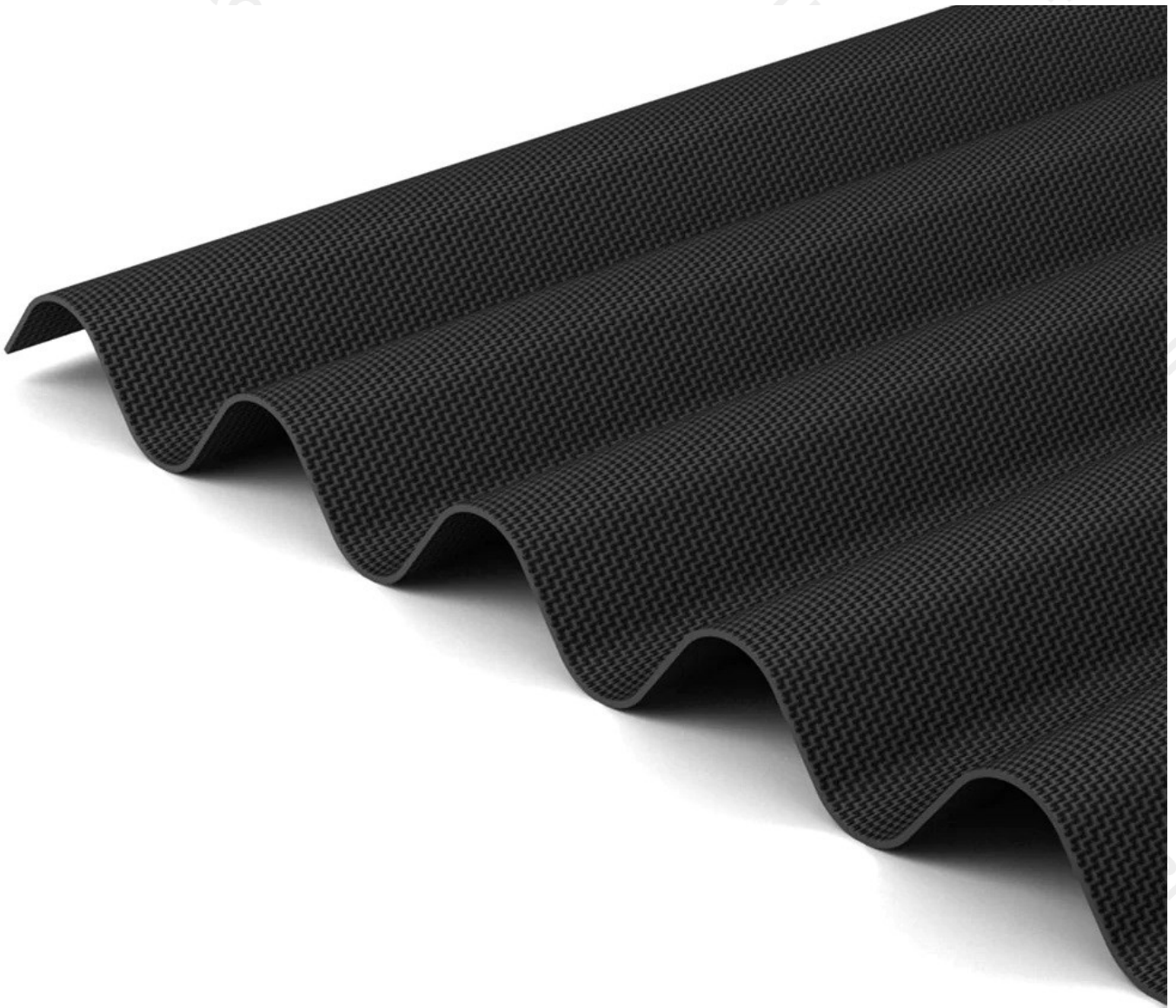




**BITUROOF**

# **INSTALLATION GUIDE & PRODUCT INFORMATION**



**Bituroof Bitumen Roofing Sheet—more than just a sheet, it's a roofing revolution!**

# PRODUCT DESCRIPTION

Bitumen organic fibre sheets.

