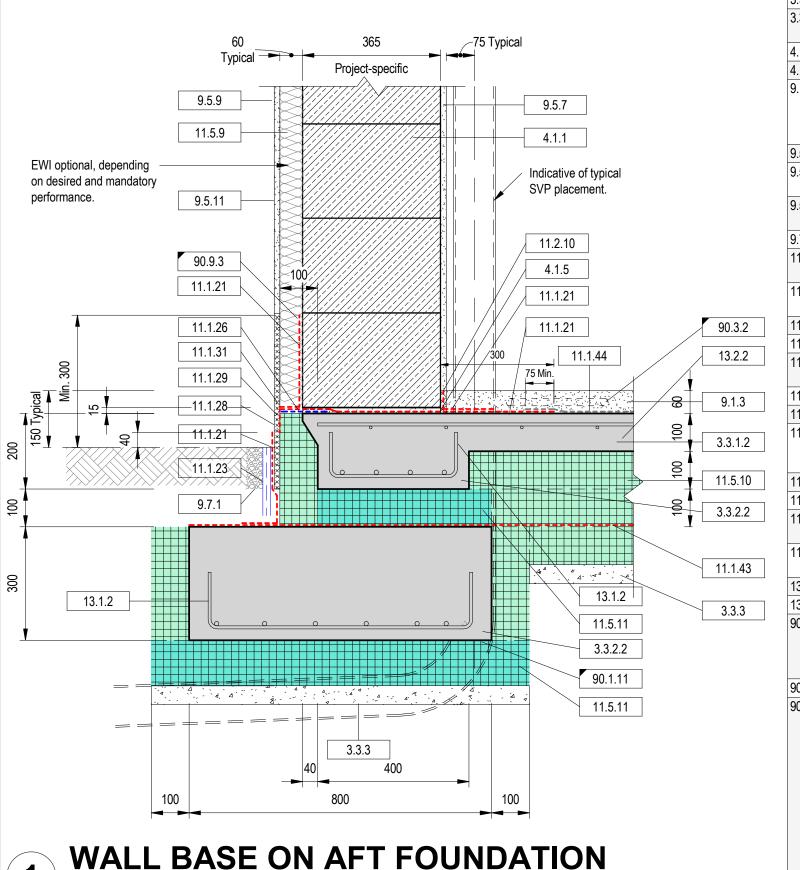




The JUWO Evolved SmartWall™ Thermoplan Clayblock System

Monolithic Clay Block Building System



Key Keynote 3.3.1.2 Concrete Grade RC30/37 Concrete Grade RC30/37. 3.3.2.2 3.3.3 Lean concrete blinding and filling to BS8500, subject to site 4.1.1 Smartwall blocks in thin bed mortar or adhesive 4.1.5 Full thickness bed or leveling bed of insulating mortar, 9.1.3 Liquid self compacting concrete screed, Cemfloor Therm or equivalent. Apply in strict accordance with manufacturer's instructions. Provide all necessary movement joints and joint 9.5.7 Plaster, lime based. 9.5.9 External render system with alkali resistant reinforcing mesh at joints edges and transitions, as recommended by manufacturer. 9.5.11 External decorative finishes as desired. Ensure materials are compatible with render system. 9.7.1 Anti-splash shingle strip. 11.1.21 Waterproofing and Radon-resistant membrane, Remmers MB2K (Art. 301408). 11.1.23 Protective and decoupling sheet, Remmers DS Protect (Art. 082301) 11.1.26 Sealing tape, Remmers Tape VF120 (Art. 507101) Cementing mortar, Remmers VM Fill (Art. 051725) 11.1.29 Rapid setting adhesive felting mortar, Remmers VM Fill Rapid (Art. 11.1.31 Mesh render reinforcement, Remmers Tex. 11.1.43 Generic HDPE membrane 500g Visgueen GR SAM self-adhesive DPM and radon membrane for applied in accordance with manufacturer's instructions and minimum lap. Compliant with BS 8102 & BS 8485. Rothoblaas Kenaf Band isolating/sealing strip. Expanded polystyrene batts or boards. 11.5.10 Expanded polystyrene, Grade EPS200, batts, slabs or boards for 11.5.11 Expanded polystyrene, Grade EPS300, batts, slabs or boards for foundations. 13.1.2 Reinforcement Grade B500B or C. 13.2.2 Flying end mesh fabric Grade B500A, B or C 90.1.11 Displace reinforcement around penetration (pipes etc.) if necessary. Prefer re-routing of pipes. Thicken section if necessary or if detailed. Provide additional reinforcement as necessary or detailed. 90.3.2 Lay heating system pipework in floor. 90.9.3 Remmers DPM/DPC system in strict accordance with manufacturer's instructions: Carefully remove sharp edges and smooth all arisses. Clean surfaces and control suction with clean water. Scrape off projections. Prime with Remmers Kiesol MB. Fill irregularities and caulk with Remmers WP DS Level mortar/grout to produce smooth surfaces. Form fillets similarly. Apply first coat of Remmers MB2K. Apply Remmers Tape VF to all internal and external corners and joints, embedded in a layer of Remmers MB2K while still wet (B240 tape at movement joints). Apply second coat of Remmers MB2K. Attach thermal insulation (if present) with MB2K. Apply Remmers DS Protect protection.

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Rev	Description	Date
	Initial release.	14/7/2020
	DPC/DPM details revised to Remmers system.	18/3/2021
	General updates and new data.	12/5/21

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PROJECT

SMARTWALL - TYPICAL DETAILS

TITLE

WALL BASE DETAIL ON AFT FOUNDATION

CLIENT

DRAWN BY CHECKED BY DATE 15/7/2020

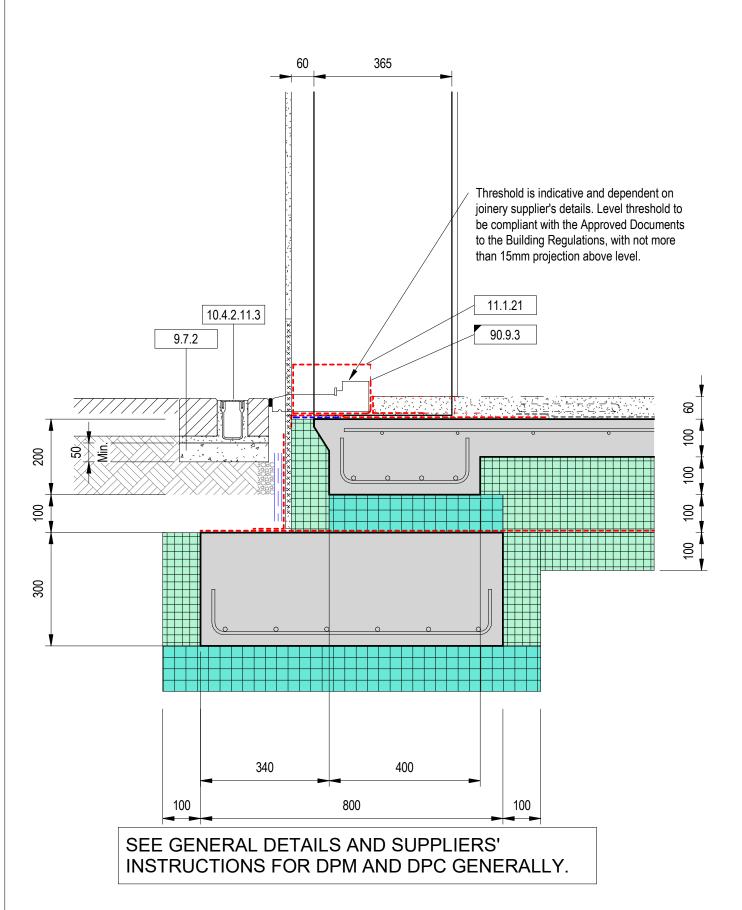
SCALE (@ A3) PROJECT REF. N/C 1:10

0000-ESJ-ZZ-00-DR-S - 101

3

26/05/2021 15:04:58

DRAWING NUMBER



Key	Keynote
9.7.2	Mass concrete beds and surrounds, concrete Grade GEN3 to BS 8500.
10.4.2.11.3	ACO Threshold Drain with connection to SW system.
11.1.21	Waterproofing and Radon-resistant membrane, Remmers MB2K (Art. 301408).
90.9.3	Remmers DPM/DPC system in strict accordance with manufacturer's instructions: Carefully remove sharp edges and smooth all arisses. Clean surfaces and control suction with clean water. Scrape off projections. Prime with Remmers Kiesol MB. Fill irregularities and caulk with Remmers WP DS Level mortar/grout to produce smooth surfaces. Form fillets similarly. Apply first coat of Remmers MB2K. Apply Remmers Tape VF to all internal and external corners and joints, embedded in a layer of Remmers MB2K while still wet (B240 tape at movement joints). Apply second coat of Remmers MB2K. Attach thermal insulation (if present) with MB2K. Apply Remmers DS Protect protection.

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CERTIFICATION HAS BEEN GRANTED.

Rev	Description	Date
	Initial release.	14/7/2020
2	DPC/DPM details revised to Remmers system.	18/3/2021
3	General updates and new data.	12/5/21

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PROJECT

SMARTWALL - TYPICAL DETAILS

LEVEL THRESHOLD DETAIL ON AFT FOUNDATION

CLIENT

DRAWN BY CHECKED BY DATE RAB 15/7/2020

SCALE (@ A3) PROJECT REF. N/C 1:10

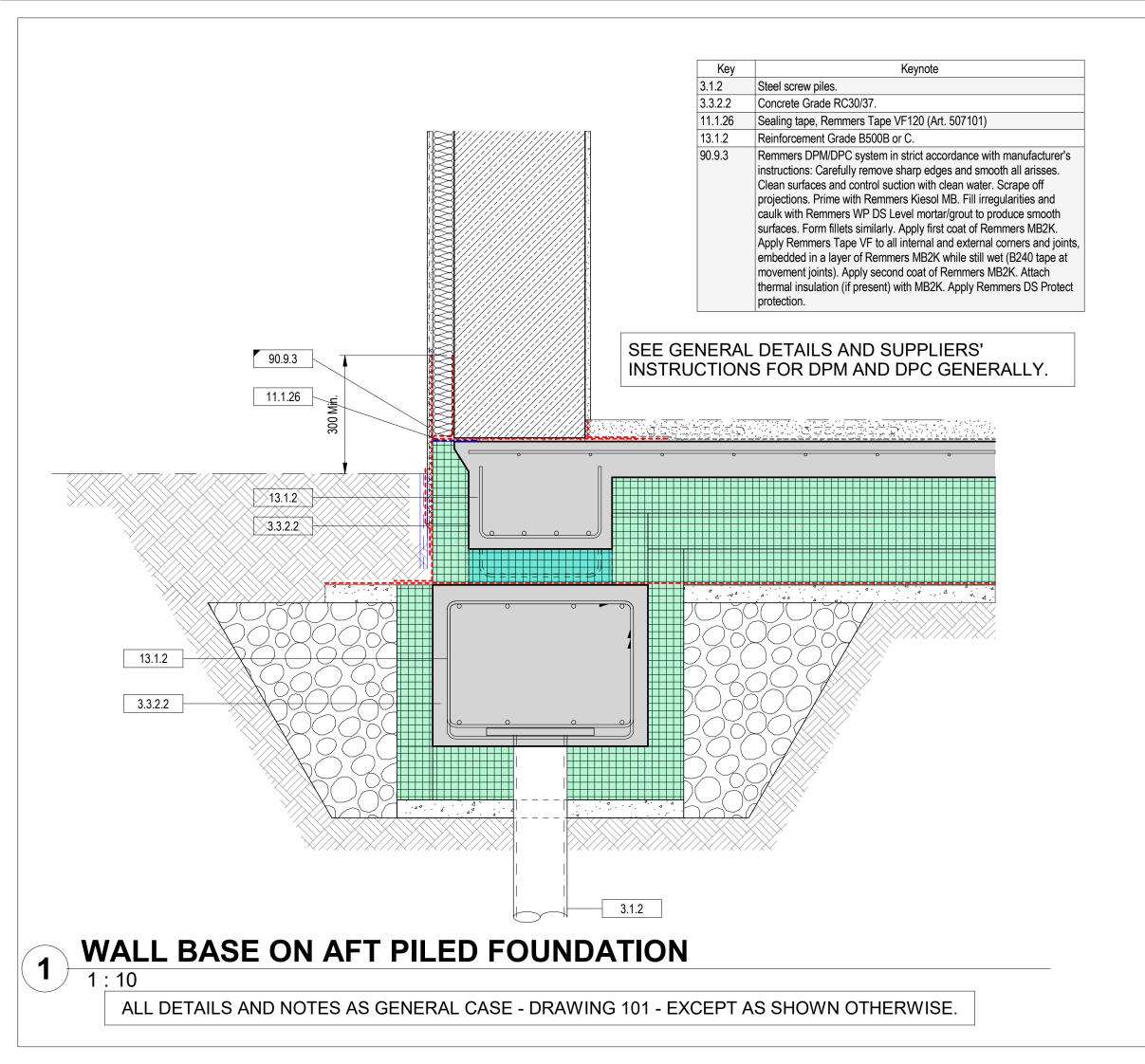
DRAWING NUMBER 0000-ESJ-ZZ-00-DR-S - 102

LOD N/C SUITABLITY MODEL VERSION CODE P00

WALL BASE ON AFT FOUNDATION - LEVEL THRESHOLD

ALL DETAILS AND NOTES AS GENERAL CASE - DRAWING 101 - EXCEPT AS SHOWN OTHERWISE.

