

PRODUCT DESCRIPTION & FEATURES

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 dependant 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.

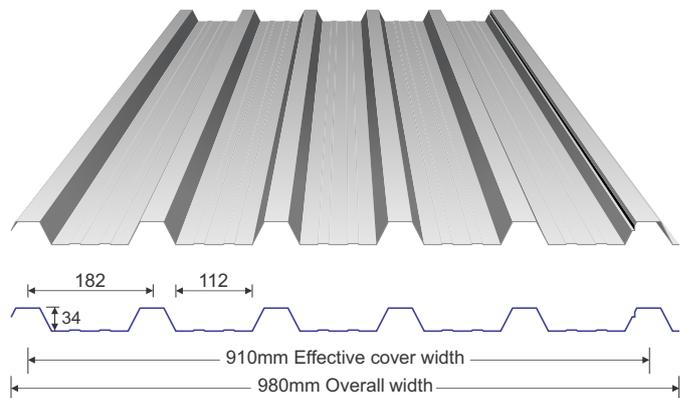


STEEL SHEETS SUPPORT SYSTEM			
TOTAL COATED THICKNESS (TCT) mm	MAXIMUM PURLIN SPACING IN METRES (m)		
	SIMPLY SUPPORTED (2 SUPPORTS)	CONTINUOUS SUPPORTS (3 SUPPORTS)	CONTINUOUS SUPPORTS (>3 SUPPORTS)
ROOFS			
0.40	1.1	1.3	1.4
0.50	1.3	1.4	1.6
0.60	1.4	1.6	1.8
0.70	1.6	1.8	2.0
WALLS			
0.40	1.4	1.6	1.8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

1. 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.
2. It is important to reduce the purlin spacings by 20% when spring curving a roof.



COVERAGE CALCULATOR

To calculate the number of sheets (N) to cover a given area. Required, use the formula: $N = W/0.910$ Where; W is the linear width of the roof in metres and N is the number of sheets.

Note:

During installation, clean the roof daily by removing all swarf, pop rivets and unused fasteners or any other debris.

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 +/-3,0mm are permissible

FASTENING

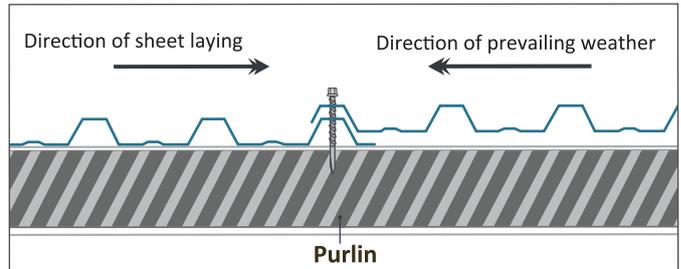
Tekdek IT5 is pierce-fixed to timber or steel supports. This means that fastener screws pass through the sheeting. You can place screws for Tekdek IT5 through the crests or in the valleys. To maximise water tightness, always place roof screws through the crest. For walling, you may use either crest or 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 25 mm from the ends of sheets.

The edge of Tekdek IT5 with the anti-capillary groove is always the under-lap. It is generally considered good practice to use fasteners along side-laps however, when cladding is supported as indicated in purling spacings, side-lap fasteners are not usually needed for strength.

End-laps are not usually necessary because Tekdek IT5 is available in long lengths. If you want endlaps, seek advice from your nearest MRM office on the sequence of laying and the amount of overlap. When Tekdek IT5 is laid on slopes of 7.5 degrees or more, cut back the corner of the undersheet, at the downhill end of the sheet to block capillary action.

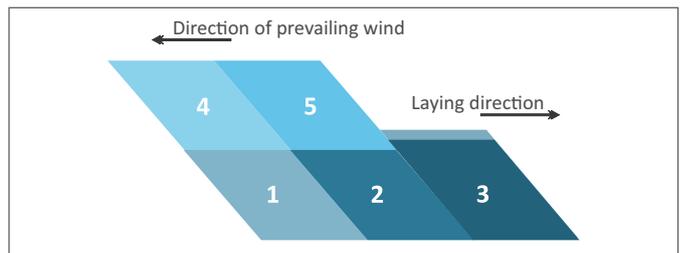
INSTALLATION

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



FIXING PROCEDURE

Lay each run of sheets in turn from side to side before moving onto the next run as depicted below. Similar procedure for wall cladding too.



Disclaimer:

- Care has been taken to ensure that the information provided is accurate. MRM does not assume responsibility for inaccuracies or misinterpretations of this data.
- MRM is continuously engaged in product development, please ensure that you have the most recent issue of information from MRM.
- Photographs and illustrations are typical examples of roofing and cladding products and applications.