BituRoof Sheets offer unparalleled strength, durability, and weather resistance for various timber buildings, including garden sheds, stables, warehouses, and farm and agricultural buildings.

The unique composition of these sheets not only ensures rigidity and strength but also reflects our commitment to sustainability and environmental responsibility, they are free from asbestos and also non-toxic. Plus, it doesn't rust, rot, or become brittle, reducing waste in the long run.

With the ability to withstand high-speed winds, BituRoof Sheets offer reliable protection in even the harshest weather conditions. The resin-impregnated sheet surface guarantees exceptional weathering and UV protection performance, making it an ideal choice for long-term usage.

## SUITABLE APPLICATIONS

- ✓ Garages / Sheds
- ✓ Garden Structures Inc. Pergolas and Gazebos
- ✓ Lean to Conservatories and Carports
- ✓ Summerhouses / Playhouses
- ✓ Farm / Rural Outbuilding
- ✓ Stables
- ✓ Industrial Buildings and Facilities
- ✓ Commercial Buildings

## ADVANTAGES



### Easy to Use

BituRoof Corrugated Sheets are simple to install with just a hammer and nails required to fix in place for basic applications.



### Lightweight

BituRoof Corrugated Sheets are easy to handle and work with but are still extremely strong and durable.



### Weather Resistant

Strong yet flexible, with the ability to withstand high winds and heavy rainfall. Excellent colour retention properties in prolonged sunlight.

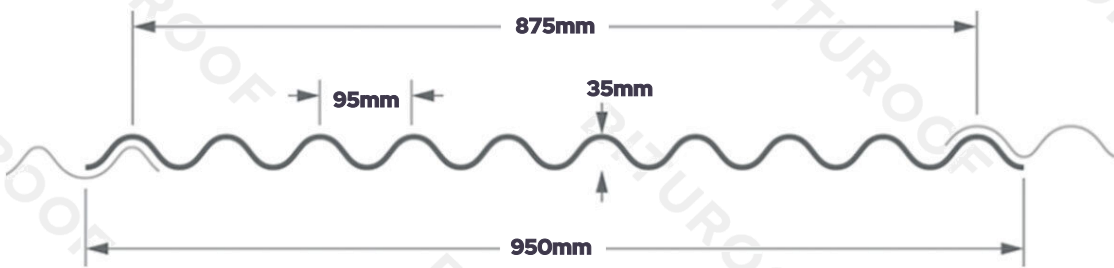


### Durable

BituRoof sheets are built to last, providing long-term protection. Its resistance to cracking, splitting, rust and brittleness ensures a durable roofing solution that can withstand the elements

# SHEET TECH SPECS

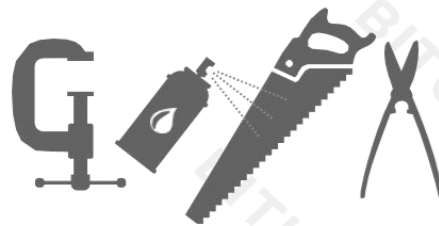
<b>Width (W)</b>	TS EN 534+A1	950 mm (2%)
<b>Length (L)</b>	TS EN 534+A1	2000 mm (+1.0% to -0.2%)
<b>Thickness (e)</b>	TS EN 534+A3	2.8 mm (±10%)
<b>Groove Height (H)</b>	TS EN 534+A4	38 mm (±6%)
<b>Groove Step (p)</b>	TS EN 534+A5	10 mm (±3%)
<b>Deviation of Edges from Suture</b>	TS EN 534+A6	not more than 4 mm / m
<b>Bending Under Vertical Load Effect</b>	TS EN 534+A7	For category R $\geq 1400$ N/m <sup>2</sup>
<b>Impact Resistance</b>	TS EN 534+A8	For category R: 400 mm
<b>Bitumen Ratio</b>	TS EN 534 +A9	$\geq 40\%$
<b>Thermal Expansion Coefficient</b>	TS EN 534+A10	$< 100 \times 10^{-6} 1/K$
<b>Mass Amount</b>	TS EN 534+A11	5.6 kg (+10%)
<b>Fire Response Class</b>	TS EN 13501-1	E



