

# BuilDeck-R30®

**POPULAR ROOFING & WALLING PROFILE**

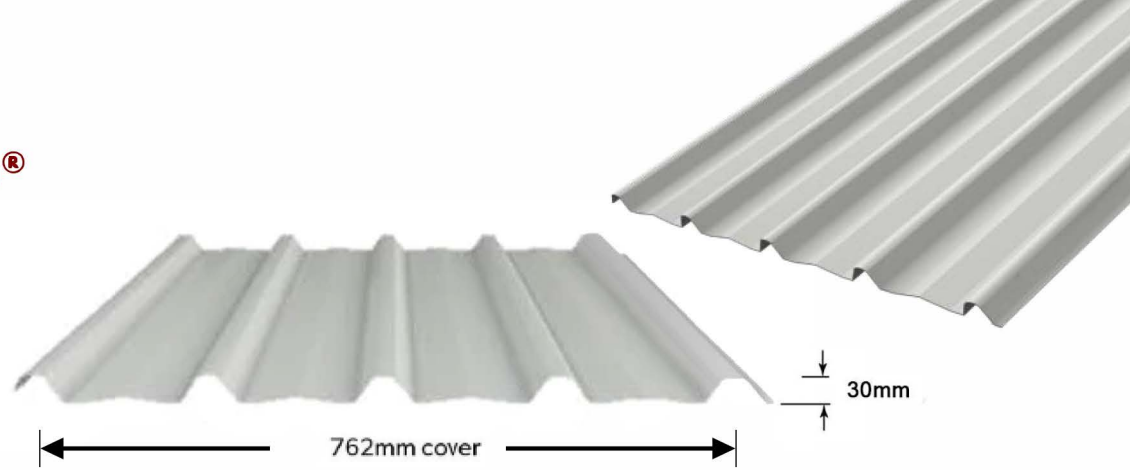


**Buildco-TECH GUIDE**



**Buildco**

# BuilDeck-R30®



BuilDeck-R30® is custom length, high tensile steel roofing manufactured from 0.47mm and 0.48mm colorbonded, Zinc-Aluminum. It is also available as wall cladding from 0.35mm colorbonded, Zinc-Aluminum steels. BuilDeck-R30® is ideal for roof and wall cladding on commercial and industrial buildings; and as roofing on carports, garages and patios. It can also be used for fencing, fascia and facade work

## FEATURES & BENEFITS

- Custom lengths
- Lightweight
- Ideal for commercial & industrial applications
- Wide range of colours
- Matching accessories available
- Long spanning capability

### BuilDeck-R30® - ROOFING

Thick mm	Steel Base MPa	Mass kg/m <sup>2</sup>	Mass Zn/Al g/m <sup>2</sup>	Min. Pitch°	Max Spans mm **	
					End	Internal
0.47	G550	4.30	150	2 (1 in 30)	1350	1900
0.50	G550	4.57	150	2 (1 in 30)	1450	2000

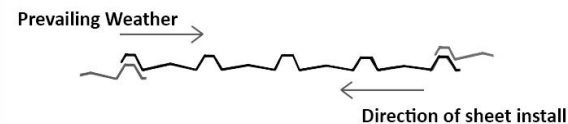
### BuilDeck-R30® - WALLING

0.40	G550	3.62	150	2400	3000
0.47	G550	4.30	150	2400	3000
0.50	G550	4.57	150	2400	3000

\*\* Max. Spans are based on N2 Wind Category and 1.5mm substrate

## FASTENERS

BuilDeck-R30® may be fastened to timber or steel supports by conventional crest fixing. Always face side laps away from the prevailing weather.



### Steel Supports 1.5mm to 4.5mm BMT

**Roofing** Buildex 12x14x55mm HGS Hex Head with seal (Crest Fix)

**Walling** Buildex 12x14x25mm HWFS Hex Head with seal (Valley Fix)

### Timber Supports

**Roofing** Buildex CT 17 12 x 11 x 65mm Hex Head with seal

**Walling** Buildex CT 17 12 x 11 x 25mm Hex Head with seal

Tailor screw selections to suit environmental conditions.

