069

Ap	plication	Description	Base material
		Wire system - Ventilation - Trapeze on concrete - Also suitable for cable tray	Concrete
Comments Product lines			Product lines
٠	Loading must always be compared with the capacity of the anchor within the chosen base material		Wire system MT system
•	Only for vertical suitable for brain	ally suspended loads. Not acing	

### 4 Flush (drop-in) anchor, 3/8" support 3.0 mm wire

Description	Item No.
Flush anchor HDI+ 3/8"	409493
Flush anchor HDI-L+ 3/8"	409496
Flush anchor HDI-P+ 3/8"	409499
Hexagon nut 3/8" zinced	411752
MW-EB 3/8 CL 3.0 6ft/2m	2331649
MW-EB 3/8 CL 3.0 10ft/3m	2331650
MW-EB 3/8 CL 3.0 20ft/6m	2331651
Pipe ring saddle MQA-S 3/8"	2293069

#### ⑤ Channels

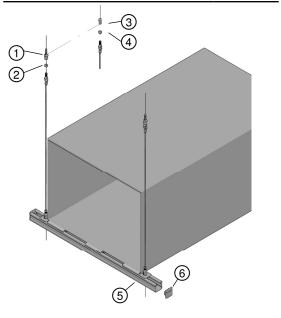
	Description	Item No.
11	MT-10 '2 meter - 'L' channel*	2268492
	MT-15 1 2 meter - 'L' channel*	2268493
	MT-20 1 3 meter - 'C' channel with open face*	2268495
	MT-30 1 6 meter - 13/16" equivalent strut channel	2268498
	MT-50 1 6 meter - 12 ga. 1-5/8" equivalent strut channel	2268510

 $<sup>^{\</sup>star}$  MQA-S not compatible with 'L' and 'C' Channel, substitute a standard nut and washer



#### 6 Channel plastic end caps

Description	Item No.
MT-EC-20 50 Plastic end cap - MT 20	2282197
MT-EC-30 50 Plastic end cap - MT 30	2273642
MT-EC-40/50 50 Plastic end cap - MT 40/50	2273643



 $<sup>^{\</sup>mathrm{1}}$  For UL 1598 Lighting Applications - see UL File E522519 or product packaging for Rated Load Values

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### VENTILATION / CABLE TRAY1 - TRAPEZE FIXED ON A SIDE OF A CONCRETE GIRDER

#### **Loop Combo**



Description	Item No.
MW-C clip	2287563
Screw anchor KH-EZ 1/4" X 3"	418046
Screw anchor KH-EZ 1/4" X 3-1/2"	418047
Screw anchor KH-EZ 1/4" X 4"	418048
MW-LP CL 2.0 6ft/2m	2331655
MW-LP CL 2.0 10ft/3m	2331656
MW-LP CL 2.0 20ft/6m	2331657
Pipe ring saddle MQA-S 3/8"	2293069

#### 2 Clip attachment 3.0 mm wire

Description	Item No.
MW-C clip	2287563
Screw anchor KH-EZ 3/8" X 3"	418057
Screw anchor KH-EZ 3/8" X 3-1/2"	418058
Screw anchor KH-EZ 3/8" X 5"	418061
MW-LP CL 3.0 6ft/2m	2331661
MW-LP CL 3.0 10ft/3m	2331662
MW-LP CL 3.0 20ft/6m	2331663
Pipe ring saddle MQA-S 3/8"	2293069

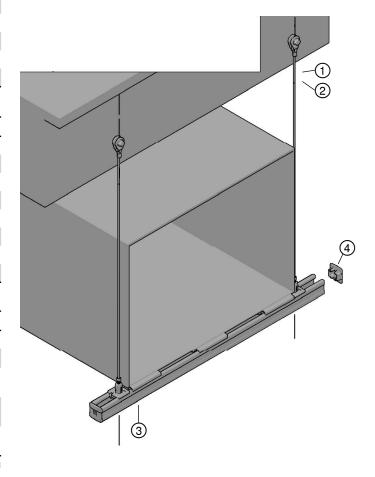
#### (3) Channels

Description	Item No.
MT-10 '2 meter - threaded rod light 'L' channel	2268492
MT-15 1 2 meter - threaded rod light 'L' channel	2268493
MT-20 1 3 meter - threaded rod light 'C' channel with open face	2268495
MT-30 1 6 meter - 13/16" equivalent strut channel	2268498
MT-50 1 6 meter - 12 ga. 1-5/8" equivalent strut channel	2268510

