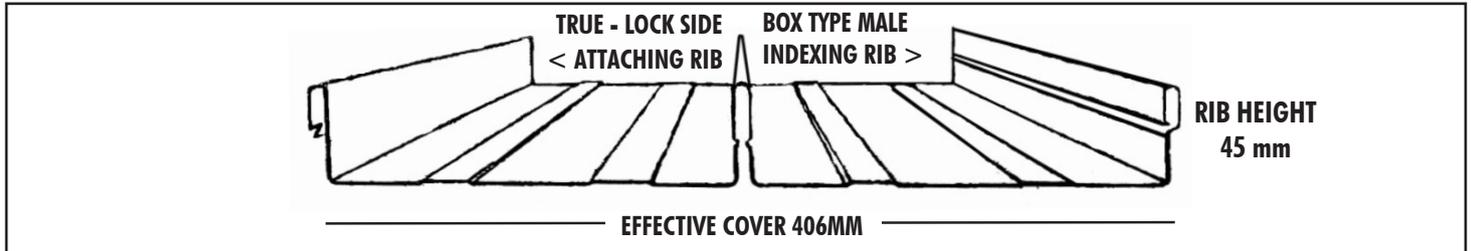


ROLDEK 406™



CONCEALED FIXED ROOFING

Roldek is cold rolled from a continuous strip in a range of finishes. Roldek has an application for roof and wall cladding. The unique 'True Lock' side to side fixing of Roldek trays is designed for maximum strength.



ADVANTAGES

COST SAVINGS

Roldek is produced in two thicknesses enabling you to choose the one best suited to your needs at the most cost effective rate. In addition, there are no laps, thus reducing installation cost.

PROTECTION

Zinc and Colour steel provide the best protection from the environment, therefore extending considerably the effective working life of any structure.

LONG SPANS

Roldek sheets have 3 ribs 45 mm in height with a coverage of 406.4mm. This profile has been designed to allow the use of wide support spacings, whilst still being able to resist wind and other stressful loads.

TOLERANCES

Overall length, ± 10 mm.
Cover width, ± 10 mm.

ROOF PITCH

When the ribs of Roldek are snapped together, the deep and widely spaced ribs form an anti - capillary space which prevents the entry of water. Roldek has excellent water run off capabilities and can be used on roof pitches as low as 1° (1 in 60).

LENGTHS

Roldek can be cut, in the factory, to any length specified by the client. When determining lengths required, allow 50 mm extra for overhang into gutters.

SUPPORT RECOMMENDATIONS

MAXIMUM SUPPORT SPACINGS (NON CYCLONIC). Values are given (below) for buildings located under the following conditions as specified by AS1 170 Area - Non Cyclonic.

APPLICATION

COMPATIBILITY

Lead flashings and copper alloy materials should not be used with, or in, run off situations with Zinc sheeting. Do not use lead head nails.

SEALING

Zinc or colour materials cannot be soldered. To seal, a suitable sealant and mechanical fasteners must be used.

MATERIAL SPECIFICATIONS

- Galvanised finish is Z450 zinc coating (450 gram per square metre) of 0.05mm thickness in accordance with AS1397.
- Zinc finish is AZ150 zinc/aluminium alloy coating (150 gram per square metre minimum coating mass) of 0.05mm thickness in accordance with AS1397.
- Colour finish is pre - painted oven baked, cured, available in a number of colours, over a steel based coating of 0.05mm thickness in accordance with AS1397.

It is the responsibility of the purchaser to ensure that any product purchased from Robot Building Supplies complies with all the building regulations/requirements of any Council, Planning or Building Authority. Robot Building Supplies makes no representations as to compliance with any such regulation or law and will not accept any claims arising from non compliance.

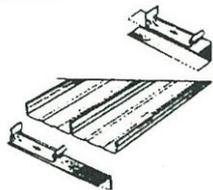
| SPAN CHART Approximations for normal conditions | COVER (mm) | BASE METAL THICKNESS (mm) | MAX END SPAN (mm) | MAX CENTRE (mm) | MAX CANTI - LEVER (mm) | MASS WEIGHTS (kg/m ²) |
|---|------------|------------------------------|----------------------|--------------------|---------------------------|--------------------------------------|
| | 406.4 | 0.55 | 1200 | 1500 | 600 | 6.9 |

INSTALLATION

Installation should be carried out according to the 'Code of Common Practice for Steel Roofing SAA' HB39 - 1997.

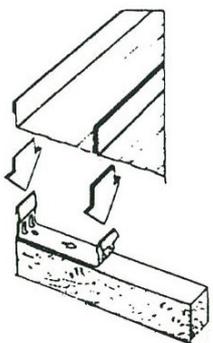
ANCHORAGES

The standard Roldek strap anchor (illustrated) clamps tightly over the male (indexing) rib and additionally locks down the centre rib of the deck, thus providing a fail - safe all - ribs anchoring safety. A directional arrow for fixing is included.



