

Product
Catalogue

TH-TRUSS SYSTEM

BATTEN & C - CHANNEL





HQ Selangor

Founded in 1983, Thung Hing established itself as a fore runner of high quality steel products manufacturing, particularly building materials for the construction industry. Our ISO 9001 certified factories in Rawang Industrial area, Malaysia, manufactures products to meet the demands of our clients from all over the world.

From the humble beginnings of fixing residential roof gutters 20 years ago, passion and hard work have equipped Mr. Lee with skills and expertise in the metal works trade, not to mention earning him a steady customer base who seek the craftsmanship and superior quality that became synonymous with the Thung Hing name. Having grown the company industrially and strategically to date, Mr Lee's ambition and innovations continue to drive new product categories, value-added services and international quality assurance. This commitment to every customer will continue to write the Thung Hing legacy.



Kedah



Kelantan

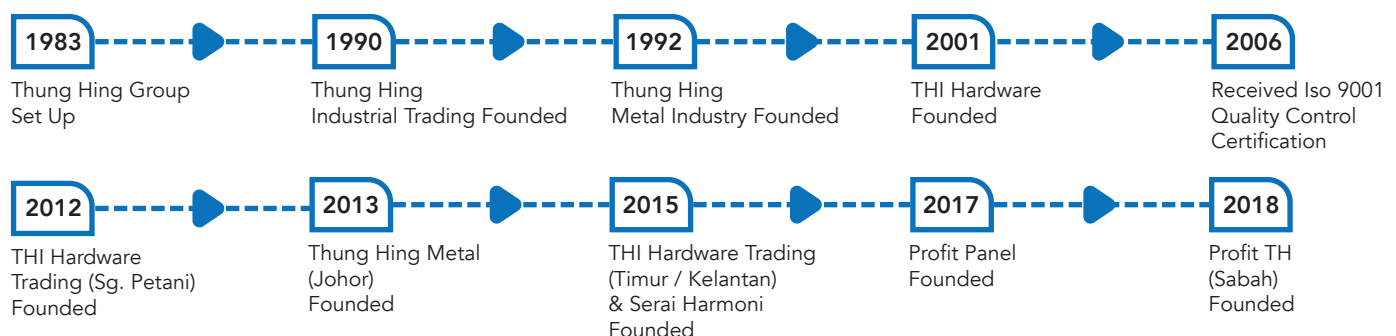


Johor



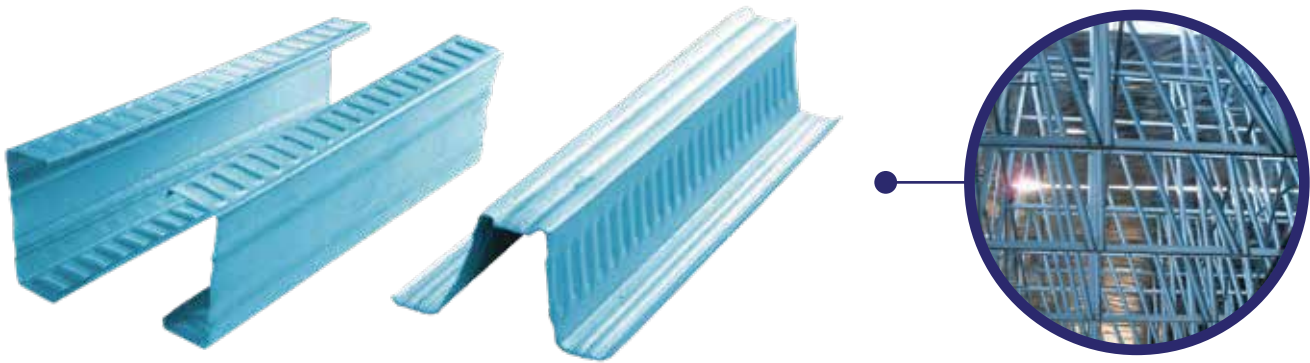
Sabah

Our Journey



TH TRUSS® SYSTEM

The innovative cold forming manufacturing process gives TH-Truss® a unique profile. This process provides maximum structural performance in terms of load carrying capacity, bending moment and deflection from the amount of steel employed. The patented process strengthens the steel in flanges giving TH-Truss® added strength where it is most effective.



