Global Roofing Solutions BR7

ROOFING
LIKE NO OTHER

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GRS GLOBAL ROOFING SOLUTIONS
BrownBuilt | HH Robertson

Typical Specification

Materials

The roofing / side cladding shall be BR7 profile, in Aluminium Mill finish / colour coated one side / colour coated two sides, in 0.8mm or 0.9mm thickness. BR7 is obtained from Global Roofing Solutions.

The Profile

The profile shall have five trapezoidal ribs at 127mm centres giving a net cover of 889mm. The rib height shall be 38mm.

Assembly

The BR7 sheeting shall be laid in strict accordance with the manufacturer's specification.

Sheet Length

BR7 is available in sheet lengths limited only by transport restrictions, with normal loads being 12.5m. With special transport arrangements lengths up to 18.6m can be delivered.

Flashing

Stop endings must be formed at the apex to form a dam and the pan turned down to form a drip. The roof sheeting shall be closed as necessary with purpose-made flashings and polyclosures where necessary.

Roof Pitch

BR7 may be used at a minimum roof pitch of 5° for rafter lengths up to 30m. A minimum of 7.5° is required for rafter lengths greater than 30m. Where possible, the max distance between top and bottom rows of fasteners should not exceed 24m for crest fixing and 15m for valley / pan fixing, after which an expansion joint (step lap) is recommended. For all conditions, end laps must be sealed with an approved sealing strip.

Cranking

BR7 can be cranked from a minimum radius of 450mm.

Site Handling

BR7 sheets should be suitably supported clear of the ground under well ventilated cover, away from risk of damage by building operations, contact with cement, dust, lime and abrasive dust, until required to be installed.

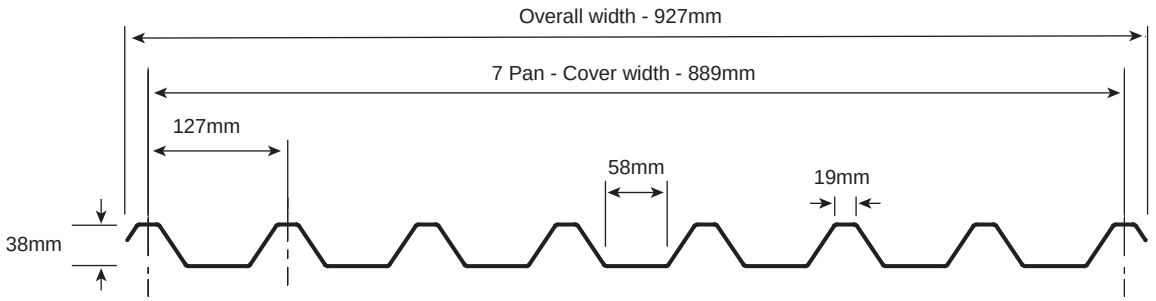
Cleaning Up

The complete roof must be kept clean and free of any swarf and debris.

Quality Assurance

The manufacturer shall be assessed and certified as complying with ISO 9001:2015 Quality Management System.

Profile: BR7



Maximum Allowable Support Spacings		
Type of Span	Aluminium	
	0.8mm 3004 / 9017 (H44)	0.9mm 3004 / 9014 (H44)
Roofs		
Single Span	1.500m	1.600m
End Span	1.700m	1.800m
Internal Span	2.000m	2.100m
Cantilever	0.550m	0.600m
Walls		
Single Span	2.050m	2.150m
End Span	2.300m	2.400m
Internal Span	2.600m	2.700m
Cantilever	0.750m	0.800m

Purlin Support Centres are based on the following design criteria and obtained through testing:
Roofs – Ultimate Super-Imposed Distributed Load of 1,50 kN/m² and Ultimate Uplift Load of 1,60 kN/m².
Walls – Ultimate Super-Imposed Distributed Load of 0,75 kN/m².

Note

Fasteners must be selected to match the life expectancy of the roofing and cladding material. The coating class for fasteners, complying with SANS 1273, should be used in conjunction with all roofing and cladding material. For a full range of compatible fasteners, please refer to the GRS Installation Manual

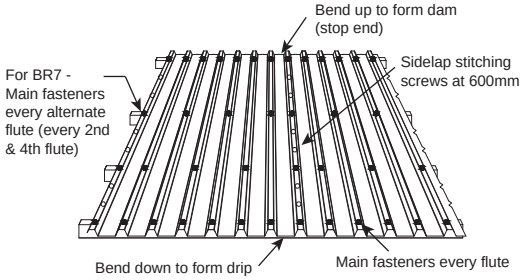
Note: Main Fasteners
#12 - 14 x 65mm lg Self-Drilling Hex Flange Head screw + EPDM seal - Type 3 Drill Point- Into Steel 1mm - 4.5mm thick Roof (Only if NO insulation)
#12 - 14 x 25mm lg Self-Drilling Hex Flange Head screw + EPDM seal - Type 3 Drill Point - Into Steel 1mm - 4.5mm thick Side Cladding (Only if NO insulation)
#12 - 11 x 85mm lg Self-Drilling Hex Flange Head screw + EPDM seal - Type 17 Drill Point - Into Timber (Only if NO insulation)
M6 - 20 x 60mm Buttress Thread Zap Self-Drilling Hex Flange Head screw + EPDM seal # 2 Drill Point - Into Light Steel Structures (Only if NO Insulation)

