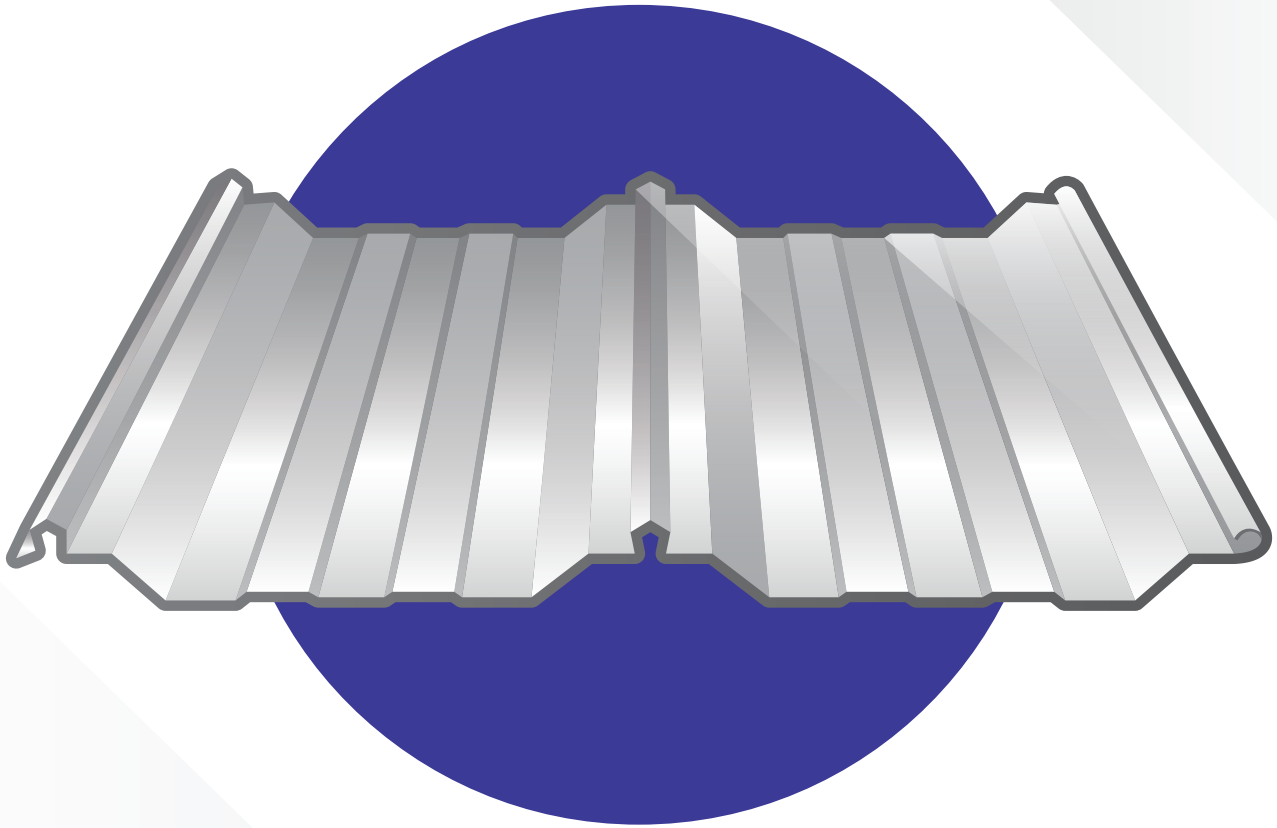




TSL55

BOLTLESS
SEAMING
SYSTEM

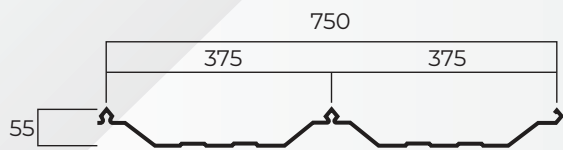


**WE GOT YOU
COVERED**

TSL 55 is manufactured from Zinc Alume AZ 150 steel sheet or Colored steel sheet. In some severe environment, Special coating class or colors may be available by arrangement.