STRONG Unique patented TH-Truss® profile delivers more structural performance.

10 Years Warranty to the steel roof structure.

THE MERIT OF THE TH-TRUSS® SYSTEM

- Strong, rigid and durable
- Lightweight and flexible (Up to 40% lighter than hot-rolled steel and engineered wood.)
- Cost effective, convenient to carry and to install
- 100% non-combustible roof framing
- Safe, hygienic and environmentally friendly
- Alternative decking or roofing material selection
- Complete line of connections, clips & installation products
- 100% prime steel & dimensionally stable
- Easy workability - can be cut, drilled, screwed and nailed with standard professional tools
- Corrosion protection - th-truss® section are protected against corrosion

ACCESSORIES



Screw-Class 2
Standard



Anchor Bolt



Triangle Grip



L-Bracket

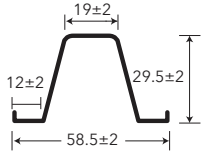


TH-Featured
Gutter

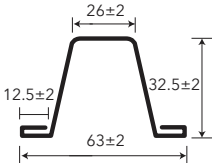


TH-Element Oak
Fascial Board

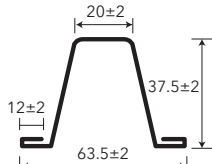
BATTEN SPECIFICATION



Batten 30

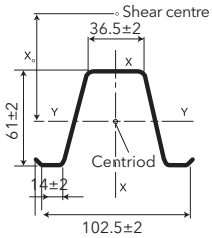


Batten 33

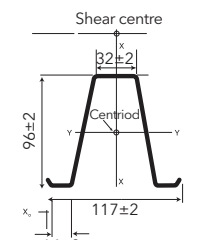


Batten 38

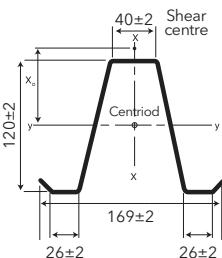
Batten Identification	Thickness BMT	Area	Weight	Section Moment of Area		Section Modulus		Radius of Gyration	
	mm			mm	(kg/m)	10^6mm^4	10^3mm^3	mm	mm
				I_{xx}	I_{yy}	Z_x	Z_y	R_x	R_y
TOPSPAN 30 Section Properties									
B3042	0.42	33.3	0.45	0.742	2.094	0.450	0.558	11.8	19.8
B3048	0.48	60.9	0.51	0.847	2.383	0.513	0.635	11.8	19.8
B3050	0.50	63.3	0.53	0.882	2.478	0.535	0.661	11.8	19.8
TOPSPAN 33 Section Properties									
B3342	0.42	51.7	0.45	0.829	1.678	0.512	0.533	12.7	18.0
B3348	0.48	59.0	0.51	0.946	1.911	0.584	0.607	12.7	18.0
B3350	0.50	61.4	0.53	0.983	1.988	0.608	0.631	12.7	18.0
TOPSPAN 38 Section Properties									
B3842	0.42	58.4	0.50	1.286	1.904	0.640	0.579	14.8	18.0
B3848	0.48	66.6	0.57	1.468	2.169	0.730	0.654	14.8	18.0
B3850	0.50	69.3	0.59	1.528	2.257	0.760	0.680	14.8	18.0



Catalogue Number	Base Metal Thickness t (BMT)	Area	Mass per Unit Length	Second Moment of Area (Full)		Shear centre to centroid distance	Section Modulus (Full)		Radius of Gyration		Torsion Constant	Warping Constant	Mono-symmetry Constant	
				I_x	I_y		X_o	Z_x	Z_y	r_x				r_y
				10^6mm^4	10^6mm^4		mm	10^3mm^3	10^3mm^3	mm				mm
TS6175	0.75	146	1.18	0.117	0.074	46.49	2.312	2.437	28.39	22.63	27.42	13.468	115.9	
TS6110	1.00	195	1.56	0.157	0.099	46.49	3.083	3.239	28.37	22.62	65.00	17.957	115.9	
TS6112	1.20	234	1.87	0.188	0.119	46.49	3.698	3.951	28.32	22.58	112.70	21.500	115.9	