Note: Sidelap Fasteners
#14 - 14 x 22mm lg Self-Drilling Hex Flange Head Stitching Screw + EPDM seal - For Sidelap Stitching and Flashings

Note: NO INSULATION APPLICATION ONLY!

Assembly - Roof

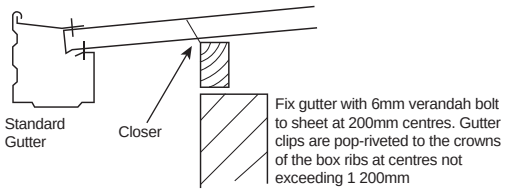
• Main Fasteners
○ Sidelap Fasteners



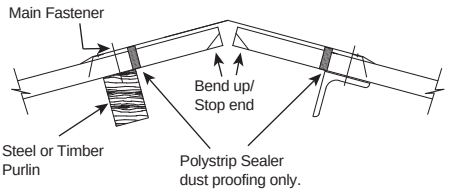
Popular Flashings

Available in 0.7mm or 0.8mm thick in mill finish or colour coated.

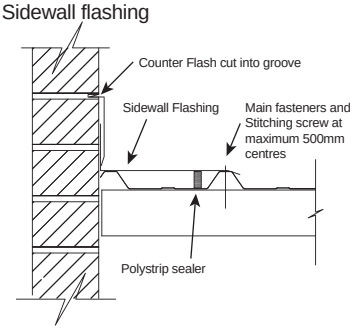
Gutter Detail



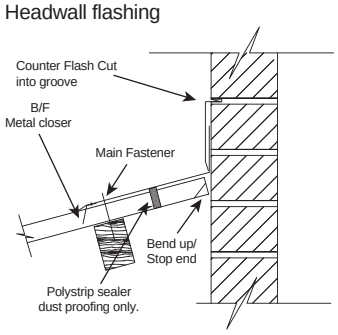
Ridge Cap



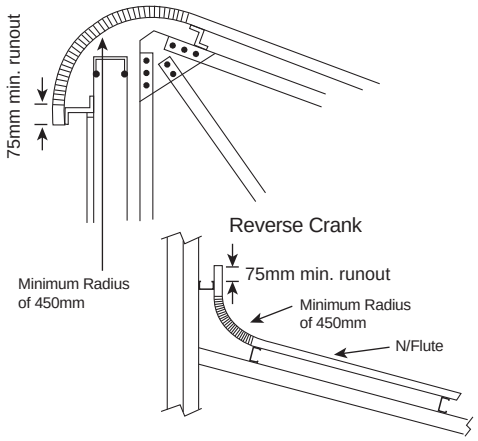
Sidewall flashing



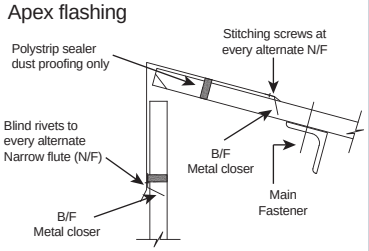
Headwall flashing



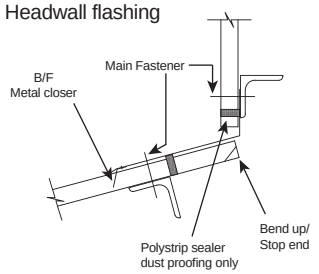
Bullnosing



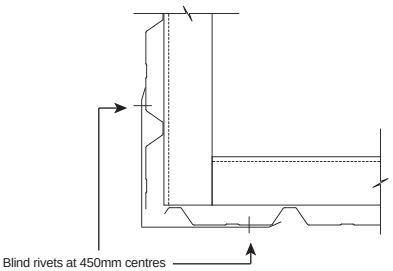
Apex flashing



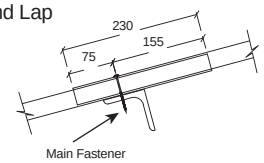
Headwall flashing



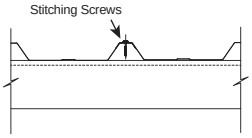
Corner Trim



End Lap



Side Lap



Please visit our website or contact GRS for standard flashing details

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