## RECOMMENDED TOOLS



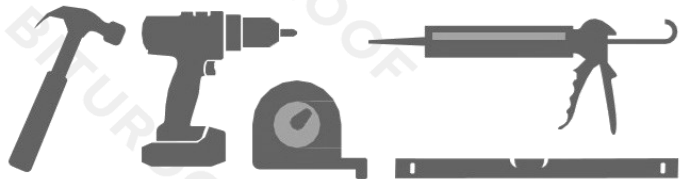
Wear protective gloves, glasses and ear protectors where appropriate.



Clamp, lubricating oil, fine tooth saw/blade and tin snips






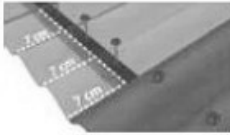
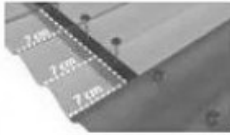
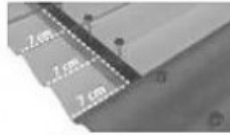
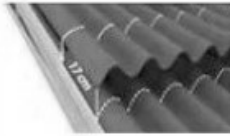
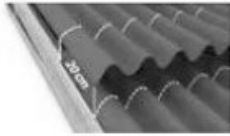


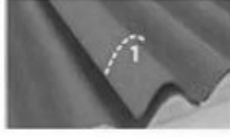

Fine tooth bladed circular saw



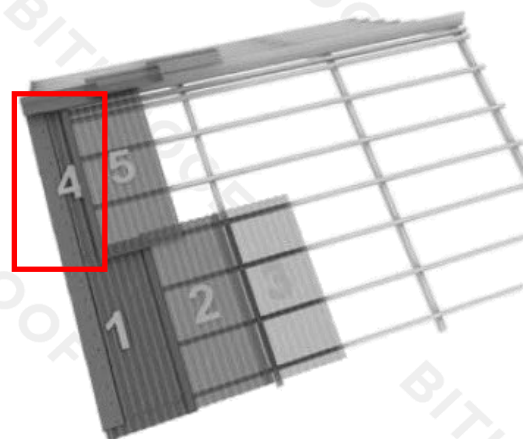
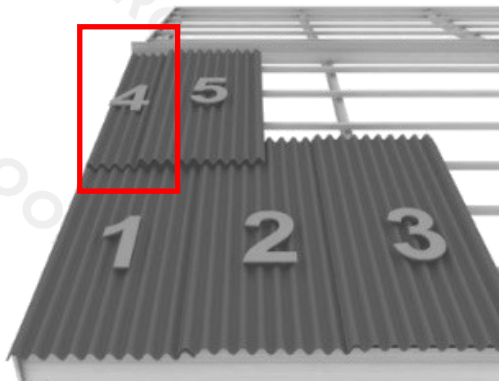
A hammer, screwdriver/drill, tape measure a straight edge tool and suitable sealant/ sealant gun

# INSTALLATION

IMPORTANT – Before undertaking any work, first take measurements of the roof so you can work out the correct plan for the sheet coverage, for larger roofs, consider your overlaps, see table below for guidance.

	Roof Pitch		
	> 15° (Over 27%)	10° - 15° (17% - 27%)	5° - 10° (9% - 17%)
Max Purlin Distance	610mm 	450mm 	Boarded / Close Batten 
Overhang at Eaves	70mm 	70mm 	70mm 
Min End Overlap	170mm 	200mm 	300mm 
Min Side Overlap	170mm 	200mm 	300mm 

We highly recommend that sheets on larger roofs are installed using a broken bond pattern, this will avoid sheet build up at overlap, see diagram below. The second row should be started with a half sheet (cut in half vertically) so that all subsequent sheets are not overlapping at the edges.

