

PRODUCT DESCRIPTION & FEATURES

Tekdek® 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 profile can be factory cranked 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

TEKDEK is rolled in Hard material only- G550

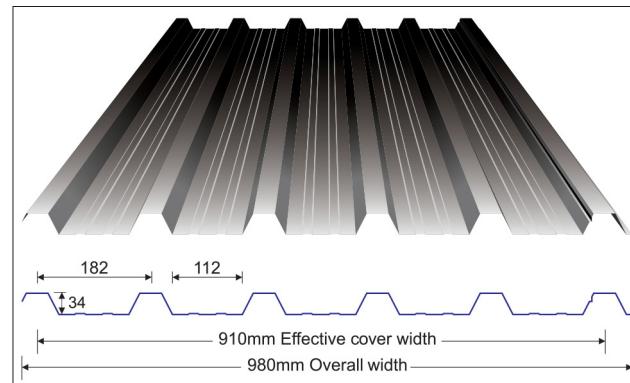
RECOMMENDED END-LAPPING

	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 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 sheeting the recommended minimum pitch for roof slopes in excess of 15m is 10° and for slopes less than 15m is 7.5°. Tekdek 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 +/-1.5mm, and width tolerance of +/-1.5mm are permissible

FASTENING

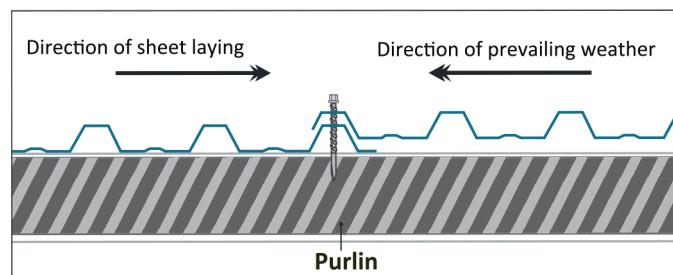
Tekdek is pierce-fixed to timber or steel supports. This means that fastener screws pass through the sheeting. You can place screws for Tekdek through the crests or in the valleys. To maximise water tightness, always place roof screws through the crest. For walling, you may use either crest or valley 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 with the anti-capillary groove is always under the 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 is available in long lengths. If you want endlaps, seek advice from your nearest ALAF office on the sequence of laying and the amount of overlap. When Tekdek 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 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.

