

## INSTALLATION PROCEDURE FOR ROOF PANELS

### Important Notes:

- 1) Unless all external walls are correctly positioned and constructed; and the wallplates installed with care, problems may be experienced with roof panel installation.
- 2) The following erection procedures should be under taken only by:
  - a) Personnel who have been trained by **smartroof** Ltd or
  - b) Under the direction of a **smartroof®** installer.
- 3) This procedure is intended for those buildings which feature pre-fabricated and assembled gable ends featuring a location to **smartroof®** specification and suitable for connecting to roof panels; such as light weight steel structures, insulated concrete panels or timber frames.
- 4) Health and Safety at Work Lifting Regulations must be observed at all times.

- 1 Check that the support walls/spandrels have been correctly positioned, are parallel, level and square to NHBC standards.
- 2 Be fully familiar with the erection sequence and procedure, ensuring that drawings, fixings, window spacer bars, etc are all available. Scaffolding/towers giving full access to the top of the panels should have been erected by this time.
- 3 Ensure that all of the roof panels are adequately identified, such that they may be installed in the correct sequence.
- 4 Commence roof panel installation with the eaves panel for one roof plane, hoisting it to a slightly higher than final position & locating the panel tongues with the spandrel grooves on both sides. Carefully lower until seat cut of overhangs sits level on wallplate. Check panel is level and resting evenly on spandrels, before nailing in place. Underside OSB should abut edge of wallplate for correct setting out. See standard details SR/D/00101; & SR/D/00100 or SR/D/00150, for further information. It is essential that slings or holding clamps are NOT released until the eaves panels have been secured to the spandrels.
- 5 Repeat this procedure with other eaves panel.
- 6 Installation of the remaining roof panels may now commence. The easiest method is to work along one plane at a time, locating the panels via tongue & grooves, & subsequently allowing them to slide down into close contact with the panel below.
- 7 At window openings use the spacer bars supplied which are approx 10 mm longer than the window depth. Hold the window spacers in position, lower the header panels into location with the spandrel grooves & allow the panel to slide down until in contact with the spacers. Fit the infill panels which will create the window apertures(s), then knock out window spacers allowing panels to slip into position.
- 8 Continue to locate all of the panels in one plane in the correct sequence, up to ridge height.
- 9 Repeat the above procedure for the other roof plane.

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- 10 At this point the panel installation is nearly complete & it remains necessary to fix each panel by nailing/screwing at each end into the spandrels in compliance with the drawing provided (SR/D/00100 or 00150). On the eaves panel only, secure all front and rear dummy rafter ends to the sole plates with framing anchors as specified on the Schedule of Fixings. It is also essential to screw adjacent panels together at intervals along the width of the roof, see standard details SR/D/00400 & 00101.
- 11 Lay the plastic covered Rockwool cavity closer along the space formed at the top of the two roof planes & secure in accordance with standard detail ref SR/D/00500. Fix pre-fabricated drop-on ridge pieces along the length of the roof, working from roof ladder.
- 12 Fix Bitrock to the exposed lower area of the eaves panels, see standard detail SR/D/00300.
- 13 Bitrock closer tape should now be applied along the length of all horizontal panel joints to make the roof weather proof when there is a possibility that the roof may not have tiling installed immediately after the panels have been installed.
- 14 If pre-fabricated dormers have been specified, they should be installed at this stage. Refer to standard detail SR/D/00301 for breather membrane or 00302 if roof felt has been utilised

Fitting of roof windows, window sealing tape, counter battens, breather membrane, tiling battens & tiles may now commence. NB None of these items are considered to be part of the smartroof installation.

**IN THE EVENT OF ANY PROBLEMS, OR IF THE ABOVE IS NOT UNDERSTOOD, PLEASE CONSULT THE PANEL SUPPLIER**

**THE INSTALLATION CHECK SHEET MUST BE COMPLETED & SIGNED FOR EACH & EVERY PLOT**

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