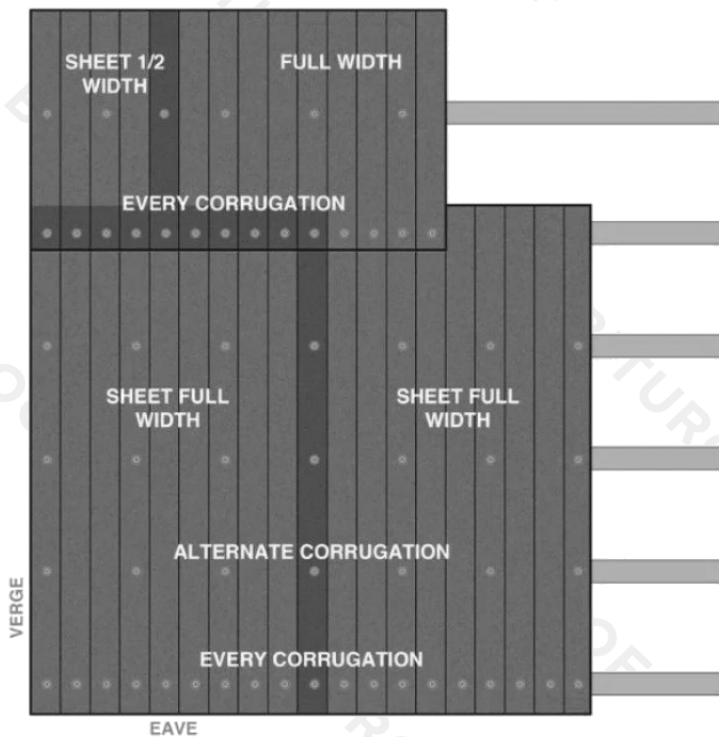
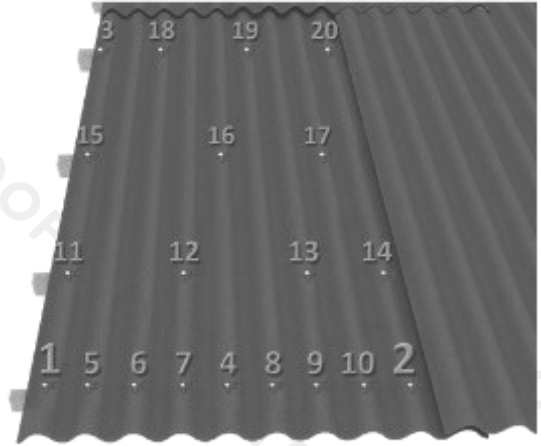


# INSTALLATION

Take care to fix BituRoof sheets the correct way up. The underside is easily identified by its dimpled rough surface finish whilst the topside of the sheet has a smoother textured finish.

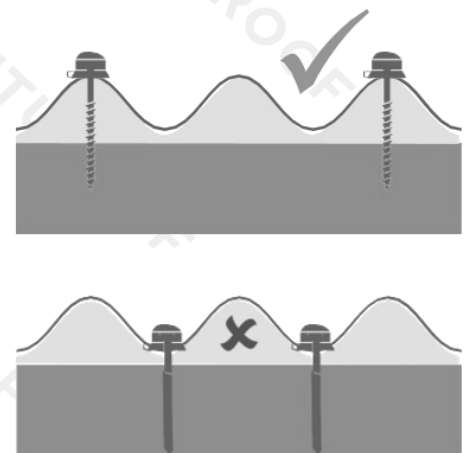
Start fixing sheets at the opposite to prevailing winds end of the roof.

Fix 20 nails or screws per sheet to have a long lasting, secure and guaranteed roof.



Nail or screw every corrugation on eaves, overlaps and ridges.

Fixings should ALWAYS be put through the peak of the sheet, never through the trough as this allows for the ingress of water whilst draining off the sheet.



# FAQ's

## **How long does BituRoof roofing typically last?**

BituRoof roofing has a long lifespan, typically lasting for more than 10 years. Its durability and resistance to weather elements contribute to its longevity.

## **Does BituRoof roofing require regular maintenance?**

BituRoof roofing requires virtually no maintenance. Its composition and design make it resistant to rust, corrosion and brittleness, ensuring long-term performance without the need for regular upkeep.

