

TH FLOOR DECK 75 & 51

STRUCTURAL DECKING

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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 fade, 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.

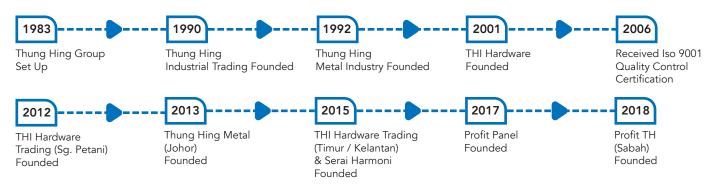












THUNG HING'S PRODUCTS REVOLVES IN 4 CORE PRODUCT SEGMENTS

With the rapid growth of Thung Hing's market share in the 4 core segment areas, we constantly reinvest in our steel fabrication plants nationwide to increase productivity efficiency, product quality enhancement; as well as new product research and development.





TH Floor Deck 75 is an efficient, versatile and robust structural decking system for concrete, masonry or steel frame construction. It is a highly regarded formwork product offering cost efficiency and speed of construction.

TH Floor Deck 75 has an effective longitudinal reinforcement and the top of the ribs has been embossed top bring about greater mechanical bonding between the steel sheet and concrete.

- Excellent spanning capacities for greater strength and less deflection
- Works as composite slab saving on concrete and reinforcement costs
- Linear elastic analysis of continuous composite slabs
- Economical for fire
- Stronger than similar decks due to the patented corner embossments



Top location

Top location

Cover width 680 ± 5

TECHNICAL SPECIFICATIONS

TH Floor Deck 75 is rolled-formed from hot dipped, zinc coated, high tensile steel, in base metal thickness (BMT) of 0.75, 1.0, 1.2mm.

For 0.75 and 1.0mm the steel grade is G550

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TH Floor Deck 75

PROFILE DIMENSION

SHEETING ELASTIC -CENTROID

Flute Pan

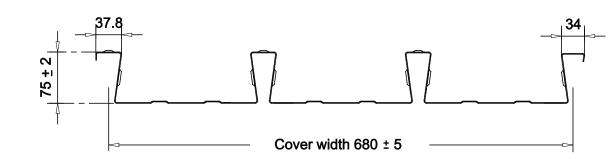
• For 1.2mm the steel grade is G500

The Coating is Z275 (275g/m2 minimum coating mass) on both sides.

Negative (hogging) Shrinkage and temperature mesh reinforcement for flexure and crack control CENTROID OF ALL NEGATIVE REINFORCEMENT Embossment on ribs **√** c ل^ر dαt concre h.=54 75 <u>±</u> 2 |

t_{bm} (bmt)

PROFILE DIMENSION & REINFORCEMENT



TH FLOOR DECK 75 SECTION PROPERTIES

Thickness BMT (mm)	Steel Grade (Mpa)	Zinc Coating Class +	Cross-sectional Area A _{sh} mm² / m	Second Moment of Area I mm ⁴ / m	Y-Neutual Axis I mm ⁴ / m	Z Modulus Elastic mm³ / m	Weight Kg / m²	
0.75	550	Z275 / AZ150	1401	1122747	52.8	21264	11.07	
1.0	550	Z275 / AZ150	1868	1496997	52.8	28352	14.60	
1.2	500	Z275 / AZ150	2243	1796396	52.8	34023	17.40	

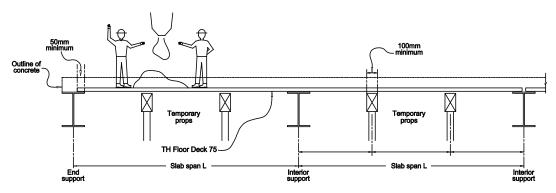
SAMPLES OF SPECIFICATION

TH Floor Deck 75 1.0mm Base Metal Thickness (BMT) structural decking formwork & composite slab dovetail re-entrant profile produce from cold rolled steel G550Mpa tesile strength with zinc coating of Z275

FORMWORK DESIGN

TH Flood Deck 75 formwork shall be designed in accordance to BS 5950. Design of profile sheeting as permanent formwork. TH Flood Deck 75 acting as structural formwork, provided the following conditions are satisfied

- The support lines extend across the full width of the sheeting and have a minimum bearing of 50mm at the ends of the sheets when rest on steel or concrete and 70mm when rest on other material such as masonry wall.
- The sheets continue within each slab span length without any overlaps or intermediate splicing or jointing longitudinally.
- The ratio of the longer slab span to the shorter slab span (Lv/Ls) of any teo adjacent spans does not exceed 1.2 (i.e. Lı/Ls<1.2).
- The supports are effectively rigid such that their vertical deflections during the construction phase can be ignored in design.
- Maximum construction imposed load is 1.5 kPa, or 4.5/Span kPa for slab spans less than 3m. Construction imposed load can be applied on the TH Flood Deck 75 formwork or recently formed slabs.
- Maximum imposed storage load on the formwork is 4 kPa. This load shall not be applied on recently formed slabs.
- Imposed construction loads shall not be applied to areas supporting storage loads and vice versa.



