

Approved Building Consent Documents

Please Note: A copy of the stamped approved documents must be available on site for all inspections.

Inspection booking timeframes

Call received	before 3pm inspection will be done	after 3pm inspection will be done
Monday	Wednesday	Thursday
Tuesday	Thursday	Friday
Wednesday	Friday	Monday
Thursday	Monday	Tuesday
Friday	Tuesday	Wednesday

Building inspections and enquiries phone: 03 347 2839

Please ensure all work for inspection is ready the day before. Incomplete work requiring re-inspection will incur an additional inspection fee.

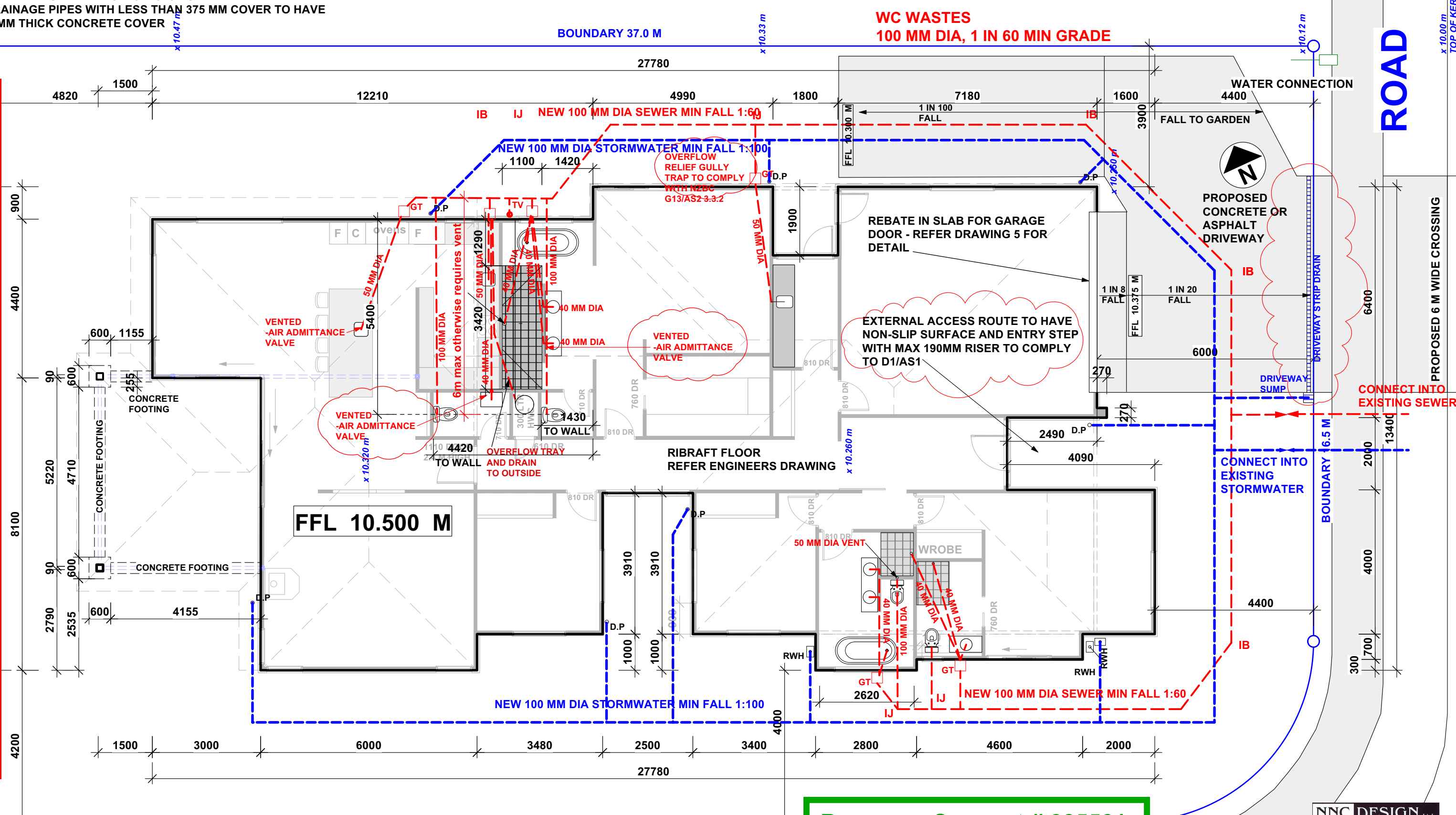
DRAINAGE PIPES
 -PIPE MATERIAL TO BE uPVC
 - SW AND SEWER PIPE TO BE SURROUNDED WITH COMPACTED GRANULAR BEDDING AS PER NZBC FIG 7 G13 AS2.
 -ALL PIPES UNDER DRIVEWAY TO HAVE COMPACTED HARDFILL AS PER NZBC FIG 7 G13 AS2.
 -DRAINAGE PIPES WITH LESS THAN 375 MM COVER TO HAVE 75 MM THICK CONCRETE COVER

PLUMBING AND DRAINAGE TO COMPLY WITH NZBC G13 FOUL WATER

**IB= INSPECTION BEND
 IJ= INSPECTION JUNCTION
 TV= TERMINAL VENT**

SHOWER,VANITIES,BATH WASTES 40 MM DIA, 1 IN 40 MIN GRADE
LAUNDRY, KITCHEN WASTE 65 MM DIA, 1 IN 40 MIN GRADE
WC WASTES 100 MM DIA, 1 IN 60 MIN GRADE

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LOT 765 ROSEMERRY SUBDIVISION, LINCOLN
 SITE AREA = 790 M2
 FLOOR AREA = 300 M2
 COVERED OUTDOOR AREA = 24 M2
 TOTAL = 324 M2 (41.1 % SITE COVERAGE)
1 MORaine STREET, LINCOLN NEW HOUSE

Resource Consent # 225521
 has been granted on 18/08/22
 15/09/2022 ogilva

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ENSUITE AND BATHROOM
10 MM AQUALINE GIBBOARD TO WALLS WITH ENAMEL PAINT FINISH.
10 MM AQUALINE GIBBOARD TO SHOWER WALLS, SHOWER WALLS AND FLOOR TO HAVE APPROVED WATERPROOFING MEMBRANE, REFER INSTALLATION INSTRUCTIONS
-TILES TO FLOOR AND SHOWER WALLS.
TILES TO HAVE MAX 6 % WATER ABSORPTION, WATER PROOF GROUT AND APPROVED ADHESIVE.