 REV



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Rev	Description	Date
1	Initial release.	14/7/2020
2	DPC/DPM details revised to Remmers system.	18/3/2021
3	General updates and new data.	12/5/21

SUITABLITY S0

LOD N/C

MODEL VERSION CODE P00



EVOLVED SUPPLIES LTD 4 Firs Close, St Martins, SY11 3LT Tel: +44 (0)1691 707 100 info@evolvedsupplies.co.uk

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PROJECT

SMARTWALL - TYPICAL DETAILS

WALL BASE DETAIL ON PILED AFT FOUNDATION

CLIENT

DRAWN BY CHECKED BY DATE RAB 07/15/20

SCALE (@ A3) 1:10

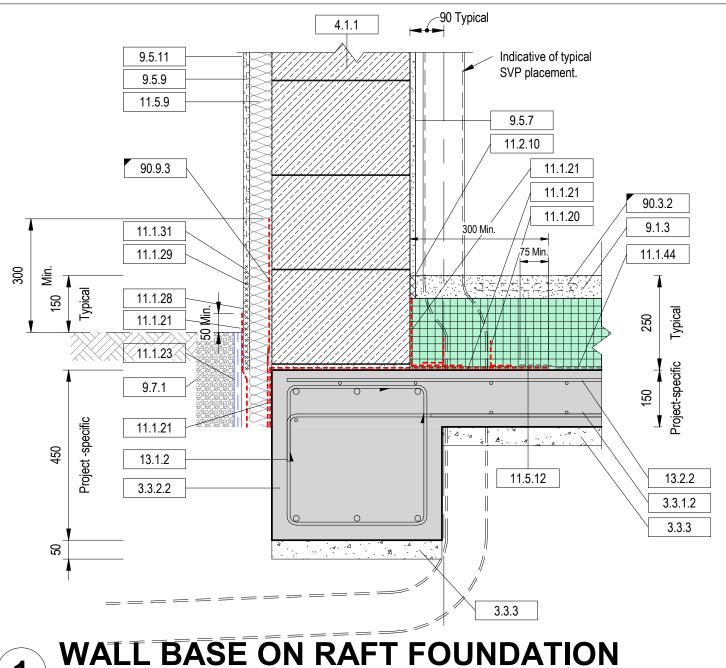
PROJECT REF. N/C

DRAWING NUMBER

0000-ESJ-ZZ-00-DR-S - 103

3

REV



,	1
3.3.1.2	Concrete Grade RC30/37.
3.3.2.2	Concrete Grade RC30/37.
3.3.3	Lean concrete blinding and filling to BS8500, subject to site conditions.
4.1.1	Smartwall blocks in thin bed mortar or adhesive,
9.1.3	Liquid self compacting concrete screed, Cemfloor Therm or equivalent. Apply in strict accordance with manufacturer's instructions. Provide all necessary movement joints and joint covers.
9.5.7	Plaster, lime based.
9.5.9	External render system with alkali resistant reinforcing mesh at joints edges and transitions, as recommended by manufacturer.
9.5.11	External decorative finishes as desired. Ensure materials are compatible with render system.
9.7.1	Anti-splash shingle strip.
9.7.3	Render stop bead, UV resistant plastic (or stainless steel).
9.7.4	Remmers colour finish to suit.
11.1.20	Visqueen self-adhesive pipe collar.
11.1.21	Waterproofing and Radon-resistant membrane, Remmers MB2K (Art. 301408).
11.1.23	Protective and decoupling sheet, Remmers DS Protect (Art. 082301)
11.1.28	Cementing mortar, Remmers VM Fill (Art. 051725)
11.1.29	Rapid setting adhesive felting mortar, Remmers VM Fill Rapid (Art. 051925)
11.1.31	Mesh render reinforcement, Remmers Tex.
11.1.44	Visqueen GR SAM self-adhesive DPM and radon membrane for applied in accordance with manufacturer's instructions and minimum lap. Compliant with BS 8102 & BS 8485.
11.2.10	Rothoblaas Kenaf Band isolating/sealing strip.
11.5.9	Expanded polystyrene batts or boards.
11.5.12	Rigid floor/foundation insulation batts.
13.1.2	Reinforcement Grade B500B or C.
13.2.2	Flying end mesh fabric Grade B500A, B or C
90.3.2	Lay heating system pipework in floor.
90.9.3	Remmers DPM/DPC system in strict accordance with manufacturer's instructions: Carefully remove sharp edges and smooth all arisses. Clean surfaces and control suction with clean water. Scrape off projections. Prime with Remmers Kiesol MB. Fill irregularities and caulk with Remmers WP DS Level mortar/grout to produce smooth surfaces. Form fillets similarly. Apply first coat of Remmers MB2K. Apply Remmers Tape VF to all internal and external corners and joints, embedded in a layer of Remmers MB2K while still wet (B240 tape at movement joints). Apply second coat of Remmers MB2K. Attach thermal insulation (if present) with MB2K. Apply

Remmers DS Protect protection.

Keynote

Key

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Rev	Description	Date
	Initial release.	14/7/2020
2	DPC/DPM details revised to Remmers system.	18/3/2021
3	General updates and new data.	12/5/21

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SMARTWALL - TYPICAL DETAILS

TITLE

WALL BASE ON RAFT FOUNDATION

CLIENT

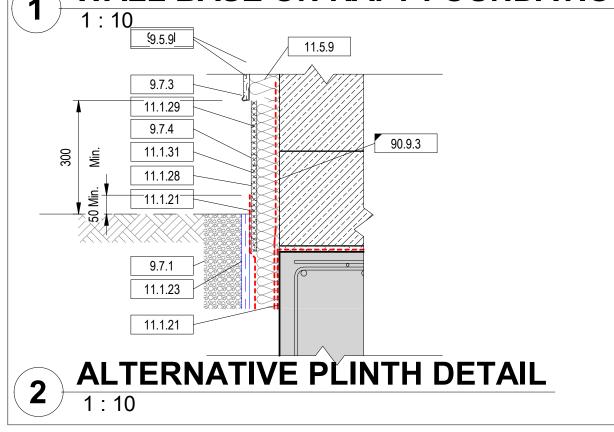
DRAWN BY CHECKED BY DATE RAB 15/7/2020

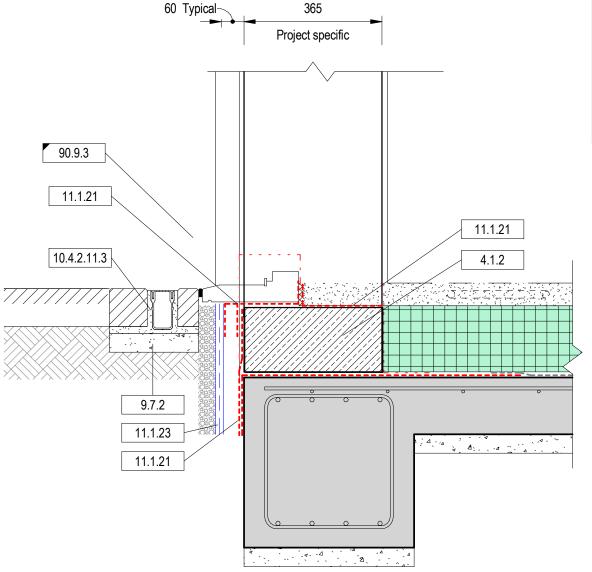
 REV

PROJECT REF. N/C SCALE (@ A3) 1:10

DRAWING NUMBER

0000-ESJ-ZZ-00-DR-S -	1(





Key	Keynote
4.1.2	Smartwall blocks, half course blocks, in thin bed mortar or adhesive
9.7.2	Mass concrete beds and surrounds, concrete Grade GEN3 to BS 8500.
10.4.2.11.3	ACO Threshold Drain with connection to SW system.
11.1.21	Waterproofing and Radon-resistant membrane, Remmers MB2K (Art. 301408).
11.1.23	Protective and decoupling sheet, Remmers DS Protect (Art. 082301)
90.9.3	Remmers DPM/DPC system in strict accordance with manufacturer's instructions: Carefully remove sharp edges and smooth all arisses. Clean surfaces and control suction with clean water. Scrape off projections. Prime with Remmers Kiesol MB. Fill irregularities and caulk with Remmers WP DS Level mortar/grout to produce smooth surfaces. Form fillets similarly. Apply first coat of Remmers MB2K. Apply Remmers Tape VF to all internal and external corners and joints, embedded in a layer of Remmers MB2K while still wet (B240 tape at movement joints). Apply second coat of Remmers MB2K. Attach thermal insulation (if present) with MB2K. Apply Remmers DS Protect protection.

SEE GENERAL DETAILS AND SUPPLIERS' INSTRUCTIONS FOR DPM AND DPC GENERALLY.

WALL BASE ON RAFT FOUNDATION - LEVEL THRESHOLD

250

150

300

1:10

ALL DETAILS AND NOTES AS GENERAL CASE - DRAWING 104 - EXCEPT AS SHOWN OTHERWISE.

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Rev	Description	Date
	Initial release.	14/7/2020
<u>)</u>	DPC/DPM details revised to Remmers system.	18/3/2021
}	General updates and new data.	12/5/21

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PROJECT

SMARTWALL - TYPICAL DETAILS

LEVEL THRESHOLD DETAIL ON RAFT FOUNDATION

CLIENT

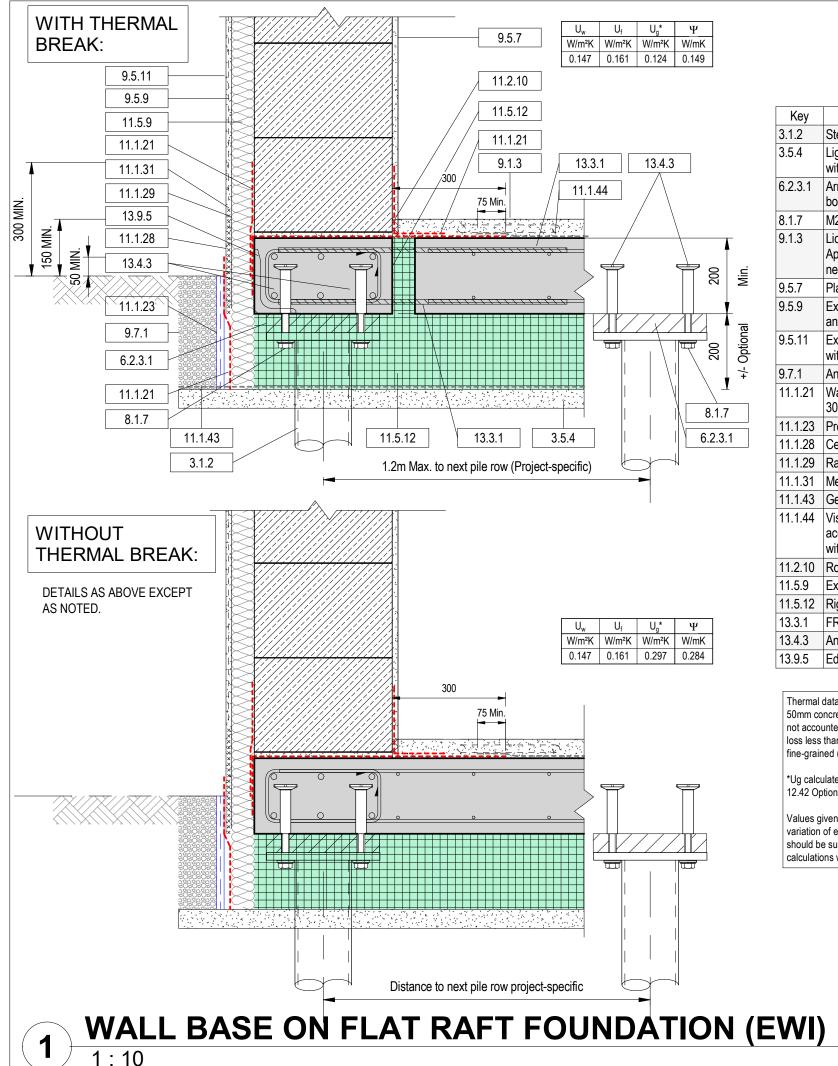
DRAWN BY CHECKED BY DATE RAB 15/7/2020

SCALE (@ A3) PROJECT REF. 1:10

DRAWING NUMBER 0000-ESJ-ZZ-00-DR-S - 105

26/05/2021 15:05:00

3



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Key	Keynote			
3.1.2	Steel screw piles.			
3.5.4	Lightly compacted granular sub-base material. Min. thickness 150, blinded with sand, to form firm, level and uniform base.			
6.2.3.1	Armatherm 500, with Armatherm bushes and Armatherm washers to all bolts or anchors.			
8.1.7	M20, zinc plated steel Grade 8.8, hex head.			
9.1.3	Liquid self compacting concrete screed, Cemfloor Therm or equivalent. Apply in strict accordance with manufacturer's instructions. Provide all necessary movement joints and joint covers.			
9.5.7	Plaster, lime based.			
9.5.9	External render system with alkali resistant reinforcing mesh at joints edges and transitions, as recommended by manufacturer.			
9.5.11	External decorative finishes as desired. Ensure materials are compatible with render system.			
9.7.1	Anti-splash shingle strip.			
11.1.21	Waterproofing and Radon-resistant membrane, Remmers MB2K (Art. 301408).			
11.1.23	Protective and decoupling sheet, Remmers DS Protect (Art. 082301)			
11.1.28	Cementing mortar, Remmers VM Fill (Art. 051725)			
11.1.29	Rapid setting adhesive felting mortar, Remmers VM Fill Rapid (Art. 051925)			
11.1.31	Mesh render reinforcement, Remmers Tex.			
11.1.43	Generic HDPE membrane 500g			
11.1.44	Visqueen GR SAM self-adhesive DPM and radon membrane for applied in accordance with manufacturer's instructions and minimum lap. Compliant with BS 8102 & BS 8485.			
11.2.10	Rothoblaas Kenaf Band isolating/sealing strip.			
11.5.9	Expanded polystyrene batts or boards.			
11.5.12	Rigid floor/foundation insulation batts.			
13.3.1	FRP Reinforcement rod.			
13.4.3	Ancon KSN16S anchorage.			
13.9.5	Edge form, Speed-Edge formwork, galvanized steel.			

Thermal data based on calculation with b=8m, 50mm concrete screed, Smartwall S7.5 block. Piles not accounted for (project specific) but estimated loss less than approx. 4W per pile. Soil taken as fine-grained (silt).

*Ug calculated in accordance with EN10211 Cl. 12.42 Option A & EN13370 Cl. 7.1 and Annex D.

Values given are indicative, due to inevitable variation of each project from standard details, and should be superseded by project-specific calculations where precision is crirical.

Rev	Description					Date
1	General upda	tes and new data	a.			12/5/21
ALUTARI ITA						

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PROJECT

SMARTWALL - TYPICAL DETAILS

TITLE

WALL BASE ON FLAT RAFT (365+EWI)

CLIENT

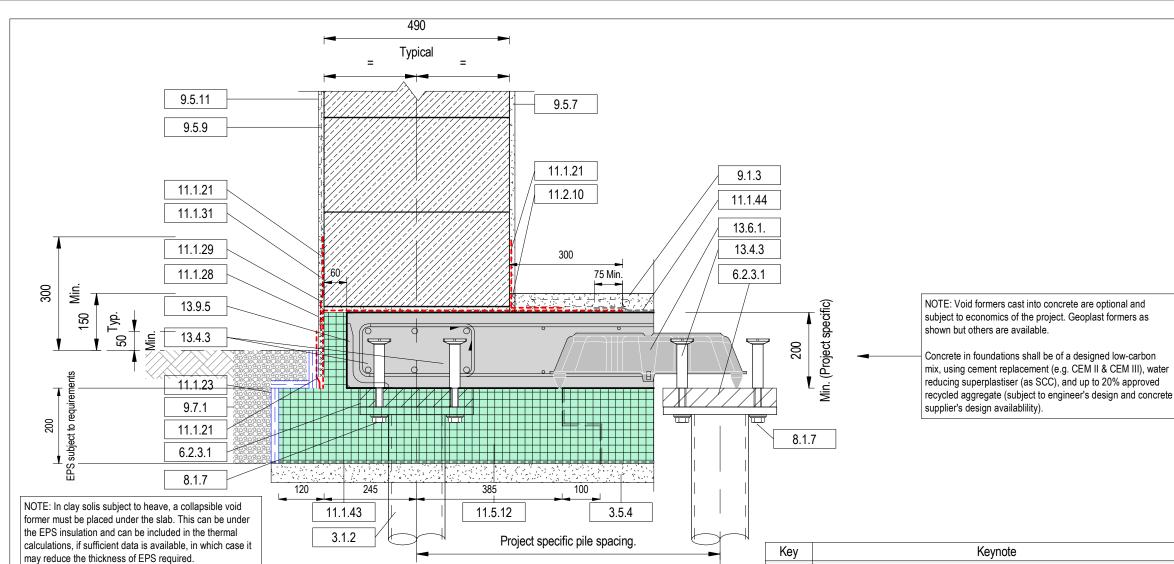
DRAWN BY CHECKED BY DATE RAB 05/10/21

SCALE (@ A3) PROJECT REF. 1:10

DRAWING NUMBER 0000-ESJ-ZZ-00-DR-S - 106

26/05/2021 15:05:01

REV



WALL BASE ON FLAT RAFT FOUNDATION

	U _w	U _f	U _g *	Ψ
	W/m²K	W/m²K	W/m²K	W/mK
1) As shown (200mm EPS under slab)	0.148	0.160	0.122	0.046
2) As 1 + add 100mm EPS under slab	0.148	0.109	0.090	0.080
3) As 2 + add 25 EPS under screed.	0.148	0.101	0.084	0.056

Thermal data based on calculation with b=8m. 50mm concrete screed, Smartwall S7.5 block. Piles not accounted for (project specific) but estimated loss less than approx. 4W per pile. Soil taken as fine-grained (silt).

