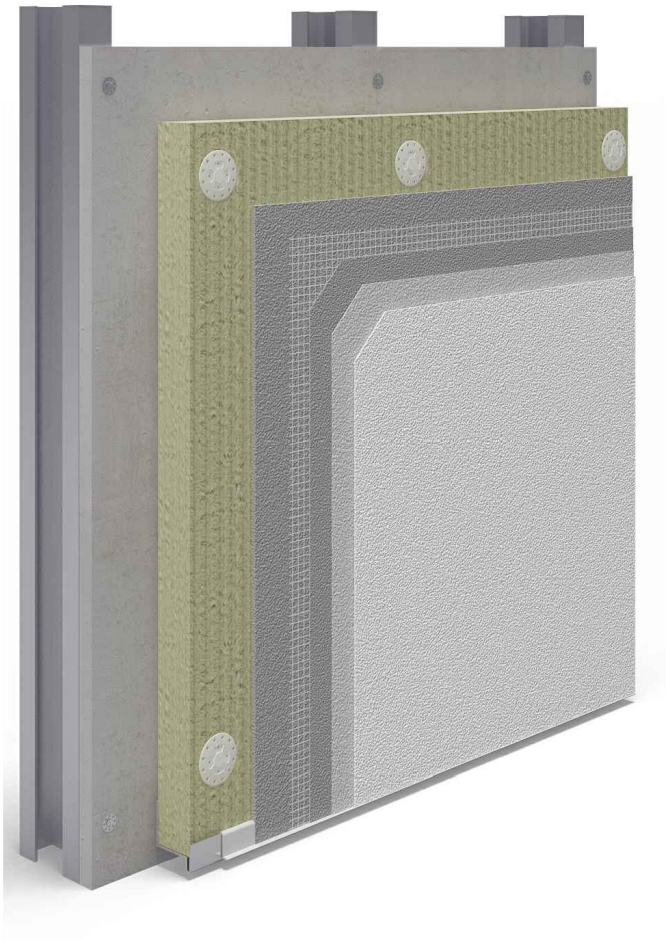
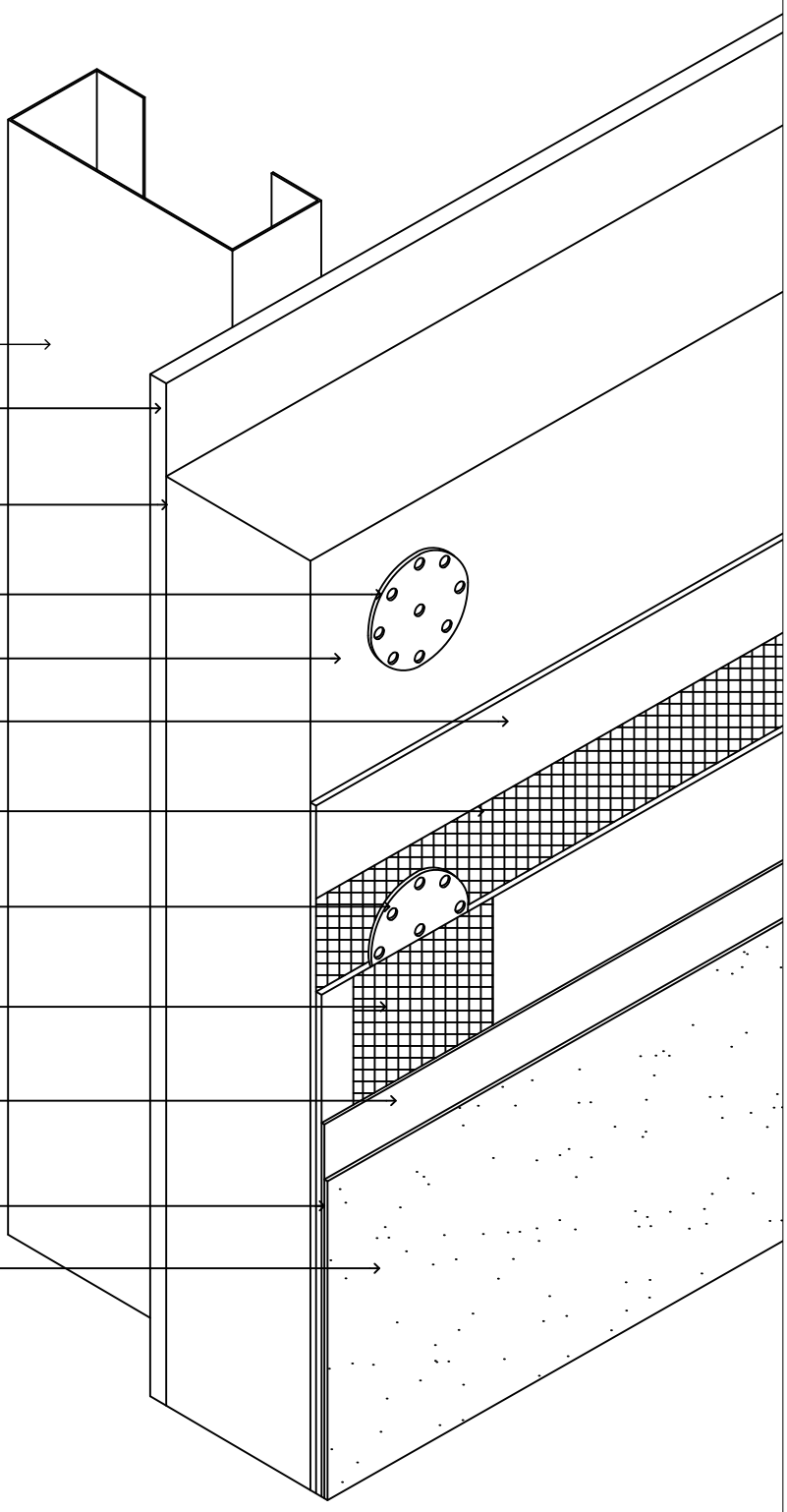
Wetherby Building Systems

External Wall Insulation Detail Drawings
Insulation & Silicone Render Finish



The following Wetherby EWI detail drawing set is generic and is not to be used for a specific project. Cold Bridging solutions are available upon request. Please contact Wetherby Technical to obtain a project specific detail drawing set.

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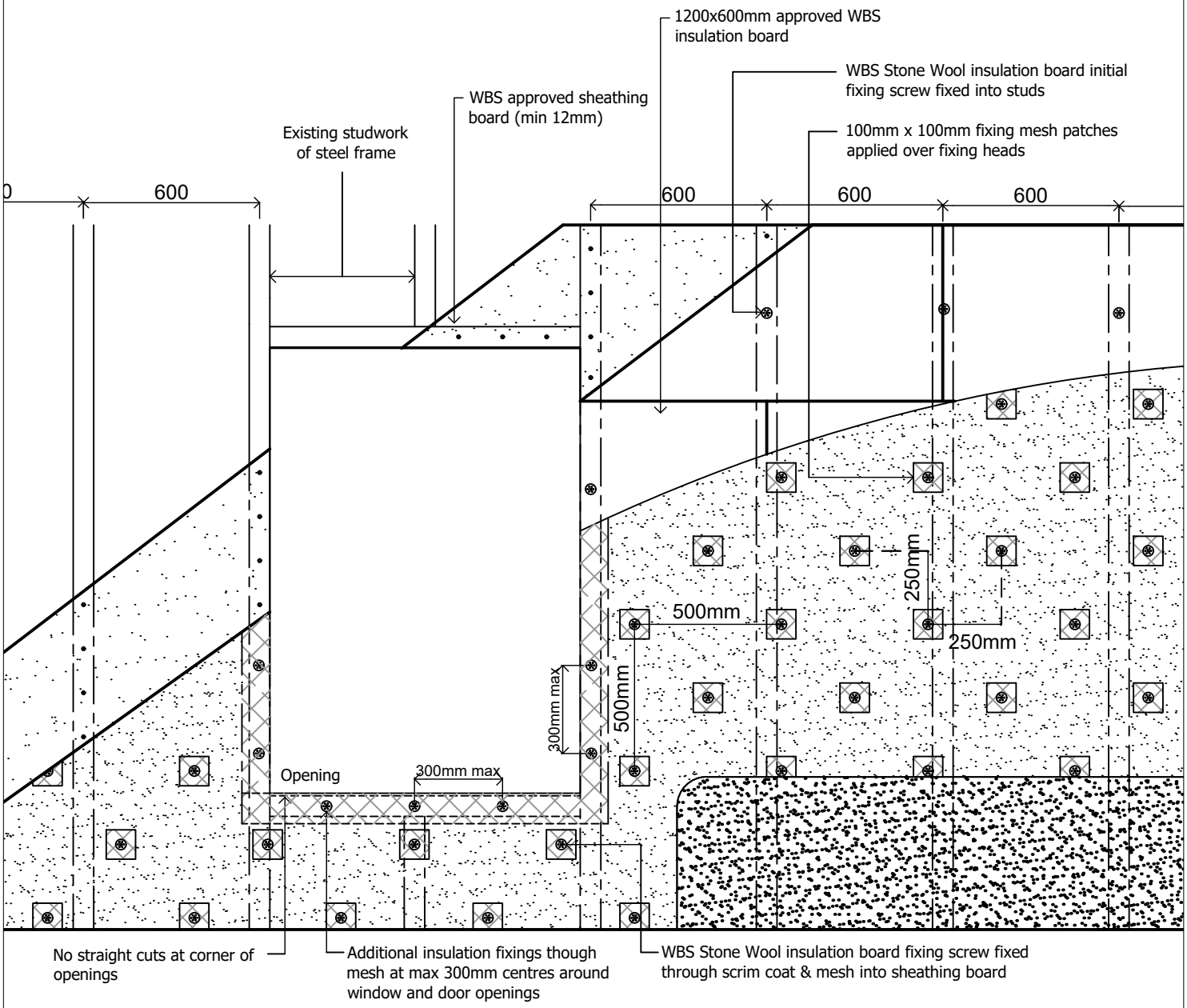
N.B. Sheathing board must provide adequate pull out tests for system