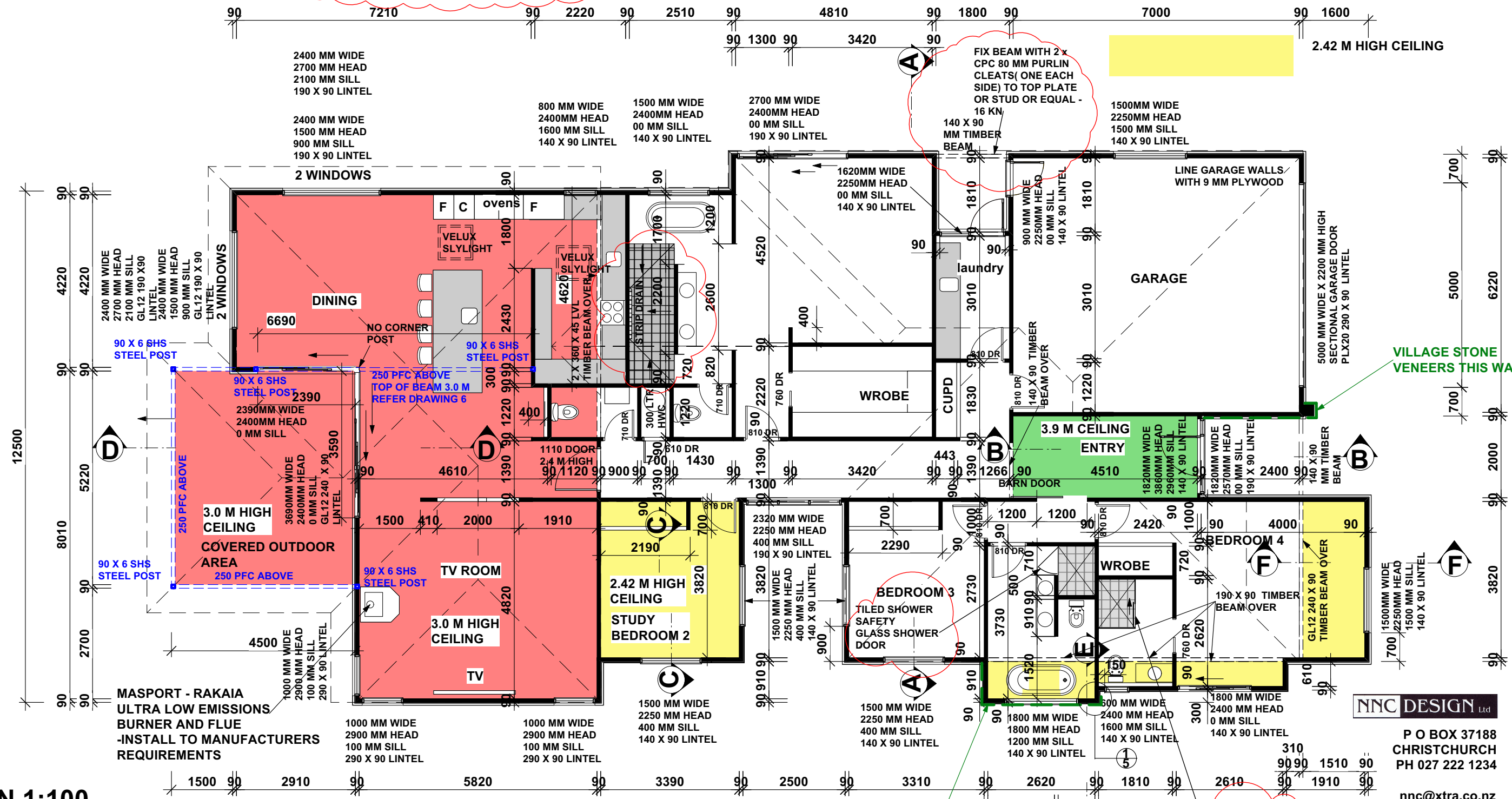
ALL INTERNAL HINGED DOORS HOLLOW CORE FLUSH PANEL, PAINT GRADE, 2200 MM HIGH.
ALL INTERNAL SLIDING DOORS, ALUMINIUM FRAME WITH GIB PANELS.

LINTEL FIXINGS REFER DRAWING 22

HIGH WIND ZONE
LINTELS UP TO 1.2 M = TYPE L2
LINTELS FROM 1.2 TO 3.0 M WITH LOAD DIMENSION < 3.0 M = TYPE L3
ALL OTHERS = TYPE L4

NOTE:
CEILING HEIGHT TO BE 2.57 m 90 x 45 MM AT 400CRS (LOAD BEARING WALLS) UNLESS NOTED OTHERWISE.
ALL TIMBER FRAMING TO BE H1.2 DOUGLAS FUR OR PINUS RADIATA
- 2.42 M STUDS = 90 X 45 MM AT 600 CRS
- 2.57 M STUDS = 90 X 45 MM AT 400 CRS
- 3.0 M STUDS = 90 X 90 AT 600 CRS

ALL FLOOR COVERINGS WITHIN 1.5 M OF WATER FIXTURES IN KITCHEN, LAUNDRY, WC, BATHROOMS, ENSUITES TO HAVE AN IMPERVIOUS FLOOR COVERING.



FLOOR PLAN 1:100

1 MORaine STREET, LINCOLN NEW HOUSE

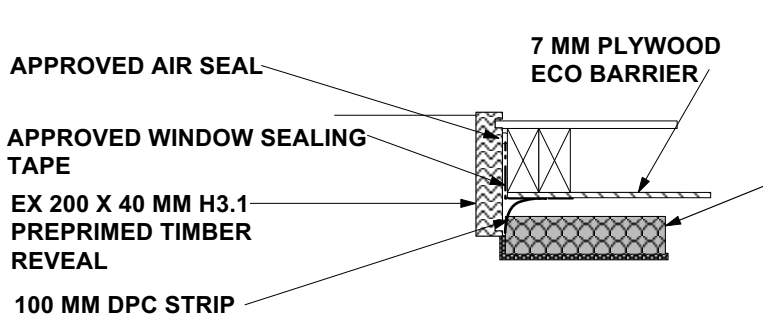
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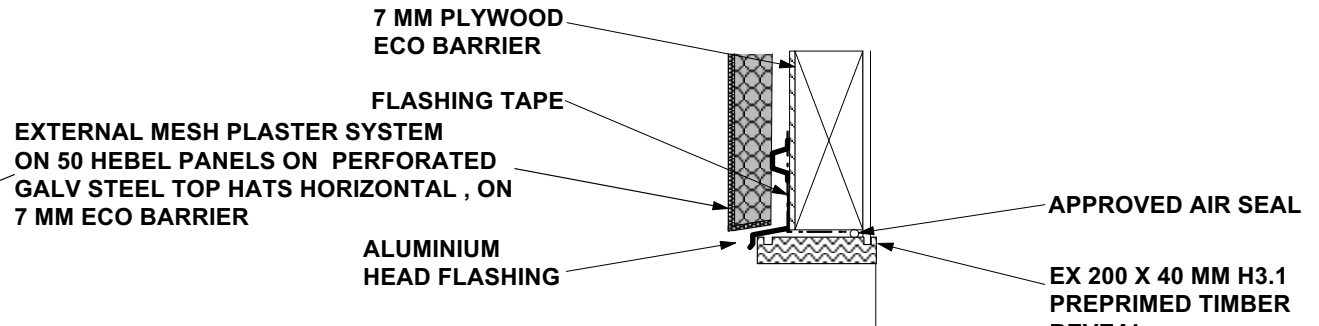
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HEBEL GARAGE DOOR JAMB DETAIL 1:10