<sup>\*</sup> MQA-S not compatible with 'L' and 'C' Channel, substitute a standard nut and washer

#### 4 Channel plastic end caps

Description	Item No.
MT-EC-20 50 Plastic end cap - MT 20	2282197
MT-EC-30 50 Plastic end cap - MT 30	2273642
MT-EC-40/50 50 Plastic end cap - MT 40/50	2273643



#### **Application**

#### **Description**

Wire system - Ventilation - Trapeze on a side of a concrete girder

Comments

Loading must always be compared with the capacity of the anchor within the chosen base material. This capacity is affected by the angle of loading from the vertical and the prying

· Only one wire may be suspended vertically on each clip

Base material	Product lines

Concrete Wire system MT system

<sup>1</sup>For UL 1598 Lighting Applications - see UL File E522519 or product packaging for Rated Load Values

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# VENTILATION / CABLE TRAY¹ - TRAPEZE FIXED ON A SIDE OF A STRUCTURAL STEEL PROFILES USING BEAM CLAMPS

#### **Eyebolt Combo**



#### 1) Threaded beam clamp 2.0 mm wire

Description	Item No.
Beam clamp BC-EG 1/4"	258002
Threaded rod 1/4" X 6' zinced	257963
Threaded rod connector 1/4" zinced	411746
Hexagon nut 1/4" zinced	411751
MW-EB 1/4 CL 2.0 6ft/2m	2331643
MW-EB 1/4 CL 2.0 10ft/3m	2331644
MW-EB 1/4 CL 2.0 20ft/6m	2331645
Pipe ring saddle MQA-S 3/8"	2293069

#### 2 Threaded beam clamp 3.0 mm wire

Description	Item No.
Beam clamp BC 3/8"	257366
Threaded rod 3/8" X 6'	257969
Threaded rod connector 3/8" zinced	411747
Hexagon nut 3/8" zinced	411752
MW-EB 3/8 CL 3.0 6ft/2m	2331649
MW-EB 3/8 CL 3.0 10ft/3m	2331650
MW-EB 3/8 CL 3.0 20ft/6m	2331651
Pipe ring saddle MQA-S 3/8"	2293069

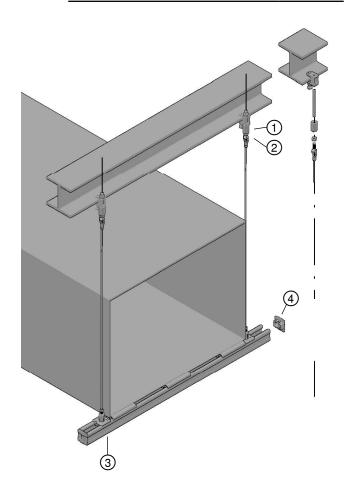
#### **3 Channels**

Description	Item No.
MT-10 '2 meter - 'L' channel	2268492
MT-15 1 2 meter - 'L' channel	2268493
MT-20 1 3 meter - 'C' channel with open face	2268495
MT-30 1 6 meter - 13/16" equivalent strut channel	2268498
MT-50 1 6 meter - 12 ga. 1-5/8" equivalent strut channel	2268510

<sup>\*</sup> MQA-S not compatible with 'L' and 'C' Channel, substitute a standard nut and washer

#### 4 Channel plastic end caps

Description	Item No.
MT-EC-20 50 Plastic end cap - MT 20	2282197
MT-EC-30 50 Plastic end cap - MT 30	2273642
MT-EC-40/50 50 Plastic end cap - MT 40/50	2273643



#### **Application**

#### Description

Wire system - Ventilation - Trapeze on structural steel profiles - Beam clamps

# Comments

Loading must always be compared with the capacity of the beam clamp and structural

Only for vertically suspended loads. Not suitable for bracing

Base material	Product lines
Steel	Wire system
	MT system

<sup>&</sup>lt;sup>1</sup>For UL 1598 Lighting Applications - see UL File E522519 or product packaging for Rated Load Values

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# VENTILATION / CABLE TRAY<sup>1</sup> - TRAPEZE FIXED ON A STRUCTURAL STEEL PROFILES CENTRIC SOLUTION USING MT CHANNEL SYSTEM

#### **Eyebolt Combo**



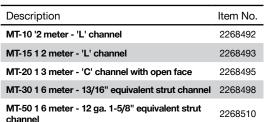
### ① Centric fixation of MT system channel, 2.0 mm wire

Description	Item No.
MQT-U Beam clamp	2301108
MT-30 13/16" equivalent strut	2268498
Pipe ring saddle MQA-F 1/4"	377884
Hexagon nut 1/4" zinced	411751
MW-EB 1/4 CL 2.0 6ft/2m	2331643
MW-EB 1/4 CL 2.0 10ft/3m	2331644
MW-EB 1/4 CL 2.0 20ft/6m	2331645
Pipe ring saddle MQA-S 3/8"	2293069

### ② Centric fixation of MT system channel, 3.0 mm wire

Description	Item No.
MQT-U Beam clamp	2301108
MT-30 13/16" equivalent strut	2268498
Pipe ring saddle MQA-S 3/8"	2293069
Hexagon nut 3/8" zinced	411752
MW-EB 3/8 CL 3.0 6ft/2m	2331649
MW-EB 3/8 CL 3.0 10ft/3m	2331650
MW-EB 3/8 CL 3.0 20ft/6m	2331651
Pipe ring saddle MQA-S 3/8"	2293069

#### ③ Channels

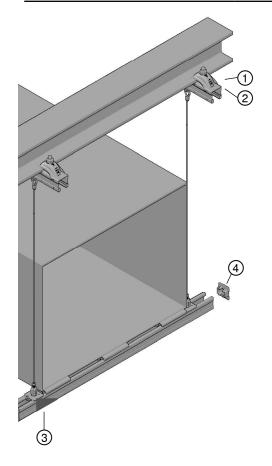


<sup>\*</sup> MQA-S not compatible with 'L' and 'C' Channel, substitute a standard nut and washer



#### 4 Channel plastic end caps

Description	Item No.
MT-EC-20 50 Plastic end cap - MT 20	2282197
MT-EC-30 50 Plastic end cap - MT 30	2273642
MT-EC-40/50 50 Plastic end cap - MT 40/50	2273643



#### **Application**

#### Description

Wire system - Ventilation - Trapeze on structural steel - MT system channels

Comments

Loading must always be compared with the capacity of all connected parts

Only for vertically suspended loads. Not suitable for bracing

Base material	Product lines
Steel	Wire system
	MT system

<sup>&</sup>lt;sup>1</sup>For UL 1598 Lighting Applications - see UL File E522519 or product packaging for Rated Load Values

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# VENTILATION / CABLE TRAY¹ - TRAPEZE FIXED LOOPED AROUND STRUCTURAL STEEL PROFILES

#### **Loop Combo**

#### ① Looping the profile 2.0 mm wire



Description	Item No.
MW-LP CL 2.0 6ft/2m	2331655
MW-LP CL 2.0 10ft/3m	2331656
MW-LP CL 2.0 20ft/6m	2331657
Pipe ring saddle MQA-S 3/8"	2293069

#### 2 Looping the profile 3.0 mm wire

Description	Item No.
MW-LP CL 3.0 6ft/2m	2331661
MW-LP CL 3.0 10ft/3m	2331662
MW-LP CL 3.0 20ft/6m	2331663
Pipe ring saddle MQA-S 3/8"	2293069



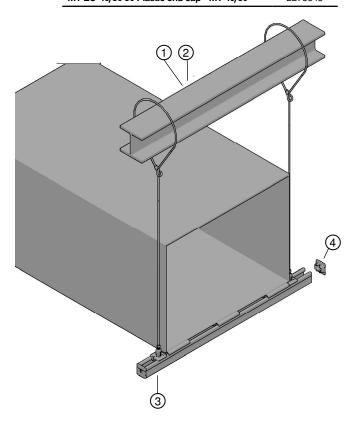
#### (3) Channels

Description	Item No.
MT-10 '2 meter - 'L' channel	2268492
MT-15 1 2 meter - 'L' channel	2268493
MT-20 1 3 meter - 'C' channel with open face	2268495
MT-30 1 6 meter - 13/16" equivalent strut channel	2268498
MT-50 1 6 meter - 12 ga. 1-5/8" equivalent strut channel	2268510