Catalogue Number	Base Metal Thickness t (BMT)	Area	Mass per Unit Length	Second Moment of Area (Full)		Shear centre to centroid distance	Section Modulus (Full)		Radius of Gyration		Torsion Constant	Warping Constant	Mono-symmetry Constant	
				I_x	I_y		X_o	Z_x	Z_y	r_x				r_y
				10^6mm^4	10^6mm^4		mm	10^3mm^3	10^3mm^3	mm				mm
TS9675	0.75	207	1.68	0.205	0.242	71.76	3.533	4.922	31.43	34.19	38.91	55.08	160.6	
TS9610	1.00	277	2.22	0.273	0.323	71.76	4.711	6.563	31.43	34.19	92.22	73.44	160.6	
TS9612	1.20	322	2.65	0.328	0.388	71.76	5.653	7.875	31.93	34.73	159.4	88.12	160.6	



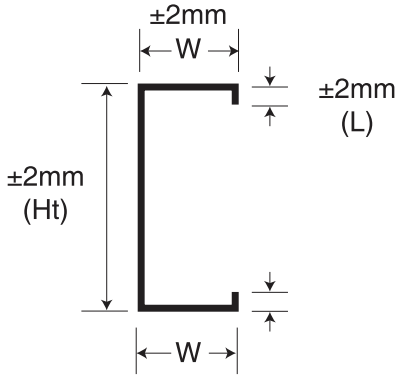
Catalogue Number	Base Metal Thickness t (BMT)	Area	Mass per Unit Length	Second Moment of Area (Full)		Shear centre to centroid distance	Section Modulus (Full)		Radius of Gyration		Torsion Constant	Warping Constant	Mono-symmetry Constant	
				I_x	I_y		X_o	Z_x	Z_y	r_x				r_y
				10^6mm^4	10^6mm^4		mm	10^3mm^3	10^3mm^3	mm				mm
TS12090	0.90	329	2.64	0.630	0.638	80.87	7.48	9.81	43.8	44.1	88.7	422.1	187.4	
TS12010	1.00	369	2.93	0.694	0.701	80.87	8.25	10.92	43.6	43.3	123.2	457.0	187.2	

GENERAL INFORMATION:

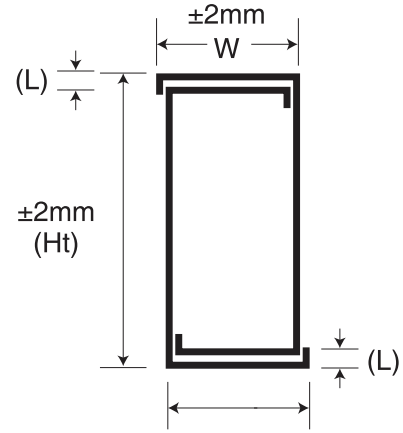
- Deflection criteria used is as follows:
 - Topspan 30, 33 & 38 - L/300 suitable criteria commonly used for domestic tile & steel roof requirements.
 - Topspan 61, 96 & 100 - L/150 suitable criteria commonly used for structural steel roof requirements
- Loading during installation.
 - During installation of the Topspan profile & during the installation of the metal roofing, cladding or tiles, care must be exercised to ensure damage of the Topspan profile or its connections do not occur.
 - The single lengths of the Topspan profiles are not designed to be walked upon. Access to the roof should be when the roof cladding is installed & also when the spans of the Topspan are limited to the maximum recommended span.

