Channel selector: EI&T and HVAC support

SUPPORT CHANNELS FOR EI&T AND HVAC

Mekano® channels with a rectangular hole pattern are ideally suited for EI&T and HVAC disciplines. With the rectangular hole pattern you get full flexibility in transverse and angular adjustments. The table below shows maximum recommended size of the most typical configurations - U, L,T or cantilever supports - for each channel.

TYPICAL SUPPORT CONFIGURATIONS - MAXIMUM WIDTH AND HEIGHT

CH50-1
Art. no.: 1371687 (3m)

	↔	↕
U	0.5	1
L	■	■
T	■	■
Cantilever	■	

CH50-2
Art. no.: 1371689 (3m)

	↔	↕
U	0.5	3
L	■	■
T	■	■
Cantilever	■	

CH100-1
Art. no.: 1371685 (3m)

	↔	↕
U	1	3
L	■	■
T	■	■
Cantilever	■	

CH50-2T1.5
Art. no.: 1372181 (3m)
Art. no.: 1372191 (5.9m)

	↔	↕
U	0.7	3
L	■	1
T	■	1
Cantilever	0.5	

CH50-2T1.5 10/6
Art. no.: 91170 (3m)

	↔	↕
U	0.7	3
L	■	1
T	■	1
Cantilever	0.5	

CH50-2T2
Art. no.: 1372182 (3m)
Art. no.: 1372192 (5.9m)

	↔	↕
U	0.7	3
L	0.4	1
T	2x0.4	1
Cantilever	0.5	

CH100-2T2
Art. no.: 1372184 (3m)
Art. no.: 1372194 (5.9m)

	↔	↕
U	2	5.9*
L	0.6	1.5
T	2x0.6	1.5
Cantilever	1	

CH100-2T3 11x35
Art. no.: 91124 (3m)
Art. no.: 91125 (5.9m)

	↔	↕
U	2.5	5.9*
L	0.6	1.5
T	2x0.6	1.5
Cantilever	1.2	

T- and L-frames require the use of gusset plate to follow recommendation.
**Additional bracing must be considered.*

■ Recommended ■ Can be used ■ Not recommended ↔ Max width (m) ↕ Max height (m)

LOAD DATA

The data is based on testing done according to IEC 61537 “Cable management – Cable tray systems and cable ladder systems” specifications.
The safe working load (SWL) includes a safety factor of 1.7.
The load is according to specification from IEC 61537. Contact us for complete test reports and more detail.

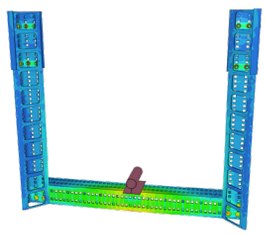
Support Configuration	Width (m)	Height (m)	CH100-1 x CH50-2T2 SWL (kg)	CH50-2T1.5 SWL (kg)	CH50-2T2 SWL (kg)	CH100-2T2 SWL (kg)	CH100-2T3 11x35 SWL (kg)
U-frame	1	1	1294	941	1235	2000	-
	2.05	1	■	■	■	765	1350
L-frame	0.4	0.6	■	■	200	-	-
	0.4	1	■	■	194	720	-
	0.6	1	■	■	76	510	-
	0.6	1.5	■	■	■	560	-
T-frame*	0.4x0.4	0.8	■	■	382	-	-
	0.5x0.5	1	■	■	■	764	-
Cantilever	0.6		■	■	■	240	-
	0.8		■	■	■	200	-

**Loads based on equal loading on both sides, total load on frame given above.*

Channel selector: Multidiscipline incl. pipe support

SUPPORT CHANNELS FOR MULTI-DICIPLINE SUPPORT

Mekano® channels with a square hole pattern are ideally suited for heavy duty supports. With the square hole pattern you get a secure fit in all directions. The table below shows maximum recommended size of the most typical configurations - U, L,T or cantilever supports - for each channel.



TYPICAL SUPPORT CONFIGURATIONS - MAXIMUM WIDTH AND HEIGHT

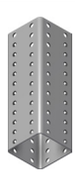
CH50-2T2.5
Art. no.: 1372183 (3m)
Art. no.: 1372193 (5.9m)

	↔	↕
U	0.7	3
L	0.4	1
T	2x0.4	1
Cantilever	0.5	

CH100-2T3
Art. no.: 1372185 (3m)
Art. no.: 1372195 (5.9m)

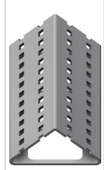
	↔	↕
U	3	5.9*
L	0.6	1.5
T	2x0.6	1.5
Cantilever	1.2	

CH100-4
Art. no.: 1372531 (6m)



	↔	↕
U	3	5.9*
L	0.6	2
T	2x0.6	3
Cantilever	1	

CH125-2T5**
Art. no.: 1303398 (3m)



	↔	↕
U	3	5.9*
L	0.6	2
T	2x0.6	3
Cantilever	1.2	

T- and L-frames require the use of gusset plate to follow recommendation.
**Additional bracing must be considered. **Use splice for 5.9 m.*

Recommended | Can be used | Not recommended | ↔ Max width (m) | ↕ Max height (m)

LOAD DATA

Precision for decision - P4D®
P4D® is an advanced analysis tool developed to predict the mechanical behaviour of Mekano® systems. Robust finite element technology delivers extreme accuracy and allows for precise system selection. This allows us to go further in reducing your project's weight and cost. All our typical multi-discipline support solutions are pre-engineered with P4D®.

We can offer load tables (P4D® Matrix) and full documentation of specific solutions (P4D® Reports) as part of our lifecycle engineering support package. Please contact us for additional information about our engineering support offering.

Load data powered by P4D®. Loads given in kN, deflection allowance: L/200. Data in table for channels in SS material.

Support Configuration	Width (m)	Height (m)	CH50-2T2.5 (kN)	CH100-2T3 (kN)	CH125-2T5 (kN)
U-frame	0.5	0.5	6.3**	22.4	61.4
	1	1	■	14.5	36
	2	2	■	6.4	15.8
	3	3	■	3.1	9.2
L-frame	0.4	0.5	-	1.75	5.6
	0.4	0.6	0.2**	-	-
	0.4	1	0.2**	1.5	5.3
	0.4	1.5	■	1.45	4.6
	0.6	0.5	■	0.9	3.0
	0.6	1	■	0.8	3.0
	0.6	1.5	■	0.8	2.7
T-frame*	0.4x0.4	1	2.5**	18	48.8
	0.5x0.5	1	■	13.2	32.6
	0.6x0.6	1	■	10.5	31.3
Cantilever	0.4		1.3	7.35	16.2
	0.5		0.5	-	-
	0.6		■	3.8	9.5
	0.8		■	2.35	6.35
	1		■	1.6	4.6

**Loads based on equal loading on both sides, total load on frame given above. **With gusset plate.*