<sup>\*</sup> MQA-S not compatible with 'L' and 'C' Channel, substitute a standard nut and washer

#### 4 Channel plastic end caps

Description	Item No.
MT-EC-20 50 Plastic end cap - MT 20	2282197
MT-EC-30 50 Plastic end cap - MT 30	2273642
MT-EC-40/50 50 Plastic end cap - MT 40/50	2273643



#### Application Description



Comments

Wire system - Ventilation trapeze looped around structural steel profiles

Loading must always be compared with the capacity of the structural steel

- Sharp edges must be avoided to prevent damage to the wire
- Only for vertical suspended loads. Not suitable for bracing

Base material	Product lines
Steel	Wire system
	MT system

<sup>&</sup>lt;sup>1</sup> For UL 1598 Lighting Applications - see UL File E522519 or product packaging for Rated Load Values

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### VENTILATION UNIT, LIGHT FIXTURE<sup>1</sup>, OR CEILING PANEL ON A CONCRETE SLAB

#### **Eyebolt Combo**



#### 1) Screw anchor, 1/4" support 2.0 mm wire

Description	Item No.
Screw anchor KH-EZ 1/4" X 1-5/8", 1/4"	423471
Screw anchor KH-EZ 1/4" X 2-1/2", 1/4"	418039
Hexagon nut 1/4" zinced	411751
MW-EB 1/4 L 2.0 6ft/2m	2331640
MW-EB 1/4 L 2.0 10ft/3m	2331641
MW-EB 1/4 L 2.0 20ft/6m	2331642

#### 2 Screw anchor, 3/8" support 3.0 mm wire

Description	Item No.
Screw anchor KH-EZ 1/4" X 1-5/8", 3/8"	423472
Screw anchor KH-EZ 1/4" X 2-1/2", 3/8"	418040
Hexagon nut 3/8" zinced	411752
MW-EB 3/8 L 3.0 6ft/2m	2331646
MW-EB 3/8 L 3.0 10ft/3m	2331647
MW-EB 3/8 L 3.0 20ft/6m	2331648

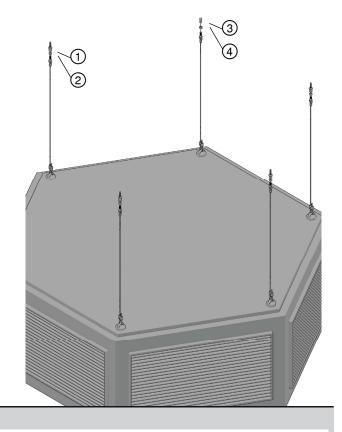


#### ③ Flush (drop-in) anchor, 1/4" support 2.0 mm wire

Description	Item No.
Flush anchor HDI+ 1/4"	409492
Flush anchor HDI-L+ 1/4"	409495
Flush anchor HDI-P 1/4"	409498
Hexagon nut 1/4" zinced	2184504
MW-EB 1/4 L 2.0 6ft/2m	2331640
MW-EB 1/4 L 2.0 10ft/3m	2331641
MW-EB 1/4 L 2.0 20ft/6m	2331642

#### 4 Flush (drop-in) anchor, 3/8" support 3.0 mm wire

Description	Item No.
Flush anchor HDI+ 3/8"	409493
Flush anchor HDI-L+ 3/8"	409496
Flush anchor HDI-P+ 3/8"	409499
Hexagon nut 3/8" zinced	411752
MW-EB 3/8 L 3.0 6ft/2m	2331646
MW-EB 3/8 L 3.0 10ft/3m	2331647
MW-EB 3/8 L 3.0 20ft/6m	2331648



#### **Application**

#### **Description**



Comments

Wire system - Ventilation unit on concrete slab

Loading must always be compared with the capacity of the anchor within the chosen base material and all connected parts