TSL 55 features include wide cover, fewer sheets and quicker installation. Deep ribs means larger water carrying capacity. of Slope as low as 1° - to suit most commercial building applications. Weather resistant as seamlock system with hemmed underlap rib.

TSL55 SPECIFICATIONS

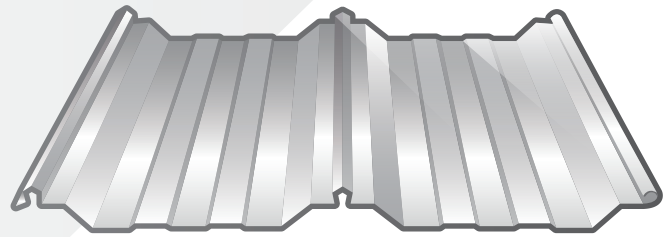


LENGTHS :

Mobile Rolled on Site to custom cut at Site and Factory sheet cut

TOLERANCES :

Length : $\pm 15\text{mm}$
Width : $\pm 4\text{mm}$



Make allowance for thermal expansion or contraction for long length roofs at sheeting ends.

The equation $\Delta L = \alpha \times \Delta T \times L$ gives an indication of the sheeting extent or contraction (ΔL).

$\alpha = 12 \times 10^{-6}$ (coefficient of linear expansion for steel)

ΔT = temperature change in $^{\circ}\text{C}$

L = sheet length in mm

WALKING ON ROOFS

Keep your weight evenly distributed over the soles of both feet to avoid concentrating your weight on either heels or toes. Always wear smooth soft-soled shoes; avoid ribbed soles that pick up and hold small stones, swarf and other objects.

Be careful when moving between supports. Do not walk in the pan immediately adjacent to flashings or translucent sheeting. Walk at least one pan away.

LOAD SPAN

Thickness	Load on Span (Kg/M ² at Continuous Support)					
mm(tct)	1.25m	1.50m	1.75m	2.00m	2.25m	2.50m
0,45	334	249	209	162	125	100
0,50	372	277	233	180	139	111

SECTIONAL PROPERTIES

Thickness	Unit Weight		Moment of Inertia	Section Modulus
mm(tct)	Kg/m ²	Kg/m ²	Lx = cm ⁴ /M	Zx = cm ³ /M
0,45	3,03	4,03	14,66	3,51
0,50	3,38	4,45	18,32	4,39

PEAK RAINFALL	ROOF SLOPE (DEGREE)				
Intensity (mm/hour)	1°	2°	3°	5°	8°
100	147	208	255	330	417
150	98	139	170	220	278
200	73	104	127	165	208
250	59	83	102	132	167
300	49	69	85	110	139
400	37	52	63	82	104
500	29	41	51	66	83

Note : Depth of flow in pan has taken into account freeboard allowance (20% of Rib height)

ADVERSE CONDITION

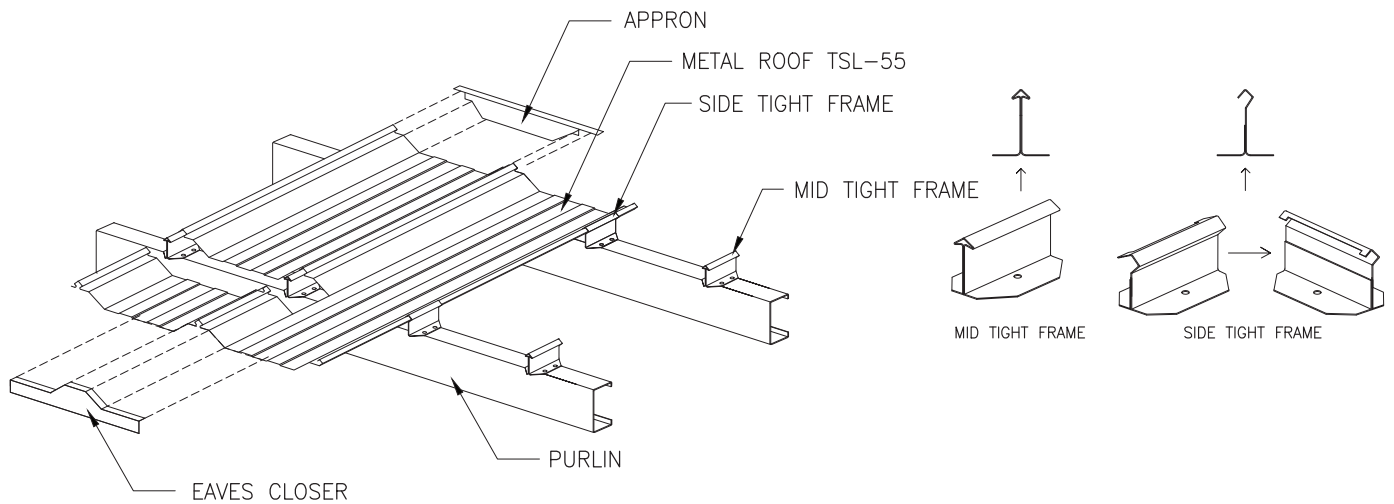
Takumi TSL 55 will give excellent durability in almost all locations. With all of it's fastenings protected beneath the roof and no holes on the roof, Takumi TSL 55 can be expected to outlast through-fixed roofing. However it is important to choose correct coating for each environment applications.