## What is

## BuildcoTech™ ?

BuildcoTech™ is Buildco's

Technical Resource Centre. It is the one stop shop for all of Buildco's product and technical information. Perfect for builders, contractors and specifiers to source all the information they may require. You can find other BuildcoTech™ items on our website.

[www.buildcolanka.com](http://www.buildcolanka.com).

## SIDE LAPS

It is considered good practice to use fasteners on side laps, although these are generally not necessary when the sheeting is supported as indicated in the maximum span tables or for roof spans under 900mm and wall cladding spans under 1200mm. Side lap fastening should be considered if the weather resistance of the joint is questionable for any reason.

## SPRING CURVING

Thick mm	CONCAVE		CONVEX		
	Min. Radius	Max. Support Spacing	Min. Radius	Max. Support Spacing	Max. Radius for Drainage
0.47	20m	900mm	70m	1200mm	105m
0.50	20m	900mm	60m	1200mm	105m

## DRAINAGE & OVERFLOW

Max Roof Run (m) for Slopes & Rainfall Intensity					
Rainfall Intensity mm/hr	BuilDeck-R30® Roof Slope				
	1 in 30 2°	1 in 20 3°	1 in 12 5°	1 in 7.5 7.5°	1 in 6 10°
100	220	257	320	382	439
150	146	172	214	255	293
200	110	129	160	191	220
250	88	103	128	153	176
300	73	86	107	127	146
400	55	64	80	96	110

- Rainwater run-off and drainage capacity may place some limitations on the total length of a sheet run and must be considered during the design and construction phase of a project.
- The total length of roof sheeting; which shall include end laps, expansion joints or steps and draining the roof in one direction, shall be considered as a single roof run.
- Thermal expansion must also be considered.
- Maximum production and transport lengths may limit availability.

## LENGTH

Buildco supplies BuilDeck-R30® cut to order as required; depending on load limit regulations set by local transport authorities. Lengths for manufacture need to be site measurements and not taken off plans. Sheet length is obtained by measuring the distance from the ridges to the external edges or fascia and adding a minimum of 50mm for overhang into the gutter.

To prevent damage when lifting long lengths, ensure sheets are lifted with the use of multiple lift point spreader bars.

## CUTTING

Cut sheets with a method and in a location so that damage is avoided to sheets and other building products. Material should be cut on the ground and not above other materials. Remove all swarf and debris from the work and installation area. Sheets may be cut using a power saw with a steel cutting blade, a power nibbler or with tin snips. Avoid using abrasive discs as these can cause edge and coating damage.

## CLEAN UP

Prior to departing the work site remove all foreign debris, screws, rivets and especially any swarf created by drilling or cutting from the roof surface and/or inside gutters. Failure to do so may result in premature corrosion.

## MATERIAL COMPATIBILITY

Never use lead flashings with BuilDeck-R30® sheeting made from Colorbonded, Zinc-Aluminum steels. Avoid drainage from copper roofs onto roofing or rainwater products. Lead, copper, bare metal and some chemically treated timbers are not compatible with BuilDeck-R30®.

## ADVERSE CONDITIONS

Localised environmental conditions can impact the corrosive nature of a site which may impact on material choice. Conditions that may impact on material choice include; direction of prevailing winds, rainfall intensity, duration of exposure, temperature, shelter and areas not washed by rainfall. Contact your local BuildcoTech Team if you intend to use BuilDeck-R30® within 1 km of industrial, chemical, marine or corrosive environments.

## MATERIAL SPECIFICATION & SCOPE

All roofing and walling should be specified on drawings as BuilDeck-R30®, manufactured by Buildco's and installed in accordance with the manufacturers recommendations. Base sheet steel is G550 with specified finish.