Only for vertically suspended loads. Eye-bolt not suitable for bracing

**Base material** 

Concrete

#### **Product lines**

Wire system

Anchors

<sup>&</sup>lt;sup>1</sup> For UL 2239 Lighting Applications - see UL File E217969 or product packaging for Rated Load Values

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VENTILATION UNIT LIGHT FIXTURE<sup>1</sup>, OR CEILING PANEL

ON A CONCRETE GIRDER

#### **Loop Combo**

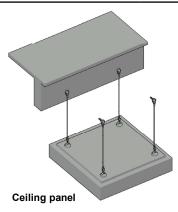
#### 1 Clip attachment 2.0 mm wire

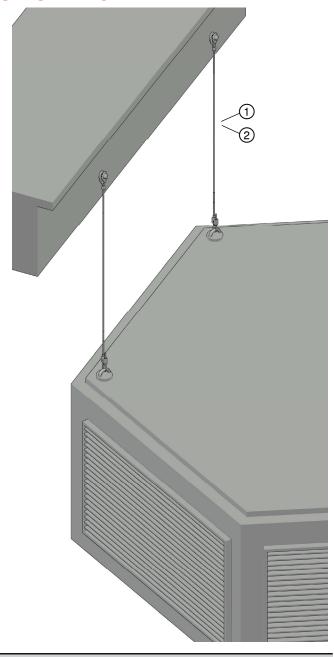


Description	Item No.
MW-C clip	2287563
Screw anchor KH-EZ 1/4" X 3"	418046
Screw anchor KH-EZ 1/4" X 3-1/2"	418047
Screw anchor KH-EZ 1/4" X 4"	418048
MW-LP L 2.0 6ft/2m	2331652
MW-LP L 2.0 10ft/3m	2331653
MW-LP L 2.0 20ft/6m	2331654

#### 2 Clip attachment 3.0 mm wire

Description	Item No.
MW-C clip	2287563
Screw anchor KH-EZ 3/8" X 3"	418057
Screw anchor KH-EZ 3/8" X 3-1/2"	418058
Screw anchor KH-EZ 3/8" X 5"	418061
MW-LP L 3.0 6ft/2m	2331658
MW-LP L 3.0 10ft/3m	2331659
MW-LP L 3.0 20ft/6m	2331660





#### **Application**

#### **Description**



Comments

Wire system - Ventilation unit on concrete girder

Loading must always be compared with the capacity with the capacity of all connected parts and the anchor within the chosen base material. This capacity is affected by the

· Only one wire may be suspended on each clip

Base material	<b>Product lines</b>	

angle of loading from the vertical and the prying factor

Concrete Wire system Anchors

<sup>&</sup>lt;sup>1</sup> For UL 2239 Lighting Applications - see UL File E217969 or product packaging for Rated Load Values

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### VENTILATION UNIT LIGHT FIXTURE<sup>1</sup>, OR CEILING PANEL FIXED ON STRUCTURAL STEEL PROFILES - BEAM CLAMPS

#### **Eyebolt Combo**

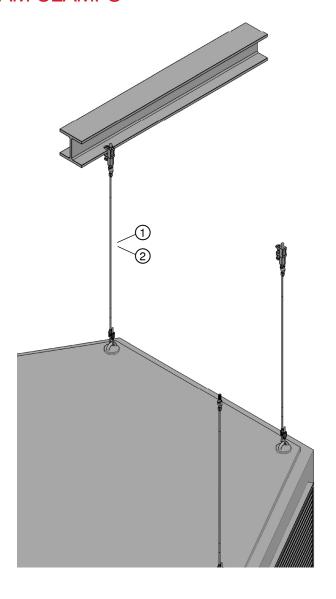


#### 1) Threaded beam clamp 2.0 mm wire

Description	Item No.
Beam clamp BC-EG 1/4"	258002
Threaded rod 1/4" X 6' zinced	257963
Threaded rod connector 1/4" zinced	411746
Hexagon nut 1/4" zinced	411751
MW-EB 1/4 L 2.0 6ft/2m	2331640
MW-EB 1/4 L 2.0 10ft/3m	2331641
MW-EB 1/4 L 2.0 20ft/6m	2331642