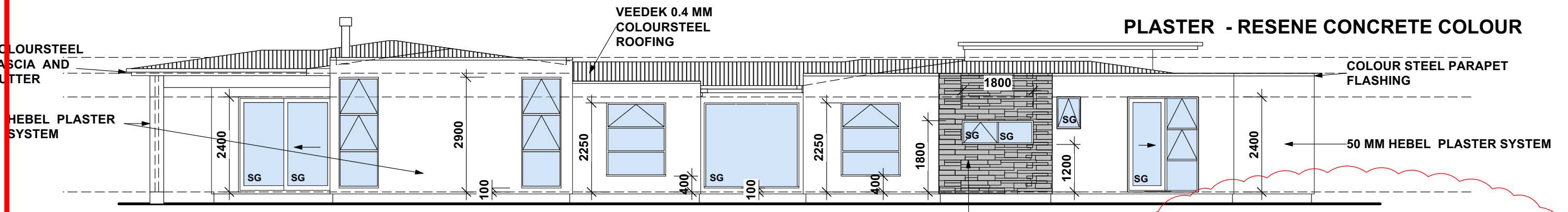


HEBEL GARAGE DOOR HEAD DETAIL 1:10

EXTERIOR COLOURS

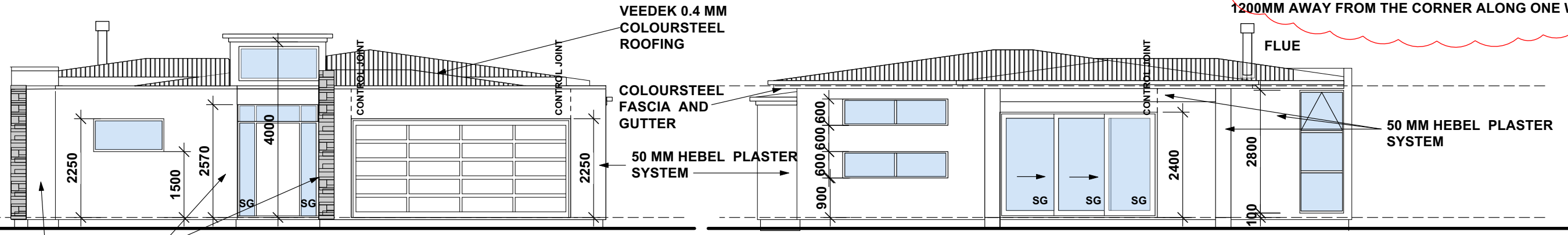
ROOFING, GUTTERING, FASCIA WINDOWS AND GARAGE DOOR, COLOUR - FLAXPOD

PLASTER - RESENE CONCRETE COLOUR



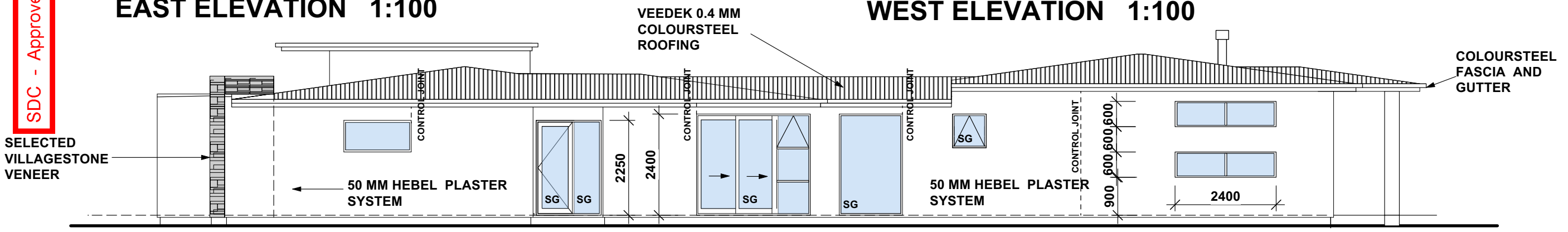
SOUTH ELEVATION 1:100

HEBEL VERTICAL CONTROL JOINTS REQUIRED 50X50MM TPO COATED ALUM DRIP-EDGE FLASHING
6M CENTRES
VERTICAL CONTROL JOINTS REQUIRED AT EXENVIROCLAD TO BE WELDED
INTERNAL CORNERS OR UP TO A MAXIMUM DISTO THIS FLASHING
1200MM AWAY FROM THE CORNER ALONG ONE WALL FACE



EAST ELEVATION 1:100

WEST ELEVATION 1:100



NORTH ELEVATION 1:100

SG = GRADE A SAFETY GLAZING

ALUMINIUM JOINERY TO COMPLY WITH NZBC MEANS OF COMPLIANCE, NZS 4211:1985 PERFORMANCE OF WINDOWS AND NZS 4223 GLAZING IN BUILDING PARTS 1, 2 & 3