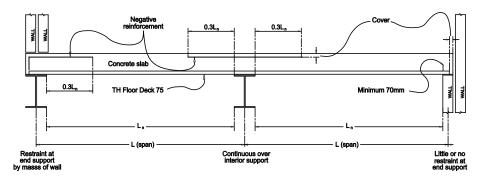
COMPOSITE SLAB DESIGN

TH Flood Deck 75 composite slabs be designed in accordance to BS 5950.

The design concept is based on "k" and 'm" method. Data about shearbond capacity have been obtained from full-scale tests and supplementary smallscale slip-block tests. The tables provide with solutions for steel frame or masonry wall types of construction

Our design tables and software can be used to design composite slabs with TH Flood Deck 75, provided the following conditions are satisfied:

- It is a common pratice to design continuous slabs as a series of single spans. Miniumum nominal reinforcement at intermediate supports shall be specified in this case in accordance to BS5950. It shall be noted that nominal reinforcement will not prevent formation of wide cracks over supports. Increased slab thickness may be required in many instances when continuous slabs are designed as series of simply supported spans.
- The ratio of longer slab span (Li) to the shorter slab span (Ls) of any two adjacent spans does not exceed 1.2, that is $L_1/L_s <= 1.2$. The bending moments at the supports are only caused by the action of vertical loads applied to the slab.



DESIGN FOR FIRE

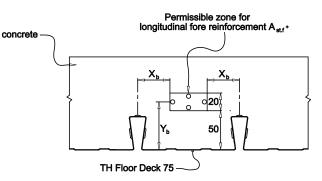
TH Flood Deck 75 composite slabs be designed for the fire conditions in accordance to BS 5950, BS 476-20 and BS 476-21.

Reduction factors are applied to allow for the adverse effect of elevated temperatures on the mechanical properties of concrete and steel. Values of these reduction factors have been derived from fire tests conducted at Victoria University of Technology and extensive finite element analysis of **TH Flood Deck 75** composite slabs.

Reduced shear bond capacity is also considered for elevated temperatures

Our tables may be used to detail TH Flood Deck 75 composite slabs when the soffit is exposed to fire provided the following conditions are satisfied:

- The composite slab acts as a one-way element spanning in the direction of the
- sheeting ribs for both room temperature and fire conditions. The composite slab has been initially designed and detailed for room temperature conditions in accordance to this manual.
- The fire design load is essentially uniformly distributed and static in nature.
- Adequate detailing of slab jointing, edges, slab holes and cavities (for penetrating, embedded or encased servies) to provide the appropriate fire resistance period. Alternatively the local provision of suitable protection (such as fire spray material) will be necessary.
- The fire periods are 30, 60, 90, 120, 180 or 240min.
- $Xb \ge 30$ mm



TH FLOOR DECK 75 SPAN TABLES

TH Floor Deck 75 symmetrical lapped ribs and embossments features allows it to span longer than other types of re-entrant profile.

The span table below shows the maximum un-propped span for TH Floor Deck 75 installed in single or continuous span

FORMWORK DESIGN FORMWORK SPAN 0.75MM BMT

No Props (Single Span)												
Slab Thickness (mm)	125	130	140	150	175	200	225	250				
Maximum Span (m)	3.25	3.20	3.15	3.10	2.90	2.80	2.65	2.55				
	1 Prop (Continuous Span)											
Slab Thickness (mm)	125	130	140	150	175	200	225	250				
Maximum Span (m)	3.60	3.50	3.40	3.30	3.10	2.90	2.80	2.70				
FORMWORK SPAN 1.0MM BMT												
	No Props (Single Span)											
Slab Thickness (mm)	125	130	140	150	175	200	225	250				
Maximum Span (m)	3.60	3.55	3.45	3.35	3.20	3.05	2.90	2.80				
			1 Prop (Continuous Span)								
Slab Thickness (mm)	125	130	140	150	175	200	225	250				
Maximum Span (m)	4.10	4.10	4.00	3.90	3.60	3.40	3.20	3.10				
FORMWORK SPAN 1.2MM BM	т											
			No Pro	ps (Single Span)								
Slab Thickness (mm)	125	130	140	150	175	200	225	250				
Maximum Span (m)	3.75	3.70	3.65	3.60	3.40	3.25	3.10	3.00				
			1 Prop (Continuous Span)								
Slab Thickness (mm)	125	130	140	150	175	200	225	250				
Maximum Span (m)	4.50	4.40	4.30	4.20	3.90	3.70	3.50	3.40				