*Ug calculated in accordance with EN10211 Cl. 12.42 Option A & EN13370 Cl. 7.1 and Annex D.

Values given are indicative, due to inevitable variation of each project from standard details, and should be superseded by project-specific calculations where precision is crirical.

ney	Keynote	
3.1.2	Steel screw piles.	
3.5.4	Lightly compacted granular sub-base material. Min. thickness 150, blinded with sand, to form firm, level and uniform base.	
6.2.3.1	Armatherm 500, with Armatherm bushes and Armatherm washers to all bolts or anchors.	
8.1.7	M20, zinc plated steel Grade 8.8, hex head.	
9.1.3	Liquid self compacting concrete screed, Cemfloor Therm or equivalent. Apply in strict accordance with manufacturer's instructions. Provide all necessary movement joints and joint covers.	
9.5.7	Plaster, lime based.	
9.5.9	External render system with alkali resistant reinforcing mesh at joints edges and transitions, as recommended by manufacturer.	
9.5.11	External decorative finishes as desired. Ensure materials are compatible with render system.	
9.7.1	Anti-splash shingle strip.	
11.1.21	Waterproofing and Radon-resistant membrane, Remmers MB2K (Art. 301408).	
11.1.23	Protective and decoupling sheet, Remmers DS Protect (Art. 082301)	
11.1.28	Cementing mortar, Remmers VM Fill (Art. 051725)	
11.1.29	Rapid setting adhesive felting mortar, Remmers VM Fill Rapid (Art. 051925)	
11.1.31	Mesh render reinforcement, Remmers Tex.	
11.1.43	Generic HDPE membrane 500g	
11.1.44	Visqueen GR SAM self-adhesive DPM and radon membrane for applied in accordance with manufacturer's instructions and minimum lap. Compliant with BS 8102 & BS 8485.	
11.2.10	Rothoblaas Kenaf Band isolating/sealing strip.	
11.5.12	Rigid floor/foundation insulation batts.	
13.4.3	Ancon KSN16S anchorage.	
13.6.1.	Geoplast Nautilus EVO void formers.	
13.9.5	Edge form, Speed-Edge formwork, galvanized steel.	

Rev	Description	Date
1	General updates and new data.	12/5/21

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LOD N/C

MODEL VERSION CODE P00



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PROJECT

SMARTWALL - TYPICAL DETAILS

TITLE

WALL BASE ON FLAT RAFT

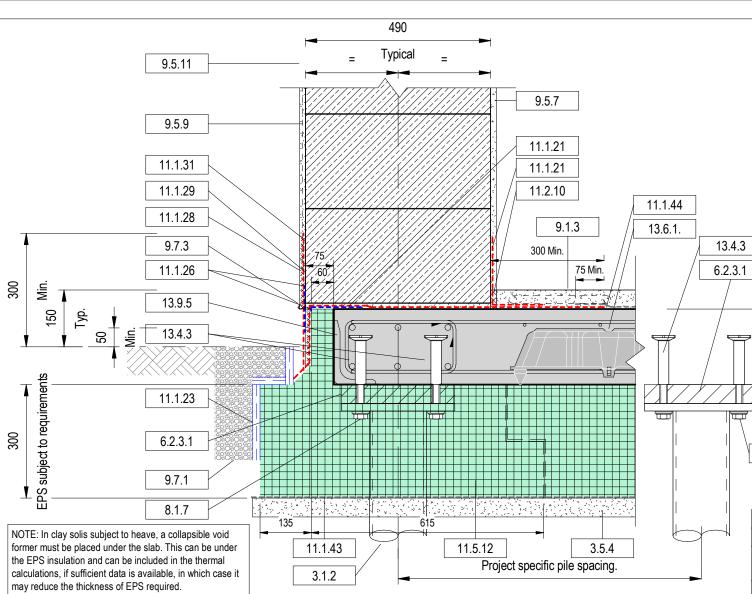
CLIENT

DRAWN BY CHECKED BY DATE RAB 05/12/21 Checker

SCALE (@ A3) 1:10

PROJECT REF. N/C

DRAWING NUMBER 0000-ESJ-ZZ-00-DR-S - 107



NOTE: Void formers cast into concrete are optional and subject to economics of the project. Geoplast formers as shown but others are available.

(Project specific)

200

8.1.7

Concrete in foundations shall be of a designed low-carbon mix, using cement replacement (e.g. CEM II & CEM III), water reducing superplastiser (as SCC), and up to 20% approved recycled aggregate (subject to engineer's design and concrete supplier's design availablility).

WALL BASE ON FLAT RAFT FOUNDATION (PLINTH)

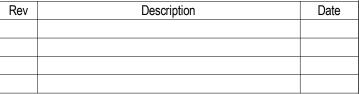
	U _w	U _f	U _g *	Ψ
	W/m²K	W/m²K	W/m²K	W/mK
1) As shown.	0.148	0.109	0.089	0.066
2) As 1 + add 25mm EPS under screed.	0.148	0.101	0.084	0.051
3) As 1 + add 50mm EPS under screed.	0.148	0.094	0.079	0.044

Thermal data based on calculation with b=8m, 50mm concrete screed, Smartwall S7.5 block. Piles not accounted for (project specific) but estimated loss less than approx. 4W per pile. Soil taken as fine-grained (silt).

*Ug calculated in accordance with EN10211 Cl. 12.42 Option A & EN13370 Cl. 7.1 and Annex D.

Values given are indicative, due to inevitable variation of each project from standard details, and should be superseded by project-specific calculations where precision is crirical.

Key	Keynote		
3.1.2	Steel screw piles.		
3.5.4	Lightly compacted granular sub-base material. Min. thickness 150, blinded with sand, to form firm, level and uniform base.		
6.2.3.1	Armatherm 500, with Armatherm bushes and Armatherm washers to all bolts or anchors.		
8.1.7	M20, zinc plated steel Grade 8.8, hex head.		
9.1.3	Liquid self compacting concrete screed, Cemfloor Therm or equivalent. Apply in strict accordance with manufacturer's instructions. Provide all necessary movement joints and joint covers.		
9.5.7	Plaster, lime based.		
9.5.9	External render system with alkali resistant reinforcing mesh at joints edges and transitions, as recommended by manufacturer.		
9.5.11	External decorative finishes as desired. Ensure materials are compatible with render system.		
9.7.1	Anti-splash shingle strip.		
9.7.3	Render stop bead, UV resistant plastic (or stainless steel).		
11.1.21	Waterproofing and Radon-resistant membrane, Remmers MB2K (Art. 301408).		
11.1.23	Protective and decoupling sheet, Remmers DS Protect (Art. 082301)		
11.1.26	Sealing tape, Remmers Tape VF120 (Art. 507101)		
11.1.28	Cementing mortar, Remmers VM Fill (Art. 051725)		
11.1.29	Rapid setting adhesive felting mortar, Remmers VM Fill Rapid (Art. 051925)		
11.1.31	Mesh render reinforcement, Remmers Tex.		
11.1.43	Generic HDPE membrane 500g		
11.1.44	Visqueen GR SAM self-adhesive DPM and radon membrane for applied in accordance with manufacturer's instructions and minimum lap. Compliant with BS 8102 & BS 8485.		
11.2.10	Rothoblaas Kenaf Band isolating/sealing strip.		
11.5.12	Rigid floor/foundation insulation batts.		
13.4.3	Ancon KSN16S anchorage.		
13.6.1.	Geoplast Nautilus EVO void formers.		
13.9.5	Edge form, Speed-Edge formwork, galvanized steel.		



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PROJECT

SMARTWALL - TYPICAL DETAILS

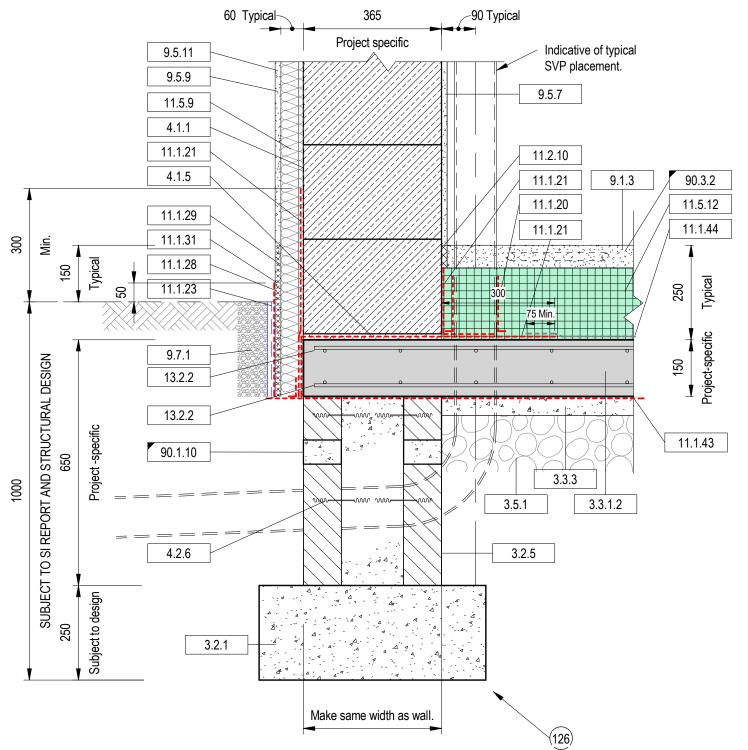
WALL BASE ON FLAT RAFT WITH PLINTH

CLIENT

DRAWN BY CHECKED BY DATE RAB 05/17/21 SCALE (@ A3) PROJECT REF. N/C

1:10 DRAWING NUMBER

0000-ESJ-ZZ-00-DR-S - 108



Key	Keynote		
3.2.1	Mass concrete, Grade FND2 to BS 8500.		
3.2.5	Foundation wall. Construct in concrete blockwork to same o/a thickness as supported wall. Alternatively, lay two leaves of concrete blockwork, to same width as wall, and fill with mass concrete Grade FDN2 to BS 8500. All blocks must be certified suitable for use below ground.		
3.3.1.2	Concrete Grade RC30/37.		
3.3.3	Lean concrete blinding and filling to BS8500, subject to site conditions.		
3.5.1	Well compacted granular sub-base material. Min. thickness 150. Wher the thickness is greater than 500mm, compact in layers not exceeding 250 deep each and lay alternate layers of lean mix concrete.		
4.1.1	Smartwall blocks in thin bed mortar or adhesive,		
4.1.5	Full thickness bed or leveling bed of insulating mortar,		
4.2.6	Flat generic tie with key, stainless steel.		
9.1.3	Liquid self compacting concrete screed, Cemfloor Therm or equivalent Apply in strict accordance with manufacturer's instructions. Provide all necessary movement joints and joint covers.		
9.5.7	Plaster, lime based.		
9.5.9	External render system with alkali resistant reinforcing mesh at joints edges and transitions, as recommended by manufacturer.		
9.5.11	External decorative finishes as desired. Ensure materials are compatible with render system.		
9.7.1	Anti-splash shingle strip.		
11.1.20	'		
11.1.21	Waterproofing and Radon-resistant membrane, Remmers MB2K (Art. 301408).		
11.1.23	Protective and decoupling sheet, Remmers DS Protect (Art. 082301)		
11.1.28	Cementing mortar, Remmers VM Fill (Art. 051725)		
11.1.29	Rapid setting adhesive felting mortar, Remmers VM Fill Rapid (Art. 051925)		
11.1.31	Mesh render reinforcement, Remmers Tex.		
11.1.43	Generic HDPE membrane 500g		
11.1.44	Visqueen GR SAM self-adhesive DPM and radon membrane for applied in accordance with manufacturer's instructions and minimum lap. Compliant with BS 8102 & BS 8485.		
11.2.10	Rothoblaas Kenaf Band isolating/sealing strip.		
11.5.9	Expanded polystyrene batts or boards.		
11.5.12	Rigid floor/foundation insulation batts.		
13.2.2	Flying end mesh fabric Grade B500A, B or C		
90.1.10	Provide rocker pipes and lintels over at horizontal and sloping service penetrations. Pack around pipes with compressible filler.		
90.3.2	Lay heating system pipework in floor.		

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Rev	Description	Date
	Initial release.	14/7/2020
2	DPC/DPM details revised to Remmers system.	18/3/2021
3	General updates and new data.	12/5/21

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SMARTWALL - TYPICAL DETAILS

TITLE

WALL BASE ON STRIP FOOTING

CLIENT

DRAWN BY CHECKED BY DATE 07/15/20

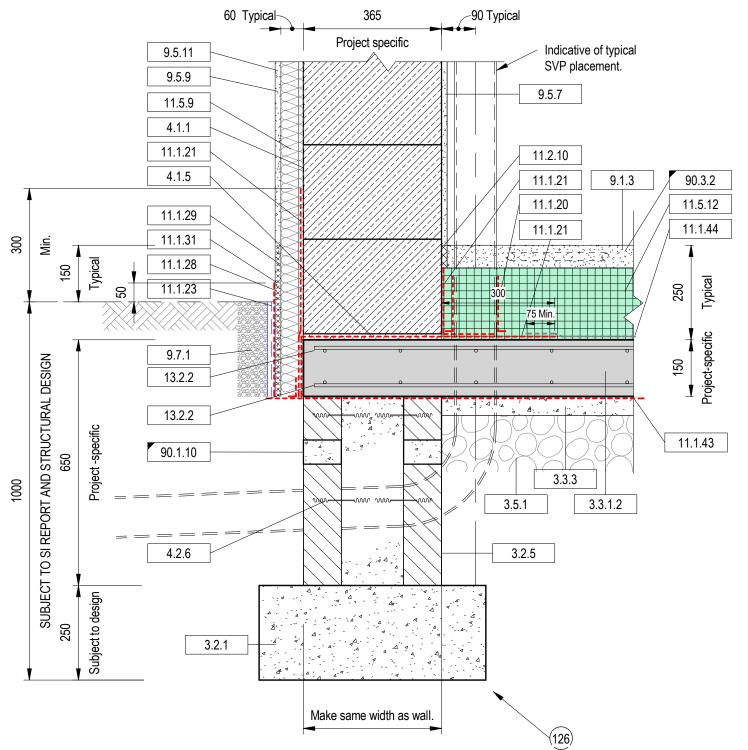
PROJECT REF. N/C SCALE (@ A3) 1:10

0000-ESJ-ZZ-00-DR-S - 109

3

Alternative plinth detail exists - see raft foundation option, Drawing 104. WALL BASE ON STRIP FOUNDATION

1:10



Key	Keynote		
3.2.1	Mass concrete, Grade FND2 to BS 8500.		
3.2.5	Foundation wall. Construct in concrete blockwork to same o/a thickness as supported wall. Alternatively, lay two leaves of concrete blockwork, to same width as wall, and fill with mass concrete Grade FDN2 to BS 8500. All blocks must be certified suitable for use below ground.		
3.3.1.2	Concrete Grade RC30/37.		
3.3.3	Lean concrete blinding and filling to BS8500, subject to site conditions.		
3.5.1	Well compacted granular sub-base material. Min. thickness 150. Wher the thickness is greater than 500mm, compact in layers not exceeding 250 deep each and lay alternate layers of lean mix concrete.		
4.1.1	Smartwall blocks in thin bed mortar or adhesive,		
4.1.5	Full thickness bed or leveling bed of insulating mortar,		
4.2.6	Flat generic tie with key, stainless steel.		
9.1.3	Liquid self compacting concrete screed, Cemfloor Therm or equivalent Apply in strict accordance with manufacturer's instructions. Provide all necessary movement joints and joint covers.		
9.5.7	Plaster, lime based.		
9.5.9	External render system with alkali resistant reinforcing mesh at joints edges and transitions, as recommended by manufacturer.		
9.5.11	External decorative finishes as desired. Ensure materials are compatible with render system.		
9.7.1	Anti-splash shingle strip.		
11.1.20	'		
11.1.21	Waterproofing and Radon-resistant membrane, Remmers MB2K (Art. 301408).		
11.1.23	Protective and decoupling sheet, Remmers DS Protect (Art. 082301)		
11.1.28	Cementing mortar, Remmers VM Fill (Art. 051725)		
11.1.29	Rapid setting adhesive felting mortar, Remmers VM Fill Rapid (Art. 051925)		
11.1.31	Mesh render reinforcement, Remmers Tex.		
11.1.43	Generic HDPE membrane 500g		
11.1.44	Visqueen GR SAM self-adhesive DPM and radon membrane for applied in accordance with manufacturer's instructions and minimum lap. Compliant with BS 8102 & BS 8485.		
11.2.10	Rothoblaas Kenaf Band isolating/sealing strip.		
11.5.9	Expanded polystyrene batts or boards.		
11.5.12	Rigid floor/foundation insulation batts.		
13.2.2	Flying end mesh fabric Grade B500A, B or C		
90.1.10	Provide rocker pipes and lintels over at horizontal and sloping service penetrations. Pack around pipes with compressible filler.		
90.3.2	Lay heating system pipework in floor.		