NZS3604:2011 SITE INFORMATION

-EXPOSURE ZONE = C
-WIND ZONE = HIGH
-SNOW ZONE = N4

1 MORAIN STREET, LINCOLN NEW HOUSE

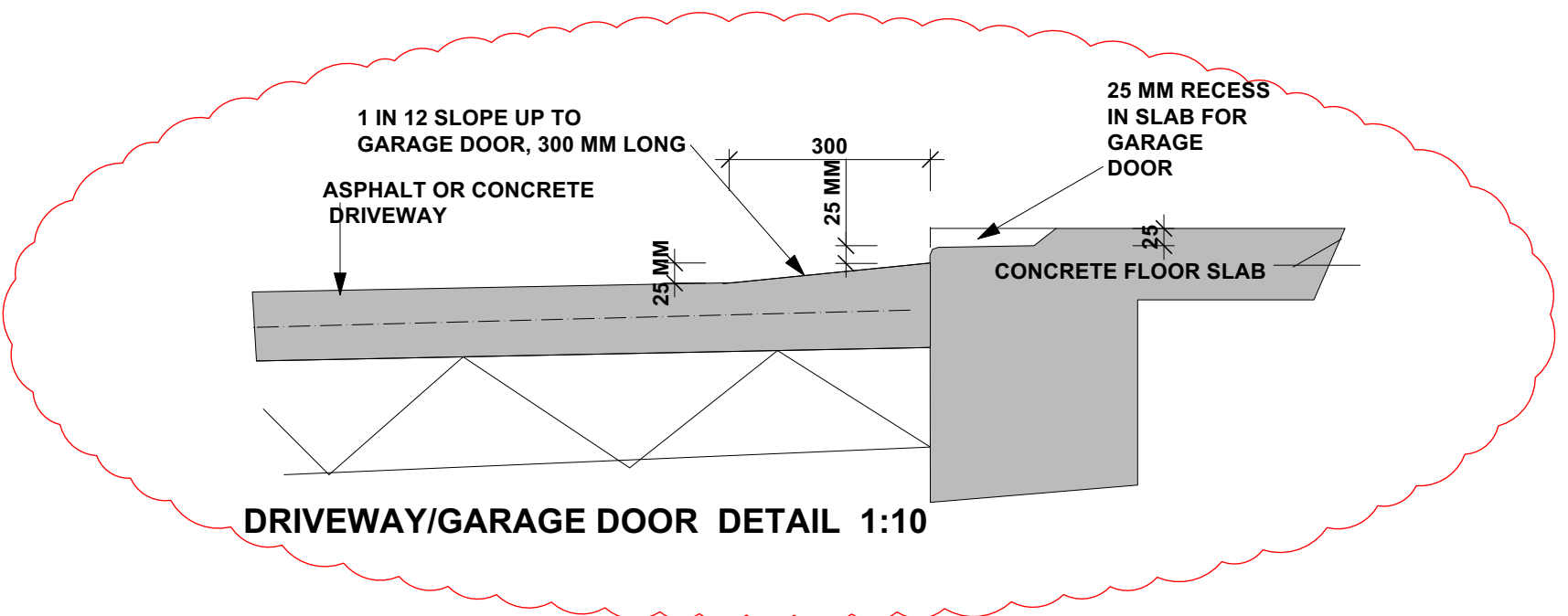
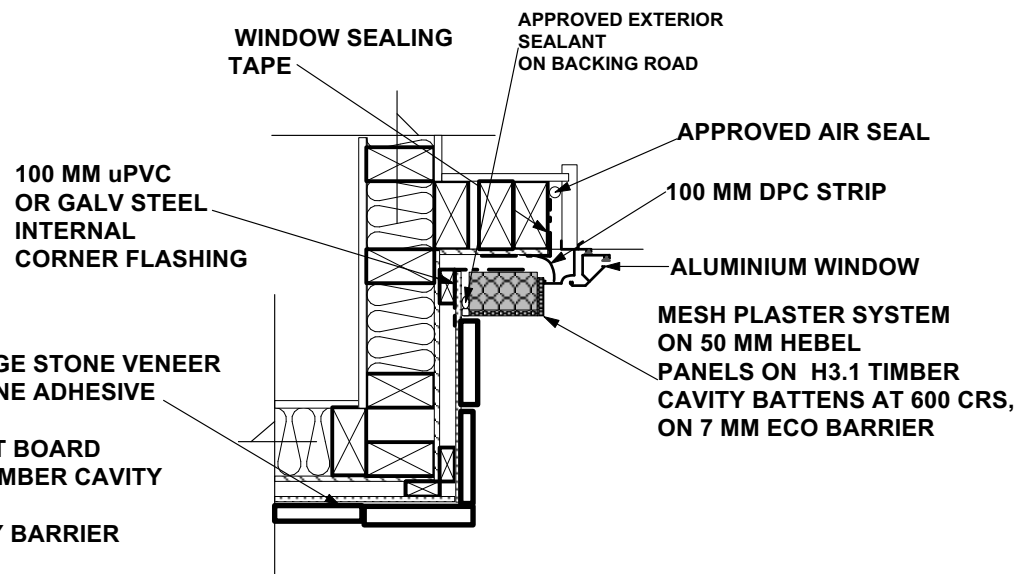
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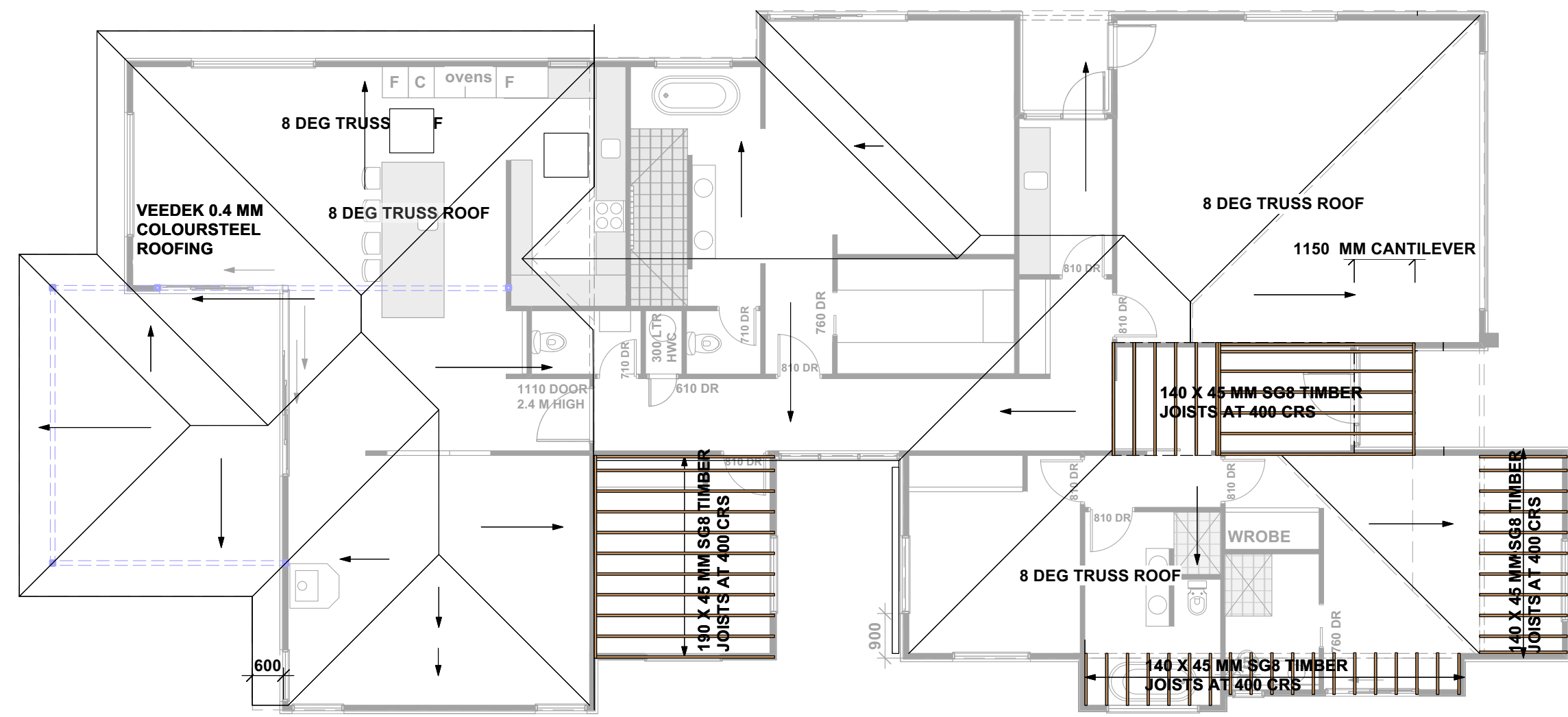
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STONE VENEER/ HEBEL DETAIL 1:10