COMPOSITE SLAB DESIGN

FORMWORK SPAN 0.75MM BMT

No Props (Single Span)											
Slab Thickness (mm)	ab Thickness (mm) 110 12		130	140	150	175	200	225			
Maximum Span (m)	3.40	3.30 3.20		3.15	3.15 3.10		2.75	2.65			
Mesh	A7	A7	A7	A7	A7	A7	A7	A7			
2 Hrs Fire Rating (Bar in Tough)	T12-400	T12-600									
	1 Prop (Continuous Span)										
Slab Thickness (mm)	110	125	130	140	150	175	200	225			
Maximum Span (m)	3.70	3.60	3.50	3.45	3.40	3.20	3.05	2.95			
Mesh	A7	A7	A7	A7	A7	A7	A7	A7			
2 Hrs Fire Rating (Bar in Tough)	Hrs Fire Rating (Bar in Tough) T12-400 T12-400			T12-400	T12-600	T12-600	T12-600	T12-600			
Mesh Over Support	B8	B7	B7	B7	В7	B7	B7	B7			
Shear Stud for 8.4m Span	1 / trough	1 / trough	1 / trough	1 / trough	1 / trough	1 / trough	1 / trough	1 / trough			

FORMWORK SPAN 1.0MM BMT

No Props (Single Span)											
Slab Thickness (mm)	ckness (mm) 110 125 130		130	140 150		175	200	225			
Maximum Span (m)	3.70	3.60	3.55	3.45	3.40	3.2	3.05	2.90			
Mesh	A7	A7	A7	A7	A7	A7	A7	A7			
2 Hrs Fire Rating (Bar in Tough)	Fire Rating (Bar in Tough) T12-400 T12-400 T12-400		T12-400	T12-400	T12-600	T12-600	T12-600	T12-600			
	1 Prop (Continuous Span)										
Slab Thickness (mm)	lab Thickness (mm) 110 12		130	140	150	175	200	225			
Maximum Span (m)	4.10	4.00	3.95	3.85	3.80	3.6	3.45	3.3			
Mesh	A7	A7	A7	A7	A7	A7	A7	A7			
2 Hrs Fire Rating (Bar in Tough)	Hrs Fire Rating (Bar in Tough) T12-400 T12-400 T12-400				T12-600	T12-600	T12-600	T12-600			
Mesh Over Support	B8	B8	B8	B8	B7	B7	B7	B7			
Shear Stud for 8.4m Span	1 / trough	1 / trough	1 / trough	1 / trough	1 / trough	1 / trough	1 / trough	1 / trough			

FORMWORK SPAN 1.2MM BMT

No Props (Single Span)												
Slab Thickness (mm)	Slab Thickness (mm) 110 125 130		130	140	150	175	200	225				
Maximum Span (m)	3.90	3.80 3.75 A7 A7		3.65	3.50	3.40	3.2	3.05				
Mesh	A7			A7	A7	A7	A7	A7				
2 Hrs Fire Rating (Bar in Tough)	ting (Bar in Tough) T12-400 T12-400 T12-400		T12-400	T12-400	T12-600	T12-600	T12-600	T12-600				
	1 Prop (Continuous Span)											
Slab Thickness (mm)	(mm) 110 125		130	140	150	150 175	200	225				
Maximum Span (m)	4.40	4.20	4.15	4.05	4.05 4.0	3.8	3.6	3.45				
Mesh	A7	A7	A7	A7	A7	A7	A7	A7				
2 Hrs Fire Rating (Bar in Tough)			T12-400	T12-400	T12-600	T12-600	T12-600	T12-600				
Mesh Over Support			B8	B8	В7	B7	B7	B7				
Shear Stud for 8.4m Span	1 / trough	1 / trough	1 / trough	1 / trough	1 / trough	1 / trough	1 / trough	1 / trough				

SPAN TABLE NOTES

- Density of wet concrete is assumed at 2400 kg/m3
 Formwork deflections limit: L/180
- Minimum bearing on beam shall be 100mm
- Maximum allowable construction load shall be 1.5 kN/m²
- Indoor condition for creep and shrinkage
 Thung Hing Industrial recommends a gauge of 1.00mm BMT for expose soffit in propped applications to avoid creasing of steel decking

INSTALLATION GUIDELINES

Storage and Handling

TH Floor Deck 75 sheets are delivered to site or specified storage area, in strapped bundles. If not required for immediate use, bundles should be neatly stacked clear of the ground with a fall for drainage and protected by waterproof covers. Do not allow rain or condensation to be trapped between sheets. To minimize damage to the sheets, break open bundles only when installation is due to commence.

