

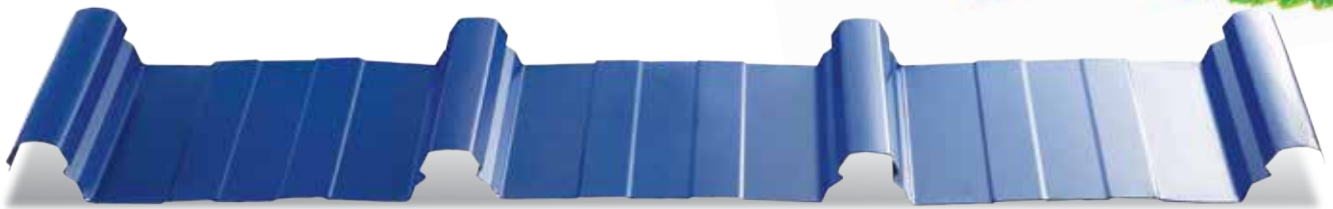


東興金屬工業有限公司  
THUNG HING METAL INDUSTRY SDN BHD  
(395096-D)



# TH<sup>®</sup> CLIP 710

CLIP LOCKING SYSTEM



# TH® CLIP 710 Locking System

- ❖ Long length high tensile metal roofing.
- ❖ Combines with smart fluted spans and a lock-action rib design.
- ❖ Steel substrate protected with corrosion inhibitive treatment.
- ❖ Roofing and walling profiles with material warranty up to 25 years\*.  
\* [Warranty terms & conditions apply.](#)
- ❖ Wider effective coverage width of 710mm and rib height of 39mm.
- ❖ Minimum roof pitch of 1°.
- ❖ Concealed fixing method with clip and locking system.
- ❖ Suitable for low pitched roofs like petrol stations, warehouses, exhibition halls, shop offices etc.



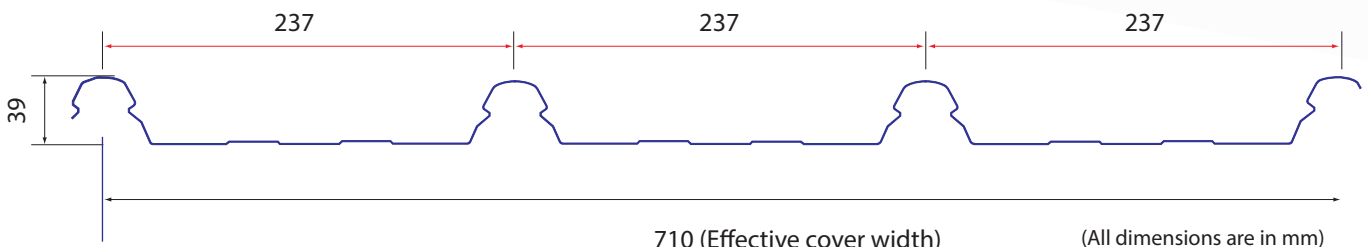
## DIMENSIONS



## PROFILE

Dimensions	
Rib Height	: 39mm
Effective Cover	: 710mm
Minimum roof pitch	: 1°**
** Subject to the roofing length	

Tolerance	
Thickness for material	: ±0.03mm
Effective width	: ±3mm
Finishing Length	: ±5mm



## TECHNICAL SPECIFICATIONS

### AVAILABLE THICKNESS

Base Metal Thickness (mm)	Total Coated Thickness (mm)	Weight per metre (kg/m)	Weight per sq metre (kg/m <sup>2</sup> )	Coverage per ton (m <sup>2</sup> /MT)	Steel Grade	Minimum Yield Strength (MPa)
0.35	0.40	2.67	3.77	265	ASTM A446-E	550
0.42	0.48	3.18	4.48	223	ASTM A446-E	550
0.48	0.55	3.61	5.08	197	ASTM A446-E	550

Base metal thickness (BMT) available are 0.35mm, 0.42mm & 0.48mm. Other thickness is upon request & available.

### MINIMUM FALL

The amount of water that must be shed increases with the length of the roof. To avoid possible back-up of water in severe wind conditions, the following recommended roof length should be considered as maximum for a given roof pitch and rain fall rate.

#### RECOMMENDED MAXIMUM ROOF LENGTH (M)

SLOPE IN DEGREE RAINFALL (mm/h)	1°	2°	3°	5°	7.5°
	250	130	168	198	245
300	110	142	165	200	247
400	85	99	120	155	185
500	67	85	100	124	148

### DISTRIBUTED LOAD CAPACITY - CONTINUOUS SPAN CONDITION

Thickness (mm) (TCT)	SPAN	mm	900	1050	1200	1350	1500	1650	1800	1950	2100
			0.48	Serviceability	kPa	3.07	2.50	2.10	1.55	1.16	0.88
Strength	kPa	4.90		4.11	3.61	2.93	2.32	1.88	1.56	1.30	1.04
0.55	Serviceability	kPa	4.25	3.37	2.56	1.86	1.29	0.93	0.67	0.58	0.51
	Strength	kPa	6.31	5.22	4.23	3.38	2.75	2.20	1.81	1.62	1.44

