

# IBR 686 Roof & Wall Sheeting

## Inverted Box Rib profile — 686 mm effective cover

IBR is the standard inverted-box-rib cladding profile of southern Africa: five trapezoidal ribs at 171.5 mm centres giving a 686 mm effective cover, pierce-fixed through the pan. Manufactured to order in cut-to-length sheets.

### Profile geometry

|                       |                                                          |
|-----------------------|----------------------------------------------------------|
| Effective cover width | 686 mm                                                   |
| Ribs                  | 5 trapezoidal ribs                                       |
| Rib centres (pitch)   | 171 – 171.5 mm                                           |
| Rib height            | 36.5 – 37 mm                                             |
| Fastening             | Pierce-fixed, side-lapped (approx. one rib)              |
| Minimum roof pitch    | 7.5° — below this, end laps and side laps must be sealed |

### Material & thickness

|                            |                                                                 |
|----------------------------|-----------------------------------------------------------------|
| Base metal thickness (BMT) | 0.30 – 0.80 mm                                                  |
| Common gauges              | 0.50 / 0.53 / 0.58 mm                                           |
| Coating                    | Hot-dip galvanised (Z200 / Z275 class) — confirm for your order |
| Sheet length               | Cut to order                                                    |

### Tooling note — cover widths

**686 mm is the standard IBR cover width.** An **890 mm** IBR variant exists for some international projects and requires a separate tooling set. **762 mm is not an IBR cover width** — that width belongs to the wide-span (Widespan / Widedek 760) and corrugated families. Please state both the profile family and the cover width required; a width number on its own does not identify the profile.

### Standards referenced

SANS 10400-L (roofs, South Africa) · SANS 10162 (cold-formed steel design, South Africa) · EN 508-1 (profiled steel sheet products) · EN 10346 (coated steel) · EN 1993-1-3 (cold-formed design) · AS/NZS 4600 (cold-formed design, Australia/NZ) · AISI S100 (cold-formed design, North America)

Dimensional values are the published values of the IBR 686 profile as specified across southern African producers. Coating designations and steel grades are confirmed per order. This sheet is a product summary, not the standard itself.

**Need a quote?** Send the cover width, thickness, coating and total length or tonnage required — or the profile you buy today — and we will confirm tooling, coil width and delivery.

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