## **Do BituRoof sheets contain asbestos?**

BituRoof sheets are made using a recycled fibrous material and do not contain any hazardous chemicals or asbestos.

## **What is the overhang needed for BituRoof sheets?**

The maximum recommended overhang for sheets at the eaves is 70mm.

## **Does the BituRoof material melt in hot weather?**

BituRoof's market leading bituminous roofing products are installed globally in hot temperatures, such as Brazil, Turkey and India. Whilst the bitumen softens slightly in hot weather, it does not melt. The melting point of bitumen is considerably higher than atmospheric temperatures.

## **What is the minimum pitch for BituRoof sheets?**

The minimum roof pitch to lay BituRoof roofing sheets is 5 degrees / gradient: 1 in 11 the sheets being laid with an end lap of 300mm. Sheets should be laid on a fully supporting decking on purlins to maximum of 610mm centres.

## **Is it possible to paint BituRoof sheets?**

We do not particularly recommend painting your sheets, however, the easiest material to use is external grade water-based emulsion such as a Masonry Paint. In any event and prior to commencing work, it is essential to totally remove any loose dust and debris from the sheeting. At the same time, it would also be advisable to test a small area to determine if there are any compatibility issues.

## **Can I repair a BituRoof sheet that is damaged or broken?**

Whilst the BituRoof material is extremely tough and robust, there are instances when the sheets could get damaged from wear and tear or damage from debris. We recommend replacing BituRoof sheets when damaged to ensure guaranteed water tightness.

## **How can I cut a BituRoof sheet?**

BituRoof sheets are made from 50% recycled cellulose fibres and bitumen, which makes them very easy to cut. Cut with an oiled coarse-toothed handsaw or preferably a power tool; such as a circular saw again fitted with a coarse blade or skill saw.

## **Can I install BituRoof sheets on top of the existing shed felt?**

Yes, if it is still in reasonable condition and the deck underneath is good, then you can install directly over the top of this. Although it is best practice to remove the felt and install a breathable membrane underneath.

*This information is provided in good faith and there are no guarantees; the durability of the system will largely depend on the materials involved and the preparation beforehand.*

# DESIGN NOTES

## SAFETY GUIDELINES

When it comes to covering roofs, safety is paramount. It is crucial to adhere to health and safety regulations outlined in HSG 33 when working on roofs.

## PREVENTING CONDENSATION CONCERNS

BituRoof offers resistance against condensation build-up. However, during the winter months, single-thickness roofing materials are susceptible to condensation formation. This issue can be mitigated by incorporating high and low-level ventilation, ensuring proper air movement. To further reduce the risk of condensation, consider installing a breathable underlay membrane on a 12mm plywood deck, fixed over purlins set to 610mm centres. This is especially important for buildings with high humidity levels. Remember, if insulation is used, adequate ventilation should be provided beneath the BituRoof sheet. Seek design advice from the insulation product manufacturer in such cases.

## FIRE SAFETY MEASURES

Please note that BituRoof sheets are not classified to meet the external S.AA fire rating required by UK building regulations for certain types of buildings, such as housing. In these instances, ensure that the sheets are fixed on a suitable fully supporting roof deck and coated with a proprietary AA surface paint treatment, following the paint manufacturer's instructions. This treatment is commonly used for bituminous felted flat roofing.

## MAINTENANCE TIPS FOR LONGEVITY

To ensure a long lifespan for your roof, regular cleaning is essential. Remove leaves and debris, as leaf mould can affect the product's effectiveness. Additionally, check that tree and shrub branches do not come into contact with the roof surface, as wind-generated movement can cause damage.

## GUARANTEED WEATHERPROOFING

Rest assured, the BituRoof system comes with a ten-year weatherproof guarantee when fixed and maintained according to the provided instructions. After five years of service, the guarantee is limited to the pro-rata replacement value of the BituRoof materials, based on service life measured in annual increments. Please note that the guarantee does not cover labour, related construction, or third-party costs.