drawing description. **Isometric - System build up detail**	drawn by. BS	Wetherby Building Systems Ltd
	checked by. LS	
drawing no. **SFS-SW-SILICONE-01**	revision. -	
	scale. nts	
project name. **Generic Detail Drawings**	date. 12.07.2023	
	dwg set. 65	

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Note: Fixing arrangement subject to project specific wind load calculations / pull out tests



- 2 initial fixings required per insulation board. 1 installed through the board centre line and 1 half fixing installed either side of the board edge. All initial fixings must installed into the studs. Main fixings installed through scrim coat and mesh at 250mm centres.

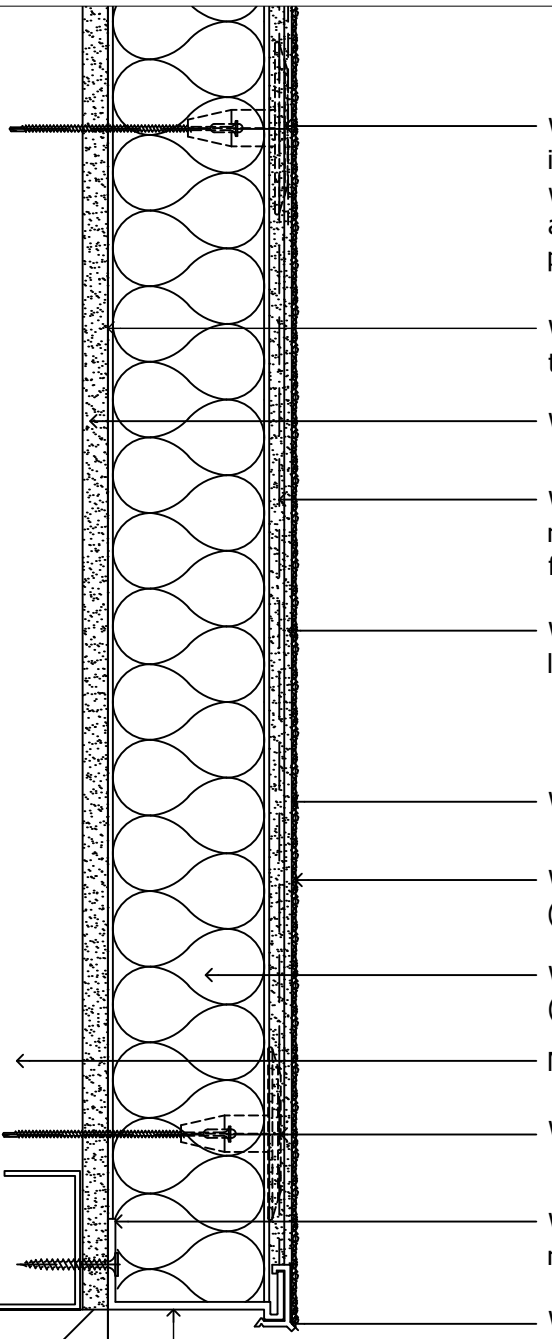
  Secondary WBS stainless steel fixing to be installed through the scrim coat and mesh at a rate of 1 per m² (where required)

  Studwork layout at 600mm centres

  WBS approved sheathing boards to be fixed and jointed to manufacturers instructions

drawing description. Fixing arrangement	drawn by. BS	Wetherby Building Systems Ltd	wetherby creating a greener future
	checked by. LS		
drawing no. SFS-SW-SILICONE-02	revision. -		
	scale. nts		
project name. Generic Detail Drawings	date. 12.07.2023		
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WBS approved main insulation board fixings installed through mesh / basecoat whilst wet, insulation board and sheathing board at 250mm cts. 100mm x 100mm scrim cloth patches applied over fixing heads

WBS insulation bedding adhesive to be applied as specified

WBS approved 'A' rated cement particle board (min 12mm)

WBS Heck K+A scrim adhesive coat 4-6mm min reinforced with WBS alkali resistant glass fibre reinforcing mesh

WBS Heck K+A scrim adhesive levelling coat 3-4mm finished smooth

WBS Heck Silicone Primer

WBS Heck Silicone Finish Coat (grain size and colour to clients approval)

WBS Stone Wool insulation board (thickness to suit client requirements)

Metal stud frame by others

WBS initial mechanical fixing

WBS 914 series system starter track mechanically fixed at 300mm centres

WBS 9124 base profile clip

150mm

Ground level may vary.
Base bead to be kept
150mm above ground level.
NB: DPC must not be bridged