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Rev	Description	Date
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2	DPC/DPM details revised to Remmers system.	18/3/2021
3	General updates and new data.	12/5/21

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SMARTWALL - TYPICAL DETAILS

TITLE

WALL BASE ON STRIP FOOTING

CLIENT

DRAWN BY CHECKED BY DATE 07/15/20

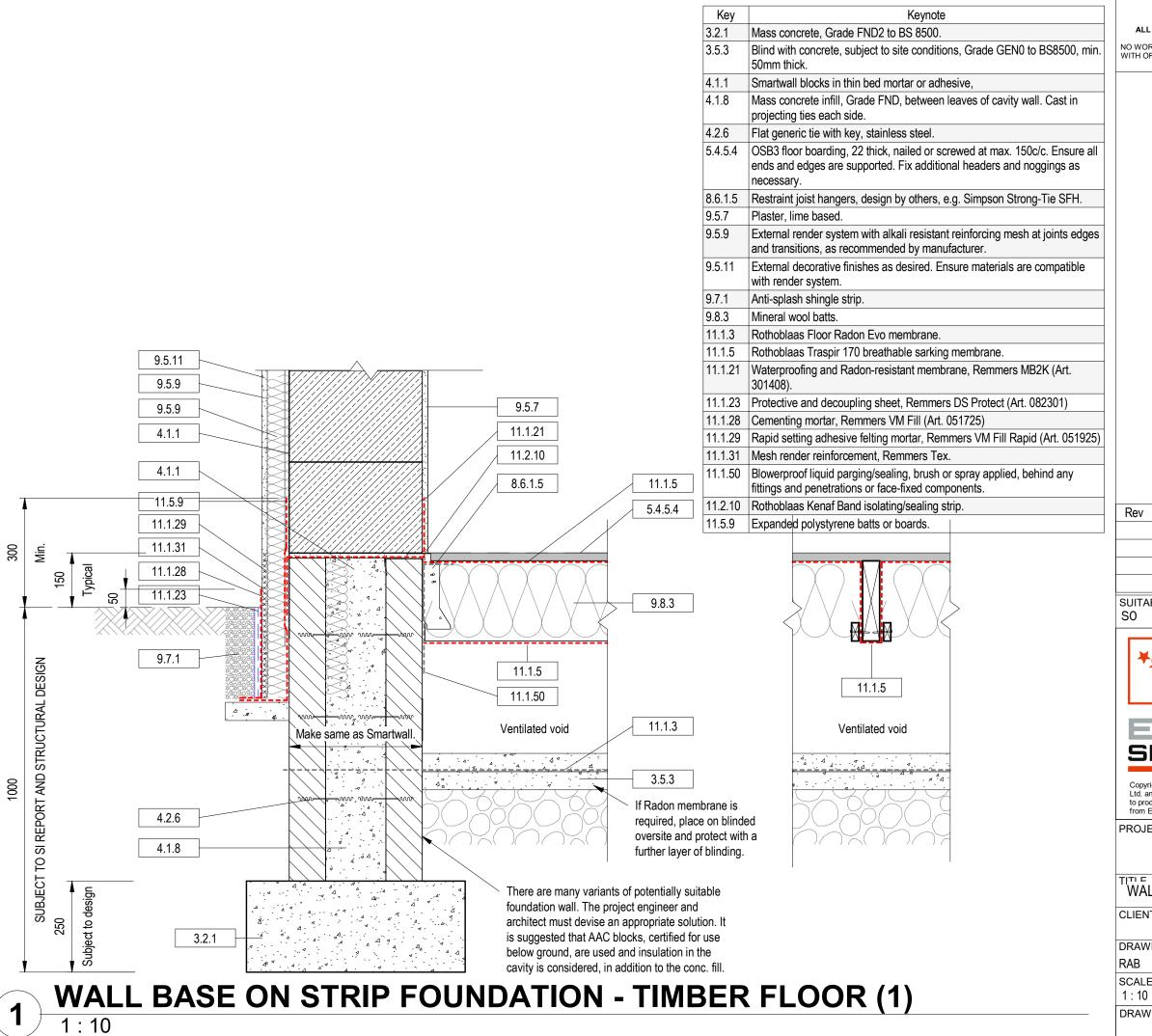
PROJECT REF. N/C SCALE (@ A3) 1:10

0000-ESJ-ZZ-00-DR-S - 109

3

Alternative plinth detail exists - see raft foundation option, Drawing 104. WALL BASE ON STRIP FOUNDATION

1:10



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PROJECT

SMARTWALL - TYPICAL DETAILS

WALL BASE ON STRIP FOOTING - TIMBER FLOOR (1)

REV

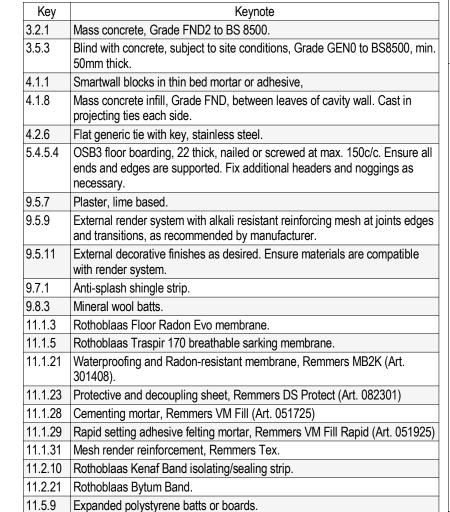
CLIENT

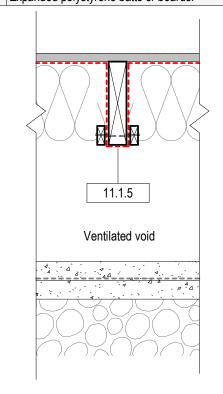
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SCALE (@ A3) PROJECT REF. N/C

DRAWING NUMBER 0000-ESJ-ZZ-00-DR-S - 110

17/06/2021 10:17:57





		9.5.9	11.1.23
		9.5.9	11.1.28
		4.1.1	11.1.29
		11.2.10	11.1.31
		4.1.1	11.2.10
		11.1.5	11.2.21
7		11.5.9	11.5.9
		11.1.29	
300	ië T	11.1.31	
ñ	Za	11.1.28	
	150 Typical	11.1.23	
4	20 1	Make same as Smartwall 9.8.3	
•		www. www. www.	
	IGN	9.7.1	
	DES		
	AL [11.2.21	
	TUR.	Ventilated void 11.1.3	
	SUC		
	STE	4 4 4 4 4 4	
1000	QN4	3.5.3	
7	RT.	If Radon membra	ne is
	EPO :	required, place or	
	<u> </u>	oversite and prote further layer of bli	
	10;	idituler layer of bil	nung.
	SUBJECT TO SI REPORT AND STRUCTURAL DESIGN 0 o design	There are many variants of potentially s	suitable
	SUBJEC 250 ct to design	foundation wall. The project engineer at	nd
	SU 250 x to d	architect must devise an appropriate so	
	v v	is suggested that AAC blocks, certified	tor use

WALL BASE ON STRIP FOUNDATION - TIMBER FLOOR (2)

cavity is considered, in addition to the conc. fill.

below ground, are used and insulation in the

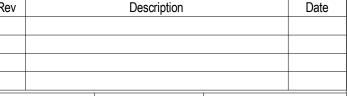
1:10

9.5.11

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PROJECT

SMARTWALL - TYPICAL DETAILS

WALL BASE ON STRIP FOOTING - TIMBER FLOOR (2)

CLIENT

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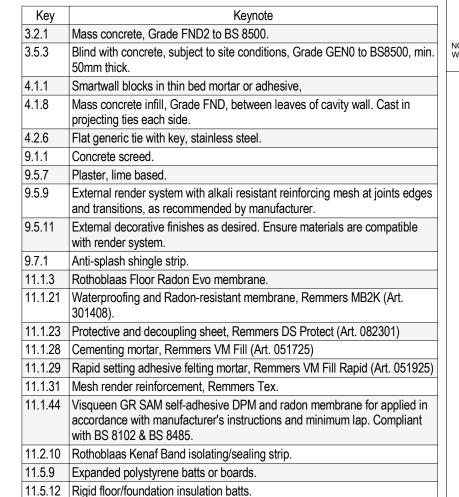
SCALE (@ A3) 1:10

PROJECT REF. N/C

DRAWING NUMBER 0000-ESJ-ZZ-00-DR-S - 111

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PROJECT

SMARTWALL - TYPICAL DETAILS

WALL BASE ON STRIP FOOTING - BEAM & BLOCK

CLIENT

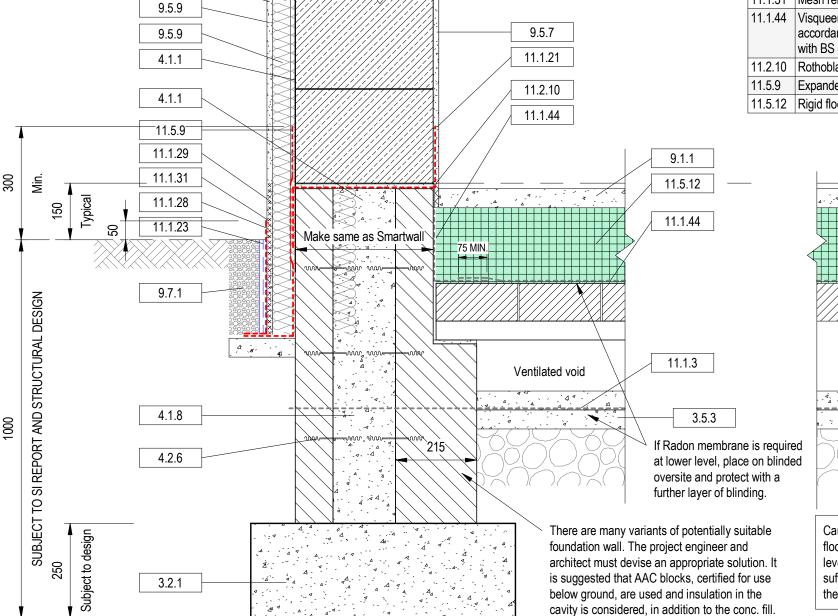
DRAWN BY CHECKED BY DATE RAB 06/17/21

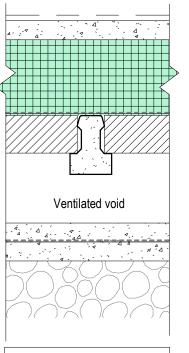
SCALE (@ A3) 1:10

PROJECT REF. N/C

DRAWING NUMBER 0000-ESJ-ZZ-00-DR-S - 112

REV

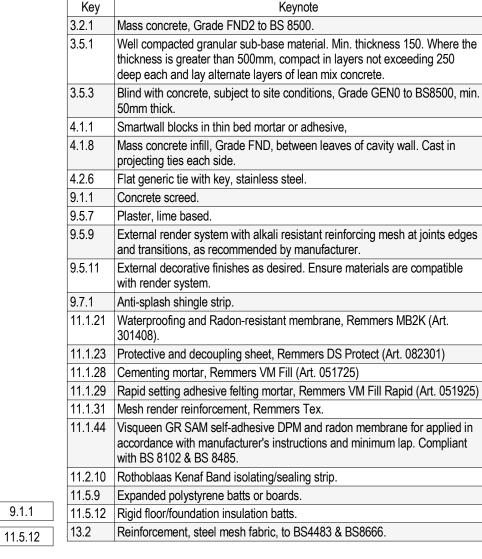




Caution: Beam and block floors can be very irregular in level. Ensure that there is sufficient screed to regulate the levels adequately.

WALL BASE ON STRIP FOUNDATION - BEAM & BLOCK

9.5.11



	į į	3.2.1	Mass concrete, Grade FND2 to BS 8500.
	3	3.5.1	Well compacted granular sub-base material. Min. thickness 150. Where the thickness is greater than 500mm, compact in layers not exceeding 250 deep each and lay alternate layers of lean mix concrete.
	3	3.5.3	Blind with concrete, subject to site conditions, Grade GEN0 to BS8500, min. 50mm thick.
	4	4.1.1	Smartwall blocks in thin bed mortar or adhesive,
	2	4.1.8	Mass concrete infill, Grade FND, between leaves of cavity wall. Cast in projecting ties each side.
	4	4.2.6	Flat generic tie with key, stainless steel.
	9	9.1.1	Concrete screed.
	9	9.5.7	Plaster, lime based.
	ξ	9.5.9	External render system with alkali resistant reinforcing mesh at joints edges and transitions, as recommended by manufacturer.
	S	9.5.11	External decorative finishes as desired. Ensure materials are compatible with render system.
	9	9.7.1	Anti-splash shingle strip.
^	1	11.1.21	Waterproofing and Radon-resistant membrane, Remmers MB2K (Art. 301408).
	1	11.1.23	Protective and decoupling sheet, Remmers DS Protect (Art. 082301)
	1	11.1.28	Cementing mortar, Remmers VM Fill (Art. 051725)
9.5.7	1	11.1.29	Rapid setting adhesive felting mortar, Remmers VM Fill Rapid (Art. 051925)
11.1.21	_1	11.1.31	Mesh render reinforcement, Remmers Tex.
	1	11.1.44	Visqueen GR SAM self-adhesive DPM and radon membrane for applied in
11.2.10			accordance with manufacturer's instructions and minimum lap. Compliant with BS 8102 & BS 8485.
11.1.44	1	11.2.10	Rothoblaas Kenaf Band isolating/sealing strip.
		11.5.9	Expanded polystyrene batts or boards.
	9.1.1	11.5.12	Rigid floor/foundation insulation batts.
	1 14540	13.2	Reinforcement steel mesh fabric to RS4483 & RS8666

11.1.44

13.2

3.5.3

3.5.1

There are many variants of potentially suitable

foundation wall. The project engineer and architect must devise an appropriate solution. It is suggested that AAC blocks, certified for use

below ground, are used and insulation in the cavity is considered, in addition to the conc. fill. Rev Date Description

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PROJECT

SO

SMARTWALL - TYPICAL DETAILS

WALL BASE ON STRIP FOOTING - GRD BRG SLAB

CLIENT

DRAWN BY CHECKED BY DATE RAB 06/17/21

SCALE (@ A3) PROJECT REF. N/C 1:10

DRAWING NUMBER 0000-ESJ-ZZ-00-DR-S - 113

REV

1:10

Subject to design

300

Min.

