

Fixing recommendations for Siderise FLX system

Siderise FLX Quilts are fitted in a manner broadly similar to that used for mineral fibre fire barrier quilts. The product is normally attached to the soffit and allowed to hang as a curtain. Surplus material at the base is returned along the rear of the suspended ceiling.

Head Fixing

The quilt is continuously secured and supported by clamping the product between the soffit and a mild steel angle section. Mechanical fixings should be selected with reference to the background material and weight of the treatment.

Figures 1-4 show typical details and methods of treatment and are offered as a form of practical guidance; if in any doubt in relation to specific details for any projects and/or conditions, advice from our technical department should be sought.

Please refer to technical drawing SSPD2010 for further guidance.

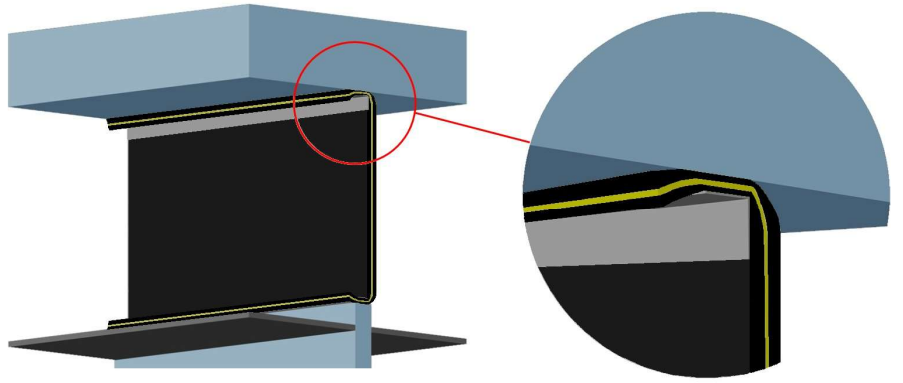


Fig 1: Shows head fixing to a flat surface using a standard fixing angle.

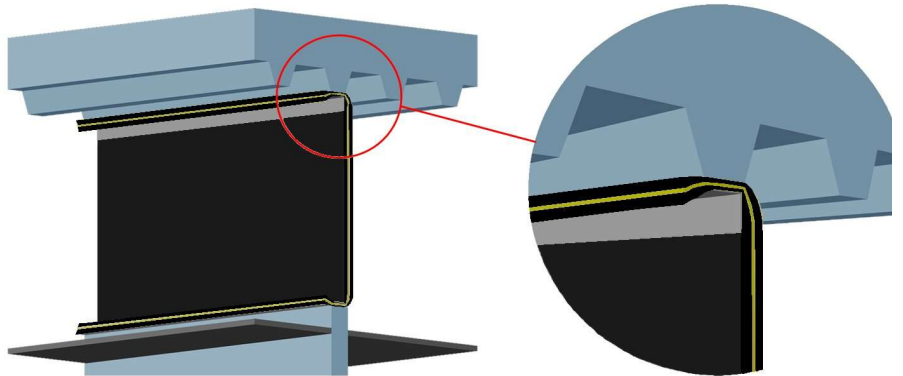


Fig 2: Shows head fixing to a profiled surface where the treatment is running parallel with the profiles using a standard fixing angle to the lower surface of the profile.

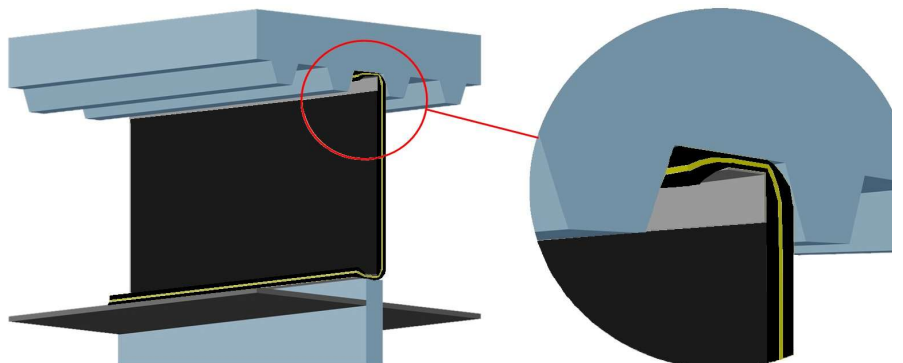


Fig 3: Shows head fixing to a profiled surface where the treatment is running parallel with the profiles using a standard fixing angle to the inside surface of the profile.