drawing description.
Base bead detail

drawn by. BS

checked by. LS

drawing no.
SFS-SW-SILICONE-03

revision. -

scale. nts

project name.
Generic Detail Drawings

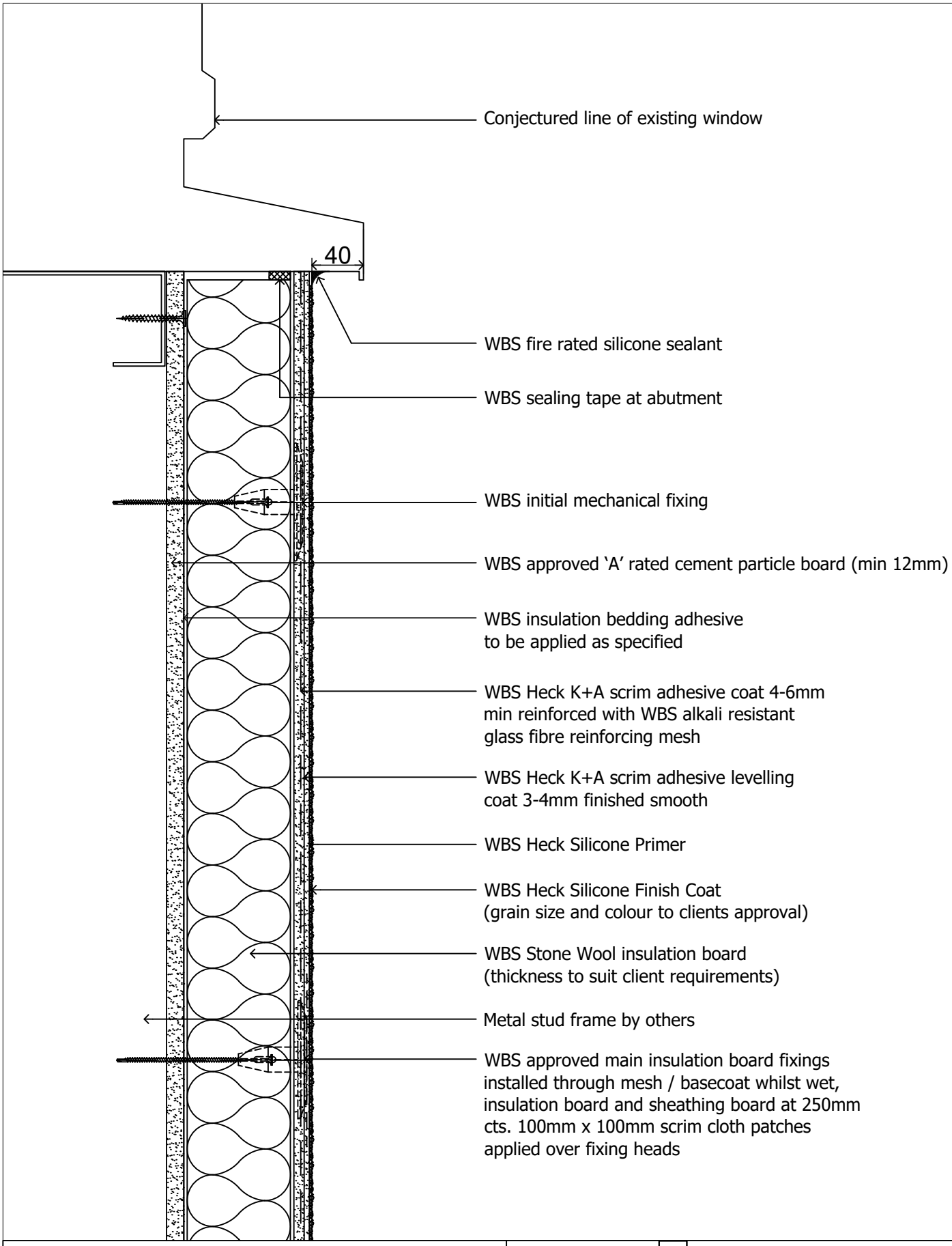
date. 12.07.2023

dwg set. 65

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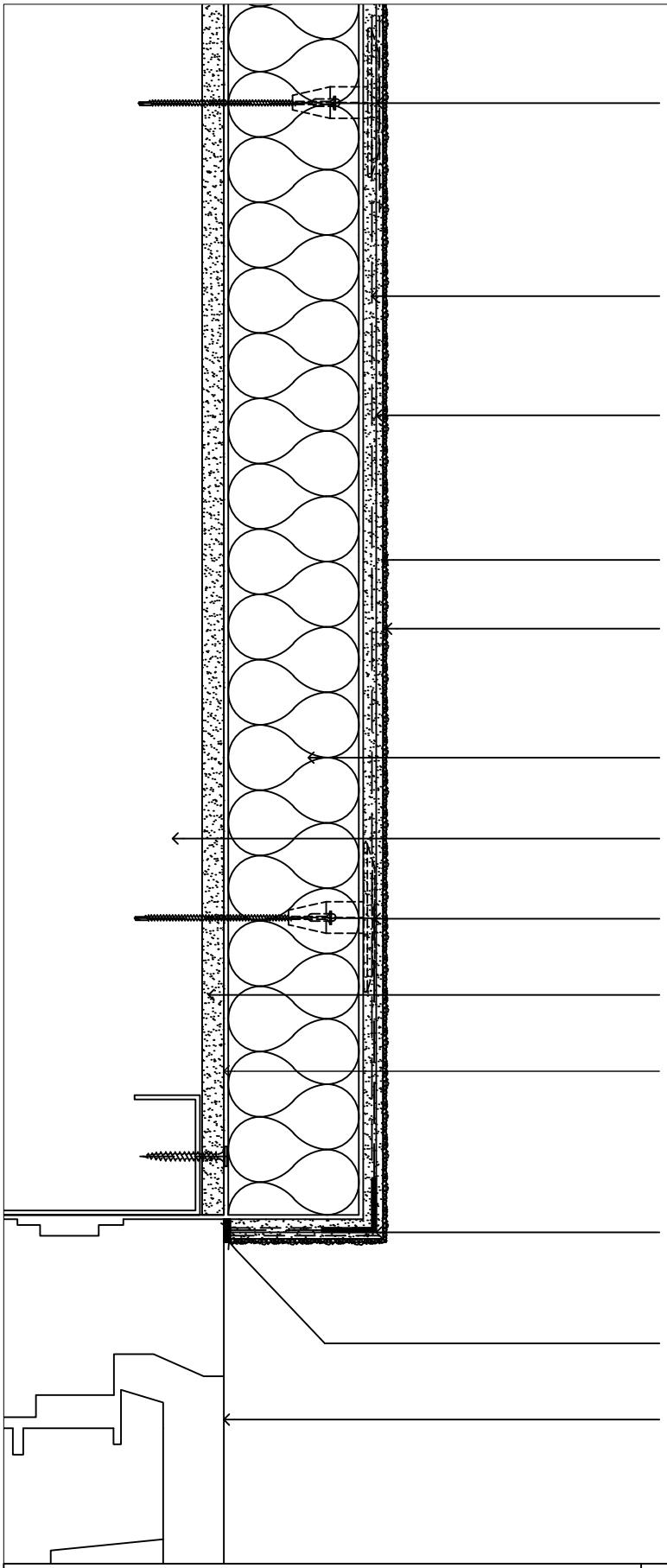
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drawing description. **Window cill detail**	drawn by. BS	Wetherby Building Systems Ltd
	checked by. LS	
drawing no. **SFS-SW-SILICONE-04**	revision. -	
	scale. nts	
project name. **Generic Detail Drawings**	date. 12.07.2023	
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WBS approved main insulation board fixings installed through mesh / basecoat whilst wet, insulation board and sheathing board at 250mm cts. 100mm x 100mm scrim cloth patches applied over fixing heads

WBS Heck K+A scrim adhesive coat 4-6mm min reinforced with WBS alkali resistant glass fibre reinforcing mesh

WBS Heck K+A scrim adhesive levelling coat 3-4mm finished smooth

WBS Heck Silicone Primer

WBS Heck Silicone Finish Coat
(grain size and colour to clients approval)

WBS Stone Wool insulation board
(thickness to suit client requirements)

Metal stud frame by others

WBS initial mechanical fixing

WBS approved 'A' rated cement particle board (min 12mm)

WBS insulation bedding adhesive
to be applied as specified

WBS corner bead bedded
into adhesive mortar

WBS APU frame seal or
WBS fire rated silicone sealant at abutment

Conjectured line of existing window / door

drawing description.
Window/door head detail (1 of 2)

drawn by. BS

checked by. LS

drawing no.
SFS-SW-SILICONE-05A

revision. -

scale. nts

project name.
Generic Detail Drawings

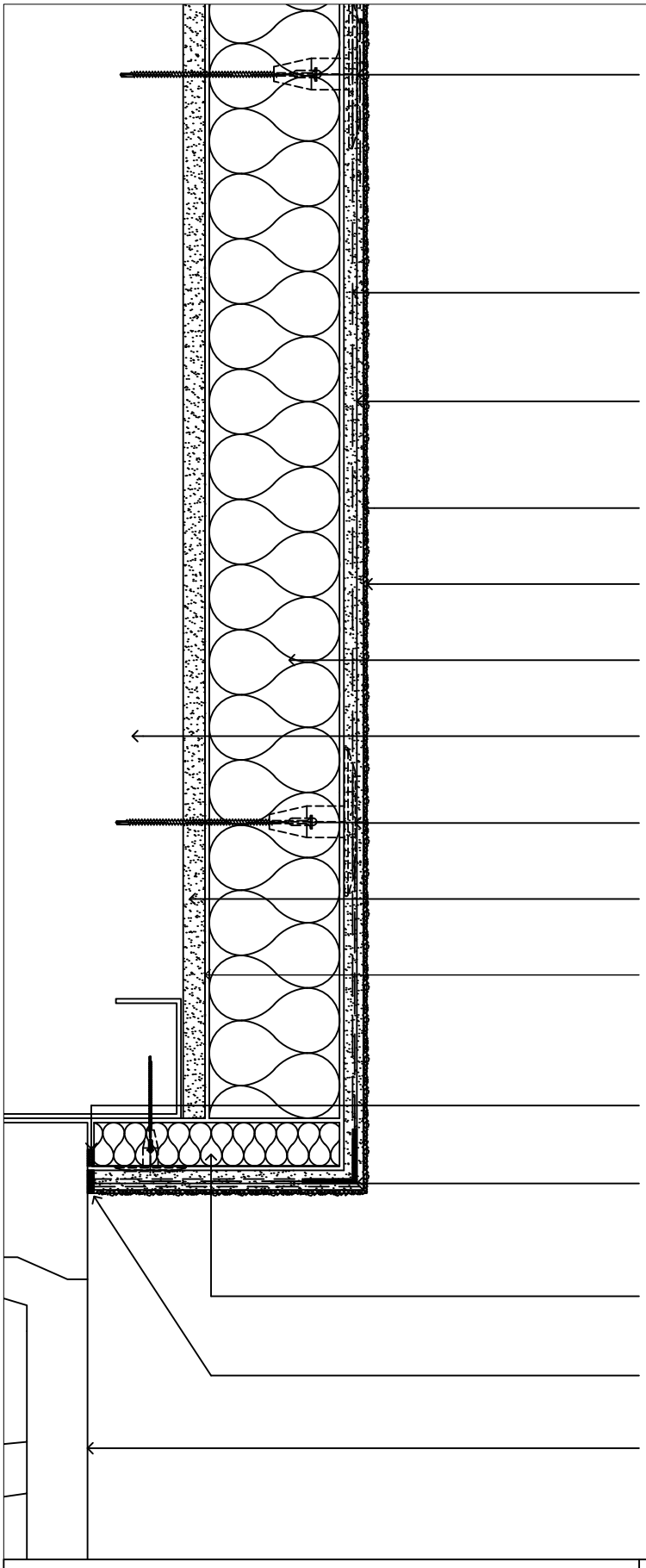
date. 12.07.2023

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WBS approved main insulation board fixings installed through mesh / basecoat whilst wet, insulation board and sheathing board at 250mm cts. 100mm x 100mm scrim cloth patches applied over fixing heads