The table shows the Corrosion rates of Galvanized and 55% Al Zn coated Steel at Australian Atmosphere Exposure Test Sites.

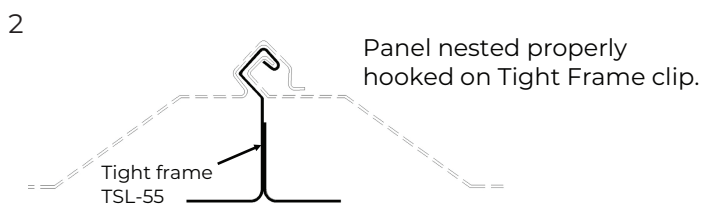
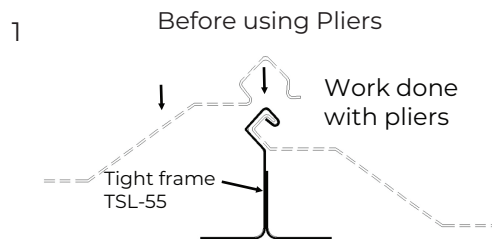
SITE	GALVANIZED STEEL		55% Al-Zn Alloy Coated Steel	
	g/m ² /y	um/y	g/m ² /y	um/y
SEVERE MARINE	140	9.8	16	2.2
MARINE	18	1.3	4.0	0.54
INDUSTRIAL/MARINE	20	1.4	4.2	0.57
RURAL	4	0.28	1.3	0.17

g/m²/y - Two Sided um - one side

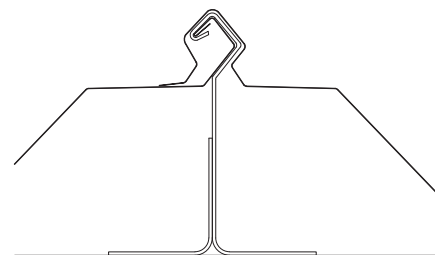
DETAILS



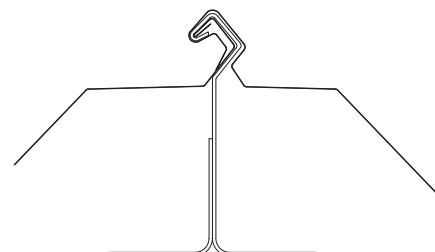
INSTALLATION



BEFORE SEAMING



AFTER SEAMING



FASTENERS

Where insulation is to be installed, you may need to increase the length of the screws given below, depending on the density and thickness of the insulation. When the screw is properly tightened.

Into metal : there should be at least three threads protruding past the support you are fixing to, but the Shankguard must not reach that support.

TRANSLUCENT SHEET (SKYLIGHT)

Installing Translucent sheets with Takumi TSL 55 should be from ridge along to gutter using special galvanized end frame and hex head fasteners : because of its greater thermal expansions, translucent sheet should be fixed using oversized holes and sealing washers. Ensure the fasteners do not penetrate the roof



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