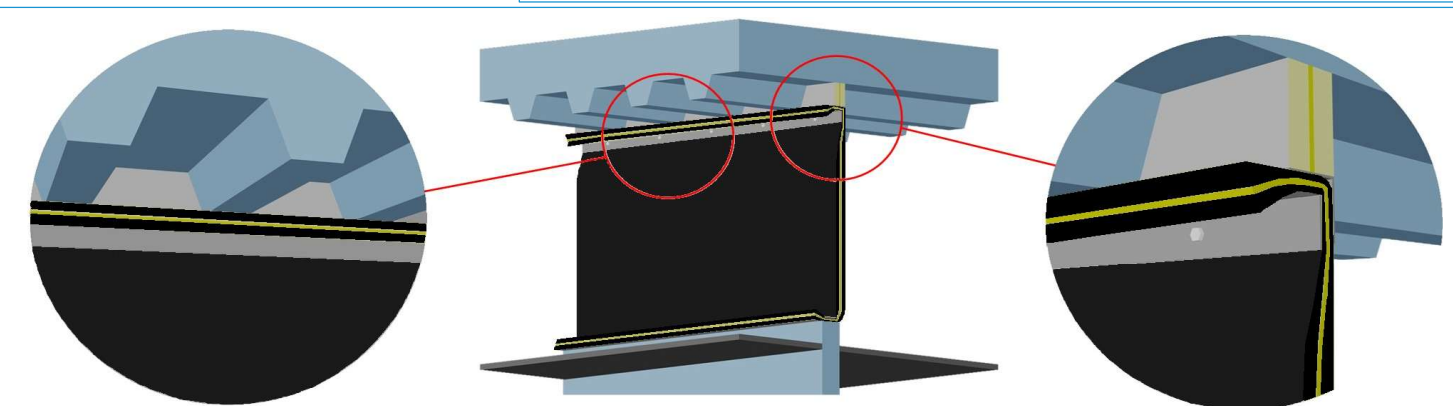


Fig 4: Shows head fixing to a profiled surface where the treatment is running perpendicular to the profiles, using a standard fixing angle to the lower surface of the profile, leaving a gap above the treatment, this should be filled by either site-cut shaped blocks in CVB/80/P10/100R, die-cut AVCs or High-Density Mineral Wool, depending on shape, size, and performance requirements.

Base Fixing

Preferably, the product should be fixed by continuous clamping as previously described to ensure optimum acoustic performance. If this is not possible, we recommend that the quilt is returned a minimum 150mm along the rear of the ceiling. The return should always be carefully deformed around any raised elements of the ceiling suspension grid.

With some ceiling systems, it is easier to create a near flat region above the partition line. This can often be achieved by overlaying the tiles or formed trays with cut strips of board (such as plasterboard or Cement Particle Board [CPB]). Multiple layers of board may be employed, which should be built up until level with the top of the ceiling grid. Any minor gaps should be caulked with an acoustic flexible sealant. This technique can often create a fixing background for clamping without the need to penetrate the tiles or partition head.

Please refer to technical drawings SSPD2011 for further guidance.