### MAXIMUM RECOMMENDED SPACING OF SUPPORTS

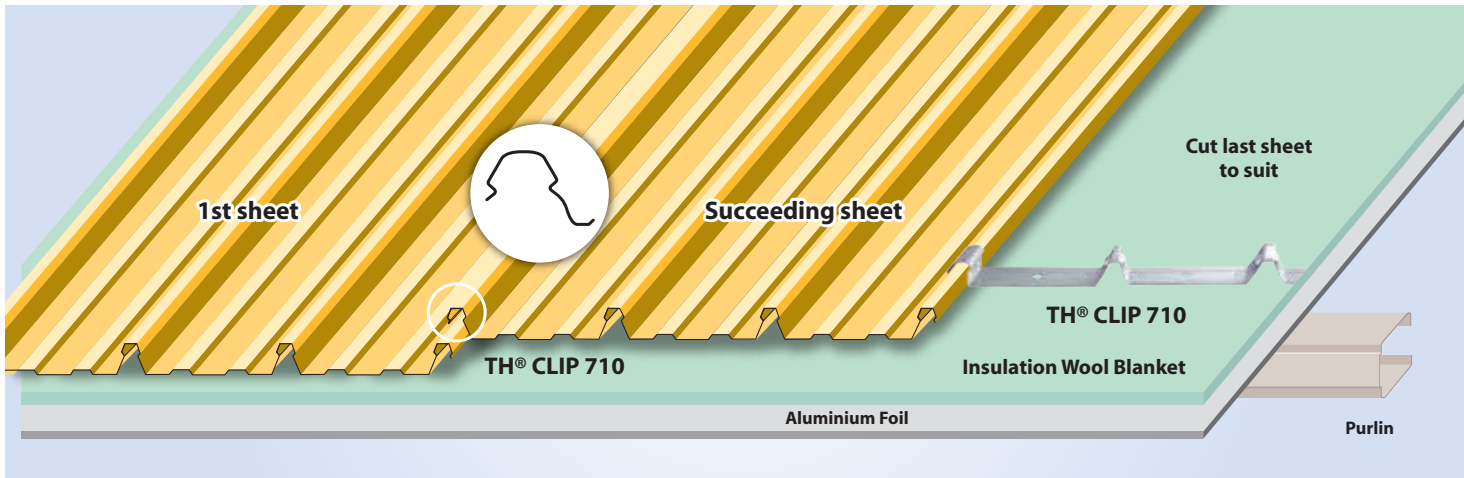
Thickness (mm) (TCT)	ROOF			WALL			Max Roof Overhand Unsupported
	Single Span	End Span	Internal Span	Single Span	End Span	Internal Span	
	mm	mm	mm	mm	mm	mm	
0.48	1600	1700	2200	2400	3000	3600	250
0.55	2000	2300	2800	2700	3300	3900	300

Note: - The roof overhang is not meant for human traffic.

All thickness are nominal and provisional. Tolerance may occur and it is subjected to change and variations in accordance to finished product's condition.

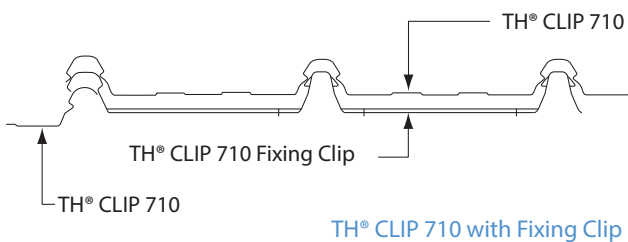
## INSTALLATION METHOD

The first sheet is positioned and then pressed over the fixing clip which must be accurately aligned and fixed to ensure positive engagement between the roof sheet and the fixing clips. A 'click' indicates a positive lock. The second and subsequent sheets are laid each time after a new set of fixing clips have been placed firmly over the male rib of the preceding sheets.



TH° CLIP 710 cannot be end lapped.

Please contact your nearest Thung Hing Metal Industry Sdn. Bhd. for advice on use of an expansion joints.  
(We use long length sheets from a mobile rollformer.)



TH° CLIP 710 with Fixing Clip



TH° CLIP 710 with Fixing Clip

## RECOMMENDED FASTENERS - 4 FASTENERS PER CLIP

### FIXING TO STEEL SUPPORTS

Thickness	No Insulation (Directly to supports)	Over Insulation Blanket
Up to 4.5mm	No. 10 - 12 x 25mm wafer head self-drilling steel screws.	Increase to 22mm long screw if required.
Exceed 4.5mm	No. 12 - 24 x 32mm wafer head self-drilling steel screws.	

### FIXING TO TIMBER SUPPORTS

Thickness	No Insulation (Directly to supports)	Over Insulation Blanket
Hardwood	No. 10 - 12 x 25mm wafer head self-drilling steel screws.	Increase to 45mm long screw if required.
Softwood	No. 10 - 12 x 45mm wafer head self-drilling steel screws.	



THUNG HING METAL INDUSTRY SDN BHD

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Lot P. T. 1353, Jalan Mohd Taib, Kawasan Industriarian Sg. Choh, 48000 Rawang, Selangor Darul Ehsan, Malaysia

Tel : (603) 6099 9999 (Hunting Line) Fax : (603) 6099 9922

Email: enquiries@thunghing.com <http://www.thunghing.com.my>