When lifting, it is recommended that appropriate lifting equipments are used. Unprotected chain slings can damage the bundle during lifting.



Propping

It is common practice to specify unpropped **TH Floor Deck 75** formwork, however, depending on the span of a **TH Floor Deck 75** slab, temporary propping may be needed between the slab supports to prevent execessive deflections or collapse of the formwork.

TH Floor Deck 75 formwork is normally place directly on prepared propping. Props must stay in place during the laying of **TH Floor Deck 75** formwork, the placement of the concrete, and until the concrete has reached the strenght of 20 MPa.

Propping generally conists of substantial timber or steel bearers supported by vertical props. The bearers must be continuous across the full width of **TH Floor Deck 75** formwork.

Where the underside of **TH Floor Deck 75** is to remain exposed as a feature, a wide ply form strip attached to the bearers will minimize marking. strips of 300mm wide are commonly used.



Laying

TH Floor Deck 75 should be accurately aligned, side laps fully lapped and the gap between abutting ends kept to a minimum.

Provision should be made so that all panels have full end and intermediate bearing support on the building framework of a minimum of 50mm unless other stated on the structure drawings. If supporting on a brick or masonry wall, provide a separating strip such as a malthoid.

TH Floor Deck 75 must be continuous over all intermediate temporary supports without intermediate splicing or jointing. Sheeting shall only terminate at ends into a premanent support.



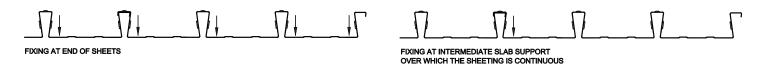
Fasteners and Location

TH Floor Deck 75 must be positively fixed to the supporting structure, in order to avoid movement and excessive deflection during pouring of concrete.

When fixing to a steelwork support structure, shot fired pins or self drilling/tapping fasteners should be used. Provide 1 fastener in each pan at every support. Place the fixings in the flat areas of the pans adjacent to the ribs or between the flutes.

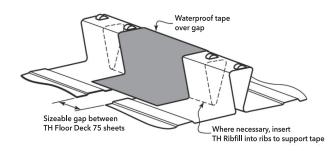
Fixing panels to masonry supports may not be necessary if concrete is placed immediately after panels are laid. If fixing is required to prevent movement due to wind or for safety purpose during placement of concrete, the panels should be secured to the temporary timber bearers by nailing.





<u>Sealing</u>

Seepage of water or fine concrete slurry can be minimised by following common construction pratices. Generally gaps are sealed with waterproof tape or by sandwiching contraction joint material between the abutting ends of **TH Floor Deck 75** sheet



Reinforcement

Place all reinforcement in strict accordance with the structure engineer's drawing and specification.

Concrete Placement

The concrete is placed between construction joints in a continuous operation so that new concrete is placed against plastic concrete to produce a monolithic mass. If the pouring has to be discontinued for any more than approximately 1 hour, depending on the temperature, a construction joint may be required.

Start pouring close to 1 end and spread concrete uniformly, preferably over 2 or more spans. it is good pratice to avoid excessive heaping of concrete and heavy load concentrations. When concrete is transported by wheel barrows, the use of planks or boards is recommended.

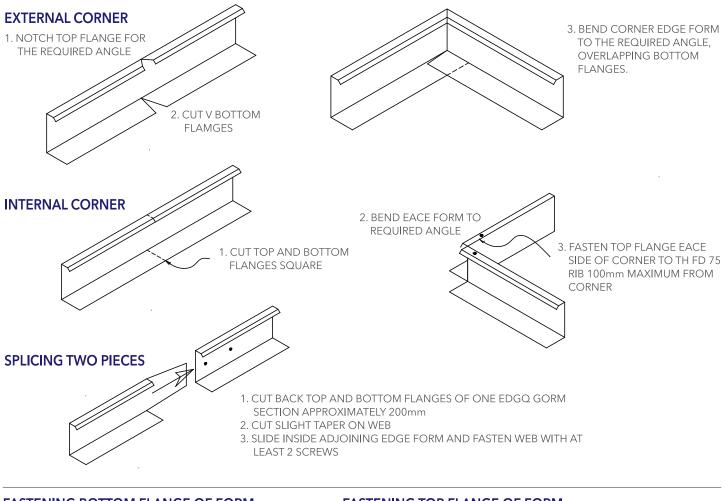
During pouring, the concrete should be thoroughly compacted. worked around ribs and reinforcement, and into corners of the edge forms by using a vibrating compactor. Ensure that the reinforcement remains correctly positioned so that the specified minimum cincrete cover is achieved.