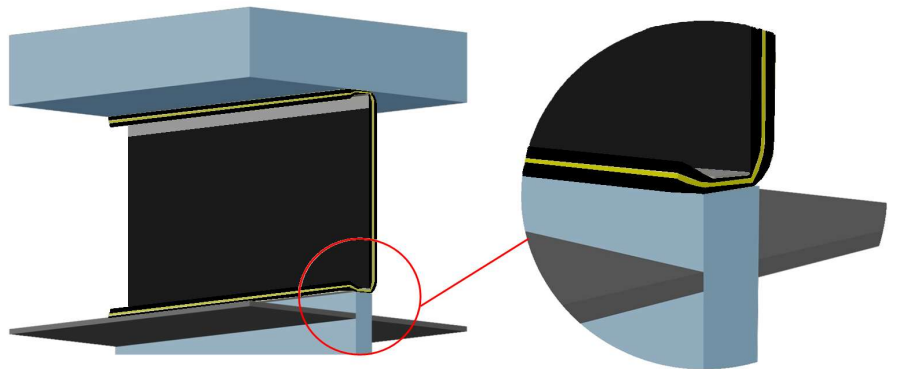


Fig 5: Shows base fixing to a block wall or partition that is protruding above the suspended ceiling line, clamped using a standard fixing strap.

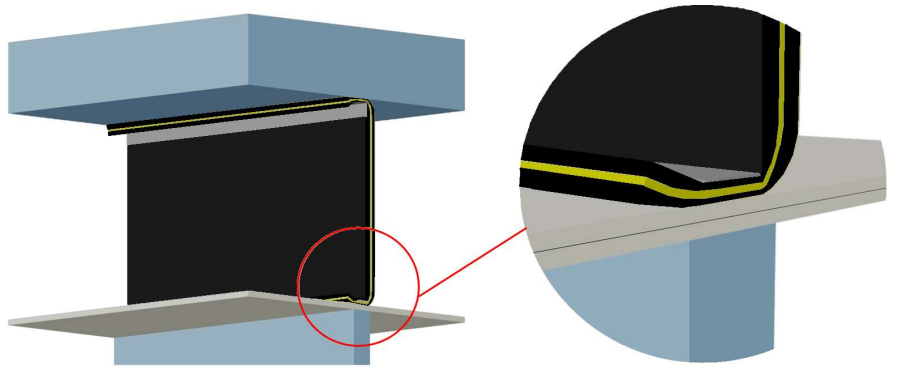


Fig 6: Shows base fixing to a block wall or partition abutting the underside of the suspended ceiling line, clamped using a standard fixing strap.

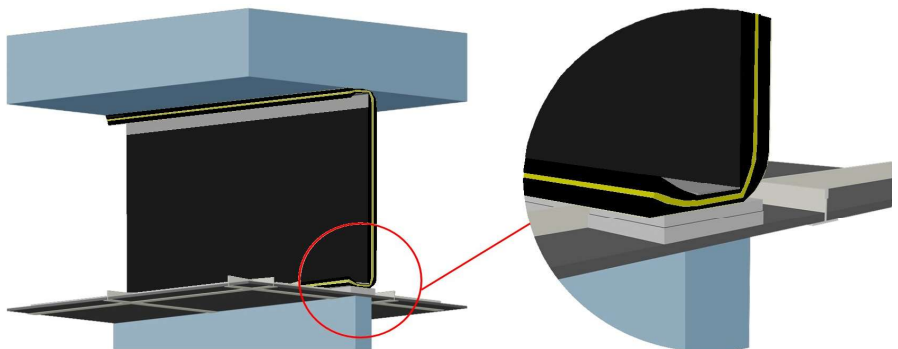


Fig 7: Shows base fixing to a block wall or partition abutting the underside of the suspended ceiling line, where cut pieces of CPB or Plasterboard have been employed to level the suspended around 'T Grid' or other intrusions and clamped using a standard fixing strap.

Vertical Joints

Should be overlap joints with a minimum 75mm lap. The product should not be butt jointed. The overlap should be mechanically fixed using a pre-punched metal strap on both sides with suitable through fixing placed at regular intervals (e.g. threaded bolt and locking nut). The overlap should be substantially compressed by the strap to ensure an effective seal.