#### 2 Threaded beam clamp 3.0 mm wire

Description	Item No.
Beam clamp BC 3/8"	257366
Threaded rod 3/8" X 6'	257969
Threaded rod connector 3/8" zinced	411747
Hexagon nut 3/8" zinced	411752
MW-EB 3/8 L 3.0 6ft/2m	2331646
MW-EB 3/8 L 3.0 10ft/3m	2331647
MW-EB 3/8 L 3.0 20ft/6m	2331648



#### **Application**

#### **Description**



Comments

Wire system - Ventilation unit fixed on structural steel - Beam clamps

Loading must always be compared with the capacity of the structural steel and all connected parts

Only for vertically suspended loads. Not suitable for bracing

**Base material Product lines** Steel

Wire system Beam clamps

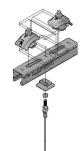
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<sup>&</sup>lt;sup>1</sup> For UL 2239 Lighting Applications - see UL File E217969 or product packaging for Rated Load Values



VENTILATION UNIT LIGHT FIXTURE<sup>1</sup>, OR CEILING PANEL FIXED ON STRUCTURAL STEEL PROFILES - MT CHANNEL

#### **Eyebolt Combo**



### ① Centric fixation of MT Channel 2.0 mm wire

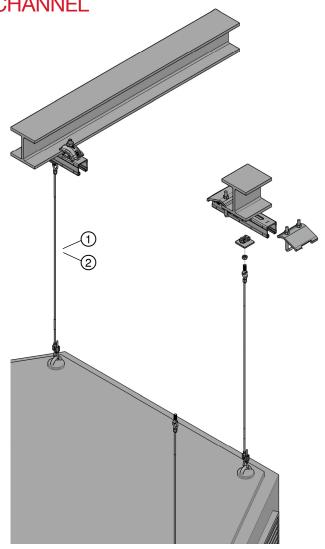
Description	Item No.
Beam clamp MQT-U	2301108
MT-30 13/16" equivalent strut	2268498
Pipe ring saddle MQA-F 1/4"	377884
Hexagon nut 1/4" zinced	411751
MW-EB 1/4 L 2.0 6ft/2m	2331640
MW-EB 1/4 L 2.0 10ft/3m	2331641
MW-EB 1/4 L 2.0 20ft/6m	2331642

### ② Centric fixation of MT Channel 3.0 mm wire

Description	Item No.
Beam clamp MQT-U	2301108
MT-30 13/16" equivalent strut	2268498
Pipe ring saddle MQA-S 3/8"	2293069
Hexagon nut 3/8" zinced	411752
MW-EB 3/8 L 3.0 6ft/2m	2331646
MW-EB 3/8 L 3.0 10ft/3m	2331647
MW-EB 3/8 L 3.0 20ft/6m	2331648







#### Application

#### **Description**



Comments

Wire system - Ventilation unit fixed on structural steel - MT Channel

Loading must always be compared with the capacity of the steel beam and all connected parts

Only for vertically suspended loads. Not suitable for bracing

Base material	Product lines
Steel	Wire system

Beam clamps MT Channel

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<sup>&</sup>lt;sup>1</sup> For UL 2239 Lighting Applications - see UL File E217969 or product packaging for Rated Load Values



# VENTILATION UNIT LIGHT FIXTURE<sup>1</sup>, OR CEILING PANEL FIXED ON STRUCTURAL STEEL PROFILES - LOOPED

#### **Loop Combo**



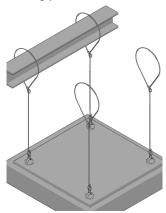
#### ① Looping the profile 2.0 mm wire

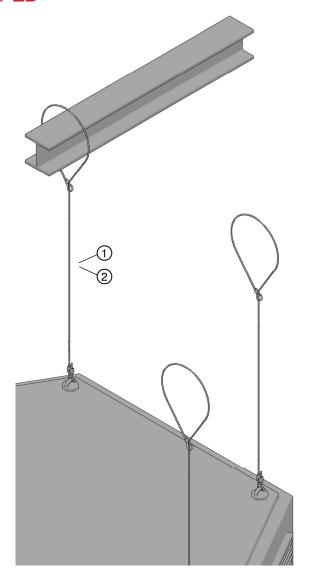
Description	Item No.
MW-LP L 2.0 6ft/2m	2331652
MW-LP L 2.0 10ft/3m	2331653
MW-LP L 2.0 20ft/6m	2331654