WBS Heck K+A scrim adhesive coat 4-6mm min reinforced with WBS alkali resistant glass fibre reinforcing mesh

WBS Heck K+A scrim adhesive levelling coat 3-4mm finished smooth

WBS Heck Silicone Primer

WBS Heck Silicone Finish Coat (grain size and colour to clients approval)

WBS Stone Wool insulation board (thickness to suit client requirements)

Metal stud frame by others

WBS approved mechanical fixing and KWL Washer

WBS approved 'A' rated cement particle board (min 12mm)

WBS bedding adhesive to be applied as specified

WBS sealing tape

WBS corner bead bedded into adhesive mortar

Reduced thickness insulation board mechanically fixed to frame

WBS APU frame seal or WBS fire rated silicone sealant at abutment

Conjectured line of existing window / door

drawing description.
Window/door head detail (2 of 2)

drawn by. BS

checked by. LS

drawing no.
SFS-SW-SILICONE-05B

revision. -

scale. nts

project name.
Generic Detail Drawings

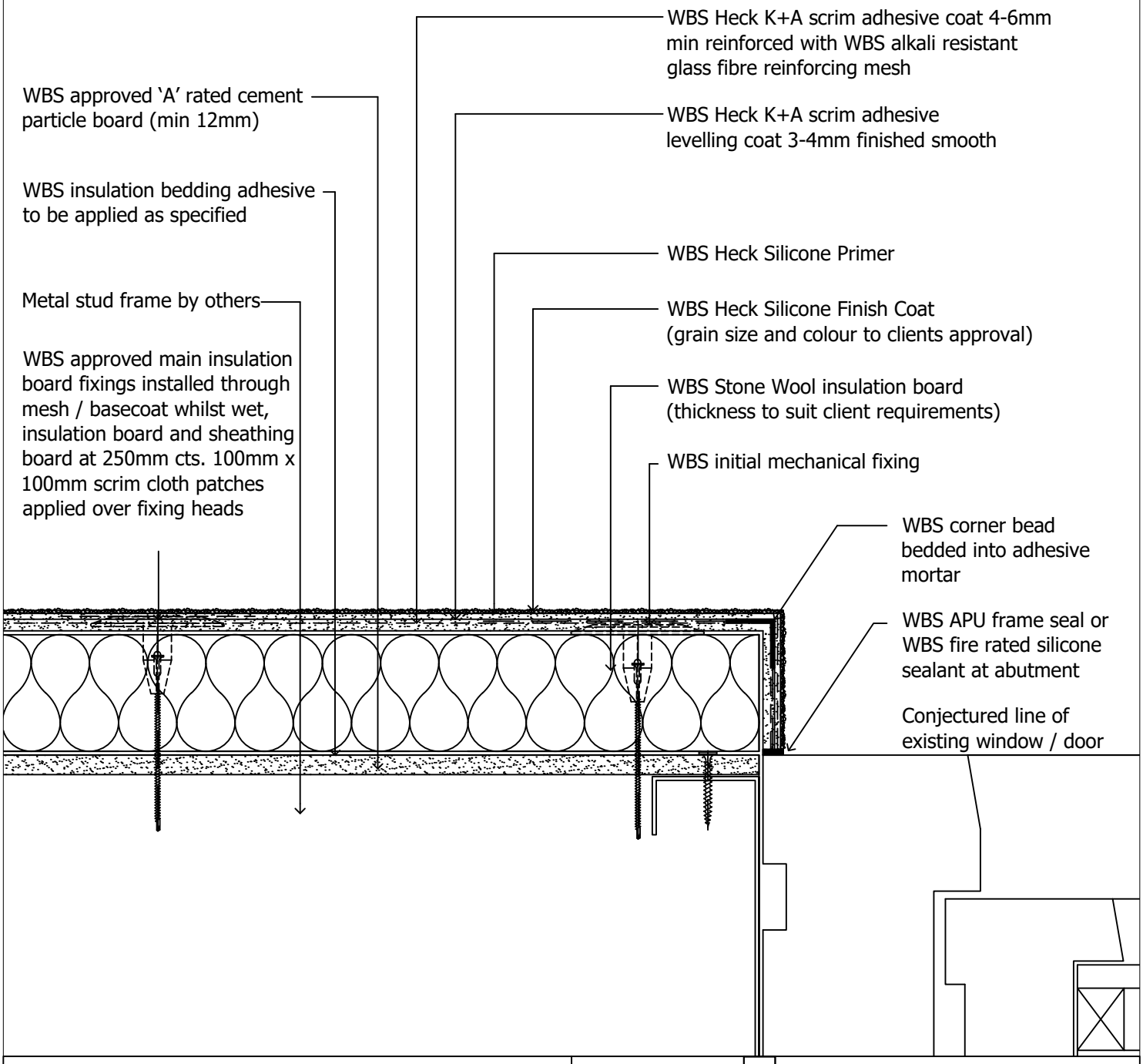
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drawing description.
Window/door jamb detail (1 of 2)

drawn by. BS

checked by. LS

drawing no.
SFS-SW-SILICONE-06A

revision. -

scale. nts

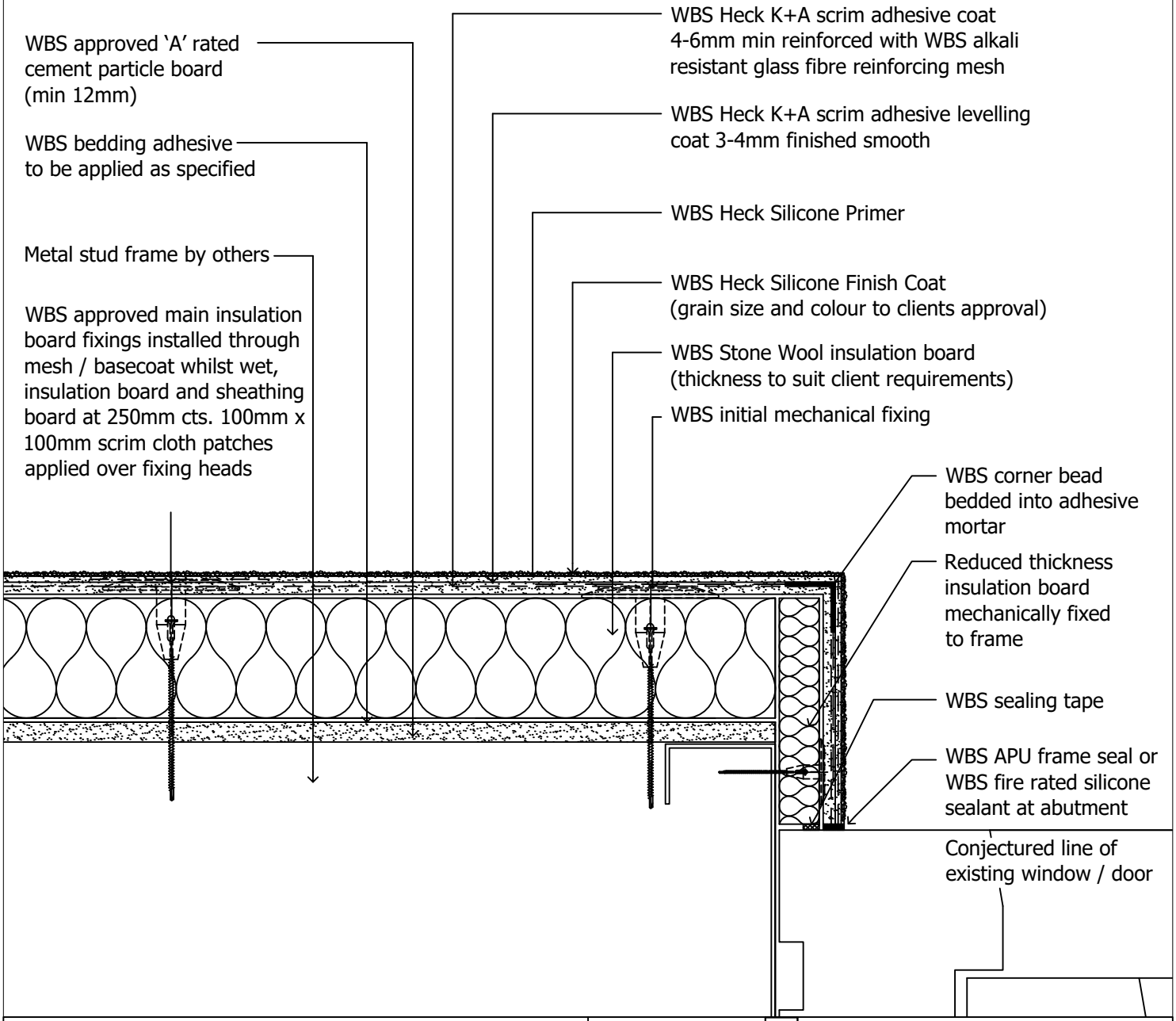
project name.
Generic Detail Drawings

date. 12.07.2023

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drawing description.
Window/door jamb detail (2 of 2)

