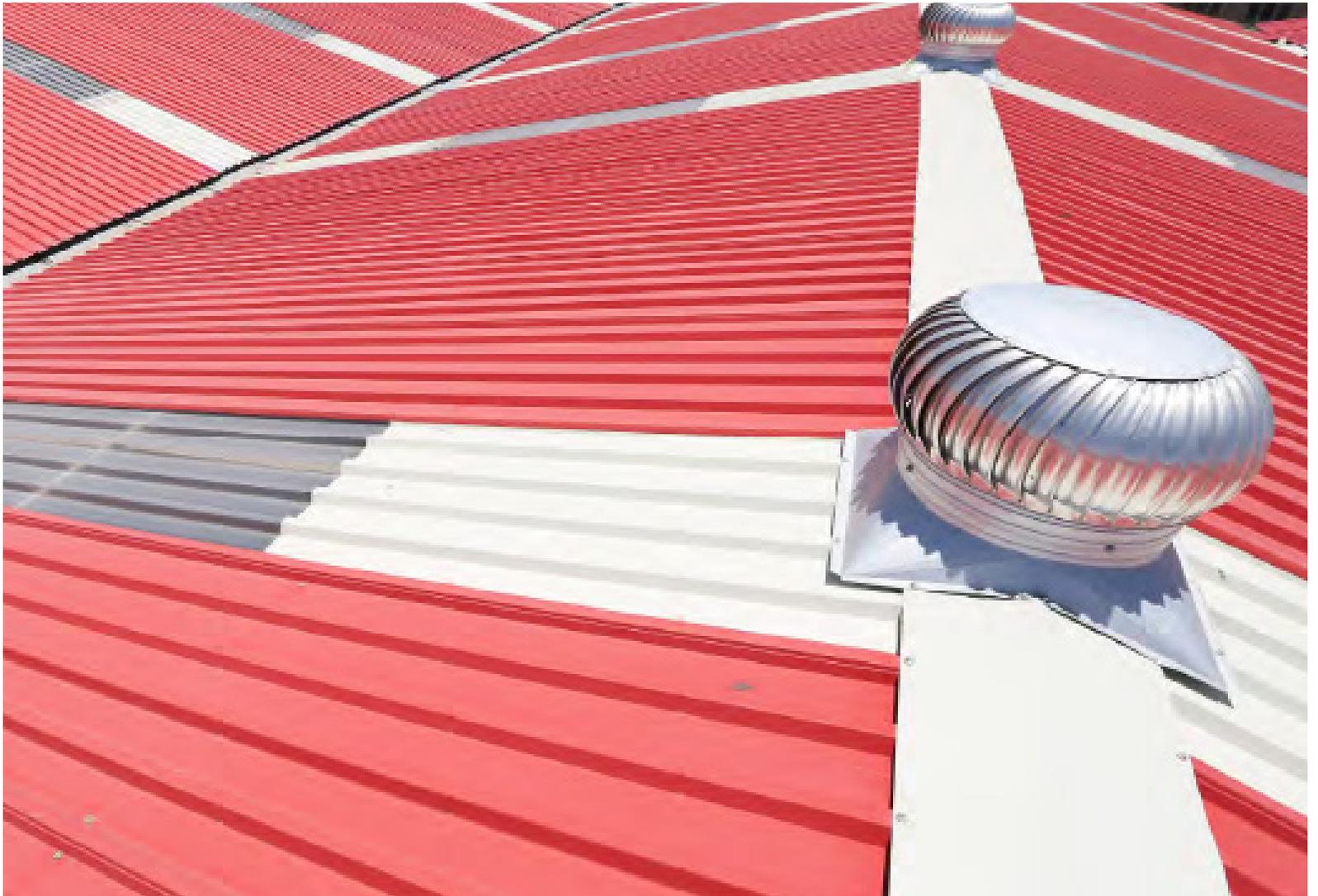




tekdek IT5

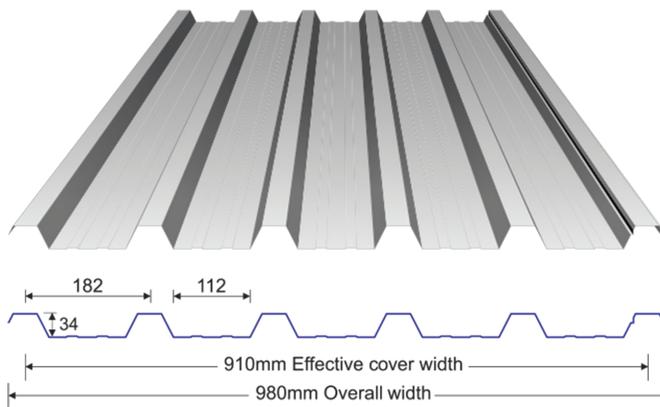


Trusted and Reliable Roofing Product
from Mabati Rolling Mills Limited



■ CATALOGUE

Tekdek IT5® is an angular trapezoidal – ribbed profile of five troughs and six ribs. The profile depth of 34mm gives it remarkable strength to suit its use in roofing and walling primarily in industrial applications. It offers a distinct advantage of 32% wider coverage than conventional IT4, hence better economy. The Tekdek IT5 profile can be factory cranked in both forward and reverse directions into curves of minimum 500mm radius. It can also be naturally sprung without mechanical cranking for radius of 36 meters and above.



PURLIN SPACINGS

Purlin Spacings are dependent on both downward loading and negative suction loading caused by wind. Your engineer should be consulted to calculate your load [kN/m²] for your particular application.

STEEL SHEETS SUPPORT SYSTEM			
TOTAL COATED THICKNESS (TCT) mm	MAXIMUM PURLIN SPACING IN METRES (m)		
	SIMPLY SUPPORTED (2 SUPPORTS)	CONTINUOUS SUPPORTS (3 SUPPORTS)	CONTINUOUS SUPPORTS (>3 SUPPORTS)
ROOFS			
0.40	1.1	1.3	1.4
0.50	1.3	1.4	1.6
0.60	1.4	1.6	1.8
0.70	1.6	1.8	2.0
WALLS			
0.40	1.4	1.6	1.8
0.50	1.6	1.9	2.1
0.60	1.8	2.1	2.4
0.70	1.9	2.3	2.6

RECOMMENDED END-LAPPING			
	SLOPE/PITCH	ENDLAP MIN. mm	ENDLAP MAX. mm
ROOFS	less than 15°	250	300
	Greater than 15°	200	250
WALLS		150	200