C-CHANNEL SPECIFICATION

C Section



Box C Section



TH-Truss Section Properties

Symbol	SECTION DIMENSION			Thickness		Gross Feed	Area	Weight	Centroid Left	Centroid Top	Second Moment Inertia		Polar Gyration		Torsion Constant	Section Modulus	
	Height	Flange-Width	Lips	BMT	TCT						Ixx	Iyy	rx	ry		J	Zx
	Ht	W	L	mm	mm	Gf	Ga	Cxl	Cyt	mm ⁴					mm ⁴		
THC10012	100	47	11	1.20	1.250	201.59	241.9	1.965	14.039	49.400	384506	68974	39.869	16.886	116.110	7690	2131
THC10012-Box	100	47	11	1.20	1.250	403.17	483.18	3.930	46.400	49.400	769099	241652	39.871	22.349	232.230	15382	5142
THC10010	100	47	11	1.00	1.050	202.56	202.56	1.648	14.143	49.500	323637	58446	39.972	16.986	67.519	6473	1806
THC10010-Box	100	47	11	1.00	1.050	437.12	437.1	3.296	49.500	49.500	703443	289758	40.120	25.750	145.700	14069	5795
THC10075	100	47	11	0.75	0.800	219.77	164.8	1.239	14.273	49.625	245760	44751	40.101	17.112	28.655	4915	1383
THC10075-Box	100	47	11	0.75	0.800	407.54	305.66	2.478	46.625	49.625	491585	155090	40.103	22.525	57.311	9832	3300
THC8012-N	81	33	7	1.20	1.250	151.74	182.08	1.469	8.879	39.900	184360	24124	31.820	11.510	87.400	4552	1026
THC8012-N-Box	81	33	7	1.20	1.250	303.47	364.17	2.938	32.400	39.900	368771	80994	31.822	14.913	174.800	9105	2454
THC8010-N	81	33	7	1.00	1.050	152.71	152.71	1.232	8.980	40.000	155668	20591	31.928	11.612	50.903	3844	875
THC8010-N-Box	81	33	7	1.00	1.050	305.42	305.42	2.464	32.500	40.000	311383	68643	31.930	14.992	101.810	7688	2080
THC8075-N	81	33	7	0.75	0.800	153.92	115.44	0.935	9.106	40.125	118673	15907	32.062	11.738	21.645	2930	676
THC8075-N-Box	81	33	7	0.75	0.800	307.85	230.88	1.870	32.625	40.125	237384	52573	32.065	15.090	43.291	5861	1593
THC8070-N	81	33	7	0.70	0.750	154.17	107.92	0.876	9.131	40.125	111122	14934	32.089	11.764	17.626	2744	635
THC8070-N-Box	81	33	7	0.70	0.750	308.33	215.83	1.752	32.650	40.150	222280	49274	32.092	15.109	35.353	5488	1493
THC8060-N	81	33	7	0.60	0.650	154.65	92.791	0.757	9.182	40.200	95867	12951	32.143	11.814	11.135	2367	551
THC8060-N-Box	81	33	7	0.60	0.650	309.30	185.58	1.514	32.700	40.200	191766	42589	32.145	15.149	22.270	4735	1291
THC7512-J	75	37	7	1.20	1.250	151.74	182.08	1.469	10.468	36.900	164923	29852	30.096	12.804	87.400	4398	1151
THC7512-J-Box	75	37	7	1.20	1.250	303.47	364.17	2.938	36.400	36.900	329881	104335	30.097	16.926	174.800	8797	2820
THC7510-J	75	37	7	1.00	1.050	152.71	152.71	1.232	10.574	37.000	139269	25442	30.199	12.908	50.903	3714	981
THC7510-J-Box	75	37	7	1.00	1.050	305.42	305.42	2.464	36.500	37.000	278571	88352	30.201	17.008	101.810	7429	2388
THC7575-J	75	37	7	0.75	0.800	155.92	116.94	0.935	11.034	37.125	107625	20587	30.337	13.268	21.927	2870	804
THC7575-J-Box	75	37	7	0.75	0.800	311.85	233.88	1.870	36.625	37.125	215279	71623	30.339	17.500	43.853	5741	1936
THC7570-J	75	37	7	0.70	0.750	156.17	109.32	0.876	11.060	37.150	100775	19317	30.362	13.293	17.855	2687	755
THC7570-J-Box	75	37	7	0.70	0.750	312.33	218.63	1.752	36.650	37.150	201578	67104	30.364	17.519	35.710	5375	1814
THC7560-J	75	37	7	0.60	0.650	156.65	93.991	0.757	11.113	37.200	86937	16735	30.413	13.344	11.279	2318	654
THC7560-J-Box	75	37	7	0.60	0.650	313.30	187.98	1.514	36.700	37.200	173899	57959	30.415	17.559	22.558	4637	1566
THC7512	74	31	5	1.20	1.250	136.74	164.08	1.313	7.926	36.400	138458	17797	29.049	10.414	78.760	3742	792
THC7512-Box	74	31	5	1.20	1.250	273.47	328.17	2.626	30.400	36.400	276952	59468	29.051	13.462	157.520	7485	1918
THC7510	74	31	5	1.00	1.050	137.71	137.71	1.102	8.029	36.500	117085	15241	29.159	10.520	45.903	3164	678
THC7510-Box	74	31	5	1.00	1.050	275.42	275.42	2.204	30.500	36.500	234204	50527	29.161	13.545	91.805	6330	1630
THC7575	74	31	5	0.75	0.800	138.92	104.19	0.836	8.157	36.625	89424	11822	29.296	10.652	19.536	2417	526
THC7575-Box	74	31	5	0.75	0.800	277.85	208.38	1.672	30.625	36.625	178876	38818	29.298	13.648	39.072	4834	1252
THC7570	74	31	5	0.70	0.750	139.17	97.416	0.783	8.183	36.650	83764	11108	29.323	10.678	15.911	2264	494
THC7570-Box	74	31	5	0.70	0.750	278.33	194.83	1.566	30.650	36.650	167556	36404	29.326	13.669	31.823	4529	1174
THC7560	74	31	5	0.60	0.650	139.65	83.791	0.677	8.234	36.700	72317	9648	29.378	10.731	10.055	1955	429
THC7560-Box	74	31	5	0.60	0.650	279.30	167.58	1.354	30.700	36.700	144658	31503	29.380	13.711	21.110	3910	1016

APPLICATION

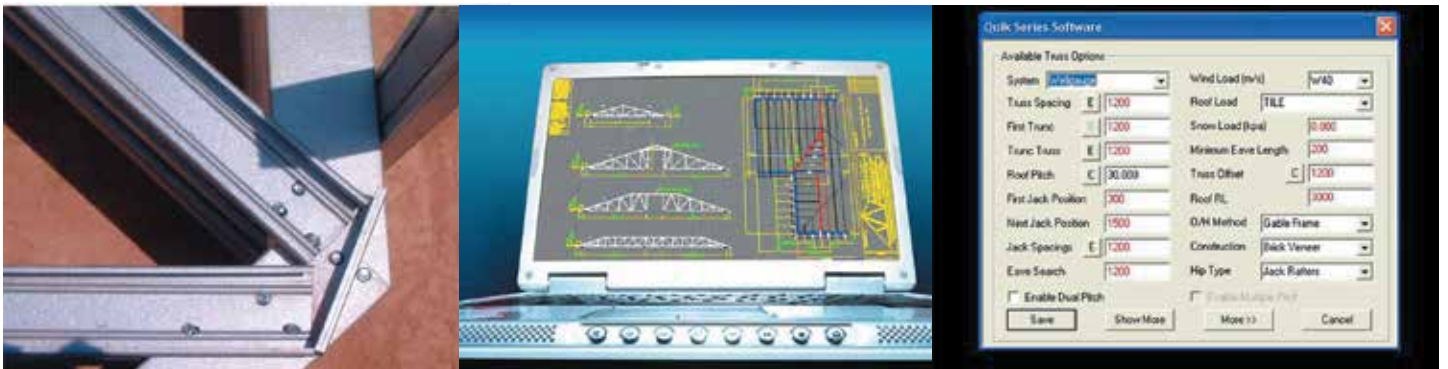
TH-Truss® is Proud to Provide Resources with Our Product Line to assist the Building Professional with the best solutions.

The most widely used pre-fabricated cold formed steel truss product in the market. TH-Truss® System provides the widest range of profiles to ensure a cost effective solution, with the smallest man made trusses to 80 foot plus spans. Sections & components are assembled using a patented self-tapping screw system to form the main core of the roofing frame. Truss section studs, trusses, battens or purlins are roll formed using high tensile galvanized or coated steel with min 550 Mpa.

TH-Truss® Steel Framing System

Steel Raw Material	:	Truecore, Zinalume & GI
Roll-Forming Machine	:	High-speed 7 precise and
Tools & Equipment	:	Overseas imported.
Processes:	:	Quality-controlled & compliant with SIRIM standard
Technical Personnel	:	Quality & Experience
Design	:	Computer-Aided-Design Software that conform with BS5950 & AS4600 standards for truss system engineering including all bracing, connection & installation documents
Steel thickness range	:	0.47mm, 0.53mm, 0.65mm, 0.75mm, 0.80mm, 1.0mm, 1.2mm

TH-Truss® Software: Make it Easy to Design



Latest Design Technology from Australia: conform with BS5950, AS/ZS4600 = 2005D.