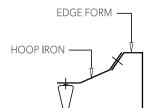
ACCESSORIES

Edge Form is a simple C-shaped section that simplifies the installation of most TH Floor Deck 75 slabs. It is easily fastened to the TH Floor Deck 75 sheeting, neatly retaining the concrete and providing a smooth top edge for guick and accurate screeding. We make it to suit any slab thickness.

Edge form is eadily spliced and bent to form internal and external corners of any angle and must be fitted and fully fastened as the sheet are installed. There are various methods of forming corners and splices.



FASTENING BOTTOM FLANGE OF FORM

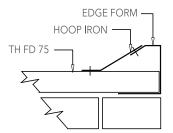


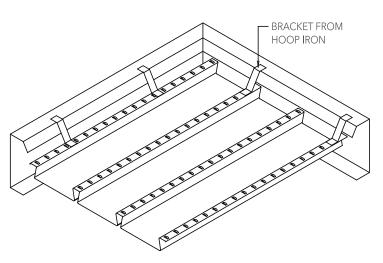
FASTENING TOP FLANGE OF FORM

EDGE FORM

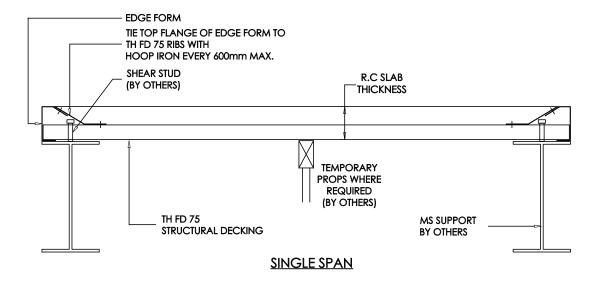
A GALVANISED SECTION THAT CREATES PERMANENT FORMWORK AT THE SLAB EDGE-CUT MITRED AND SCREWED ON SITE. STOCK SLAB DAPTHS 100, 125, 150MM OTHER SPECIAL ORDER STOCK LENGTH 6100MM