## AVAILABILITY & DELIVERY

BuilDeck-R30® is available nationwide. Contact your local BuildcoTech Team for lead times, colours and availability.

Ensuring suitable arrangements are made to assist the unloading of Buildco's trucks will help supply material in good order. When lifting long lengths by crane please ensure the load is evenly spread. Where a crane cannot be made available it is the customers responsibility to provide sufficient labour to assist the driver in unloading.

## BuilDeck-R30® FOOT TRAFFIC

Thick (mm)	Internal Span (mm)	End Span (mm)
0.47	1900	1350
0.50	2600	1900

- Foot traffic limits are based on AS/NZS 1170.1 for R30 - Other roofs.
- All traffic must use the designated foot traffic paths and, at all times, follow safe practices.

## BuilDeck-R30® OVERHANGS

The overhangs on BuilDeck-R30® are limited to the values in the following table. Overhangs have a minimum length of 50mm. Stiffened overhangs incorporate an angle or gutter attached to the sheet end.

	Thick (mm)	Plain (mm)	Stiffened (mm)
<b>ROOFING</b>	0.47	150	300
	0.50	200	350
<b>WALLING</b>	0.40	150	250
	0.47	200	300
	0.50	250	350

- Plain overhangs are limited to 20% of the adjacent end span.
- Stiffened overhangs are limited to 33% of the adjacent end span.

## Features of BuilDeck-R30

Elevate your architectural vision with BuildcoTech's cutting edge roofing solution, BuilDeck-R30. A fusion of innovation and functionality, it redefines excellence with a 30mm high rib for ultimate weather protection, Anti-Capillary Gap, and Return Leg features for structural integrity, and a vibrant color palette for personalized aesthetics. Choose BuilDeck-R30 for a roofing experience where durability meets style, setting new standards in longevity and performance.

## Serviceability of BuilDeck-R30

	Thick (mm)	Mass (Zn,Al)/m <sup>2</sup>	Grade
<b>ROOFING</b>	0.4	AZ 150	G 350, G550
	0.47	AZ150, AZ 200	G 350, G550
<b>WALLING</b>	0.5	AZ 150, AZ 200	G 350, G550

Discover the future of durable construction with **BuildcoTech's advanced superior highly corrosive resistant coated steel roofing and walling**. Engineered to withstand salty, livestock, agricultural, and chemical environments, our innovative solutions ensure longevity and reliability. Connect with the BuildcoTech team today to tailor these cutting-edge technologies to meet your specific requirements – because your project deserves the best in protection and performance.

When opting for BuilDeck-R30 Roofing and Walling, kindly reach out to the BuildcoTech team. Please note that thicknesses and colors are subject to availability. Design tables are specifically calibrated for 0.4mm, 0.47mm, and 0.5mm. Your attention to these details is appreciated.

## WALKING ON BuilDeck-R30®

When walking on BuilDeck-R30® roof sheeting always wear flat rubber soled shoes and only walk in the roof pans.

## TOLERANCES

Consideration should be given to the following manufacturing tolerances:

**Length** +10mm, -15mm      **Width** ± 4mm

## THERMAL EXPANSION

Change in temperature will cause all metals to expand and contract. There is minimal effect with steel roofing and walling, however care must be taken when long sheet runs are used and high temperature variations occur. Buildco recommends the following maximum runs:

**Dark Colours - Up to 17m**

**Light Colours - Up to 24m**

## CARE, HANDLING & STORAGE

Care should be taken at all times when handling sheets to preserve the quality of the finish. Keep packs dry, stored clear of the ground and protected from rain and moisture. Any sheets which become wet should be separated, wiped and placed in the open air to dry.

## BuilDeck-R30 Color Range

▽ Caulfield Green		▽ Mist Green	
▽ Autumn Red		▽ Maroon	
▽ Lazurite Blue		▽ Chocolate Brown	
▽ Off White		▽ Zinc Aluminum	
▽ Beige			

Last Edited - Dec 2023



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