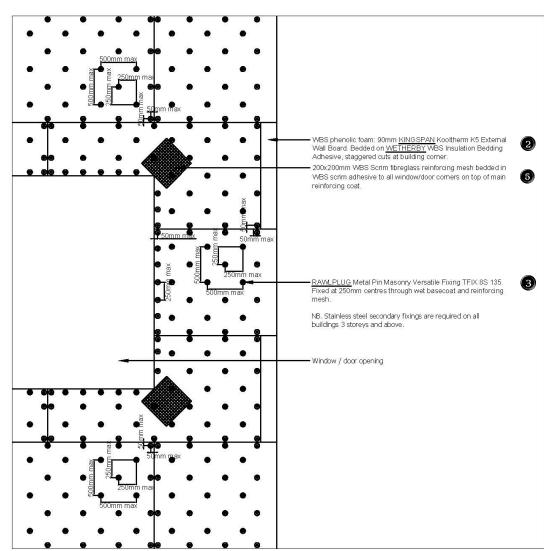
<u>Typical Detail – Solid Wall External Insulation – Slabs Fixing Pattern</u>



Notes:

1. WETHERBY WSS Insulation Bedding Adhesive: Polymer modified. Manufactured to ISO 9001. Material base: Polymer modified, Portland cement binder cystem containing limestone aggregate and specially selected fillers. Mixed Density: 1600-1750 Kg/m3, Compressive Strength: Class CS IV as tested to EN 998-1. Flexural Strength: >2.0 N/mm-2, Adhesion Strength: >0.5 N/mm-2 (when tested on EFS panel), Coverage; Approx. 2.1 - 2.3Kg per mm thick per m2. Gauging Water. 4.5 - 5.5 litres of clean water per 25kg sack. Working Temperature: 5oC - 300C. Application: Place gauging water in a clean mixing vessel. Add powder and mix with a suitable paddle attached to an electric drill until a lump-free consistency is achieved. Leave to stand for 3 mixing and re-mix. Apply a butter cost of the Insulation Bedding Adhesive over substrate which the insulation is to be fixed, ensuring all void areas are filled. Apply by hawk and trovel to insulation board in a continuous line around the perimeter and additional dabs in the centre; at least 50% of the board should be covered. Alternatively apply with a notiched trowel over the entire face of the board. Press the boards firmly onto the masonny substrate. WSS Insulation Bedding Adhesive must be used within its working temperature range. It must not be used in freezing conditions or applied to frozen or flaxwing substrates. If adverse weather conditions are expected within 24 hours of application, it is important to protect the applied area. In dry conditions, suction control of the background may be necessary, Cleaning; Whist the mortar is still wet, clean with water. Once dry/cured the materiod and only be removed mechanically. Packaging; 25kg bag.

2. W6S phenolic foam: kNGSPAN Koothherm K5 External Wall Board, Standard: ISO 9001: 2015 (Quality Management Systems. Requirements), ISO 14001: 2015 (Environmental Management Systems. Requirements), ISO 50001: 2011 (Energy Management Systems. Requirements), ISO 50001: 2011 (Energy Management Systems. Requirements) is SO 50001: 2011 (Energy Management Systems. Requirements with guidance for use), Fire performance: Euroclass RHF C-s1.00, Than and Conductivity (maximum): Dependent upon thickness specified, 0.22 W/m-K, Cross Section: Uniform thickness, Thickness: 90 mm, Face Size (length x width) 1200 x 600 mm, Compressive strength (minimum) at 10% compression: 100 kPa, Edges: Square, Facing: Glass issue based facing, Global warming potential: Less than 5, Green guide rating: A+, Ozone depletion potential: Zero, Core: Premium performance rigid thermoset fibre-free phenolic insulant core, Colour. Pink

3. Proprietary external wall in sulation fusings RAWLPLUG Metal Pin Masonry Versatile Fixing TFK/ SS 135. Anchor body material: Polypropylene, Pin material: Galvanised steel Screw set. Long plastic overmoulding to minimise thermal bridging (value 0.002W/K), Plate stiffness 0.6 kl/mm, Pre-assembled screw, high load-bearing capacities. Minimum installation depth: 25mm, Hold eight in substrate. 40 mm, Drill hole diameter: 8 mm, Plate diameter. 60mm, Minimum spacing: 100mm, Minimum edge distance: 100mm, ETA. Certificate Number: ETA-11.0144 ETA Classification: A - B - C. Typical pull out into solid brick/concrete block: 1.20 kN, recommended load: 0.43kN, Length: 135mm, Oty per box: 200.

4. WBS sealing tape: Yat Cellular Foams VTRASEAL Foam VSR600 3.7: dry pre-formed strip seal with viscoelastic properties, combination of resilient foam and a water residing formed strip seal to resist weather ingress in fenestration, noise and vibration damping and with flame retardant properties. Open cell polyurethane foam heavily impregnated with acrylics creating under high compression. For increased raining condition and fully resistant to UV. Tested to DIM 52. Supplied in rolls, pre-compressed to approximately 65%. Materials: Polyurethane cellular foam, impregnated with flame retardant acrylic resin, Classification: Class 1 to NF 985-70, BG1 to DIN 18542, Fire resistance: BI, self-extinguishing, Waterlight against driving rain DINS2453: BOD Par minimum, Vapour resistanty DIM 18542, or [In 1898 170 BPa, Elongation at breaching ISO 1738 v250%, Compatibility: no corrosion with iron, steel, zinc coated sheet, aluminium or cooper, PVC, glazing, concrete, tiles. Fix insulation boards as per Manufacturer's recommendation. Fit tightly board edges together to achieve U-value of D1.9 Wm7s.

