

IBR (686MM COVER) PROFILE

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1. GENERAL INFORMATION AND APPLICATIONS:

Since its introduction to the market in 1958, *IBR* has become the most popular form of roof sheeting. Due to its numerous advantageous characteristics, it is widely used on commercial and industrial buildings and popular for most residential applications where low-pitched roofs are specified. IBR 686 (an abbreviation for Inverted Box Rib), has an effective cover width of 686mm (i.e.





including the side-lap) and is a crisp, trapezoidal / angular fluted sheet, designed for use as roof covering and side / wall cladding. Its excellent strength to weight ratio provides the most optimum loadspan consistency and the deep, broad fluted design provides excellent drainage capacity. IBR can be factory cranked to the narrow flute (NFO) or broad flute (BFO) (a reverse crank) or bullnosed to a wide range of specifications (Minimum internal radius: 450mm) to suit your application. IBR can be requested / ordered as roofing where the colour is specified to show on the narrow flute side (NFO / Narrow Flute Out) and as cladding to the sides of the building where the colour is often specified to show on the broad flute side (BFO / Broad Flute Out). IBR can also be roll-formed with a stiffener rib in each wide pan/broad flute when used as cladding to assist in minimising oil-canning.

2. SHEET LENGTH AND RECOMMENDED PITCH:

We are able to supply and deliver *IBR* sheets of up to 15 metres in length using our own vehicles.

Delivery of sheets up to 22 metres in length can be arranged by special request at an additional cost.

The minimum recommended roof pitch for IBR is 5 degrees (approx. 87.5mm rise per metre), provided that the roof slope is less than 15 metres.

For longer sheets a minimum pitch of 7.5 degrees is recommended.

3. STRUCTURAL GUIDELINES AND CHARACTERISTICS:

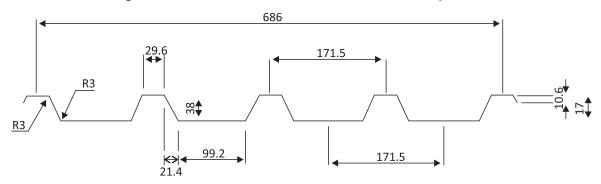
IBR roof sheets are available in a range of materials which will display varying structural properties.

The table below should be used as a guideline only as purlin spacing is dependant on numerous factors, i.e. the prevailing wind conditions in the region; the type of structure that is being erected (single storey / multi storey) and the roof pitch; as examples. We therefore recommend an engineer is consulted to determine the purlin spacing for each particular application.

MAXIMUM RECOMMENDED PURLIN SPACING (metres)							
THICKNESS (TCT- Top Coated Thickness)	0.40mm	0.47mm	0.50mm	0.53mm	0.58mm	0.80mm	
GRADE (Yield Strength)	ISQ/ G 550	ISQ/ G 550	ISQ 550	G550	ISQ 230	ISQ 230	
ROOF							
Single Span	0,90	1,20	1,20	1,30	1,30	1,70	
End Span	1,00	1,30	1,30	1,35	1,35	1,75	
Internal Span	1,00	1,15	1,20	1,20	1,50	1,90	
Cantilever (Internal Span)	0,15	0,30	0,30	0,30	0,30	0,40	
WALLS/ CLADDING							
Single Span	1,20	1,80	1,80	1,95	1,95	2,20	
End Span	1,40	1,90	1,90	2,00	2,00	2,25	
Internal Span	1,40	2,00	2,00	2,20	2,20	2,70	
Cantilever (Internal Span)	0,40	0,60	0,60	0,75	0,75	0,85	

4. TOLERANCES AND TYPICAL PROFILE:

A length variation of \pm 5.0mm and a width tolerance of \pm 3.0mm is permissible.



5. SPECIFICATION/MATERIAL OPTIONS: (COLORBOND NOW INCLUDING THE MATT FINISH)

MATERIAL TYPE	Thickness in millimetres (mm)						
(Subject to stock & availabilty)	0.3mm	0.4mm	0.47mm	0.5mm	0.53mm	0.58mm	0.8mm
Pre-Galvanised	Z100	Z150	Z275	Z275	Z275	Z275	Z275
Bluescope Zincalume® AZ150			✓		✓		
Bluescope Zincalume® AZ200			✓		✓		
Safal Zincal AZ150			✓		✓		
Safal Zincal AZ200			✓		✓		
Bluescope Clean COLORBOND™ AZ150			✓		✓		
Bluescope Clean COLORBOND™ Ultra AZ200			✓		✓		
Safal Colorplus® AZ150			✓		✓		
Safal Colorplus® Ultima AZ200			✓		✓		
POLYCARBONATE	Thickness in millimetres (mm)						
Available in Clear; White/ Opal; Bronze;	0.8mm		1.0mm		1.25mm		
Blue; Green; Solar Control & Difusser	UV1S		UV2S		UV2S		

	SUGGESTED TYPE OF FASTENER						
	WALL/CLA	DDING- BFO	ROOF	- NFO			
	TIMBER	STEEL	TIMBER	STEEL			
Pre-Galvanised	50mm Class II	25mm Class II	75mm Class II	65mm Class II			
Bluescope Zincalume® AZ150	50mm Class III	25mm Class III	75mm Class III	65mm Class III			
Bluescope Zincalume® AZ200	50mm Class IV	25mm Class IV	75mm Class IV	65mm Class IV			
Safal Zincal AZ150	50mm Class III	25mm Class III	75mm Class III	65mm Class III			
Safal Zincal AZ200	50mm Class IV	25mm Class IV	75mm Class IV	65mm Class IV			
Bluescope Clean COLORBOND™ AZ150	50mm Class III	25mm Class III	75mm Class III	65mm Class III			
Bluescope Clean COLORBOND™ Ultra AZ200	50mm Class IV	25mm Class IV	75mm Class IV	65mm Class IV			
Safal Colorplus® AZ150	50mm Class III	25mm Class III	75mm Class III	65mm Class III			
Safal Colorplus® Ultima AZ200	50mm Class IV	25mm Class IV	75mm Class IV	65mm Class IV			
	Colour coded caps are available and strongly advised when a Class IV fastener is required						

Further technical information can be obtained from W.C. Youngman S.A. (PTY) Ltd.

Trading as Youngman Roofing and Sheet Metal Works