drawn by. BS
checked by. LS

drawing no.
SFS-SW-SILICONE-06B

revision. -
scale. nts

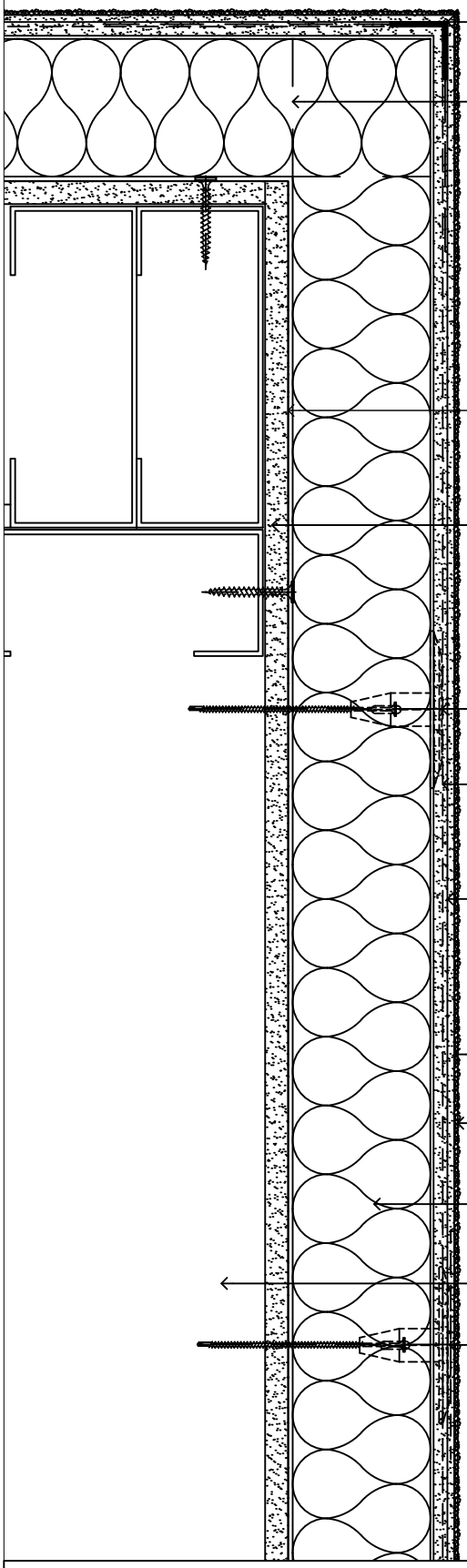
project name.
Generic Detail Drawings

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WBS corner bead bedded into adhesive mortar

Staggered insulation board joints at building corner

WBS insulation bedding adhesive to be applied as specified

WBS approved 'A' rated cement particle board (min 12mm)

WBS initial mechanical fixing

WBS Heck K+A scrim adhesive coat 4-6mm min reinforced with WBS alkali resistant glass fibre reinforcing mesh

WBS Heck K+A scrim adhesive levelling coat 3-4mm finished smooth

WBS Heck Silicone Primer

WBS Heck Silicone Finish Coat (grain size and colour to clients approval)

WBS Stone Wool insulation board (thickness to suit client requirements)

Metal stud frame by others

WBS approved main insulation board fixings installed through mesh / basecoat whilst wet, insulation board and sheathing board at 250mm cts. 100mm x 100mm scrim cloth patches applied over fixing heads

drawing description.
External building corner detail

drawn by. BS

checked by. LS

drawing no.
SFS-SW-SILICONE-07A

revision. -

scale. nts

project name.
Generic Detail Drawings

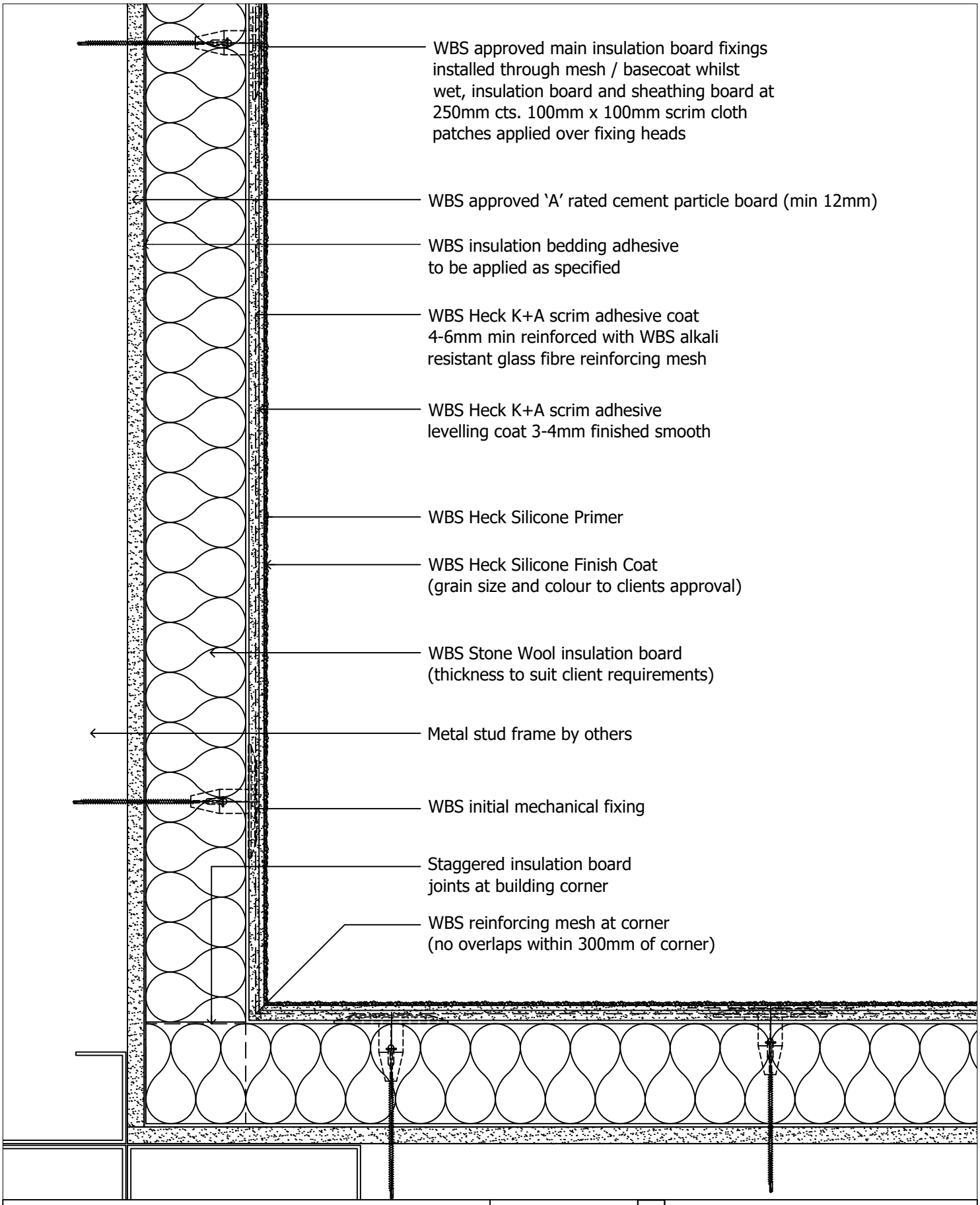
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drawing description.
Internal building corner detail

drawn by. BS
checked by. LS

drawing no.
SFS-SW-SILICONE-07B

revision. -
scale. nts

project name.
Generic Detail Drawings

date. 12.07.2023
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WBS approved main insulation board fixings installed through mesh / basecoat whilst wet, insulation board and sheathing board at 250mm cts. 100mm x 100mm scrim cloth patches applied over fixing heads