FIXING

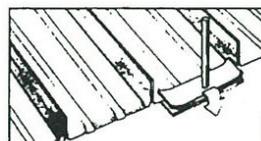
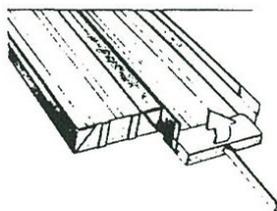
Before commencing fixing, check the cumulative sidecover of the trays to determine any variation between this and the overall width of the work. Do not cut trays lengthwise; plan to bridge the difference with wide flashings. Lay the deck trays with the indexing (male) rib in the direction of the fixing and install one full run of strap anchors. Engage the next tray as illustrated here, entering the centre rib first so as to avoid bending the strap upstand. Snap the deck hard down into position, using force but avoid beating with a hammer which may disfigure the rib profile. When installing straps use the nails or screws supplied by the manufacturer, but if other devices are chosen, assure from the relevant supplier that these have a failure or withdrawal resistance of not less than 450kg.



TRAY ENDING

When measuring a job for deck trays, it is necessary to allow (add) 50 additional mm to each end to allow for stop ending the high end and lipping into the gutter at the low end. Trays are stop-ended by slitting the rib-crests for a distance of 50mm, as shown in the first illustration (below), then with the stop-ending tool fold up the pan ends through 90 degrees and beat in the resultant 'ears' to form a neat waterproof stop-end. Any metal standing proud of then normal tray height should be hammered down to avoid interference with flashings or cappings.

The second illustration (below) shows the use of the pan down-turn tool. This tool is used to lip-down the pan ends into the gutter to assure a good rain-water drip-off into the spouting. Avoid excessive down-turn of the tray ends - an angle of 20 degrees is ample and will assist in easing the later task of clearing out the gutters.



RIDGE TREATMENTS

RIDGE CAPPING

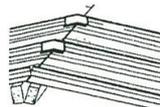
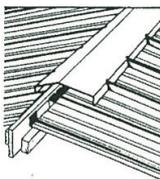
Ridge capping is carried out by stop - ending the Roldek trays at the ridgeboard and capping over the standard Roldek ridge capping (see first illustration next column). For pitched roofing the deck trays to require anchoring to the ridge to prevent down-creep in the clips.

RIB CAPPING

See second illustration below. This is carried out by slitting the Roldek ribs over the ridge - line and folding the roof down as shown here. The application is suitable for pitches up to 1 in 12. The rib-caps are filled with sealant at the two ends and forced over the slit ribs to trim and waterproof the ridge line.

CURVED RIDGES

For pitches up to 2 degrees, Roldek will curve over a ridge area extending from 610 mm to 1220mm down the slope from a theoretical ridge line. Accordingly, the two ridge purlins should be spaced 915 mm or 1830 mm apart, leaving clear the space between them so that the Roldek may curve smoothly over the intervening ridge area. The arching of the trays is carried out in situ, the technique being to fix each deck from one gutter end, then on arrival at the ridge area, force the tray into its curve and continue fixing down the slope to the other gutter.

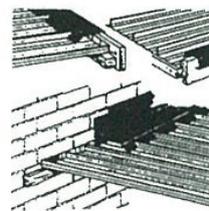


FLASHING

The illustration next column shows standard Roldek flashings applied to the high-end (barge), side-barge and ended to a brick wall or parapet. Note that all high-end trays should be stop-ended and anchored against down-creep by a fixing beneath the flashing. All piercings through flashings for fixing must be treated against water seepage.

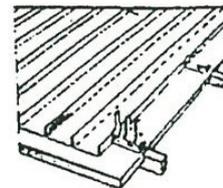
Barge boards at high-ends and sides should extend 50mm above the deck pan level, i.e. they should have tops about 3 mm higher than the tops of the deck ribs. Barges at the lower (gutter) ends are 50 mm narrower, being placed beneath the trays which extend over them then into the gutter.

Not illustrated is the side flashing to a brick wall and this is similar to the end -flashing, the only difference being the allowance for roof slope in the flashing. In all cases of a gap between the tray and flashing, the gap should be made good with a timber infill and a suitably wider flashing used to bridge the piece.



INSULATION

Fibreglass insulation blanketing fixed between the Roldek underside and the purlins should be placed foil - side downward, or with wire net or mesh to support the insulation and keep it pressed hard up to the underside of the roof decking. The Roldek is fixed as normal, the strap anchors being used to compress the blanket material where it crossed the purlins. The illustration below shows the principle of this application.



When using strap anchors to compress thick or resilient blanketing, a third fixing point in the tail of the directional arrow is recommended to assist in overcoming the natural 'spring-back' of the insulation.

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