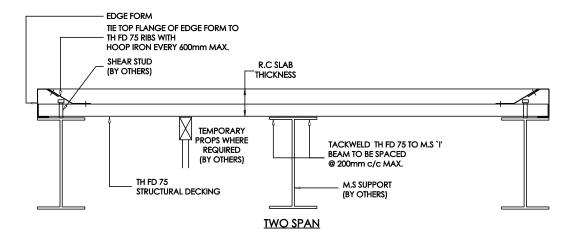


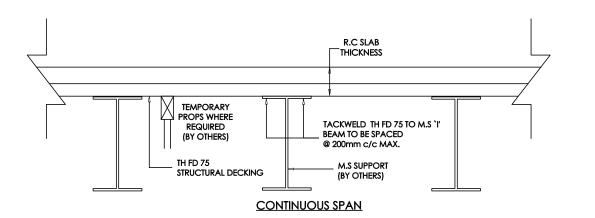




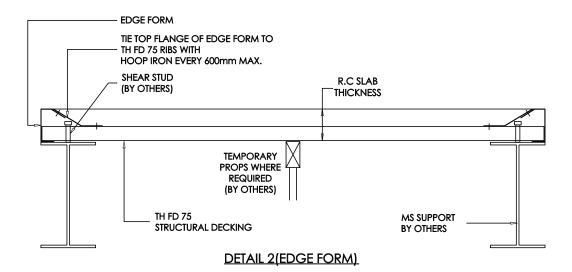
CONSTRUCTION DETAIL

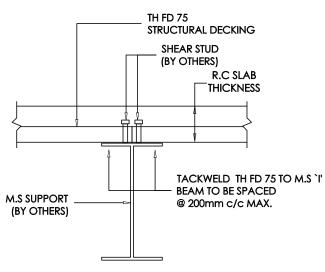




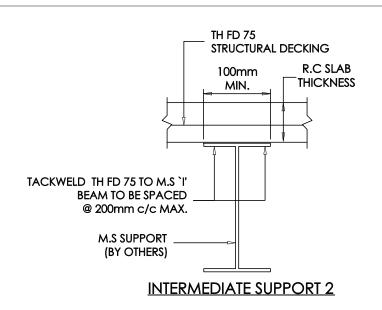


CONSTRUCTION DETAIL

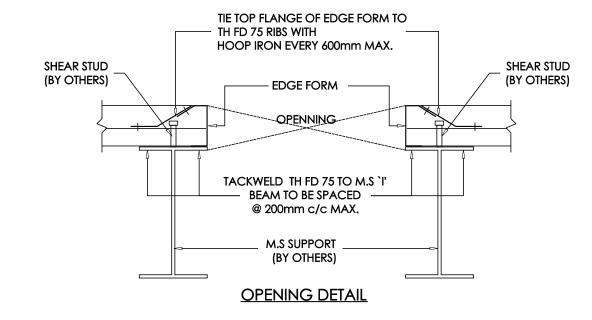


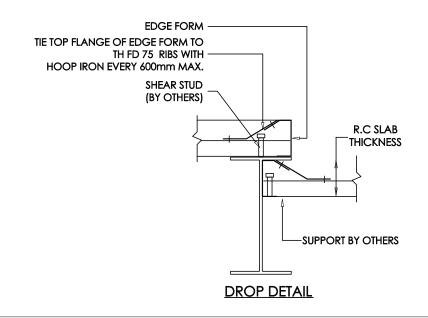


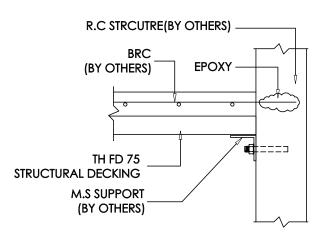




CONSTRUCTION DETAIL







R.C WALL SUPPORT DETAILS 1

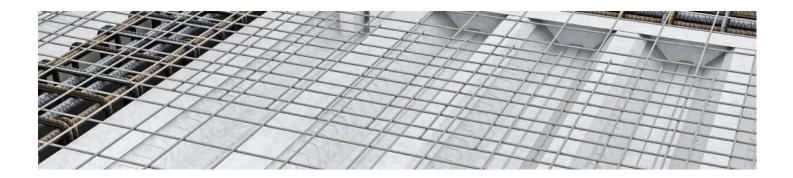
TH FLOOR DECK 51



TH Floor Deck 51, is a purpose designed trapezoidal composite flooring profile and is the most advance composite decking in the region, It incorporates the specific floor decking required by designers, developers, engineers and builders resulting in a revolutionary geometrical profile dimensions.

TH Floor Deck 51 should be kept dry during storage before use. They should be stacked clear of the ground with timber sleepers and covered to prevent bundles from water penetration. If bundles become wet during transportation or storage, the deck plates must be separated and wiped dry with clean cloth as quickly as possible.

When lifting the deck plates during loading and unloading or when lifting onto the floor frame structure, care must be taken to prevent the bundles or loose pieces from dropping to the ground or banging against the building.



Quicker Installation

No temporary supports are required under most conditions.

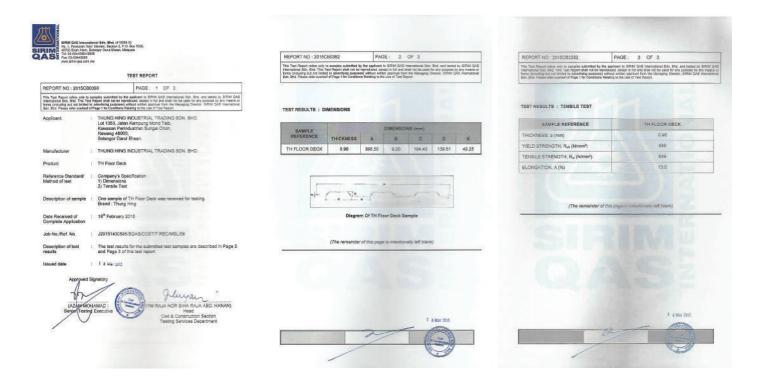
Proven Construction Economy

TH Floor Deck 51 is a fast to construct, lightweight, and provides a safe working platform so that the building process can continue without delay.

Reduced Slab Depth and Concrete Usage

The Slab dept required is minimized by the profile design. Concrete usage is further reduced by the profile shape. Reduced slab depth and concrete volumes result in lower concrete weight on the structure and foundations, and saving on the total cost of the building structure.

- Simplified process
- Increase construction speed
- Time saving on site
- No premature formwork removal and better floor quality
- Do not need formwork support. Consecutive floor level can be carried out immediately
- Reduce wooden materials stacking on job site
- Better job site safety
- Concrete volume saving





TECHNICAL SPECIFICATIONS

Material Specifications

High tensile steel, with minimum yield strength of 550Mpa and a minimum zinc coatng mass of 270g/m²

Tolerances

TH Floor Deck 51 are produced within the folloing tolerances: Length: ± 10mm | Cover: ± 10mm | Thickness: ± 0.02mm