WBS movement joint mechanically fixed at maximum 300mm centres

WBS sealing tape installed between insulation boards

6mm channel cut through insulation

WBS insulation bedding adhesive to be applied as specified

WBS approved 'A' rated cement particle board (min 12mm)

Metal stud frame by others

WBS Heck K+A scrim adhesive coat 4-6mm min reinforced with WBS alkali resistant glass fibre reinforcing mesh (mesh must run into movement joint flanges)

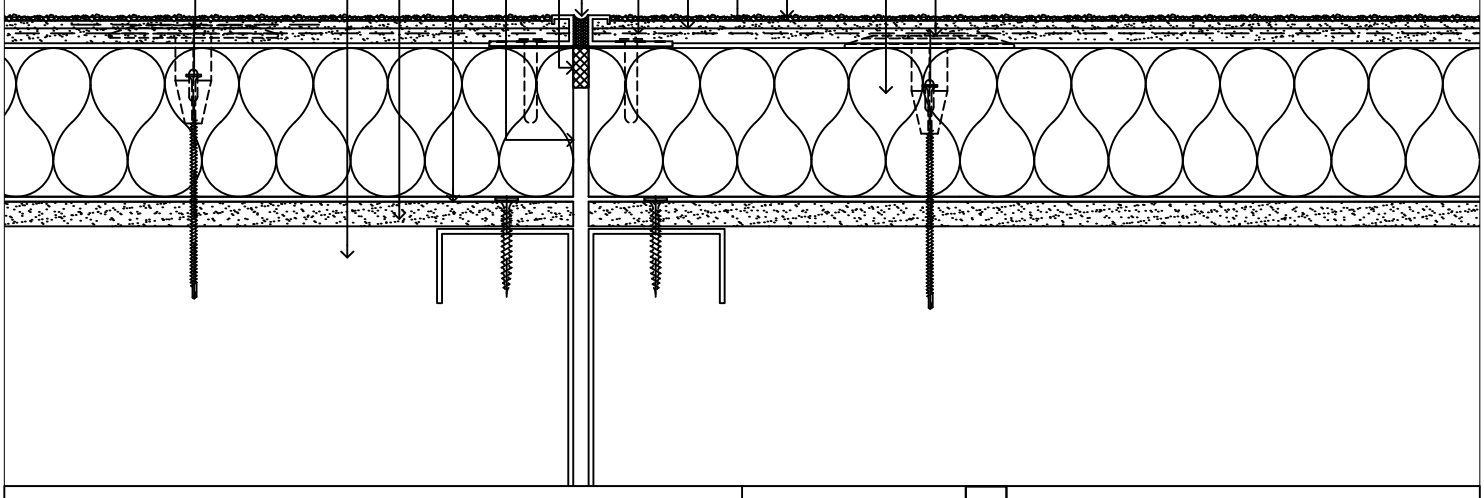
WBS Heck K+A scrim adhesive levelling coat 3-4mm finished smooth

WBS Heck Silicone Primer

WBS Heck Silicone Finish Coat (grain size and colour to clients approval)

WBS Stone Wool insulation board (thickness to suit client requirements)

WBS initial mechanical fixing



drawing description.
Vertical movement joint detail

drawn by. BS

checked by. LS

drawing no.
SFS-SW-SILICONE-08A

revision. -

scale. nts

project name.
Generic Detail Drawings

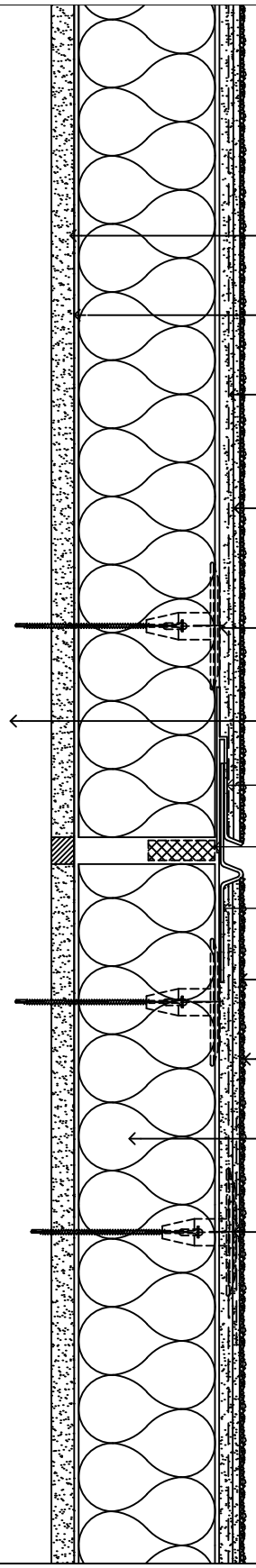
date. 12.07.2023

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N.B. Slip joint installed subject to structural engineers calculations

WBS approved 'A' rated cement particle board (min 12mm)

WBS insulation bedding adhesive to be applied as specified

WBS Heck K+A scrim adhesive coat 4-6mm min reinforced with alkali resistant glass fibre reinforcing mesh

WBS Heck K+A scrim adhesive levelling coat 3-4mm finished smooth

WBS initial mechanical fixing

Metal stud frame by others

WBS RCJT slip joint top connector

WBS compriband tape

WBS RCJB slip joint movement piece

WBS Heck Silicone Primer

WBS Heck Silicone finish coat (grain size and colour to clients approval)

WBS Stone Wool insulation board (thickness to suit client requirements)

WBS approved main insulation board fixings installed through mesh / basecoat whilst wet, insulation board and sheathing board at 250mm cts. 100mm x 100mm scrim cloth patches applied over fixing heads

drawing description.
Horizontal movement joint detail

drawn by. BS

checked by. LS

drawing no.
SFS-SW-SILICONE-08B

revision. -

scale. nts

project name.
Generic Detail Drawings

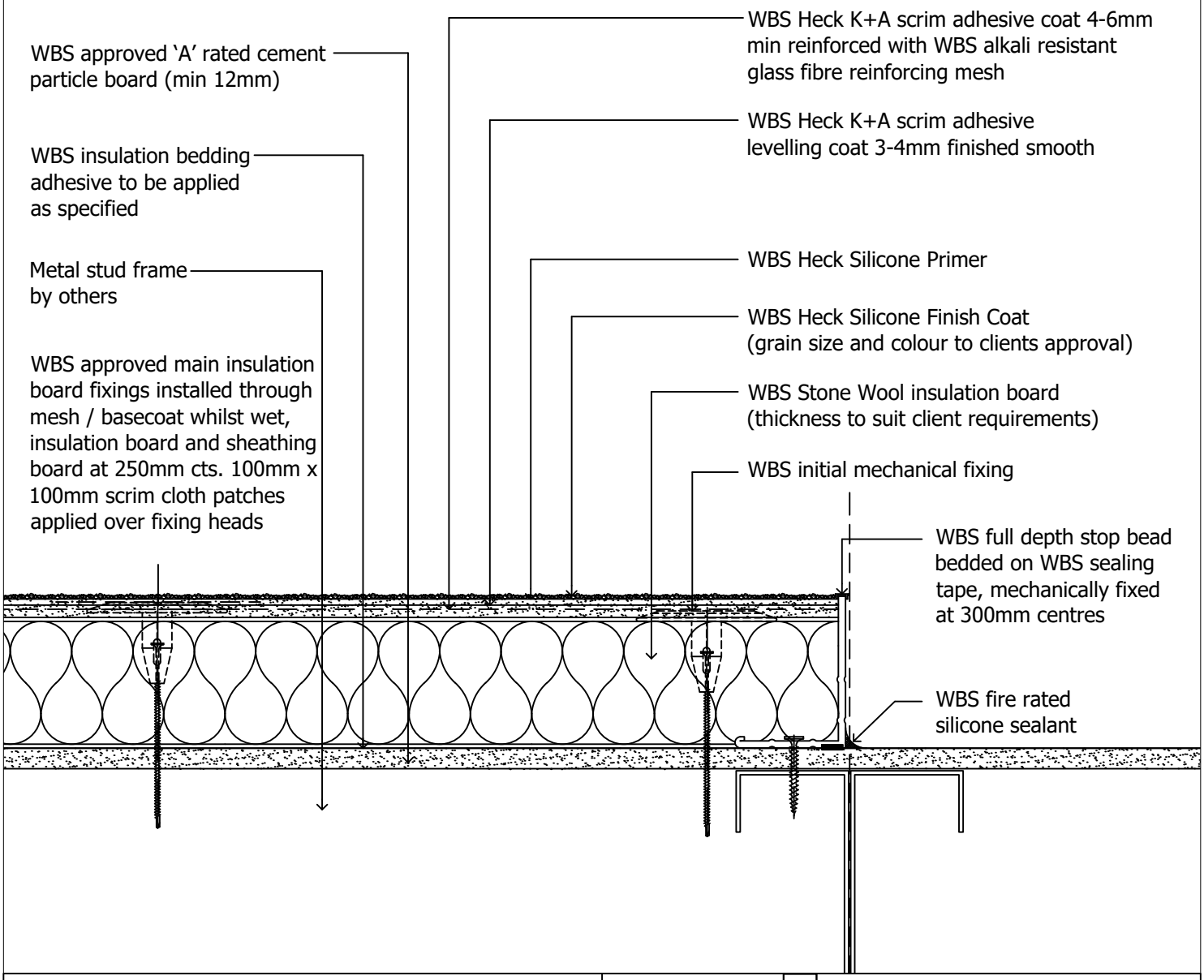
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drawing description.
System termination detail