ROOF FRAMING 1:100

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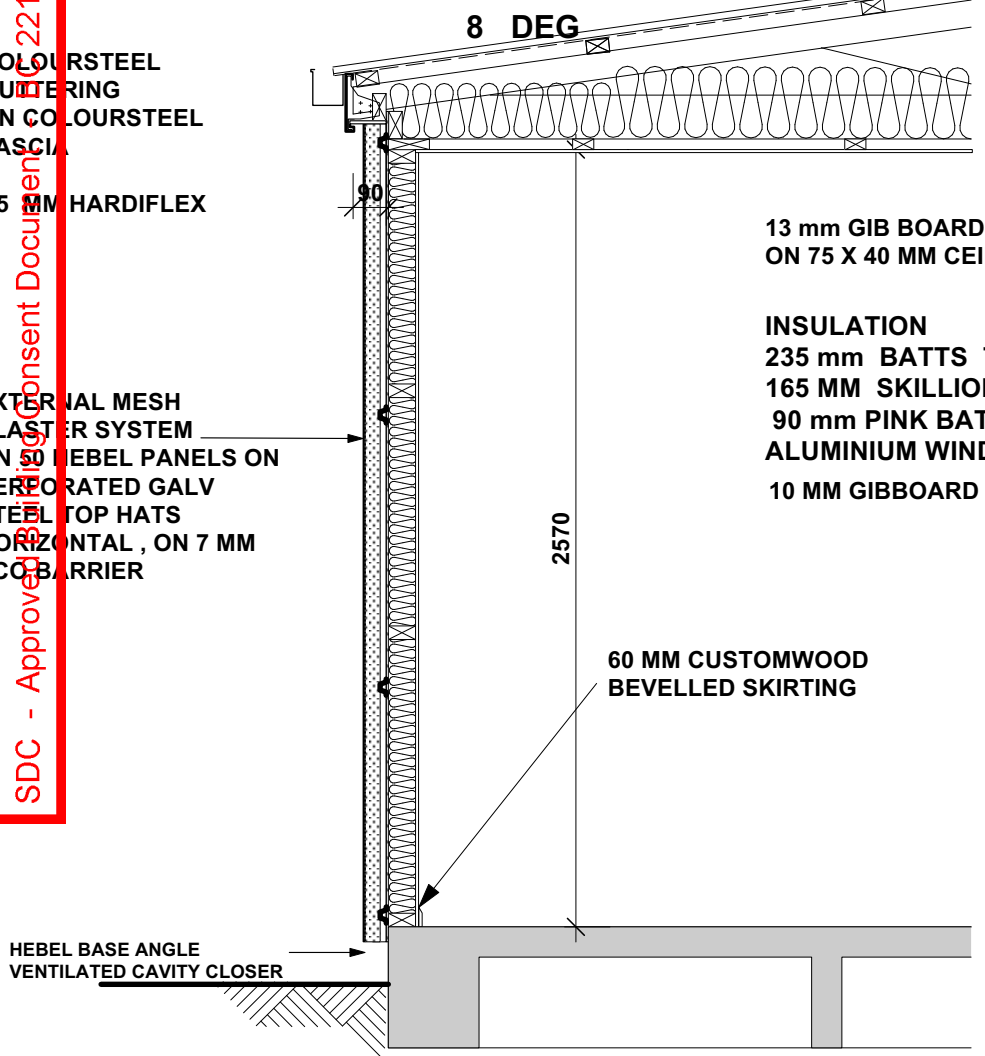
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Base supported 50mm PowerPanel⁵⁰ panel HEBEL

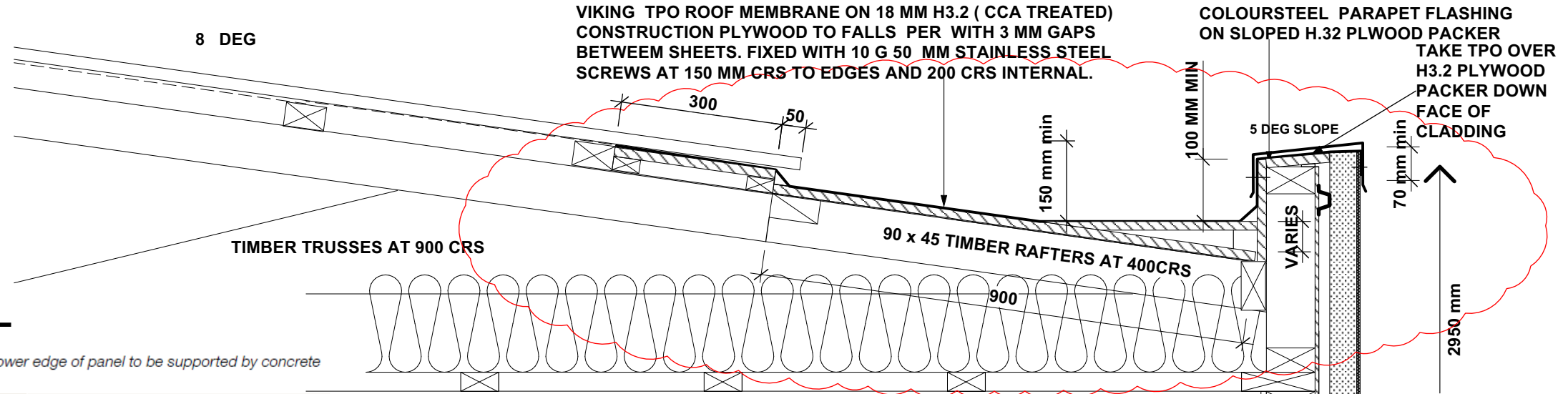
Table 1.5 - 600mm stud spacing, number of Top Hats per panel using 24 or 35mm Top Hat (ie Lower edge of panel to be supported by concrete slab edge/rebate or structural shelf angle)

Wind Region	Design Ultimate Wind Speed (m/s)	Ultimate Windward Pressure (kPa)	Ultimate Leeward Pressure (kPa)	Maximum Stud Spacing (mm)	Maximum Top Hat Spacing (mm)	Number of Top Hats Per Panel			
						Wall Height (mm)			
						≤ 2400	≤ 2700	≤ 3000	≤ 3300
Low & Medium	37	0.86	-1.07	600	925	3	3	3	3
High	44	1.22	-1.51	600	825	3	3	4	4
Very High	50	1.58	-1.95	600	600	4	4	4	5
Extra High	55	1.91	-2.36	600	550	4	4	5	5

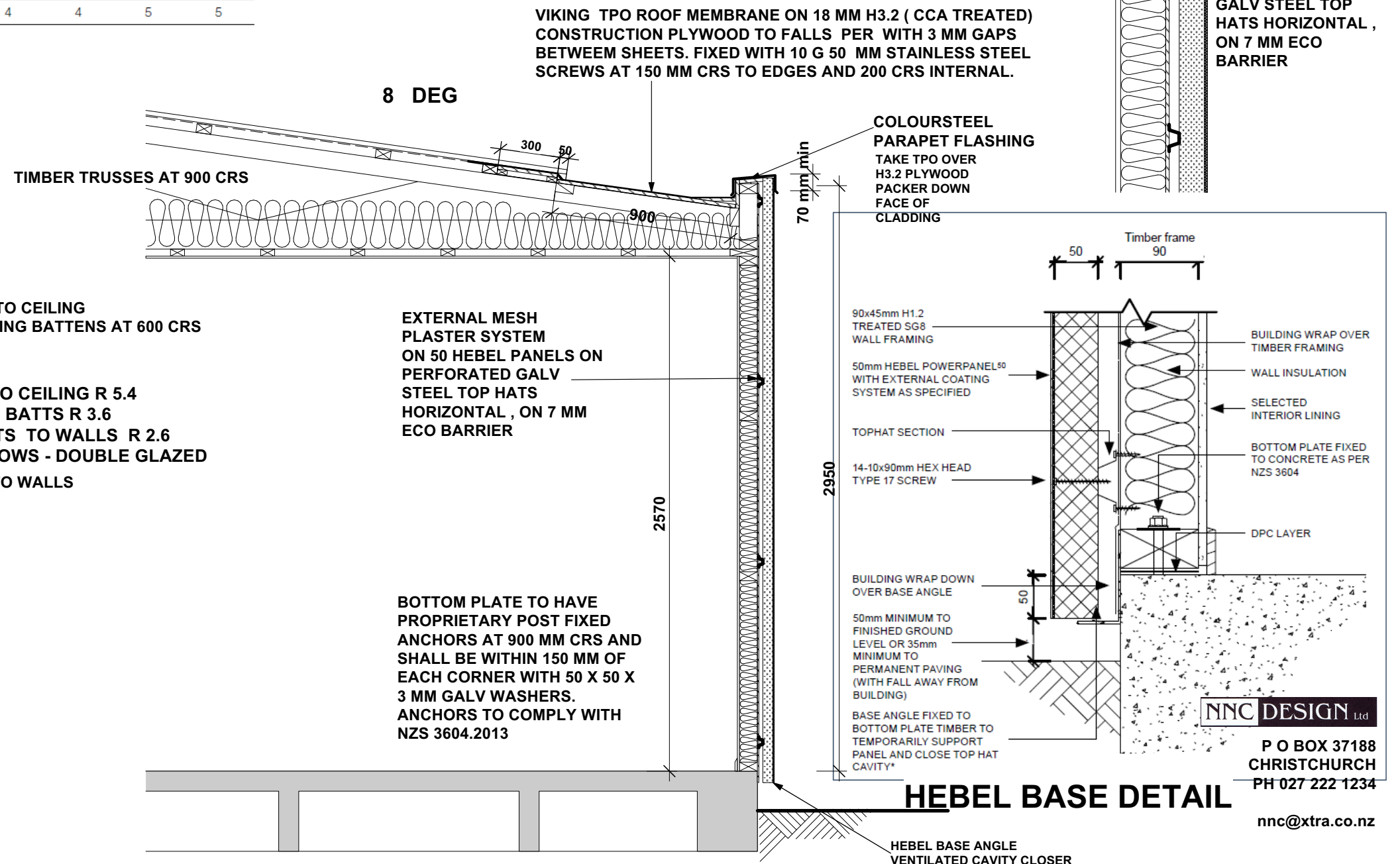
VIKING COLOURSTEEL ROOFING 0.4 GAUGE, ON SELF SUPPORTING ROOFING UNDERLAY BITUMAC 750, ON GALV WIRE NETTING, ON Ex 75 x 50 mm TIMBER PURLINS AT 900 CRS
TOP AND BOTTOM PURLINS TO BE AT 600 CRS MAX. FIX PURLINS WITH 1/10G SELF-DRILLING SCREW, 80 MM LONG.