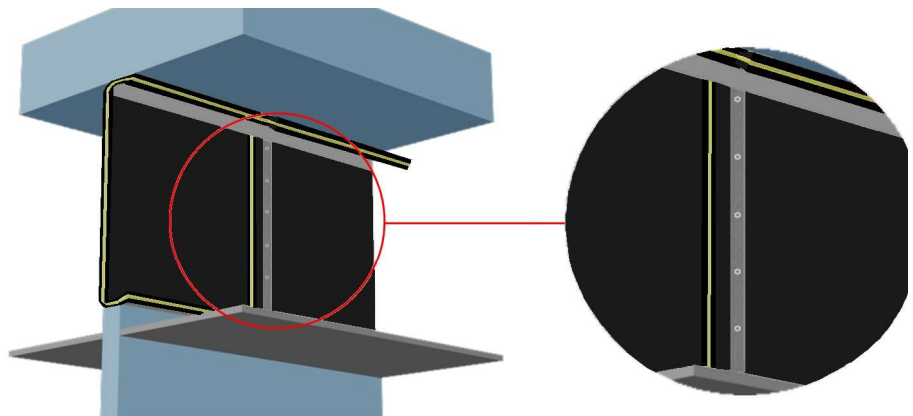


Fig 8: Shows a vertical joint detail, adjoining sheets overlapped by 75mm and mechanically fixed using a pre-punched metal strap on both sides, with suitable through fixings at regular intervals.

Service Penetrations (Fig 9 & 10)

Star or 'X' cuts should be made in the product and the resulting flaps returned along the service.

A strip of the quilt, typically 150 - 300mm wide, is then wrapped around the flaps, covering the returns and held in place with cable ties or jubilees clips.

If the foil faced option is employed, joints and exposed edges can be dressed with self-adhesive aluminium foil tape.

For some types of service penetrations (such as wide profile ventilation ducts), shallow gaps above or below the service may be present. Such small apertures may prove difficult to close. The use of our CVB barrier in these local conditions will normally alleviate this problem.

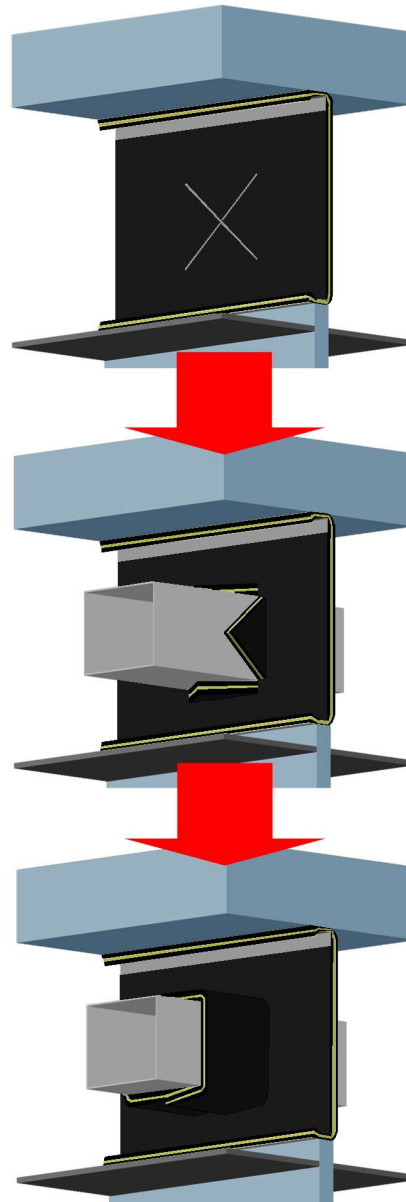


Fig 9: Shows treatment around a square duct by using an 'X' cut, inserting the duct, and keeping the triangular tongues/flaps returned along the service. A strip of quilt, typically 150-300mm, is wrapped around the flaps and held in place with cable ties or jubilee clips.