drawing no.
SFS-SW-SILICONE-12

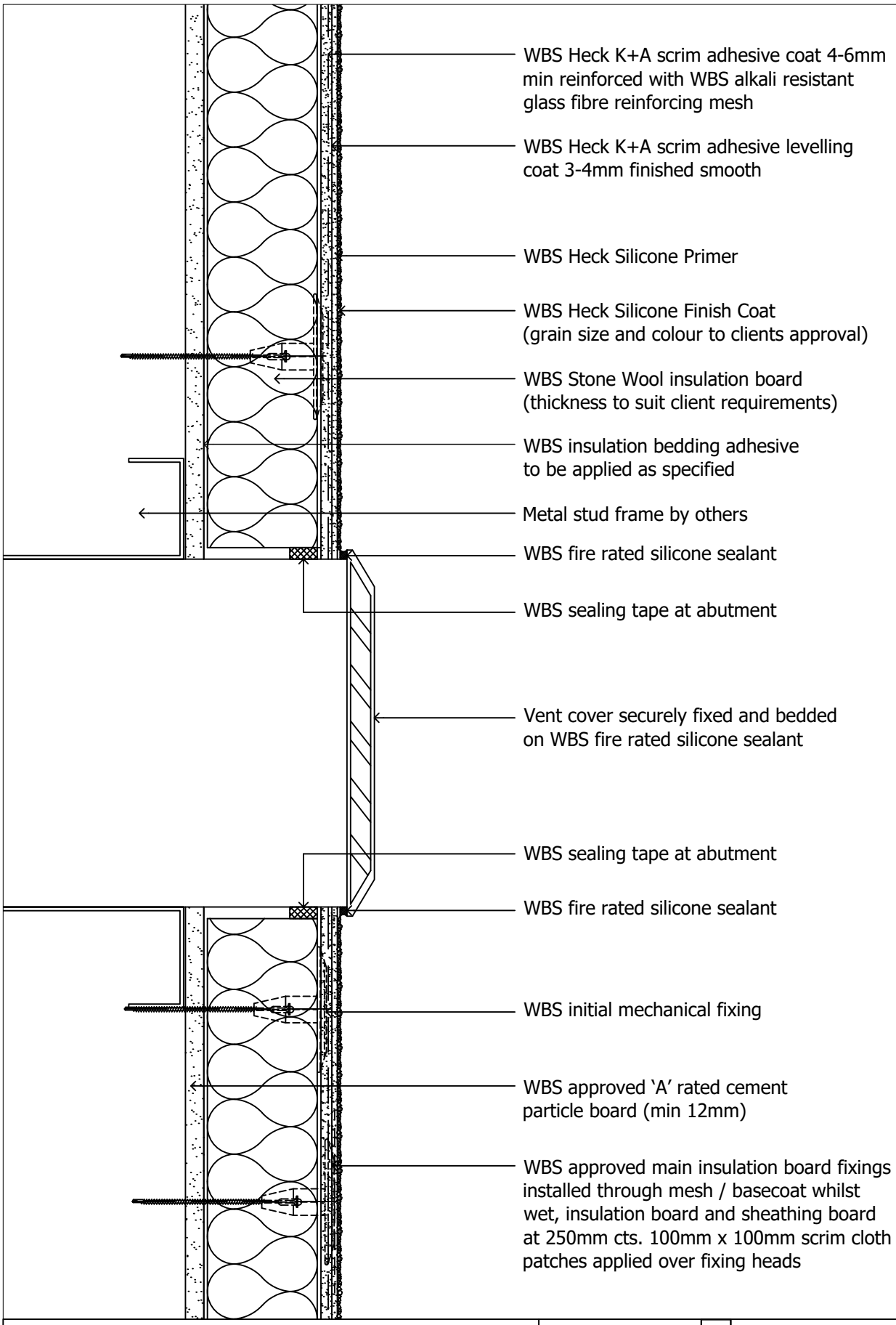
project name.
Generic Detail Drawings

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revision. -
scale. nts
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drawing description.
Air vent detail

