

EI&T AND HVAC SUPPORT

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.

Recommended ■
 Can be used ■
 Not recommended ■

Max width (m) \longleftrightarrow
 Max height (m) \updownarrow

CH50-1 Grid: (0.5, 1) is green, others are red.	CH50-2 Grid: (0.5, 3) is orange, others are red.	CH100-1 Grid: (1, 3) is orange, others are red.	CH50-2T1.5 Grid: (0.7, 3) is green, (0.7, 1) and (1, 1) are red, (0.5) is orange.
CH50-2T1.5 10/6 Grid: (0.7, 3) is green, (0.7, 1) and (1, 1) are red, (0.5) is orange.	CH50-2T2 Grid: (0.7, 3) is green, (0.4, 1) and (2x0.4, 1) are orange, (0.5) is orange.	CH100-2T2 Grid: (2, 5.9*) is green, (0.6, 1.5) is orange, (2x0.6, 1.5) and (0.6) are orange.	CH100-2T3 11x35 Grid: (3, 5.9*) is green, (0.6, 1.5) is orange, (2x0.6, 1.5) and (1) are orange.

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

The data is based on testing done according to IEC 61537 "Cable management - Cable tray systems and cable ladder systems" specifications, SWL includes a 1.7 safety factor. The load is according to specifications from IEC 61537. Contact us for complete test reports and more detail.

U-FRAME		Channel (height x width) CH50-2T2 x CH100-1	CH50-2T1.5	CH50-2T2	CH100-2T2	CH100-2T3 35x11
		Width (mm) Height (mm) SWL (kg)	1000 1000 941	1000 1000 1235	1000 1000 2000	2050 1000 765
L-FRAME		Channel CH50-2T2	CH100-2T2			
		Width (mm) Height (mm) SWL (kg)	400 600 200	400 1000 194	600 1000 76	400 1000 720
T-FRAME		Channel CH50 2T2	CH100 2T2			
		Width (mm) Height (mm) SWL (kg)	400x400 800 382	500x500 1000 764		
Loads based on equal loading on both sides, total load on frame given above.						
CANTILEVER		Channel CH100-2T2				
		Width (mm) SWL (kg)	600 240	800 200		

Channel Selector

MULTIDISCIPLINE - INCLUDING PIPE 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.

Recommended ■
 Can be used ■
 Not recommended ■

Max width (m) \longleftrightarrow
 Max height (m) \updownarrow

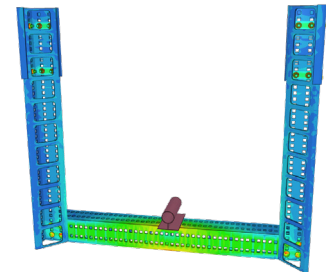
Channel	U-Frame	L-Frame	T-Frame	Cantilever
CH50 2T2.5	0.7 (Can be used)	3 (Recommended)	0.4 (Can be used)	1 (Can be used)
CH100-2T3	3 (Recommended)	5.9* (Recommended)	0.6 (Can be used)	1.5 (Can be used)
CH100-4	3 (Recommended)	5.9* (Recommended)	0.6 (Can be used)	2 (Can be used)
CH125-2T5**	3 (Recommended)	5.9* (Recommended)	0.6 (Can be used)	2 (Can be used)

T- and L-frames require the use of gusset plate to follow recommendation.
 *Additional bracing must be considered. **Delivered in 3 m lengths. Use splice for 5.9 m.

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 multidiscipline 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 below for SS channels.

Frame Type	Diagram	Width x height (mm)	500x500	1000x1000	2000x2000	3000x3000
U-FRAME		CH50-2T2.5*	6.3	■	■	■
		CH100-2T3	22.4	14.5	6.4	3.1
		CH125-2T5	61.4	36	15.8	9.2
		*With gusset plate.				
L-FRAME		CH50-2T2.5*	0.2**	0.2	■	■
		CH100-2T3	1.75	1.5	1.45	0.9
		CH125-2T5	5.6	5.3	4.6	3.0
		*With gusset plate. **Height 600 mm.				
T-FRAME		CH50-2T2.5*	(400x400)x1000	2.5	■	■
		CH100-2T3	(500x500)x1000	18	13.2	10.5
		CH125-2T5	(600x600)x1000	48.8	32.6	31.3
		Loads based on equal loading on both sides, total load on frame given above. *With gusset plate.				
CANTILEVER		CH50-2T2.5	400	1.3	0.5*	■
		CH100-2T3	600	7.35	3.8	2.35
		CH125-2T5	800	16.2	9.5	6.35
		*500 mm width.				