1 MORaine STREET, LINCOLN NEW HOUSE



PARAPET DETAIL 1:10



HEBEL BASE DETAIL

SECTION A:A SCALE 1:25

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VEEDEK COLOURSTEEL ROOFING 0.4 GAUGE, ON SELF SUPPORTING ROOFING UNDERLAY BITUMAC 750, ON Ex 70 x 50 mm TIMBER PURLINS AT 900 CRS ON TIMBER TRUSSES AT 900 CRS, TOP AND BOTTOM PURLINS TO BE AT 600 CRS MAX
FIX PURLINS WITH 1/10G SELF-DRILLING SCREW, 80 MM LONG.

EXTERNAL MESH PLASTER SYSTEM ON 50 HEBEL PANELS ON PERFORATED GALV STEEL TOP HATS HORIZONTAL, ON 7 MM ECO BARRIER

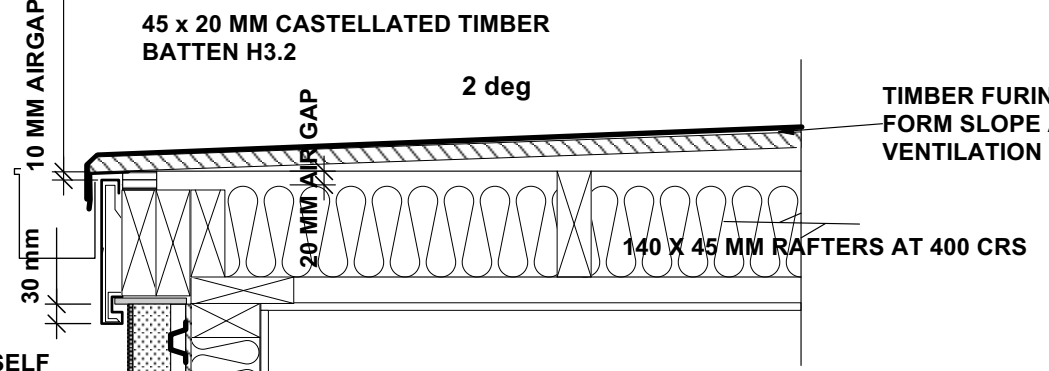
COLOURSTEEL APRON FLASHING

8 DEG

13 mm GIB BOARD TO CEILING ON 75 X 40 MM CEILING BATTENS AT 600 CRS

INSULATION
235 mm BATTS TO CEILING R 5.4
100 MM SKILLION BATTS R 3.6
90 mm PINK BATTS TO WALLS R 2.6
ALUMINIUM WINDOWS - DOUBLE GLAZED

13 MM GIBBOARD TO WALLS



TPO FASCIA DETAIL 1:10

ROOF/ WALL DETAIL (CLADDING NOT SHOWN)

PROVIDE 20 MM GAPS FOR VENTILATION TO SOFFIT

VIKING TPO

CANTILEVER 1150 2 deg

COLOURSTEEL 0.55 APRON FLASHING

COLOURSTEEL 0.55 BARGE FLASHING

MIN 150 MM UPSTAND

VIKING TPO ROOF MEMBRANE ON 18 MM H3.2 (CCA TREATED) CONSTRUCTION PLYWOOD TO FALLS PER WITH 3 MM GAPS BETWEEN SHEETS. FIXED WITH 10 G 50 MM STAINLESS STEEL SCREWS AT 150 MM CRS TO EDGES AND 200 CRS INTERNAL.