SUBJECT TO SI REPORT AND STRUCTURAL DESIGN

150

Typical

20

9.5.11 9.5.9 9.5.9 4.1.1

4.1.1

⁻11.5.9⁻ 11.1.29

11.1.31

11.1.28

11.1.23

9.7.1

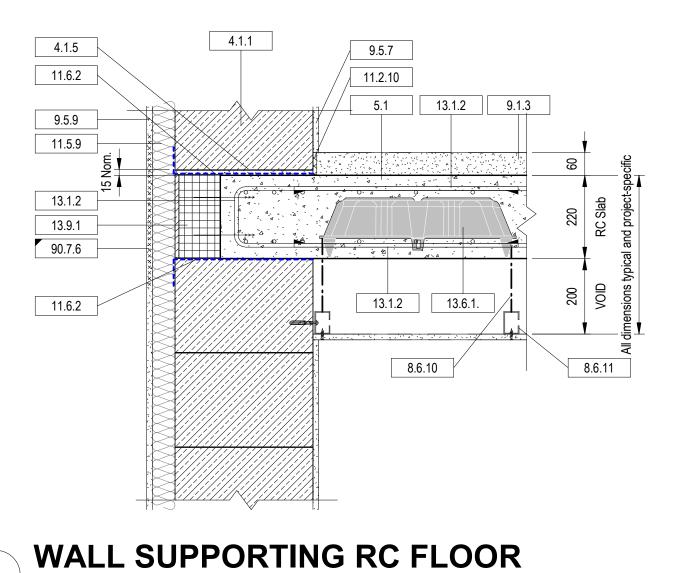
4.1.8

4.2.6

3.2.1

Make same as Smartwall

17/06/2021 13:46:02



	U _w		Ψ
	W/m²K		W/mK
1) As shown - 365 Smartwall + 60 EWI.	0.147		0.035
2) 490 Smartwall, no EWI.	0.148		0.067

Thermal data based on calculation with d_{min}=1.2m, 50mm concrete screed, Smartwall S7.5 block.

Values given are indicative, due to inevitable variation of each project from standard details, and should be superseded by project-specific calculations where precision is crirical.

Key	Keynote
4.1.1	Smartwall blocks in thin bed mortar or adhesive,
4.1.5	Full thickness bed or leveling bed of insulating mortar,
5.1	Reinforced concrete slab, concrete to BS 8500.
8.6.10	Ceiling hanger rod system fixed to slab or beams. Use elastically isolating type to limit acoustic transmission.
8.6.11	Ceiling hanger channel system fixed to adjustable hangers.
9.1.3	Liquid self compacting concrete screed, Cemfloor Therm or equivalent. Apply in strict accordance with manufacturer's instructions. Provide all necessary movement joints and joint covers.
9.5.7	Plaster, lime based.
9.5.9	External render system with alkali resistant reinforcing mesh at joints edges and transitions, as recommended by manufacturer.
11.2.10	Rothoblaas Kenaf Band isolating/sealing strip.
11.5.9	Expanded polystyrene batts or boards.
11.6.2	Monaflor Wall Cap 400 felt, cut to suit. Turn down wall faces and clip in all separating floors.
13.1.2	Reinforcement Grade B500B or C.
13.6.1.	Geoplast Nautilus EVO void formers.
13.9.1	Juwö DRE Edge former system. Size and type to suit structural thickness and thermal requirements.
90.7.6	Additional band of mesh reinforcement in render at transitions, junctions and joints.

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Rev	Description	Date
	Initial release.	14/7/2020
	General updates and new data.	12/5/21

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PROJECT

SMARTWALL - TYPICAL DETAILS

TITLE

WALL SUPPORTING RC FLOOR

CLIENT

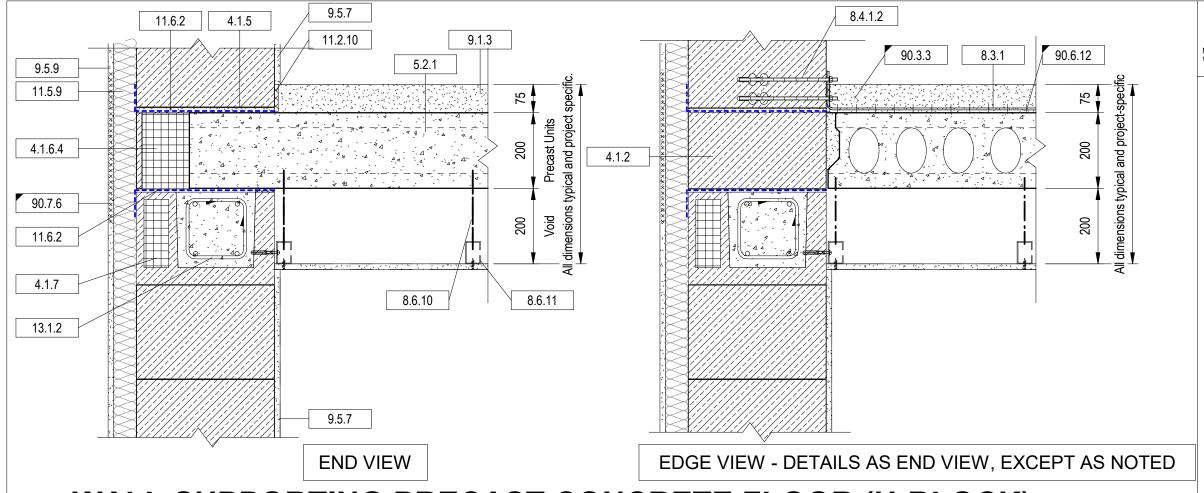
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SCALE (@ A3) 1:10

PROJECT REF. N/C

DRAWING NUMBER 0000-ESJ-ZZ-00-DR-S - 201

REV



WALL SUPPORTING PRECAST CONCRETE FLOOR (U-BLOCK)

Key	Keynote
4.1.2	Smartwall blocks, half course blocks, in thin bed mortar or adhesive
4.1.5	Full thickness bed or leveling bed of insulating mortar,
4.1.6.4	DeRa-Schale 20 Ultra.
4.1.7	Smartwall U-Block units with RC beam cast in,
5.2.1	Hollow core units.
8.3.1	27.5mm x 5mm galvanized steel perforated strap.
8.4.1.2	Mungo MIT-S (Art. 1720811) M8 x 110 rod, MIT-SH-K2 sleeve (Art. 1710145).
8.6.10	Ceiling hanger rod system fixed to slab or beams. Use elastically isolating type to limit acoustic transmission.
8.6.11	Ceiling hanger channel system fixed to adjustable hangers.
9.1.3	Liquid self compacting concrete screed, Cemfloor Therm or equivalent. Apply in strict accordance with manufacturer's instructions. Provide all necessary movement joints and joint covers.
9.5.7	Plaster, lime based.
9.5.9	External render system with alkali resistant reinforcing mesh at joints edges and transitions, as recommended by manufacturer.
11.2.10	Rothoblaas Kenaf Band isolating/sealing strip.
11.5.9	Expanded polystyrene batts or boards.
11.6.2	Monaflor Wall Cap 400 felt, cut to suit. Turn down wall faces and clip in all separating floors.
13.1.2	Reinforcement Grade B500B or C.
90.3.3	Where structural units are cambered (pre-cast hollow-core units), ensure depth of screed is sufficient to accommodate variation in depth along camber whilst maintaining minimum thickness.
90.6.12	Plug and screw restraint straps to top of units at max. 1200mm c/c and anchor bolt to wall with two fixings per strap. Min strap length 1000mm and min 12g x 60 screws per stap into units.
90.7.6	Additional band of mesh reinforcement in render at transitions, junctions and joints.

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Rev	Description	Date
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2	General updates and new data.	12/5/21

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PROJECT

SMARTWALL - TYPICAL DETAILS

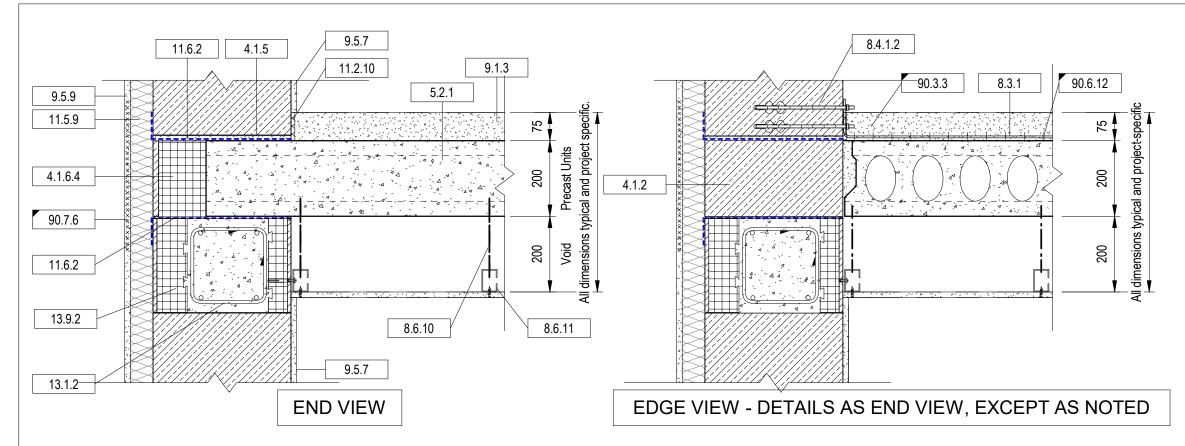
WALL SUPPORTING PRECAST FLOOR (U-BLOCK)

CLIENT

DRAWN BY CHECKED BY DATE RAB 15/7/2020

SCALE (@ A3) PROJECT REF. 1:10

DRAWING NUMBER 0000-ESJ-ZZ-00-DR-S - 202



WALL SUPPORTING PRECAST CONCRETE FLOOR (DRE)

Key	Keynote
4.1.2	Smartwall blocks, half course blocks, in thin bed mortar or adhesive
4.1.5	Full thickness bed or leveling bed of insulating mortar,
4.1.6.4	DeRa-Schale 20 Ultra.
5.2.1	Hollow core units.
8.3.1	27.5mm x 5mm galvanized steel perforated strap.
8.4.1.2	Mungo MIT-S (Art. 1720811) M8 x 110 rod, MIT-SH-K2 sleeve (Art. 1710145).
8.6.10	Ceiling hanger rod system fixed to slab or beams. Use elastically isolating type to limit acoustic transmission.
8.6.11	Ceiling hanger channel system fixed to adjustable hangers.
9.1.3	Liquid self compacting concrete screed, Cemfloor Therm or equivalent. Apply in strict accordance with manufacturer's instructions. Provide all necessary movement joints and joint covers.
9.5.7	Plaster, lime based.
9.5.9	External render system with alkali resistant reinforcing mesh at joints edges and transitions, as recommended by manufacturer.
11.2.10	Rothoblaas Kenaf Band isolating/sealing strip.
11.5.9	Expanded polystyrene batts or boards.
11.6.2	Monaflor Wall Cap 400 felt, cut to suit. Turn down wall faces and clip in all separating floors.
13.1.2	Reinforcement Grade B500B or C.
13.9.2	Juwö DRE+ Edge former system. Size and type to suit structural thickness and thermal requirements. Comprising inside and outside units and RC Grade C30/37 beam infill.
90.3.3	Where structural units are cambered (pre-cast hollow-core units), ensure depth of screed is sufficient to accommodate variation in depth along camber whilst maintaining minimum thickness.
90.6.12	Plug and screw restraint straps to top of units at max. 1200mm c/c and anchor bolt to wall with two fixings per strap. Min strap length 1000mm and min 12g x 60 screws per stap into units.
90.7.6	Additional band of mesh reinforcement in render at transitions, junctions and joints.

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<u>)</u>	General updates and new data.	12/5/21

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PROJECT

SMARTWALL - TYPICAL DETAILS

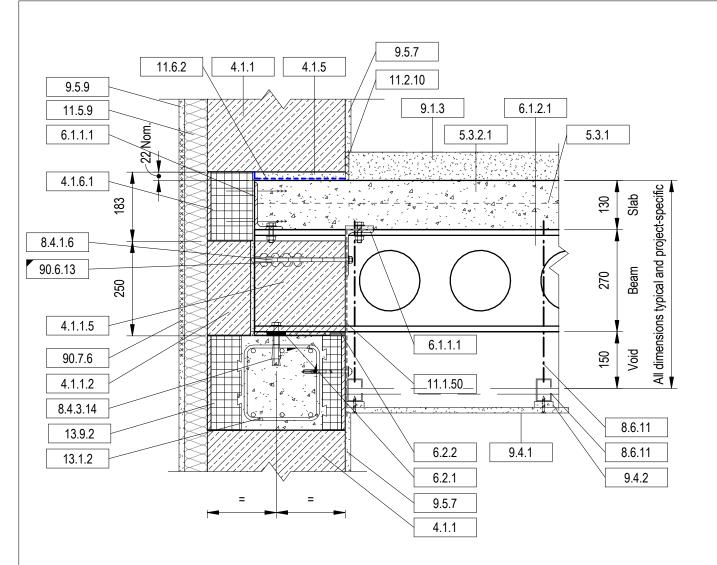
WALL SUPPORTING PRECAST FLOOR (DRE)

CLIENT

DRAWN BY CHECKED BY DATE RAB 15/7/2020 SCALE (@ A3) PROJECT REF.

1:10

DRAWING NUMBER REV 0000-ESJ-ZZ-00-DR-S - 203



Key	Keynote
4.1.1	Smartwall blocks in thin bed mortar or adhesive,
4.1.1.2	115mm thick.
4.1.1.5	190mm thick.
4.1.5	Full thickness bed or leveling bed of insulating mortar,
4.1.6.1	DeRa-Schale 18 Plus.
5.3.1	Profiled metal decking.
5.3.2.1	130mm thick.
6.1.1.1	125x75x8L.
6.1.2.1	Cellular beam, Grade S355 steel according to design and details and fabricator's/manufacturer's details.
6.2.1	Beam bearing on steel shim, min. 50 wide, Surround in bedding grout.
6.2.2	Resilient strip of bituminous felt or foam at bearing, nom. 40 wide.
8.4.1.6	Mungo MIT-S (Art. 1721015) M10 x 150 rod, MIT-SH-K2 sleeve (Art. 1710150).
8.4.3.14	Mungo M1t (Art. 3601212) M12 x 120/20
8.6.11	Ceiling hanger channel system fixed to adjustable hangers.
9.1.3	Liquid self compacting concrete screed, Cemfloor Therm or equivalent. Apply in strict accordance with manufacturer's instructions. Provide all necessary movement joints and joint covers.
9.4.1	Min. 30 minute fire resisting ceiling construction, based on gypsum or similar boards on metal framing system.
9.4.2	Fibre-cement or Fermacell strips to close joints. Detials by specialist contractor.
9.5.7	Plaster, lime based.
9.5.9	External render system with alkali resistant reinforcing mesh at joints edges and transitions, as recommended by manufacturer.
11.1.50	Blowerproof liquid parging/sealing, brush or spray applied, behind any fittings and penetrations or face-fixed components.
11.2.10	Rothoblaas Kenaf Band isolating/sealing strip.
11.5.9	Expanded polystyrene batts or boards.
11.6.2	Monaflor Wall Cap 400 felt, cut to suit. Turn down wall faces and clip in all separating floors.
13.1.2	Reinforcement Grade B500B or C.
13.9.2	Juwö DRE+ Edge former system. Size and type to suit structural thickness and thermal requirements. Comprising inside and outside units and RC Grade C30/37 beam infill.
90.6.13	Position anchor bolts at nom. 500c/c. Steelwork must be pre-drilled. Do not fix into joints or close to edge of blocks.
90.7.6	Additional band of mesh reinforcement in render at transitions, junctions and joints.