Allow for inputting beam spans, plus area, line and point loads. Wind, snow & seismic loads can also be inputted when desired.

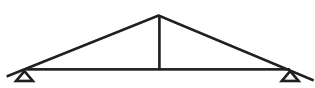
Properties of the full range of **TH-Truss®** products are pre-loaded into the software. The software will recommend the best solutions for a set of input conditions.

The Software will run a series of design checks to determine the suitability of the solution, taking into account bending, shear & deflection. The software will provide both text and graphical analysis report.



*Consult the installation guide for recommendation

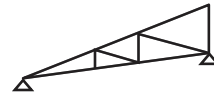
TH TRUSS® SHAPES



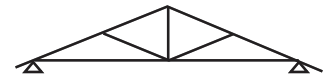
Kingpost Truss



Half 'C' Truss



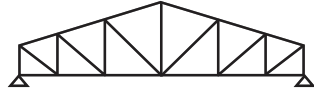
Half Scissor Truss



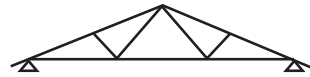
Queenpost Truss



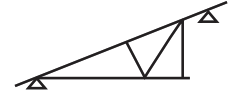
Truncated Truss



Pitched Warren



"A" Type Truss



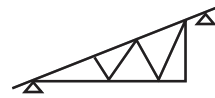
Jack Truss



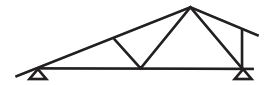
Dual Pitch



"B" Type Truss



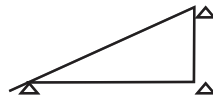
Hip Truss



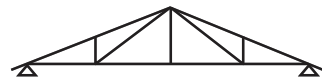
Cut-Off Truss



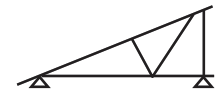
"C" Truss



Creeper Truss



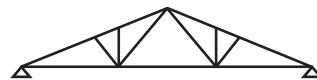
Pratt Truss



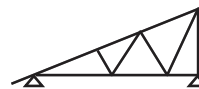
Half 'A' Truss



Girder Truss



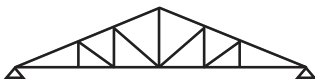
Fan Fink



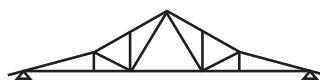
Half 'B' Truss



Scissor Truss



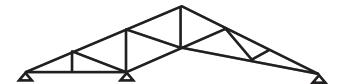
Double Howe Truss



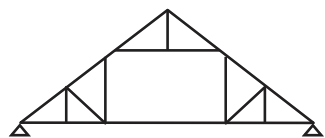
Bell Truss



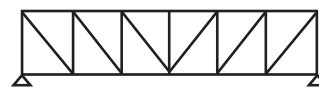
Inverted Cantilever



Cathedral Truss

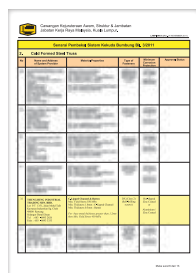


Attic Truss



Parallel Chorded Truss

CERTIFICATES



CENTRAL REGION

SELANGOR DARUL EHSAN :

Lot P.T. 1353, Jalan Mohd Taib, Kawasan Industri Sg. Choh, 48000 Rawang, Selangor Darul Ehsan, Malaysia
Tel : +603-6099 9999 / 9988 Fax : +603-6099 9922 / 9933

NORTHERN REGION

KEDAH DARUL AMAN :

No. E2, Jalan Cendana 4/5, Kaw. Perindustrian Cendana, 08000 Sungai Petani, Kedah Darul Aman, Malaysia.
Tel : +604-430 0321(HL) +604-430 4335 / 4568 Fax : +604-430 4393 / 4348 / 4849 H/P : +6012-381 9218

PERAK DARUL RIDZUAN :

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