Embossments

100

100

115

120

130

140

145

150

180

200

240

0.124

0.129

0.159

0.179

0.219

2.92

3.04

3.74

4.21

5.16

2.86

2.97

3.67

4.13

5.05

2.31

4.40

2.96

3.34

4.08

2.19

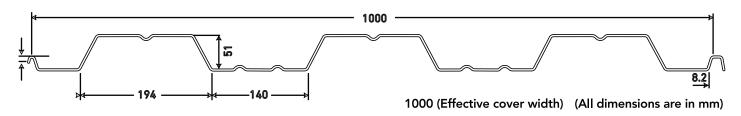
2.28

2.81

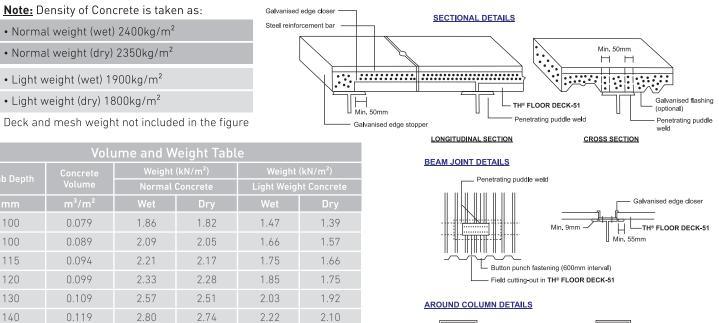
3.16

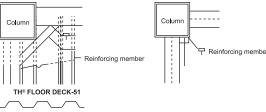
3.87

Raised pigeon tail pattern embossments on each face of the web provides the mechanical connection between the steel and the hardened concrete.



	Dimension & Properties											
Section Propertise (Per Metre Width)												
Type SDP - 51	Base Material Thickness (mm)	Weight Covered Area (kg/m²)	Neutral Axis (mm)	Effective Second Moment Of Area 1 mm 4	Effective Compression Section Modulus Zc mm ³	Effective Section Modulus Tension	Ultimate Moment Resistance KNM					
THFD 51 - 08	0.75	8.59	18.63	332196	10392	18219	4.35					
THFD 51 - 10	1.0	10.56	19.84	448229	14618	23178	6.12					
THFD 51 - 12	1.2	12.54	20.87	570672	19324	28155	8.09					
THFD 51 - 15	1.5	15.50	22.14	761702	27101	35603	11.34					





				Max	kimum S _l	pan (m)					
				TH® Floor Deck Thickness (TCT)							
				0.75 mm			1.0 mm			1.2 mm	
		Depth				Total A	pplied Load	(kN/m²)			
		mm	3.5kN/m²	5kN/m²	10kN/m ²	3.5kN/m ²	5kN/m²	10kN/m²	3.5kN/m²	5kN/m²	10kN/m²
		100	2.2	2.2	2.2	2.4	2.4	2.4	2.8	2.7	2.6
		120	2.1	2.1	2.1	2.3	2.3	2.3	2.7	2.6	2.5
		130	2.1	2.1	2.1	2.3	2.3	2.3	2.6	2.5	2.4
sd		150	2.0	2.0	2.0	2.2	2.2	2.2	2.5	2.5	2.4
No Temporary Props	Single Span	200	1.9	1.9	1.9	2.1	2.1	2.1	2.4	2.2	2.2
rary		240	1.8	1.8	1.8	2.0	2.0	2.0	2.2	2.1	2.1
odu		100	2.2	2.2	2.2	2.7	2.7	2.7	3.1	3.0	2.8
o Tei		120	2.1	2.1	2.1	2.6	2.6	2.6	2.9	2.8	2.7
ž		130	2.1	2.1	2.1	2.5	2.5	2.5	2.8	2.8	2.7
	Double Span	150	2.0	2.0	2.0	2.4	2.4	2.4	2.7	2.7	2.6
		200	1.9	1.9	1.9	2.2	2.2	2.2	2.5	2.5	2.4
		240	1.8	1.8	1.8	2.1	2.1	2.1	2.4	2.3	2.3
		100	3.0	2.8	2.3	3.3	3.1	2.6	3.5	3.3	2.7
		120	2.9	2.7	2.3	3.2	3.0	2.5	3.4	3.2	2.7
		130	2.9	2.7	2.3	3.2	3.0	2.5	3.4	3.2	2.7
sdo.		150	2.9	2.7	2.3	3.1	2.9	2.5	3.3	3.1	2.6
y Pr	Single Span	200	2.7	2.5	2.2	3.0	2.8	2.4	3.1	3.0	2.6
orar		240	2.6	2.5	2.2	2.8	2.7	2.4	3.0	2.9	2.5
1 Line Temporary Props		100	3.4	3.1	2.5	3.8	3.4	2.8	4.1	3.6	3.0
ne Te		120	3.3	3.0	2.5	3.6	3.3	2.8	4.0	3.6	2.9
1 Li		130	3.3	3.0	2.5	3.6	3.2	2.7	3.9	3.5	2.9
		150	3.2	2.9	2.5	3.5	3.2	2.7	3.8	3.5	2.9
	Double Span	200	3.0	2.8	2.4	3.3	3.0	2.6	3.6	3.3	2.8
		240	2.9	2.7	2.3	3.2	2.9	2.6	3.4	3.2	2.7

NORMAL WEIGHT CONCRETE

Disclaimer : The information on the materials presented herein is provided for informational purposes only. Thung Hing shall not be liable for any loss or damage whatsoever arising from, but not limited to the usage of information provided. Any omission, error, typographical errors and technical inaccuracies relating to the information may be changed or updated without notice.