2 deg

140 X 45 MM RAFTERS AT 400 CRS

140 X 90 MM TIMBER TIMBER LINTEL

4.5 MM HARDIFLEX

COLOURSTEEL GUTTERING ON COLOURSTEEL FASCIA

TAKE TPO OVER H3.2 PLYWOOD PACKER DOWN FACE OF CLADDING

COLOURSTEEL PARAPET FLASHING

EXTERNAL MESH PLASTER SYSTEM ON 50 HEBEL PANELS ON PERFORATED GALV STEEL TOP HATS HORIZONTAL, ON 7 MM ECO BARRIER

VENTILATION HOLES IN HARDIES SOFFIT

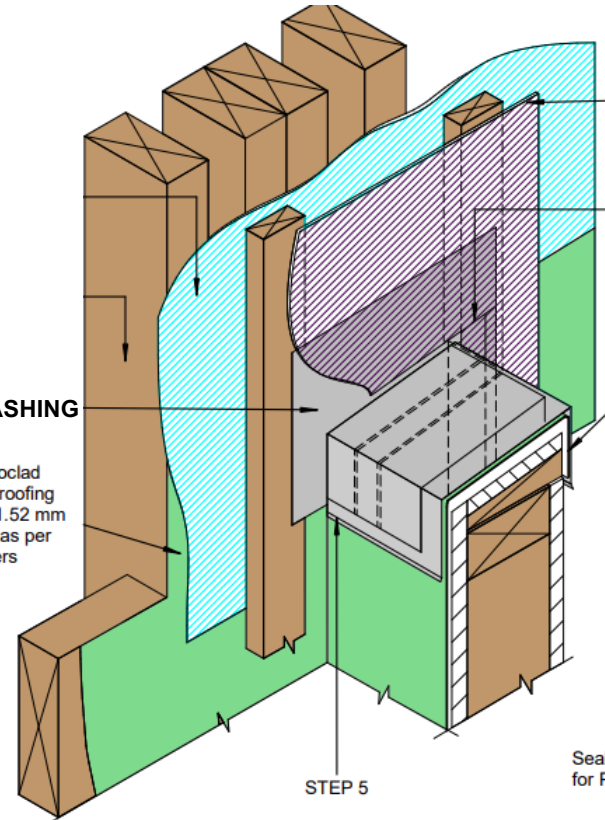
ENTRY

140 X 90 MM TIMBER TIMBER LINTEL

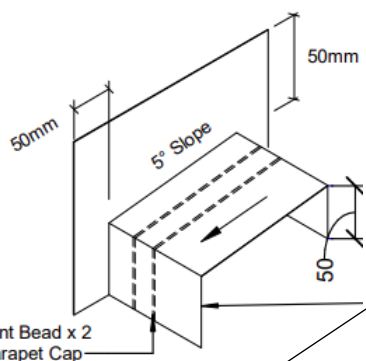
140 X 45 MM RAFTERS AT 400 CRS

4.5 MM HARDIFLEX SOFFIT

140 X 90 MM TIMBER BEAM DOUBLE STUD UNDER BEAM - FIX BEAM WITH 2 x CPC 80 MM PURLIN CLEATS (ONE EACH SIDE) TO TOP PLATE OR STUD - 16 KN
VILLAGE STONE VENEER



SADDLE FLASHING DETAIL



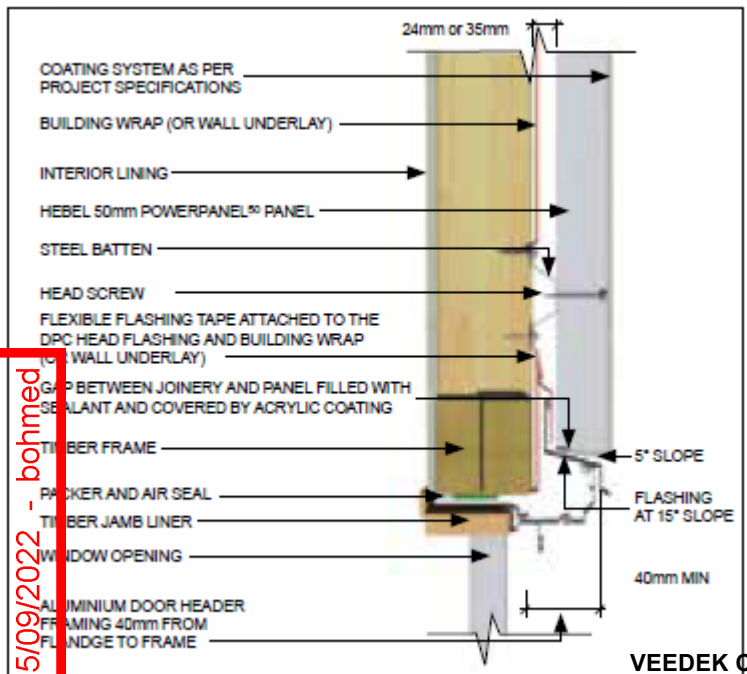
SADDLE FLASHING

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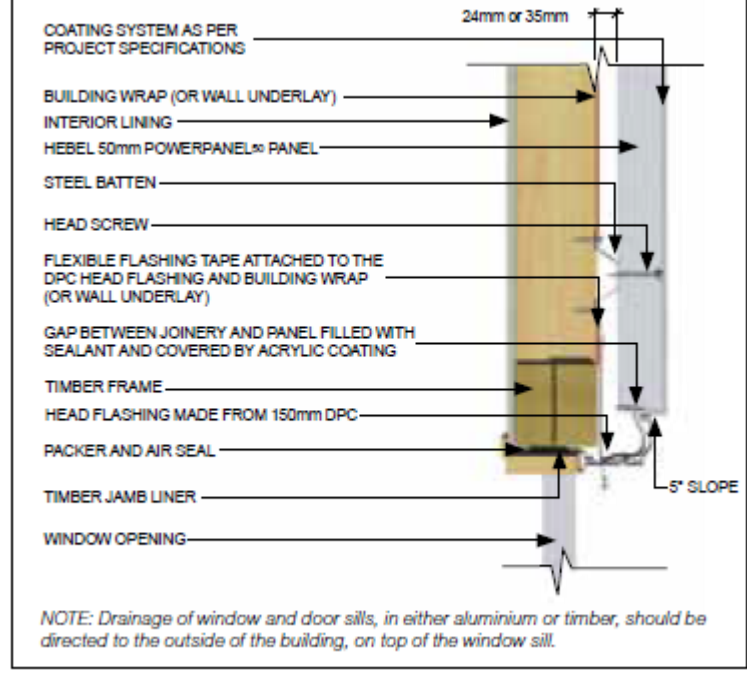
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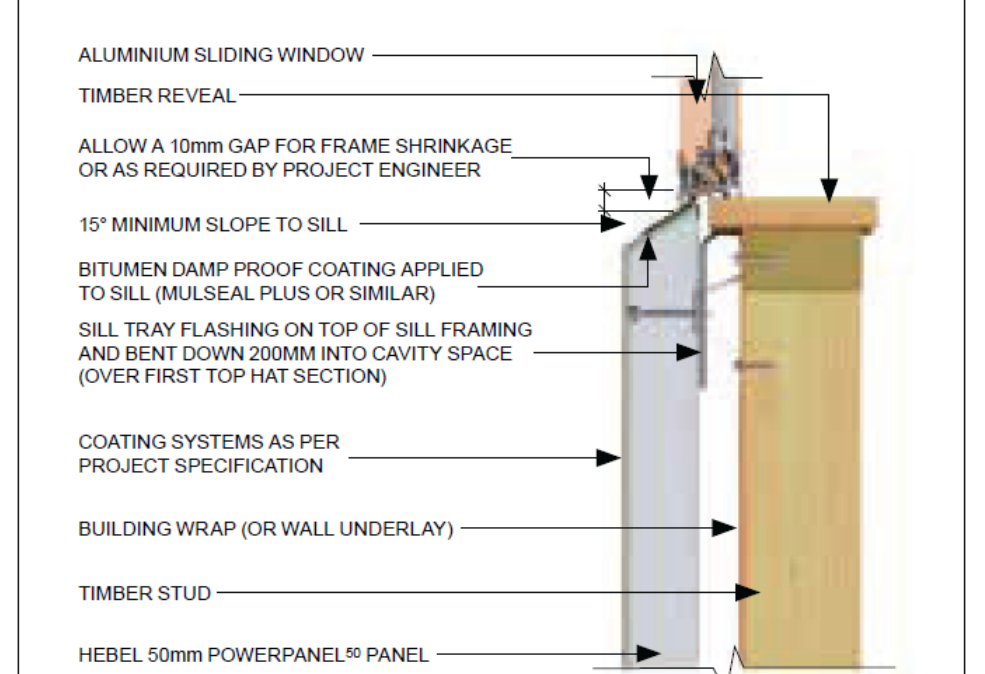


HEBEL HEAD DETAIL

VEEDEK COLOURSTEEL ROOFING 0.4 GAUGE, ON SELF SUPPORTING ROOFING UNDERLAY BITUMAC 750, ON Ex 75 x 50 mm TIMBER PURLINS AT 900 CRS ON TIMBER TRUSSES AT 900 CRS, TOP AND BOTTOM PURLINS TO BE AT 600 CRS MAX. FIX PURLINS WITH 1/10G SELF-DRILLING SCREW, 80 MM LONG.