Notes: These spacings are indicated as a guide for information purposes only. The user should ensure to have a qualified professional work out the precise spacing specifications based on the design considerations unique to the project/site. It is important to reduce the purling spacings by 20% when spring curving a roof.

LENGTHS & ROOF PITCH

When using Tekdek IT5 sheeting the recommended minimum pitch for roof slopes in excess of 15m is 10° and for slopes less than 15m is 7.5°. Tekdek IT5 sheeting can be ordered in lengths up to 12m [length of semi-trailer], however, 9m lengths are recommended due to handling challenges.

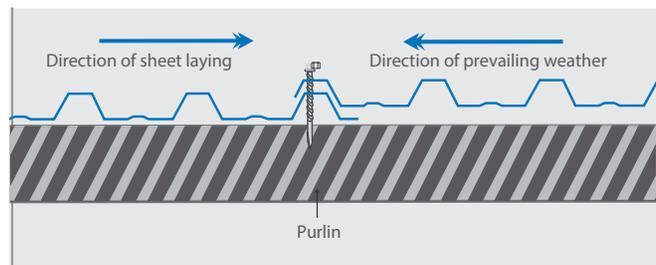
TOLERANCES

A length variation range of +/-5.0mm, and width tolerance of +/-3.0m are permissible

When using Box Rib profiles for side cladding, fasten in the valley/pan of the profile using LS25 fasteners. Side lap stitching may be required at midspan of purlins, to allow the two overlapping ribs behave as a single rib structurally and further waterproof the side laps

FASTENING

Tekdek IT5 is pierce-fixed to timber or steel supports. This means that fastener screws pass through the sheeting. You can place screws for Tekdek IT5 through the crests or in the valleys. To maximize water tightness, always place roof screws through the crest. For walling, you may use either crest or valley fixing. Always drive the screws perpendicular to the sheeting, and in the centre of the corrugation or rib. Don't place fasteners less than 25mm from the ends of sheets.



INSTALLATION

The recommended roof fixing method for Tekdek IT5 profile is as shown in the figure below:

