

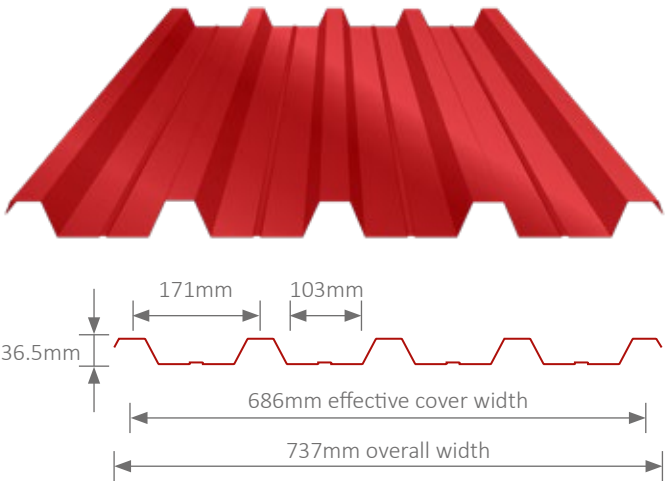
IBR is an abbreviation for Inverted Box Rib, an angular trapezoidal fluted profile sheet with a bold appearance that makes it both attractive and practical. Since IBR was introduced to the South African market in 1958, it has become the most popular sheeting profile used in the construction of commercial and industrial buildings.

The general shape and appearance of the trapezoidal flutes ensure that IBR is totally acceptable for use as roof and wall cladding. The deep and broad flutes of the Tufdek[®] IBR type sheeting ensure excellent drainage characteristics. Tufdek[®] IBR is designed to provide advantageous load/span characteristics consistent with economy. Tufdek[®] IBR is rolled with stiffening ribs in the pan which help to remove oil canning from the broad flute. Tufdek[®] IBR can be factory cranked, curved and bullnosed to a wide range of radii. For further details contact our Technical Department.

SAMPLE SPECIFICATION

Safintra 0.47mm thick, AZ 150 Zincol[®] Tufdek[®] IBR profiled roof sheeting, fixed to intermediate coated steel purlins at 1900mm centres and to ridge and eaves purlins at 1600mm centres, with #12 x 65mm metal-fix Fixtite[™] or Safintra approved hex head self-drilling fasteners at every second crest, at intermediate purlins and at every crest at eave purlins. Side laps to be stitched at 500mm centres between purlins with a #14 x 22mm metal-fix stitching fastener, in accordance with manufacturer’s recommendations.

The sheeting shall be Tufdek[®] IBR type profile as manufactured by Safintra. The profile shall be roll-formed with 5 trapezoidal ribs at 171mm centres with an effective cover width of 686mm. The rib height shall be 36.5mm and shall be fixed in accordance with the manufacturer’s recommendations.



MATERIAL OPTIONS

Aluminium-Zinc coated steel	Gauge (mm)
AZ 100 / 150 / 200 G550 Unpainted or pre-painted	0.47 0.50 0.53 0.55 0.80*
Aluminium	Gauge (mm)
Unpainted or pre-painted	0.80
Zinc-coated steel	Gauge (mm)
Z200 / Z275 ISQ550/ISQ300 Unpainted or pre-painted	0.50 0.58

Other gauges are available on special request. All material is subject to availability.

* Available in G275/ISQ300 only.

Material and coating thickness can vary regionally. Consult your local Safintra branch for availability.

Note 1: All profiles are rolled with stiffener ribs, unless otherwise specified.

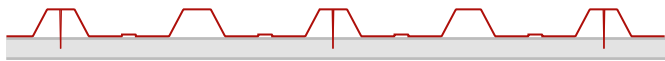
Note 2: During installation, clean the roof daily by removing all swarf, pop rivets and unused fasteners or any other debris.

PURLIN SPACINGS

Purlin spacings are dependent on both downward loading and negative suction loading caused by wind. An engineer should be consulted to calculate the load (kN/m²) for your particular application.

Gauge (mm)	0.47	0.50	0.53	0.55	0.80	0.80
Material	Aluminium-Zinc coated steel	Aluminium-Zinc coated steel	Aluminium-Zinc coated steel	Aluminium-Zinc coated steel	Aluminium-Zinc coated steel	Aluminium
Roofs	mm	mm	mm	mm	mm	mm
Single span	1300	1400	1500	1600	1900	1200
End span	1600	1700	1800	1900	2200	1500
Internal/double span	1900	2000	2100	2200	2500	1800
Cantilever	200	200	250	250	400	200
Side cladding						
End span	1700	1900	2100	2300	2600	1500
Internal span	2100	2300	2500	2700	3000	1900
Cantilever	300	300	400	350	350	300
Approximate mass (kg/m ²)	4.80	5.11	5.42	5.62	8.18	3.02

Design requirements exceeding the above may be considered in consultation with the Safintra Technical Department.



FIXING GUIDE

Tufdek® IBR is pierce fixed to timber or steel supports. This means that fastener screws pass through the sheeting. Always drive the fasteners perpendicular to the sheeting, and in the centre of the rib.

It is recommended that side laps be stitched at 500mm centres. It's further recommended that every rib is fixed at the eaves, ridges and the apex of the roof. Side laps to be sealed using a suitable butyl product or neutral cure Silicone.

Refer to the Fixtite™ fastener section for fixing guidelines.

FASTENERS FOR TUFDEK® IBR

	Roof	Side cladding
Steel	#12 x 65mm metal-fix hex head	#12 x 25mm metal-fix hex head
Timber	#12 x 85mm timber-fix hex head	N/A

FLASHINGS AND SIDE STITCHING

	Roof	Side cladding
Steel	#14 X 22mm metal-fix stitching fastener, hex head, tapered	
Timber		

Note 3: Safintra recommends the use of Fixtite™ or Safintra approved Class 4 fasteners.

LENGTHS AND ROOF PITCH

Tufdek® IBR sheeting can be ordered in any length, subject to transport limitations, up to 13.2m. Longer lengths require special transport arrangements. When using Tufdek® IBR sheeting the recommended minimum pitch for roof slopes in excess of 15m is 7.5° and for slopes less than 15m is 5°.

DIMENSIONAL TOLERANCES

A length variation range of +10mm or -0mm, and a width tolerance of ±5.0mm is permissible. This applies to straight sheet lengths only.

Note 4: Note that when using Aluminium material or galvanized steel purlins, the use of an isolation tape or similar to prevent the bridging of the two dissimilar materials is recommended. Should the two metals have direct contact it will ultimately result in the manifestation of bimetallic corrosion, and the service life of the Aluminium will be compromised.

**Refer to the Safintra Technical Department for more information or raise any enquiries in writing to info.safintrasa@safalgroup.com*