5. WBS Scrim fibreglass mesh. ADFORDS reinforcing fabric made from continuous filament yarn in an open mesh construction. The laid scrim manufacturing process chemically bonds non-woven yarns together, enhancing the scrim with unique characteristics. Fibers used: Fiberglass Features: Dimensional stability, Tensile strength, Alkali resistance, Tear resistance, Fire resistance, Anti-microbial properties, Water resistance. Midth: 38 to 5300 mm, Roll length: Up to 120 000 lm, Yams: Glass, Construction: Square, tri-& quad-directional, Patterns: From 0.4 yams/cm to 4 yams/cm (1 yams/n to 18 yams/s/n), Tensile strength range: From 35.5 to 568 N/5 cm in each direction, Bonding: PVOH, Complexes for combination materials: scrim bonded to: qlass non-woven.

6. WBS SCRIM ADHESVE: K REND HP12 Base Coat with High Polymer technology, for stipple coat, soud coat or for dense backgrounds with increased water resistance and adhesion. Incorporation of Alkali Resistant Reinforcing Mesh may be required. Polymer modified and cement based. Applied in 1 coat as a backing for K Rend finishes. Coverage: 1 8kg mm. Require. 8-11 kg/sq. mapprox. of nominal 4-6mm thickness, Klemark Classifications. Compresses strength. CSIV, Capillary Water Absorption Category. WZ, Thermal Conductivity: P=50% - 0.51. Application: Mix for at least 5 minutes to break down additives, Add 5-6 litres of clean water per 25kg sack, Apply by hawk and trowel, if the next coat is to be a K Rend finish form a light key by scratching as per good render practice,

7. WBS DASH RECEIVER WHITE: K REND Silicone Dash (White) CE marked to BS EN 988:1 and manufactured in accordance with a quality system approved to BS EN ISO 901:2015 by BS registration number FN 86334 is, Is specifically designed to incorporate the benefits of silicone water lends into a center based render system. Silicone adds a high water repellent quality, while allowing water vapour to pass freely through the render; thus the amount of dirt adhering to the surface is greatly reduced, ensuring a freshly rendered appearance for a protonged period of time. This dry surface also improves the resistance of the finished render to algae growth and the natural phenomenon of imbelborn. Coverage; 15kg per mm thick per no. Required: 10. 15kg per m2 appropriate quantity of clean water per 25kg sack. Mix thoroughly for at least 10 minutes to break down additives. Apply a butter coat of render to a uniform thickness, depending on the aggregate size. While the render is still plastic, know vashed aggregate size. In a uniform dense coverage, immediately tamp the aggregate particles lightly into the butter coat with a wood float and ensure a good bond is obtained. PACKAGING & STORAGE K Rend renders are usually packed 40 sacks per tonne. All render sacks must be protected on site.

8. WBS Dashing Aggregates DERBYSHIRE AGGREGATES Natural aggregates, crushed nock including granite, dolerite, limestone, basat, sandstone, state, felaties, quartitie's and marbles. Natural cobbles, boulders and rockery sone of the above types. Dimensional stone of the above types. Apply render in coats: base coat and finish coat, dub out in thickness infecessary. To finish roughcast cast with an even thickness and texture. Apply firmly and in one confinuous operation between angles and joints.

9. SEALANT: BOSTIK EVO-STIK Bulding Silicone Sealant is a one part, low modulus, neutral cure sealant. For use in properly designed exterior high movement joints, especially around door and window frames. Non comosive towards metal. Suitable for all types of frames including aluminum, hardwood and PVCu. Good adhesion to glass, painted wood, ceramic, enamel and stainless steel and many plastics. Sizes: C20 cartridge. Coverage: Approx. 10m of a firm bead per cartridge. Colours: White, Clear, Black, Brown & Grey Form Soft gunnable paste Specific Gravity 1.00 g/ml Shore (A) hardness 15 Composition Neutral cure silicone. 100% modulus 0,30N/mm2 Application rate 300g/min using a 3mm diameter bead and 6.3 bar. Themsal conductivity 30-36 mW/Mkl. Five Rating Fire Class Bf1 according to D1N 1012-0. Here no soft direct part or micratic material. Fire resistance class Ell 180-V-X-F-W 10-50* as per classification report 3.2/10-052-2 acc. to D1N EN 1366-4 in combination with D1N 13501-2. Certified by MfPA Leipzig GmbH. Application Temperature 45° to 4.00**C overage Approx. 10 linear metres of 6mm diameter bead per C20 cartridge Drying Times Skin Formation: 9 minutes at 423°C.65% RH, dependent on temperature and humidity. Through dry: Approx. 2mm per 24 hours at 423°C.65% RH dependent on temperature and humidity. Always bod sealant whin 9 minutes