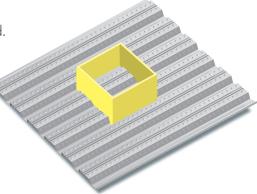
Packing

TH Floor Deck 51 is packed into bundle of up to 15 sheets may weight up to 2 ton depending on sheet lenght. The sheets are secured with metalband.

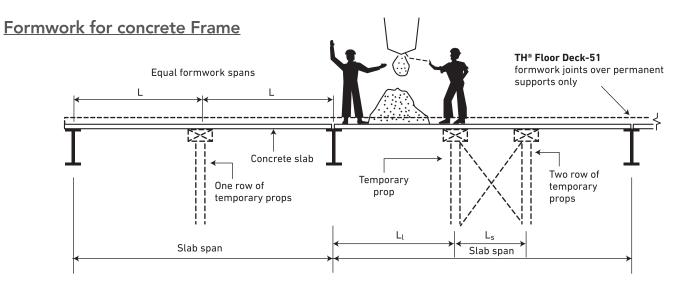
Floor Openings

Opening can be accommodated readily i composite slab by boxing up prior to pouring concrete and cutting out the deck after the concrete has cured.

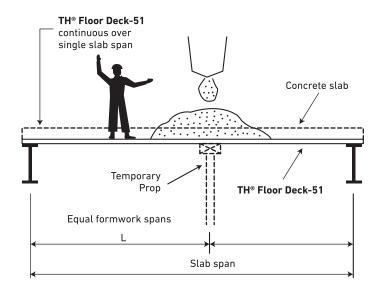
Small opening less than 300mm Square do not normally required additional reinforcement. Openings greater than 300mm Square must be designed with extra reinforcement place around the opening.



DECKING DESIGN & CONSTRUCTION MANUAL



Formwork for steel frame



<u>Sealing</u>

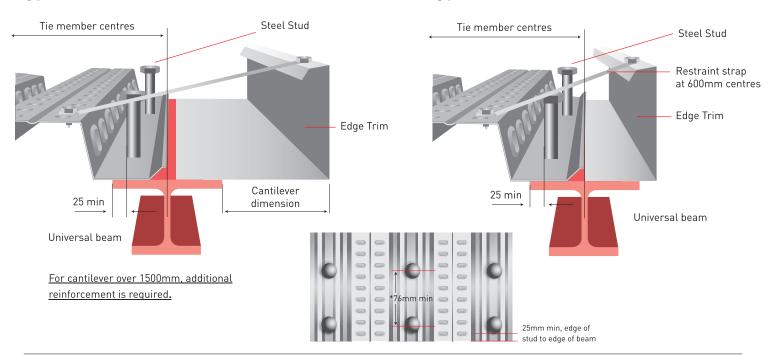
Seepage of water or fine concrete slurry can be minimised by following common construction practices. Generally gaps are sealed with waterproof tape by sandwiching contraction joint material between the abutting ends of **TH® Floor Deck-51** sheet. If there is a sizeable gap you may have to support the waterproof tape.

Where necessary, insert

TH® Floor Deck-51 into ribs to support tape

Typical Side Detail Cantilever CONSTRUCTION DETAIL

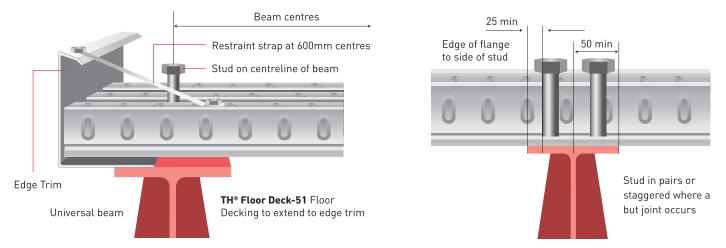
Typical side detail cantilever



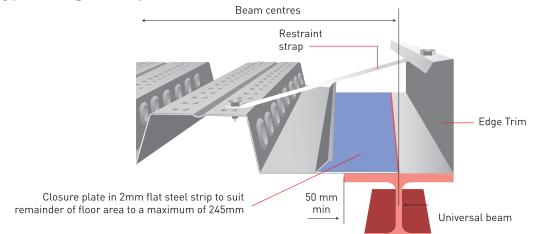
Typical side detail

End detail

Butt joint



Typical edge with plate



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