ariel®

Coroline®

Corrugated Bituminous Roofing Sheet

# Corrugated Bituminous Roofing Sheet

## Installation Guide

AVAILABLE IN A RANGE OF COLOURS

**15 YEAR GUARANTEE**

- Tough and long lasting
- Guaranteed waterproof for 15 years
- Economical and easy to fix

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# Coroline®

Corrugated Bituminous Roofing Sheet

**Coroline** corrugated bitumen sheet is a tough lightweight roofing and cladding material made from bitumen saturated organic fibres giving the following important features:

**Ideal for:**

- Garden sheds
- Garages
- Stables
- Agricultural buildings

**Benefits:**

- Economical
- Resilient
- Environmentally friendly
- Guaranteed waterproof for 15 years
- Simple to fix
- High insulation and sound absorbency values
- Compatible with most commercially available construction materials

**IMPORTANT**
These instructions are guidelines only and do not include all the appropriate equipment which should be used in accordance with safety regulations.

# Sheet Installation

## 1 Preparation **Plan your project in advance.**

For solid decked roofs, ensure your roof is in good condition and make any necessary repairs before you begin installation of the Coroline sheets. Pay particular attention to the construction of the roof section. In this case it consists of an 18mm plywood decked roof supported on timber trusses. Check that the roof deck is sufficiently thick to accept penetration from the Coroline Fixings. Otherwise you will need to substitute the nail fixing with a suitable proprietary screw using the Coroline washer and cap assembly to seal the fixing.

For a Lean-to installation, purlins must be at the correct centres and not less than 25mm square, supported by rafters. A useful tip is to use a timber spacer to keep purlins square to eaves.

## 2 Determining Roof Pitch

For roof pitches of less than 10° the required sheet end lap is 300mm. At 10-15° the sheet end lap is 200mm and at more than 15° the end lap is 170mm.

## 3 Fixing the Sheets

Lay out the sheet, positioning square to the line of the eaves and verge. The sheet should overhang both verge and eaves. Take care that the overhang does not exceed 70mm in the case of the eaves.

If cutting is necessary, cut Coroline sheets to length using a hand saw with a lubricating spray on the blade.

Secure the sheet in place and fix to the verge using Coroline fixings at 100mm centres. Continue to install the sheet on the roof fixing through the crown of the corrugation. On a solid decked roof use a Coroline fixing at every corrugation to the top and bottom of the sheet and at every other corrugation in the middle course. For a Lean-to installation nail centres may be reduced to alternate corrugations at intermediate purlins. Set the next sheet in place with the required side lap and fix in place. Repeat until the roof is fully covered.

# Sheet Installation

## 4 Fixing the Ridge to Solid Decked Roofs

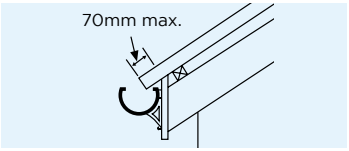
To fix the ridge, align the ridge pieces on the sheets and fix onto the roof, using the preformed end lap grooves on the ridge piece to define the end lap. Secure the ridge pieces with Coroline fixings at every other corrugation.

## 5 Verges

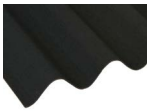
Verges should be formed by either nailing the final corrugation over a raised barge board or using a ridge piece to lay over the verge.

## 6 Fixing Gutters

Do not overhang fascia by more than 70mm. Draughts may be reduced by using Coroline Polyethylene fillers at eaves.



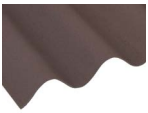

## Colours Available



BLACK

RED

GREEN



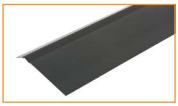
BROWN

## Accessories Available

Coroline accessories include:

Apron Flashing

Onduline Eaves Tray



Batten Cloaking Piece

Ventilator Strip

Please seek advice from the Technical Team for guidance and instruction on fitting Coroline Corrugated Bituminous Roofing Sheet.

## Support
correct centres and are of the correct minimum thickness with the right support. (Details listed in point 1 in fixing instructions section.)

## Sheet overlapping
You must have the correct sheet end lap and corrugation side lap.

## Condensation and Ventilation
Always ensure you have adequate ventilation. Condensation on most projects is avoided by good air ventilation at eaves and gables. Where there is existence of high humidity or minimal ventilation, provision of an insulated vapour barrier is advisable.

| Roof Pitch | Support | Sheet End Lap | Sheet Side Lap |
|---|---|---|---|
| 5° to 10° or gradient 1 in 12 to 1 in 6 | Decking or close boarding | 300mm | 2 Corrugations |
| 10° to 15° or gradient 1 in 6 to 1 in 4 | Purlins at 450mm Centres | 200mm | 1 Corrugation |
| 15° and over or gradient 1 in 4 or less | Purlins at 600mm Centres | 170mm | 1 Corrugation |

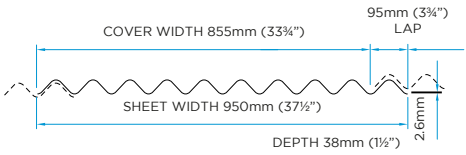
## Fixings
Only use 'Coroline Fixings' at correct spacing. (details listed in point 4 in fixing instructions section)

## Number of Sheets Required
Divide the roof width by the cover width.

## Number of Fixings Required
Divide the roof width by the fixing centres. Divide the roof length by the support centres and add 3. Multiply these two values together = approximate number of fixings required.

## 15 Year Waterproof Guarantee
ARIEL PLASTICS LIMITED guarantees that Coroline will remain waterproof for 15 years in normal weather conditions. This Guarantee is only valid providing the Coroline has been fixed in accordance with the manufacturer's instructions and does not extend to the cost of re-erection or other consequential loss. This Guarantee is offered as an extra benefit and does not affect the consumers statutory rights.

| Properties | Coroline Sheet |
|---|---|
| Sheet Size | 2000mm x 950mm |
| Cover Width | 855mm |
| Thickness | 2.6mm |
| Sheet Weight | 5.6kg |
| Material Weight | 2.9kg/m$^2$ |
| Corrugation | 38mm height 95mm width |



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All reasonable care has been taken in the compilation of the information contained within this literature. Ariel Plastics reserves the right to amend specifications without prior notice. All recommendations on the use of our products are made without guarantee as conditions of use are beyond the control of Ariel Plastics. It is the customer's responsibility to ensure that the product is fit for its intended purpose and that the actual conditions of use are suitable.

**Fire Performance**
Ariel Plastics products can be used in a wide variety of applications and although many of the materials used are widely considered to have good fire performance, they are not all currently formally fire tested/certified. This means that there are some applications where they may not be suitable, for example in some buildings taller than 18m. Those who select, specify or install products should always be aware of the relevant building regulations to ensure that products are installed in the correct applications. For detail on the fire performance of specific products please contact the technical department.