drawn by. BS
checked by. LS

drawing no.
SFS-SW-SILICONE-13

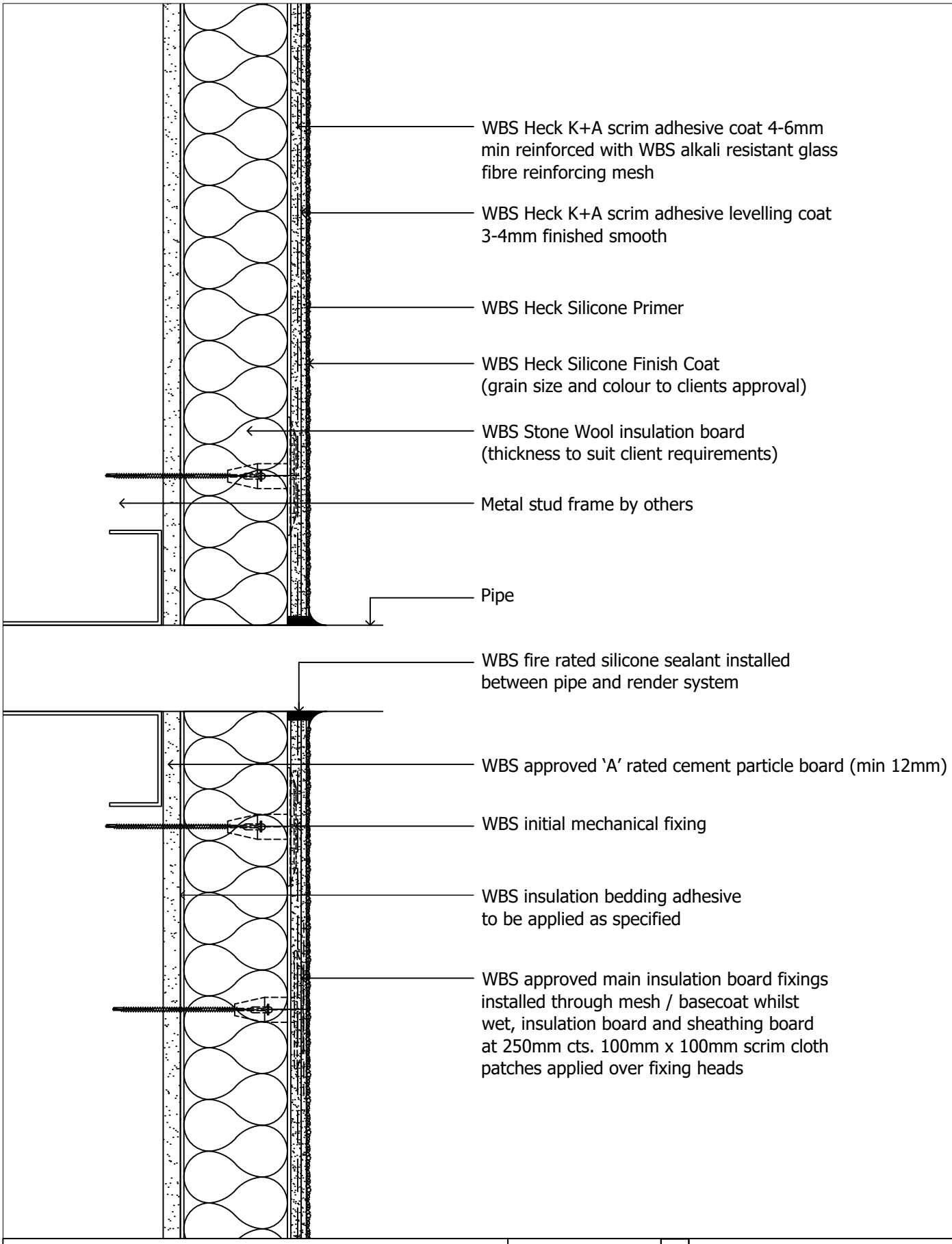
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project name.
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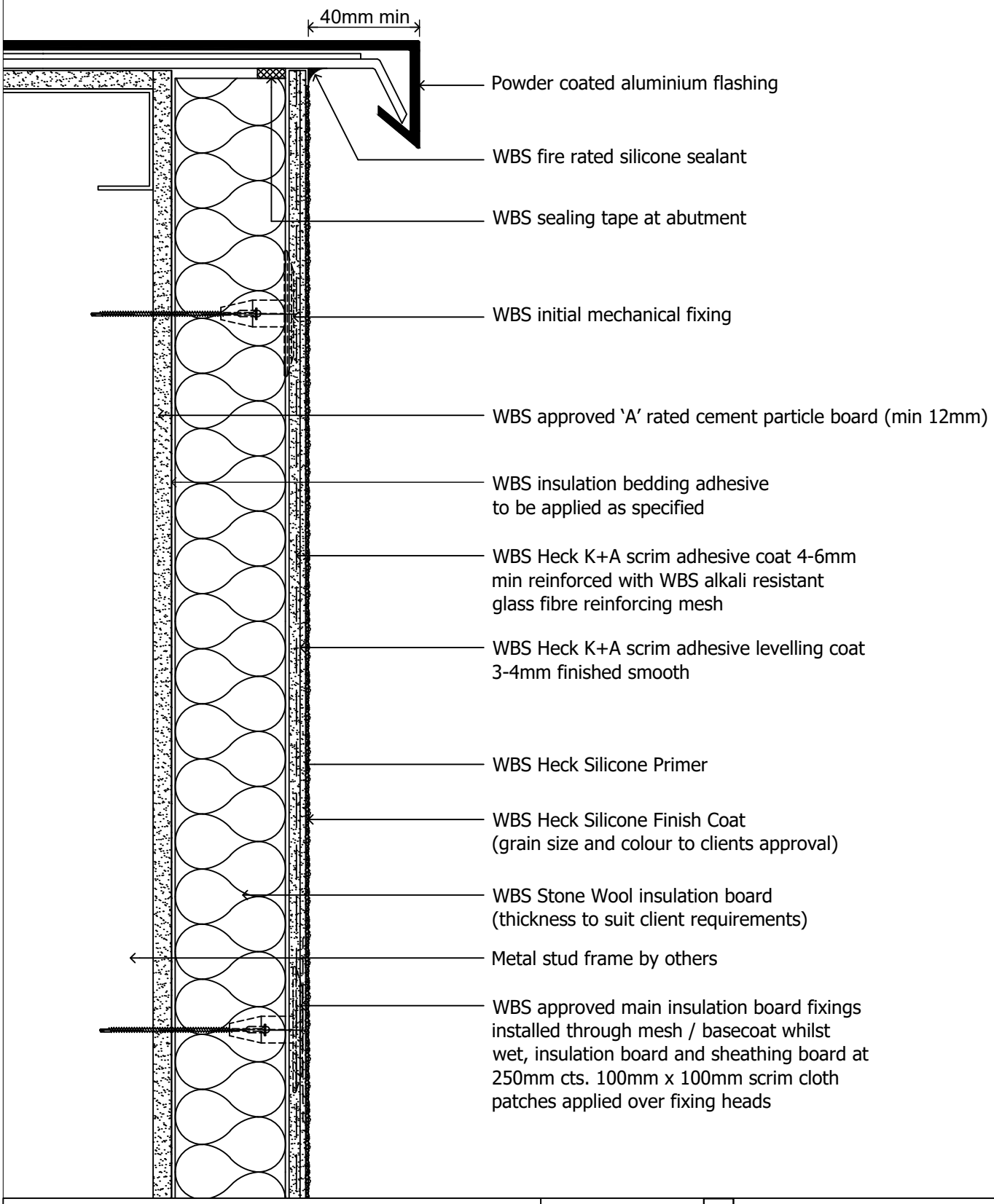
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drawing description. **Pipe detail**	drawn by. BS	Wetherby Building Systems Ltd
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drawing no. **SFS-SW-SILICONE-18**	revision. -	
	scale. nts	
project name. **Generic Detail Drawings**	date. 12.07.2023	
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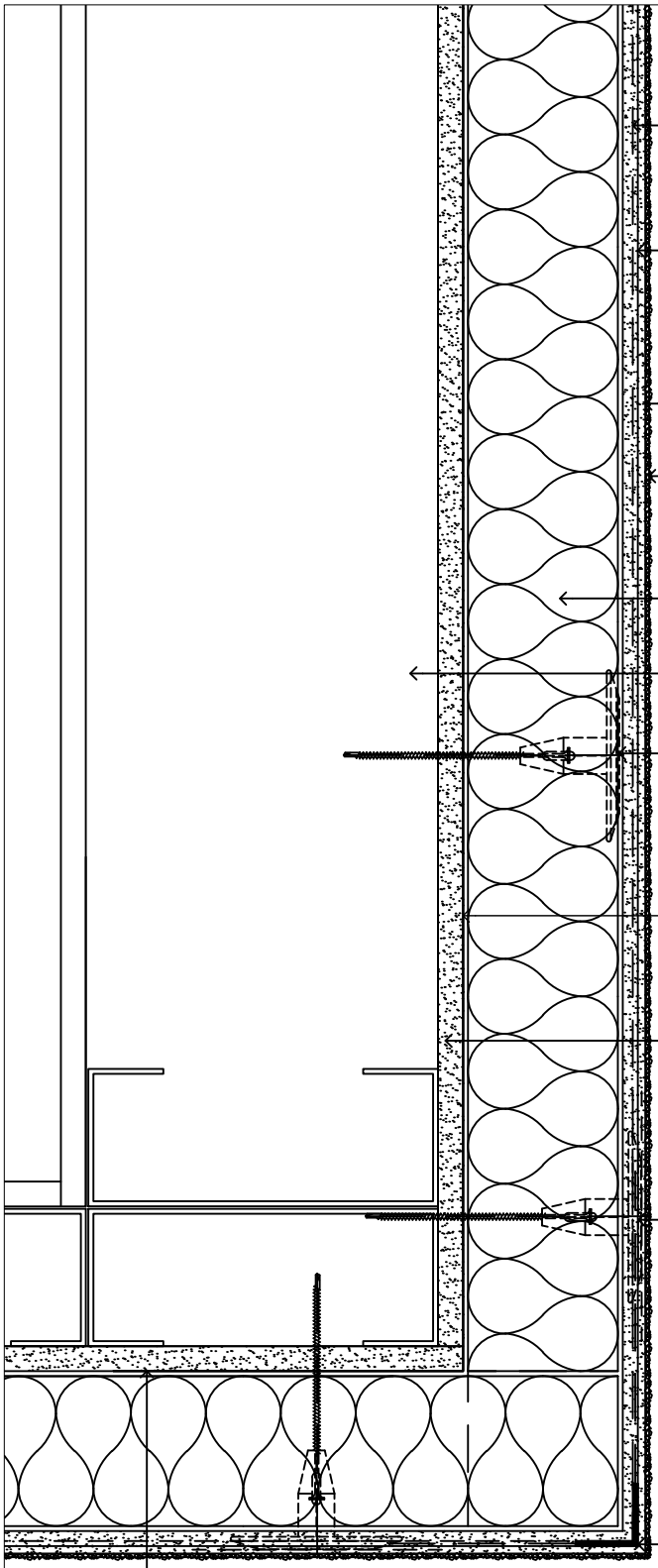
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drawing description. **Parapet detail**	drawn by. BS	Wetherby Building Systems Ltd
	checked by. LS	
drawing no. **SFS-SW-SILICONE-21**	revision. -	
	scale. nts	
project name. **Generic Detail Drawings**	date. 12.07.2023	
	dwg set. 65	

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WBS Heck K+A scrim adhesive coat 4-6mm min reinforced with WBS alkali resistant glass fibre reinforcing mesh

WBS Heck K+A scrim adhesive levelling coat 3-4mm finished smooth

WBS Heck Silicone Primer

WBS Heck Silicone Finish Coat (grain size and colour to clients approval)

WBS Stone Wool insulation board

Metal stud frame by others

WBS initial mechanical fixing

WBS insulation bedding adhesive to be applied as specified

WBS approved 'A' rated cement particle board (min 12mm)

WBS approved main insulation board fixings installed through mesh / basecoat whilst wet, insulation board and sheathing board at 250mm cts. 100mm x 100mm scrim cloth patches applied over fixing heads

WBS corner bead bedded into adhesive mortar

WBS insulation bedding adhesive to be applied to soffit

drawing description. **Soffit detail**	drawn by. BS	Wetherby Building Systems Ltd
	checked by. LS	
drawing no. **SFS-SW-SILICONE-22**	revision. -	
	scale. nts	
project name. **Generic Detail Drawings**	date. 12.07.2023	
	dwg set. 65	

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