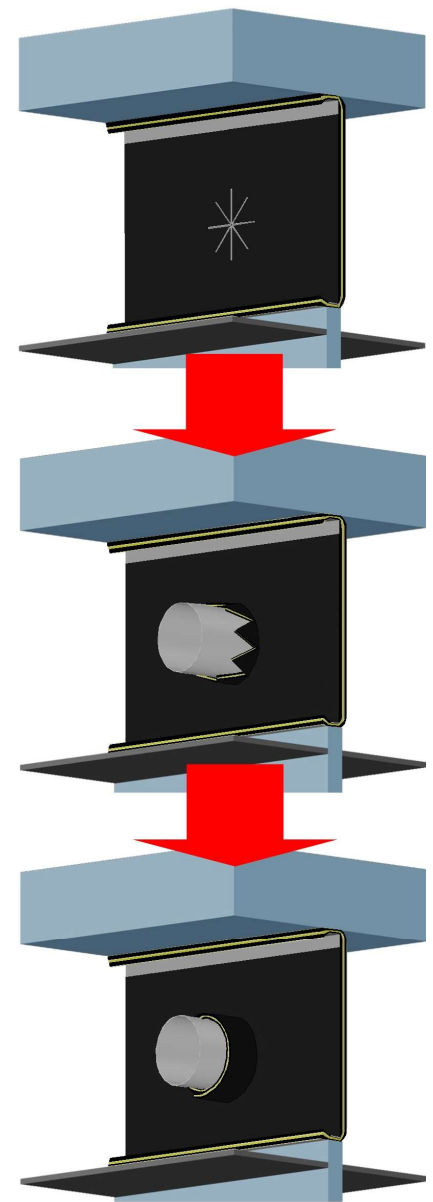


Fig 10: Shows treatment around a circular duct by using a 'Star' cut, inserting the duct, and keeping the triangular tongues/flaps returned along the service. A strip of quilt, typically 150-300mm, is wrapped around the flaps and held in place with cable ties or jubilee clips.

Cable Trays (Fig 11)

Slits should be cut to accommodate cable trays; the resulting flaps should be treated with a 150-300mm strip of the material, fixed using double-sided tape as well as mechanical fixings back to the metal fixing strap.

Special Conditions Our technical department will be pleased to advise on recommended detailing for the following conditions: coffered soffits, hollow rib or profiled decking, services parallel to the partition line, off-set barriers, high-density service penetrations, large void heights, continuous lighting trays or diffusers, open-cell ceilings, and twin barrier constructions.

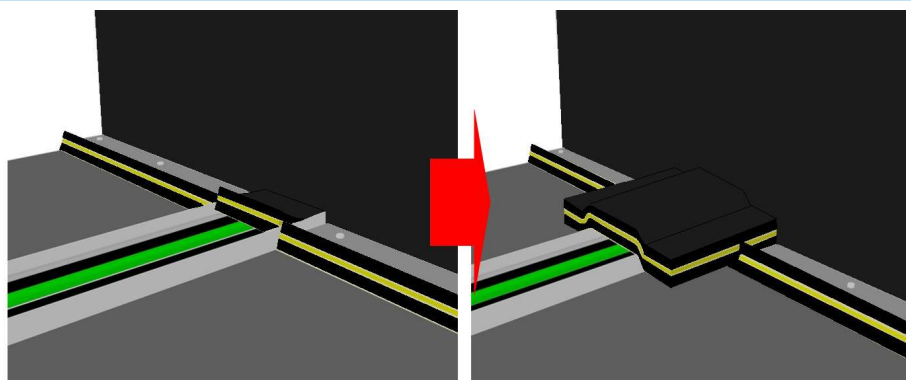


Fig 11: Shows treatment around a cable tray by using a slit around the tray, keeping the tongue/flap returned along the tray. A strip of quilt, typically 150-300mm, is wrapped around the flaps and fixed using double-sided tape as well as mechanical fixings back to the metal fixing strap.

Further information

Technical support

For further information please contact our technical team at the address below.

Available CPD's

Contact Siderise for further information on our CPDs:

- Siderise Acoustic Products for Commercial Interiors - Architect Edition
- Siderise Acoustic Products and Performance with 1/3rd Octave Data – Acoustic Consultants Edition

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