#### 2 Looping the profile 3.0 mm wire

Description	Item No.
MW-LP L 3.0 6ft/2m	2331658
MW-LP L 3.0 10ft/3m	2331659
MW-LP L 3.0 20ft/6m	2331660







	oplication	Description			
Loading must always be compared with the capacity of the structural steel and all connected parts  Wire system  Output  Description:	Wire system - Ventilation unit fixed on structural steel - Looped				
connected parts	omments		Base material	Product lines	
Sharp edges must be avoided to prevent damage to the wire	•		Steel	Wire system	
enamp angua mananan an pranamanga an ama	Sharp edges m	ust be avoided to prevent damage to the wire			

 $<sup>^{1}\</sup>mathrm{For}\,\mathrm{UL}\,2239\,\mathrm{Lighting}\,\mathrm{Applications}$  - see UL File E217969 or product packaging for Rated Load Values

The published data is a typical application the suitability for a specific project, design, or jobsite must be assessed by the Engineer of Record for the project. All product's must be used according to the manufacturer's instructions for use and within the application limits as published.



# MECHANICAL / ELECTRICAL HANGING SOLUTIONS MW-SPECIFIC GENERAL NOTES

- This application is for static loading only not including lifting or nor accessed by persons.
- Hilti wire ropes are manufactured according ASTM-A1023 and are not pre-stretched. When installing, it must be
  considered that the wire ropes undergo a constructional stretch (extension). The constructional stretch according
  ASTM-A1023 (extension) is the amount of extension that is attributed to the initial bedding down of wires within
  the strands and the strands within the rope due to loading. Initial extension cannot be determined by calculation.
  Stretching over time also uncertain. The height of the suspended parts can be adjusted with the lock.
- Please always refer to the latest instruction manual of the supported media, for example: pipes or cable trays, structures and attachments. The media needs to withstand the local wire rope force, taking into account the angle of loading.
- The wire rope shall not be connected with a hardened steel (max. 170 HB) interface.
- The wire rope interface shall be free of sharp corners (min. 0.5mm x 45° or radius 0.5mm with a minimum thickness of 5mm) to avoid local damage of the wire rope.
- Check that all parts are not damaged before installing. For example, a bent wire will not fit properly in the lock or could disable the locking mechanism.
- Only one wire may be suspended from each connector and/or anchor.
- · Before installing, the instructions for use must be consulted.
- Oil, grease, paint and dirt can reduce the load capacity of the wire system and must be avoided.
- The load capacity values are only valid when this system is used exclusively with Hilti locks, wires, and connectors
  in the recommended combinations shown in the ITM. Capacity of the anchor within the chosen base material must
  always be checked independently.
- Ensure the correct Wire Rope cutting tool is used to cut the wire, as shown in the instructions for use. The cut wire end must be protected from fraying. If the wrong cutting tool is used the wire may not fit into the lock or could unravel over time.
- The wire system locks, MW-L and MW-CL together with wire can be reused maximum 3 times during installation (loaded to maximum load), for the purpose of adjusting the position. Without loading the locks can be repositioned as many times as necessary. The MW-C clip is single-use only.
- For all MW-EB eye-bolt loop applications the load must be applied such that the eye-bolt and wire are aligned (±5°). Counter nuts must be used as shown in the ITM to ensure the eye-bolt does not loosen over time.
- For any applications requiring angles > 5° the MW-C clip in combination with MW-LP wire loop must be used.



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The data contained in this literature was current as of the date of publication. Updates and changes may be made based on later testing. If verification is needed that the data is still current, please contact the Hilti Technical Support Specialists at 1-800-879-8000. All published load values contained in this literature represent the results of testing by Hilti or test organizations. Local base materials were used. Because of variations in materials, on-site testing is necessary to determine performance at any specific site. Laser beams represented by red lines in this publication. Printed in the United States.