WALL SUPPORTING STEEL FRAMED FLOOR - 1

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SUITABLITY SO	/ LOD N/C	MODEL VERSION CODE POO
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Description

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PROJECT

SMARTWALL - TYPICAL DETAILS

TITLE WALL SUPPORTING STEEL FRAMED FLOOR (1)

DRAWN BY CHECKED BY DATE RAB 15/7/2020

SCALE (@ A3) PROJECT REF. 1:10

0000-ESJ-ZZ-00-DR-S - 204

26/05/2021 15:05:04

REV

SMARTWAL

Initial release.

General updates and new data.

Tel: +44 (0)1691 707 100 info@evolvedsupplies.co.uk

Date

14/7/2020

12/5/21

CLIENT

DRAWING NUMBER

-22 Nom.		•
		8
183		130 ct-specific
4.1.1.2		200 270 130 All dimensions typical and project-specific
4.1.7	11.1.50	200 All dimensic
<u> </u>	Not recommended for walls with less than 365mm thick blocks.	

Key	Keynote
4.1.1.2	115mm thick.
4.1.7	Smartwall U-Block units with RC beam cast in,
11.1.50	Blowerproof liquid parging/sealing, brush or spray applied, behind any
	fittings and penetrations or face-fixed components.

WALL SUPPORTING STEEL FRAMED FLOOR - 2

1:10

ALL NOTES AND DETAILS AS GENERAL DETAIL, DRAWING 204, EXCEPT AS SHOWN.

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Rev	Description	Date	
1	Initial release.	14/7/2020	
2	General updates and new data.	12/5/21	

SUITABLITY S0

LOD N/C MODEL VERSION CODE P00



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PROJECT

SMARTWALL - TYPICAL DETAILS

TITLE WALL SUPPORTING STEEL FRAMED FLOOR (2)

CLIENT

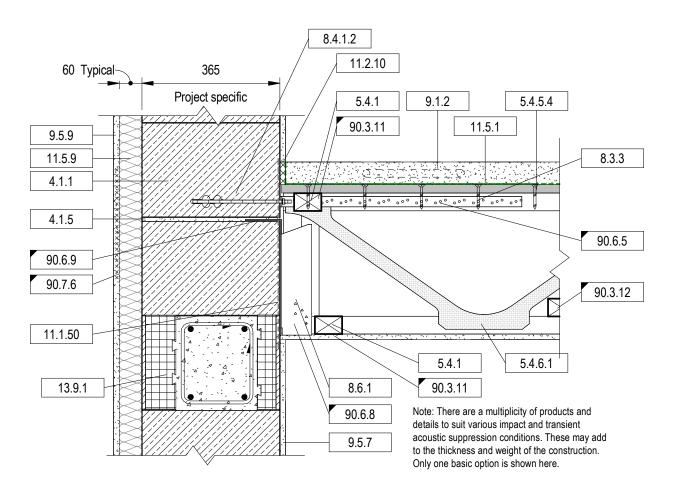
DRAWN BY CHECKED BY DATE RAB 15/7/2020

SCALE (@ A3) PROJECT REF. 1:10

0000-ESJ-ZZ-00-DR-S - 205

26/05/2021 15:07:49

DRAWING NUMBER



WALL SUPPORTING TIMBER FLOOR - 1

	U _w		Ψ
	W/m²K		W/mK
1) 365 Smartwall + 60 EWI - no DRE.	0.147		≈ 0
2) As 1 + DRE ring beam under.	0.147		0.021
3) 490 Smartwall, no EWI.	0.148		≈ 0
4) As 3 + DRE ring beam under.	0.148		0.030

Thermal data based on calculation with d_{min}=1.2m, 50mm concrete screed, Smartwall S7.5 block.

Values given are indicative, due to inevitable variation of each project from standard details, and should be superseded by project-specific calculations where precision is crirical.

Key	Keynote
4.1.1	Smartwall blocks in thin bed mortar or adhesive,
4.1.5	Full thickness bed or leveling bed of insulating mortar,
5.4.1	Timber, softwood.
5.4.5.4	OSB3 floor boarding, 22 thick, nailed or screwed at max. 150c/c. Ensure all ends and edges are supported. Fix additional headers and noggings as necessary.
5.4.6.1	Metal web joists, design and details by specialist supplier, spacing as shown.
8.3.3	27.5mm x 2.55mm galvanized steel perforated strap.
8.4.1.2	Mungo MIT-S (Art. 1720811) M8 x 110 rod, MIT-SH-K2 sleeve (Art. 1710145).
8.6.1	Joist hanger.
9.1.2	Anhydrite screed, Gypsol TimBRE or equivalent. Apply in strict accordance with manufacturer's instructions. Provide all necessary movement joints and joint covers.
9.5.7	Plaster, lime based.
9.5.9	External render system with alkali resistant reinforcing mesh at joints edges and transitions, as recommended by manufacturer.
11.1.50	Blowerproof liquid parging/sealing, brush or spray applied, behind any fittings and penetrations or face-fixed components.
11.2.10	Rothoblaas Kenaf Band isolating/sealing strip.
11.5.1	Floor screed PE isolation/uncoupling membrane, or Termofol UFH underlay for enhanced performance.
11.5.9	Expanded polystyrene batts or boards.
13.9.1	Juwö DRE Edge former system. Size and type to suit structural thickness and thermal requirements.
90.3.11	Fix edge noggings to wall to joists using Z-clips as manufacturer's instructions.
90.3.12	Fix strong-backs as manufacturer's instructions and fix strap over at least 3(No.) joists.
90.6.5	Fix straps both sides, screw/nail to timber as manufacturer's instructions and anchor bolt to masonry. For fixings larger than holes, carefully re-drill holes to suit (Carry out on bench with strap clamped down or in vice and suitable drill),
90.6.8	Nail and/or screw fitting in accordance with manufacturer's instructions. Fix all holes by default, unless specified to the contrary.
90.6.9	Where hangers are not face fixed, grind/rasp out recess in block below tail of hanger, or position in full mortar bed joint, min 10mm thick. Completely embed tail in grout/mortar. Parge wall before fitting hanger and seal/parge around components after fitting. For face-fixed hangers seal/parge similalrly, but see engineer's details for fixings.
90.7.6	Additional band of mesh reinforcement in render at transitions, junctions and joints.

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Rev	Description	Date
	Initial release.	14/7/2020
2	General updates and new data.	12/5/21

SUITABLITY LOD MODEL VERSION CODE N/C S0 P00

EVOLVED SUPPLIES LTD 4 Firs Close, St Martins, SY11 3LT Tel: +44 (0)1691 707 100 info@evolvedsupplies.co.uk

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PROJECT

SMARTWALL - TYPICAL DETAILS

TITLE

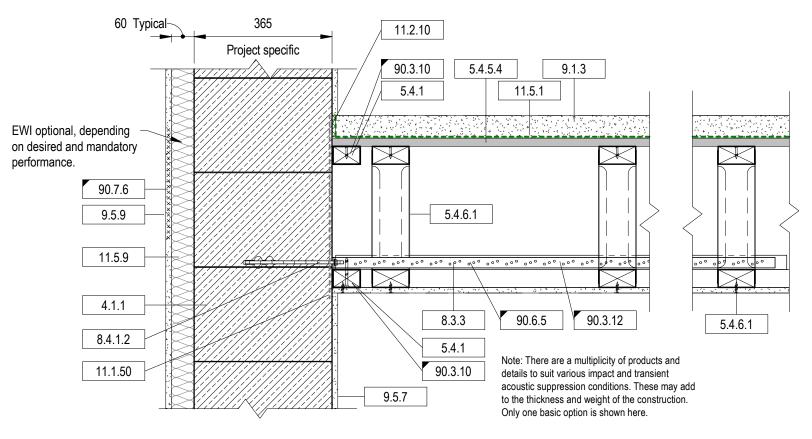
WALL SUPPORTING TIMBER FLOOR (1)

CLIENT

DRAWN BY CHECKED BY DATE RAB 07/15/20

SCALE (@ A3) PROJECT REF. 1:10

DRAWING NUMBER REV 0000-ESJ-ZZ-00-DR-S - 206



WALL SUPPORTING TIMBER FLOOR - 2

Key	Keynote
4.1.1	Smartwall blocks in thin bed mortar or adhesive,
5.4.1	Timber, softwood.
5.4.5.4	OSB3 floor boarding, 22 thick, nailed or screwed at max. 150c/c. Ensure all ends and edges are supported. Fix additional headers and noggings as necessary.
5.4.6.1	Metal web joists, design and details by specialist supplier, spacing as shown.
8.3.3	27.5mm x 2.55mm galvanized steel perforated strap.
8.4.1.2	Mungo MIT-S (Art. 1720811) M8 x 110 rod, MIT-SH-K2 sleeve (Art. 1710145).
9.1.3	Liquid self compacting concrete screed, Cemfloor Therm or equivalent. Apply in strict accordance with manufacturer's instructions. Provide all necessary movement joints and joint covers.
9.5.7	Plaster, lime based.
9.5.9	External render system with alkali resistant reinforcing mesh at joints edges and transitions, as recommended by manufacturer.
11.1.50	Blowerproof liquid parging/sealing, brush or spray applied, behind any fittings and penetrations or face-fixed components.
11.2.10	Rothoblaas Kenaf Band isolating/sealing strip.
11.5.1	Floor screed PE isolation/uncoupling membrane, or Termofol UFH underlay for enhanced performance.
11.5.9	Expanded polystyrene batts or boards.
90.3.10	Fix edge noggings to wall to support flooring and ceiling.
90.3.12	Fix strong-backs as manufacturer's instructions and fix strap over at least 3(No.) joists.
90.6.5	Fix straps both sides, screw/nail to timber as manufacturer's instructions and anchor bolt to masonry. For fixings larger than holes, carefully re-drill holes to suit (Carry out on bench with strap clamped down or in vice and suitable drill),
90.7.6	Additional band of mesh reinforcement in render at transitions, junctions and joints.

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O	D. 1370 /		
1	General upda	tes and new data.	12/5/21
Rev		Description	Date

SUITABLITY LOD MODEL VERSION CODE N/C S0 P00



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PROJECT

SMARTWALL - TYPICAL DETAILS

TITLE

WALL SUPPORTING TIMBER FLOOR (2)

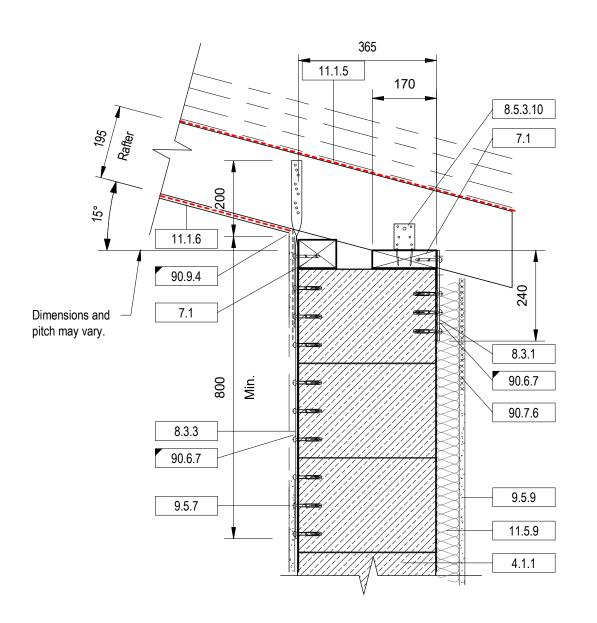
CLIENT

DRAWN BY CHECKED BY DATE RAB 07/18/20

REV

SCALE (@ A3) PROJECT REF. N/C 1:10

DRAWING NUMBER 0000-ESJ-ZZ-00-DR-S - 207



Key	Keynote
4.1.1	Smartwall blocks in thin bed mortar or adhesive,
7.1	Timber, softwood.
8.3.1	27.5mm x 5mm galvanized steel perforated strap.
8.3.3	27.5mm x 2.55mm galvanized steel perforated strap.
8.5.3.10	Rothoblaas NOWB0070 angle.
9.5.7	Plaster, lime based.
9.5.9	External render system with alkali resistant reinforcing mesh at joints edges and transitions, as recommended by manufacturer.
11.1.5	Rothoblaas Traspir 170 breathable sarking membrane.
11.1.6	Rothoblaas Barrier Alu 150 membrane.
11.5.9	Expanded polystyrene batts or boards.
90.6.7	Fix strap to face at max 1m c/c, screw/nail to timber as manufacturer's instructions and plug & screw to masonry.
90.7.6	Additional band of mesh reinforcement in render at transitions, junctions and joints.
90.9.4	Tape all edges and laps.

WALL PLATE AT EAVES - VAULTED ROOF

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Rev	Description	Date	
	Initial release.	14/7/2020	
2	General updates and new data.	12/5/21	

LOD N/C SUITABLITY MODEL VERSION CODE



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PROJECT

SMARTWALL - TYPICAL DETAILS

TITLE

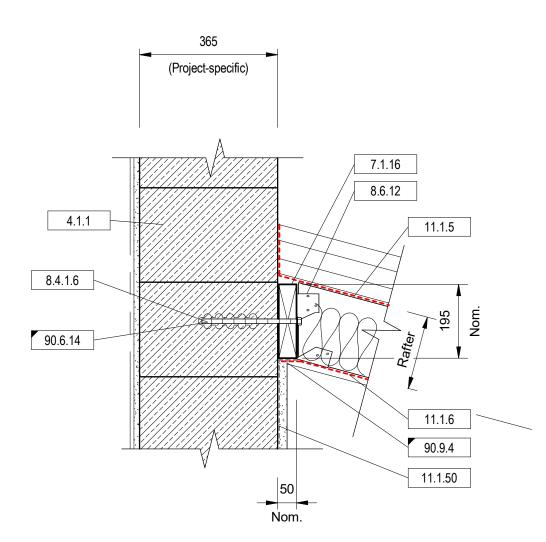
RAFTER BEARING ON SMARTWALL

CLIENT

DRAWN BY CHECKED BY DATE 15/7/2020

SCALE (@ A3) PROJECT REF. 1:10

DRAWING NUMBER 0000-ESJ-ZZ-00-DR-S - 301



Key	Keynote
4.1.1	Smartwall blocks in thin bed mortar or adhesive,
7.1.16	Ledger, SW Grade C24.
8.4.1.6	Mungo MIT-S (Art. 1721015) M10 x 150 rod, MIT-SH-K2 sleeve (Art. 1710150).
8.6.12	Cullen VRC variable ridge connector, handing to suit.
11.1.5	Rothoblaas Traspir 170 breathable sarking membrane.
11.1.6	Rothoblaas Barrier Alu 150 membrane.
11.1.50	Blowerproof liquid parging/sealing, brush or spray applied, behind any fittings and penetrations or face-fixed components.
90.6.14	Position anchor bolts at max. 250c/c. Do not fix into joints or close to edge of blocks. Stagger rows where possible.
90.9.4	Tape all edges and laps.

	Initial release.	14/7/2020
	General updates and new data.	12/5/21

Date

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PROJECT

Rev

SMARTWALL - TYPICAL DETAILS

TITLE RAFTER BEARING ON SMARTWALL - LEDGER

CLIENT

DRAWN BY CHECKED BY DATE RAB 15/7/2020

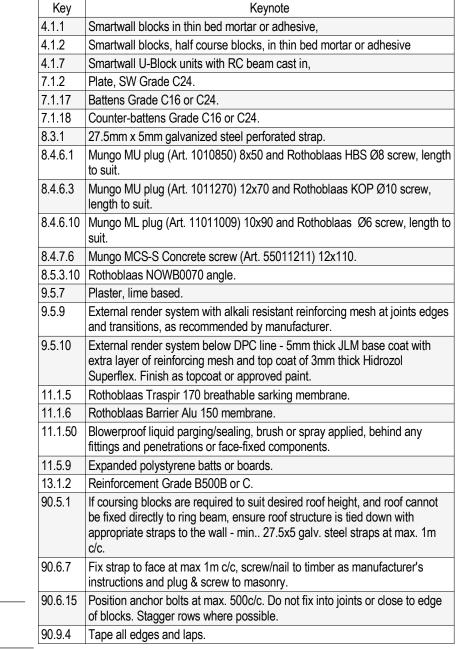
SCALE (@ A3) PROJECT REF. N/C 1:10

DRAWING NUMBER 0000-ESJ-ZZ-00-DR-S - 302

26/05/2021 15:05:07

RAFTER SUPPORT ON LEDGER

REV



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Rev	Description	Date
	Initial release.	14/7/2020
	General updates and new data.	12/5/21

SUITABLITY S0

N/C

MODEL VERSION CODE



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PROJECT

SMARTWALL - TYPICAL DETAILS

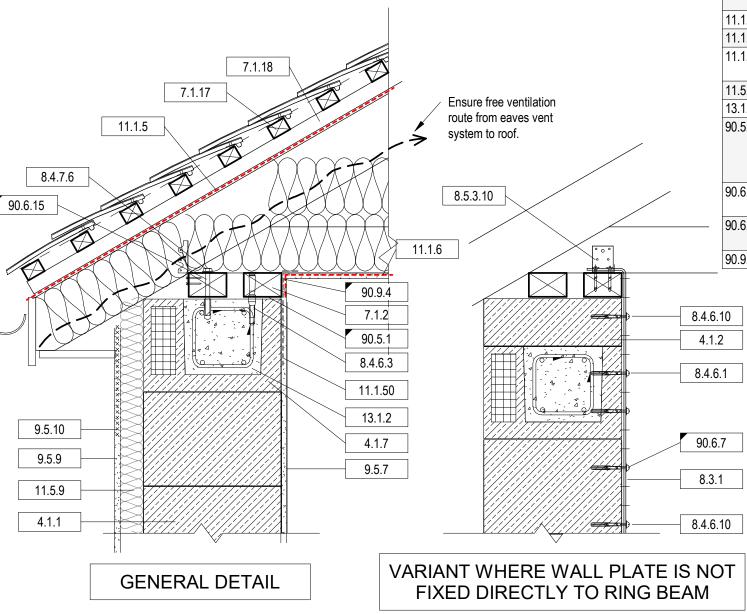
WALL SUPPORTING TRUSS-RAFTERS (COLD ROOF)

CLIENT

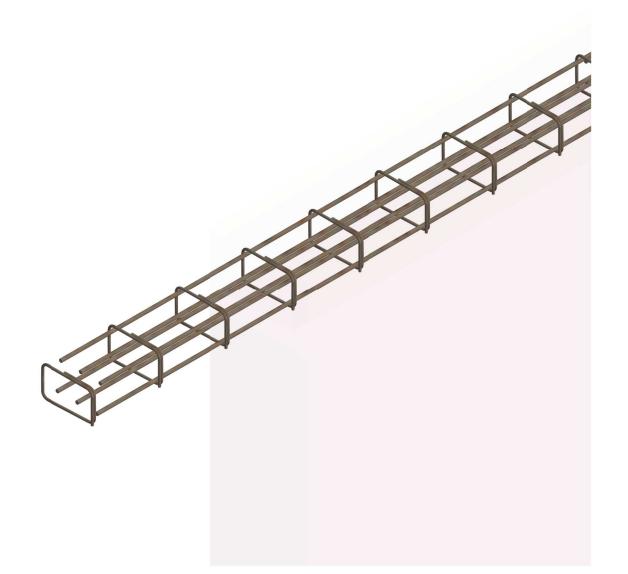
DRAWN BY **CHECKED BY** DATE 15/7/2020

SCALE (@ A3) PROJECT REF. N/C 1:10

0000-ESJ-ZZ-00-DR-S - 303



1:10



TYPICAL RING BEAM REINFORCEMENT - 365 SMARTWALL

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WITH OR CROSS REFERENCED BY IT UNTIL BUILDING REGULATIONS APPROVAL OR SER CERTIFICATION HAS BEEN GRANTED.

THIS DETAIL APPLIES TO SMARTWALL WITH U-BLOCK WITH THICKNESS OF SMARTWALL 365 AND GREATER.

OTHER SMARTWALL THICKNESSES SIMILAR BUT AS DETAILED ELSEWHERE.

Rev	Description	Date
	Initial release.	14/7/2020
2	General updates and new data.	12/5/21

SUITABLITY S0

LOD N/C

MODEL VERSION CODE P00



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PROJECT

SMARTWALL - TYPICAL DETAILS

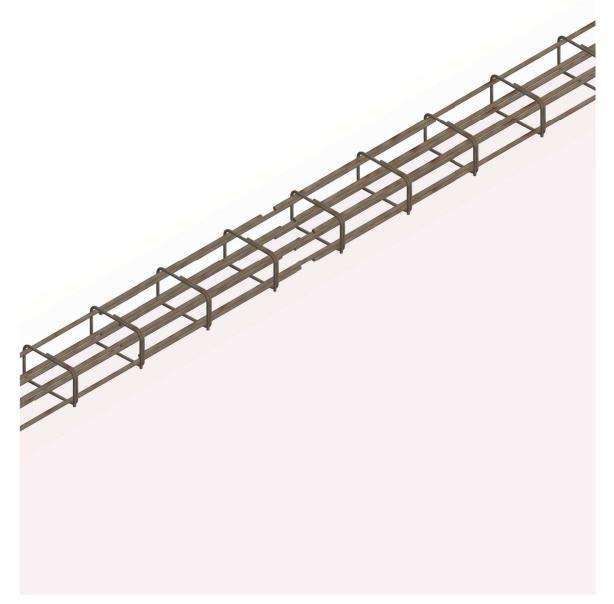
RING BEAM REINFORCEMENT - 365 SMARTWALL

CLIENT

CHECKED BY DRAWN BY DATE RAB 15/7/2020

SCALE (@ A3) PROJECT REF.

DRAWING NUMBER 0000-ESJ-ZZ-00-DR-S - 501



RING BEAM REINFORCEMENT LAP - 365 SMARTWALL

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THIS DETAIL APPLIES TO SMARTWALL WITH U-BLOCK WITH THICKNESS OF SMARTWALL 365 AND GREATER.

OTHER SMARTWALL THICKNESSES SIMILAR BUT AS DETAILED ELSEWHERE.

Rev	Description	Date
	Initial release.	14/7/2020
<u>)</u>	General updates and new data.	12/5/21

SUITABLITY

LOD N/C

MODEL VERSION CODE P00



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PROJECT

SMARTWALL - TYPICAL DETAILS

RING BEAM REINFORCEMENT - 365 SMARTWALL

CLIENT

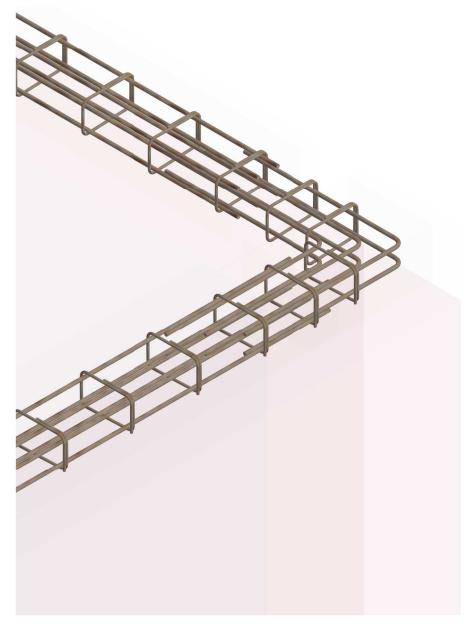
DRAWN BY CHECKED BY DATE RAB 15/7/2020

SCALE (@ A3) PROJECT REF.

0000-ESJ-ZZ-00-DR-S - 502

26/05/2021 15:05:20

DRAWING NUMBER



TYPICAL RING BEAM CORNER - 365 SMARTWALL

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WITH OR CROSS REFERENCED BY IT UNTIL BUILDING REGULATIONS APPROVAL OR SER CERTIFICATION HAS BEEN GRANTED.

THIS DETAIL APPLIES TO SMARTWALL WITH U-BLOCK WITH THICKNESS OF SMARTWALL 365 AND GREATER.

OTHER SMARTWALL THICKNESSES SIMILAR BUT AS DETAILED ELSEWHERE.

Rev	Description	Date
	Initial release.	14/7/2020
<u>)</u>	General updates and new data.	12/5/21

SUITABLITY

LOD N/C

MODEL VERSION CODE



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PROJECT

SMARTWALL - TYPICAL DETAILS

RING BEAM REINFORCEMENT - 365 SMARTWALL

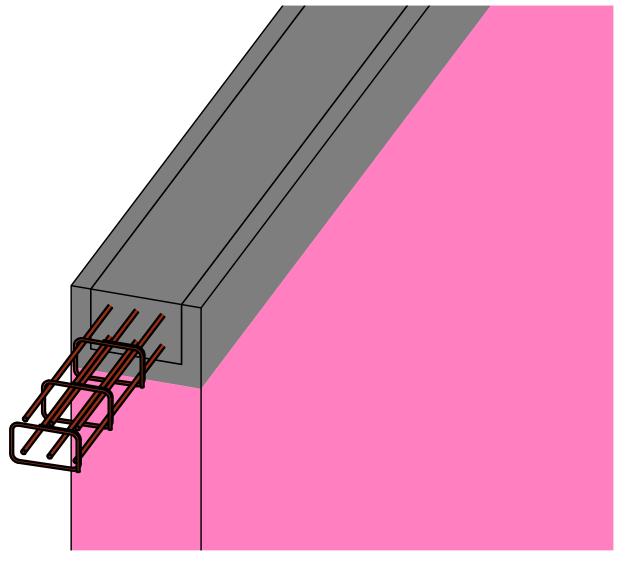
CLIENT

DRAWN BY CHECKED BY DATE RAB 15/7/2020

SCALE (@ A3)

PROJECT REF.

DRAWING NUMBER 0000-ESJ-ZZ-00-DR-S - 503



TYPICAL U-BLOCK RING BEAM - 365 SMARTWALL

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THIS DETAIL APPLIES TO SMARTWALL WITH U-BLOCK WITH THICKNESS OF SMARTWALL 365 AND GREATER.

Rev	Description	Date
	Initial release.	14/7/2020
<u>)</u>	General updates and new data.	12/5/21

LOD N/C SUITABLITY MODEL VERSION CODE SO P00



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PROJECT

SMARTWALL - TYPICAL DETAILS

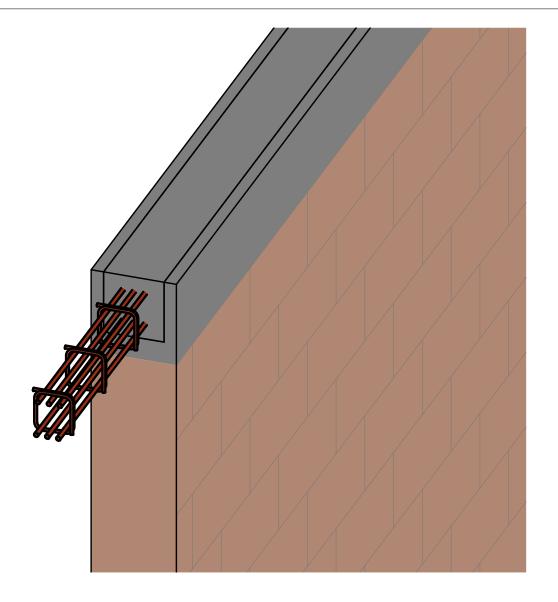
RING BEAM ON TOP OF WALL - 365 SMARTWALL

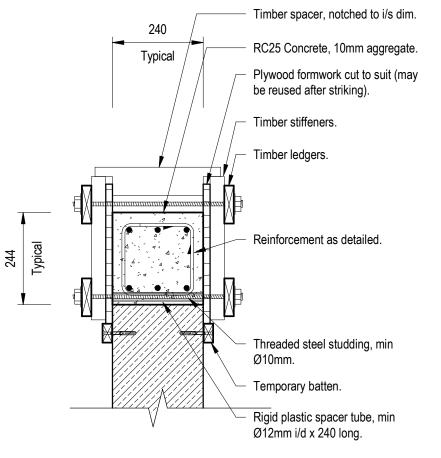
CLIENT

DRAWN BY CHECKED BY DATE RAB 15/7/2020

SCALE (@ A3) PROJECT REF.

DRAWING NUMBER 0000-ESJ-ZZ-00-DR-S - 504 REV





TYPICAL U-BLOCK RING BEAM - 240 SMARTWALL

FORMED RING BEAM -TYPICAL CROSS SECTION

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THIS DETAIL APPLIES TO SMARTWALL WITH U-BLOCK WITH THICKNESS OF SMARTWALL 240 AND LESS.

NOTE THAT, DEPENDING ON PROJECT REQUIREMENTS, THE U-BLOCK MAY BE OF INSUFFICIENT WIDTH TO ACCOMODATE THE REINFORCEMENT, IN WHICH CASE, THE FORMED RING BEAM, DETAIL 2, MUST BE USED. WITH APPROPRIATE PLANNING AND CARPENTRY, MOST PARTS OF THE FORMS CAN BE REUSED. WHERE STOP ENDS ARE REQUIRED BETWEEN POURS, THESE MAY BE FORMED AGAINST AN EML (E.G. HYRIB) SHEET FITTED INSIDE THE FORM AND HELD IN PLACE TO FORM A VERTICAL

Rev	Description	Date
	Initial release.	14/7/2020
2	General updates and new data.	12/5/21

SUITABLITY MODEL VERSION CODE S0 N/C P00



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PROJECT

SMARTWALL - TYPICAL DETAILS

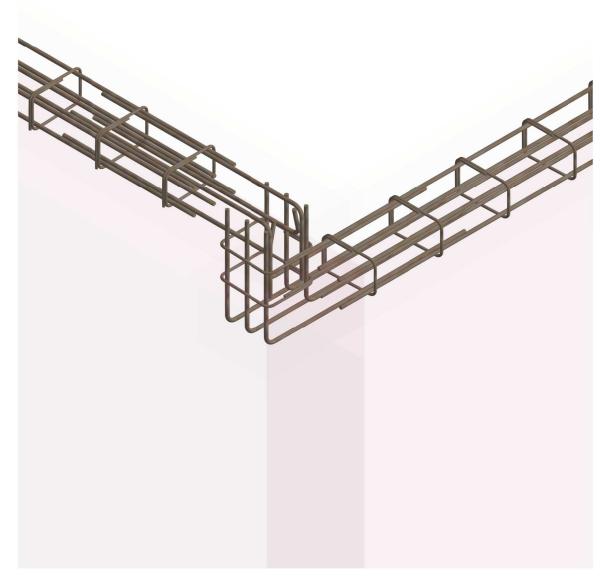
U-BLOCK RING BEAM - 240 SMARTWALL

CLIENT

DRAWN BY CHECKED BY DATE 15/7/2020

SCALE (@ A3) PROJECT REF. 1:10

DRAWING NUMBER 0000-ESJ-ZZ-00-DR-S - 505



TYPICAL RING BEAM STEP - 365 SMARTWALL

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WITH OR CROSS REFERENCED BY IT UNTIL BUILDING REGULATIONS APPROVAL OR SER CERTIFICATION HAS BEEN GRANTED.

THIS DETAIL APPLIES TO SMARTWALL WITH U-BLOCK WITH THICKNESS OF SMARTWALL 365 AND GREATER.

OTHER SMARTWALL THICKNESSES SIMILAR BUT AS DETAILED ELSEWHERE.

Rev	Description	Date
	Initial release.	14/7/2020
	General updates and new data.	12/5/21

LOD N/C SUITABLITY SO

MODEL VERSION CODE P00



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PROJECT

SMARTWALL - TYPICAL DETAILS

TITLE

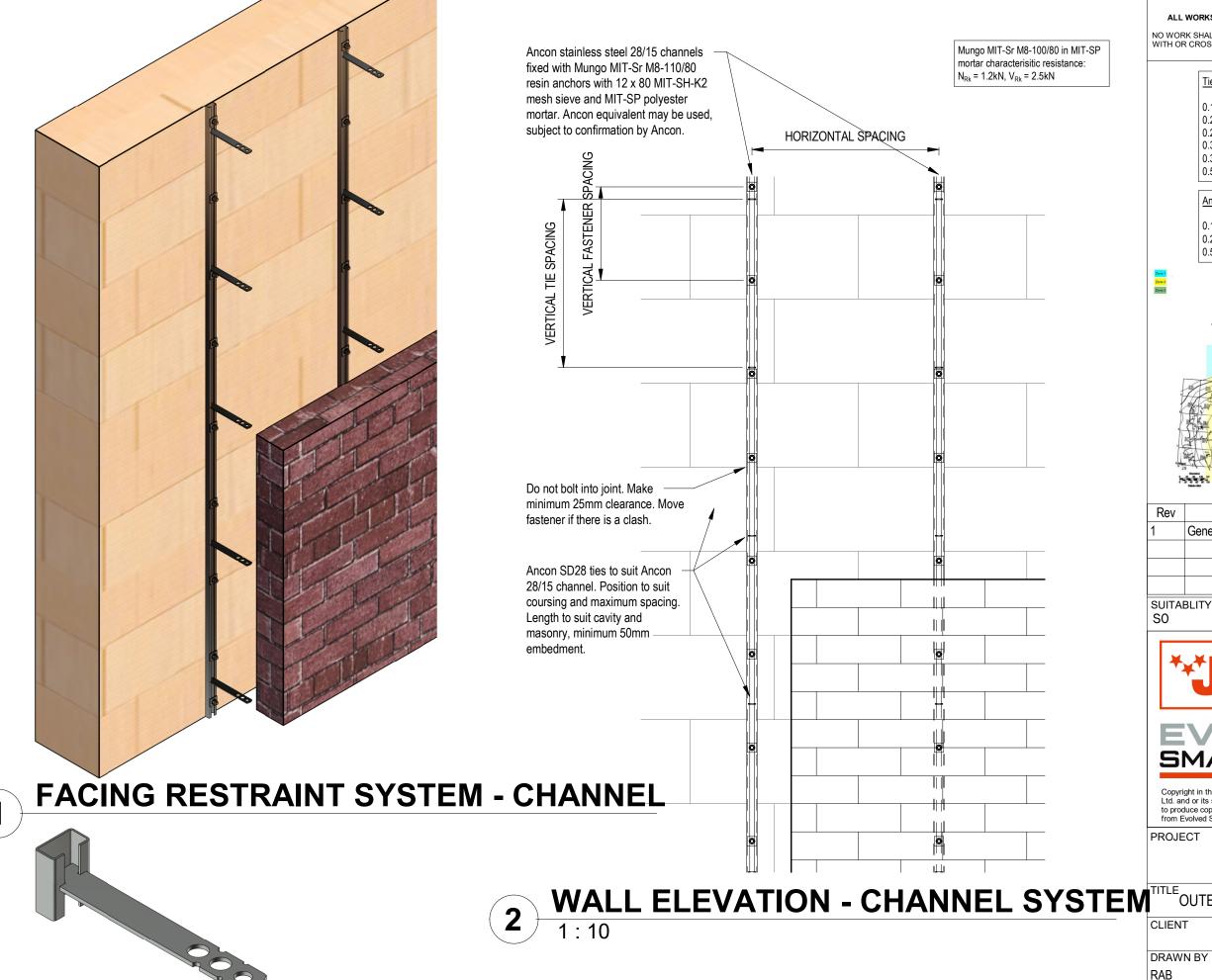
RING BEAM STEP - 365 SMARTWALL

CLIENT

DRAWN BY CHECKED BY DATE RAB 15/7/2020

SCALE (@ A3) PROJECT REF.

DRAWING NUMBER 0000-ESJ-ZZ-00-DR-S - 506



CHANNEL ARRANGEMENT

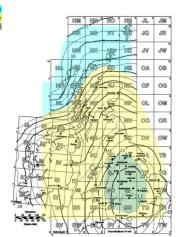
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Tie spaci	ng permitted	in geogrphi	c UK zone	s:
-	0.25	0.50	0.75	1.00
0.150	1, 2 & 3	1, 2 & 3	1 & 2	1
0.225	1, 2 & 3	1 & 2	1	NO
0.250	1, 2 & 3	1	NO	NO
0.300	1, 2 & 3	1	NO	NO
0.375	1 & 2	1	NO	NO
0.500	1 & 2	1	NO	NO

Anchor spacing permitted in geogrphic UK zones:				
	0.25	0.50	0.75	1.00
0.125	1, 2 & 3	1, 2 & 3	1, 2 & 3	1, 2 & 3
0.250	1, 2 & 3	1, 2 & 3	1 & 2	1 & 2
0.500	1, 2 & 3	1	NO	NO



In the above tables: The first column contains the vertical spacing. The top row contains the horizontal spacing. All units are metres.

Rev	Description	Date
1	General updates and new data.	12/5/21

LOD N/C MODEL VERSION CODE



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SMARTWALL - TYPICAL DETAILS

OUTER LEAF RESTRAINT - CHANNEL SYSTEM

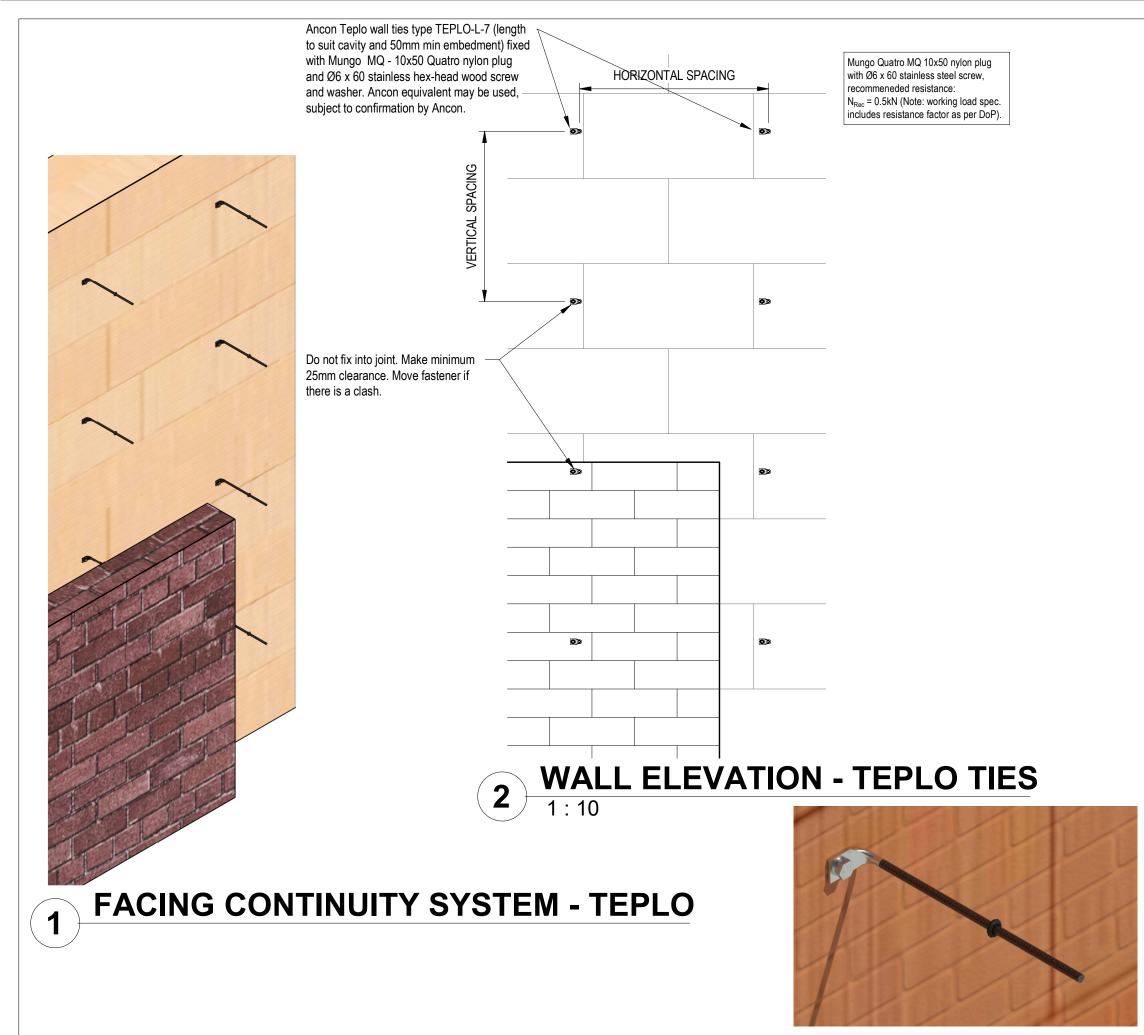
DRAWN BY CHECKED BY DATE RAB 05/11/21 Checker

SCALE (@ A3) 1:10

PROJECT REF. N/C

DRAWING NUMBER 0000-ESJ-ZZ-00-DR-S - 601

NOTE: THESE DETAILS ARE FOR HORIZONTAL RESTRAINT TO OUTER LEAF OF MASONRY ONLY. VERTICAL LOADS ARE TO BE SUPPORTED SEPARATELY - REFER TO PROJECT STRUCTURAL ENGINEER.

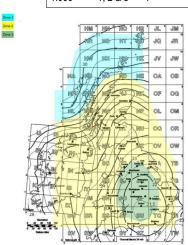


TEPLO ARRANGEMENT

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Tie spac	ing permitted	in geogrphi	c UK zones:	
	0.25	0.50	0.75	1.00
0.250	1, 2 & 3	1, 2 & 3	1, 2 & 3	1, 2 & 3
0.500	1, 2 & 3	1, 2 & 3	1	1
0.750	1, 2 & 3	1	NO	NO
1.000	1.2 & 3	1	NO	NO



In the above tables: The first column contains the vertical spacing. The top row contains the horizontal spacing. All units are metres.

Rev	Description	Date
1	General updates and new data.	12/5/21

SUITABLITY

LOD N/C MODEL VERSION CODE



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PROJECT

SMARTWALL - TYPICAL DETAILS

TITLE

OUTER LEAF RESTRAINT - TEPLO SYSTEM

CLIENT

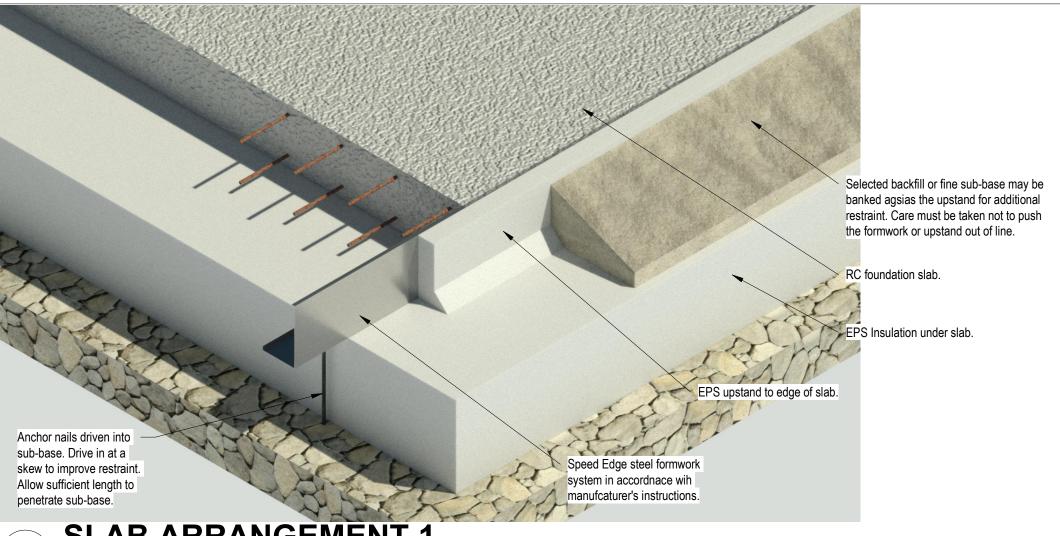
DRAWN BY CHECKED BY DATE
RAB 05/11/21

SCALE (@ A3) PROJECT REF.
As indicated N/C

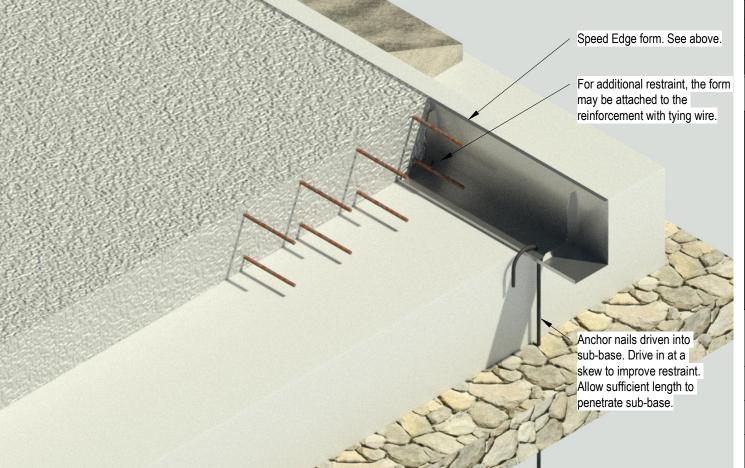
DRAWING NUMBER 0000-ESJ-ZZ-00-DR-S - 602

1

29/05/2021 11:08:46



SLAB ARRANGEMENT 1



SLAB ARRANGEMENT 2

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1761	Description	Date

SUITABLITY SO LOD N/C MODEL VERSION CODE



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PROJECT

SMARTWALL - TYPICAL DETAILS

TITLE

SLAB EDGE FORMING

CLIENT

DRAWN BY CHECKED BY DATE 05/26/21

SCALE (@ A3) 1:1

PROJECT REF.

DRAWING NUMBER 0000-ESJ-ZZ-00-DR-S - 603

29/05/2021 11:08:46

Notes	





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