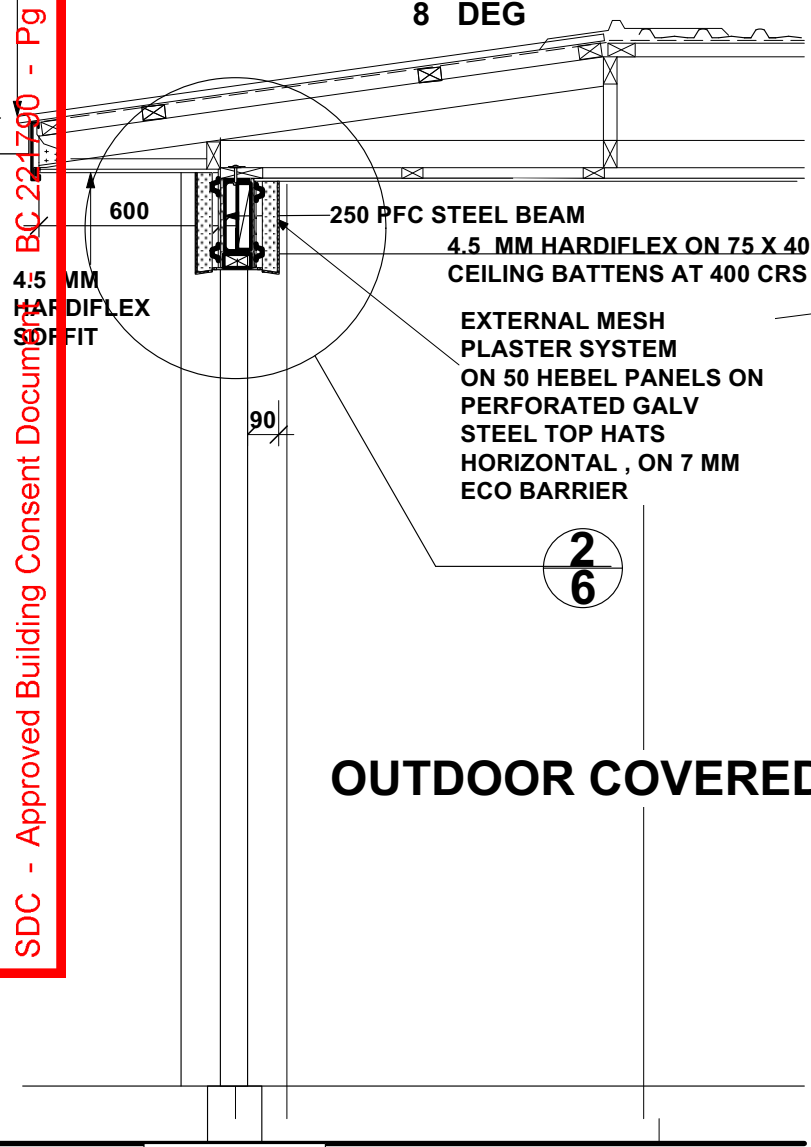


HEBEL JAMB DETAIL

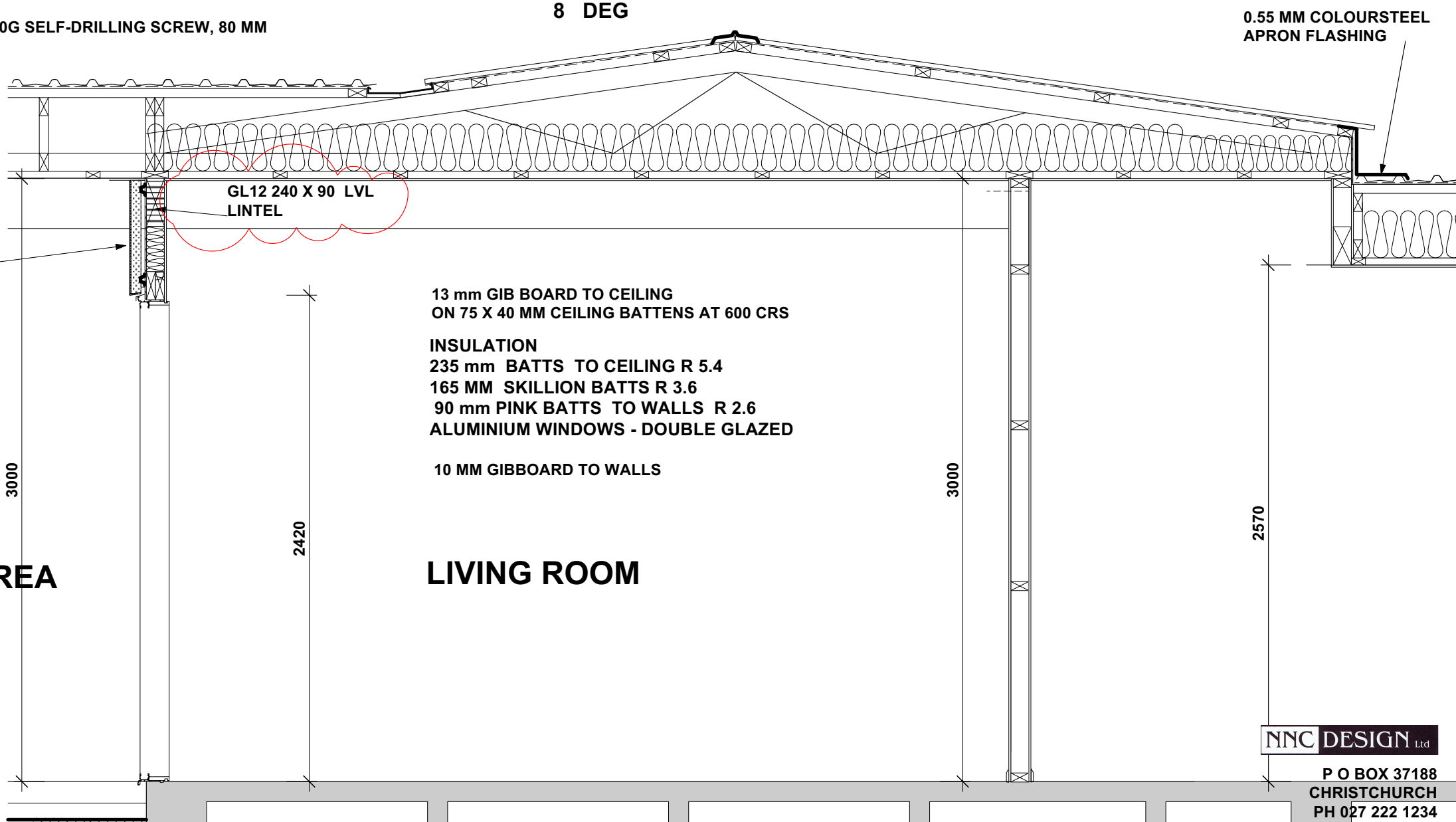


HEBEL HEAD DETAIL

COLOURSTEEL GUTTERING ON COLOURSTEEL FASCIA

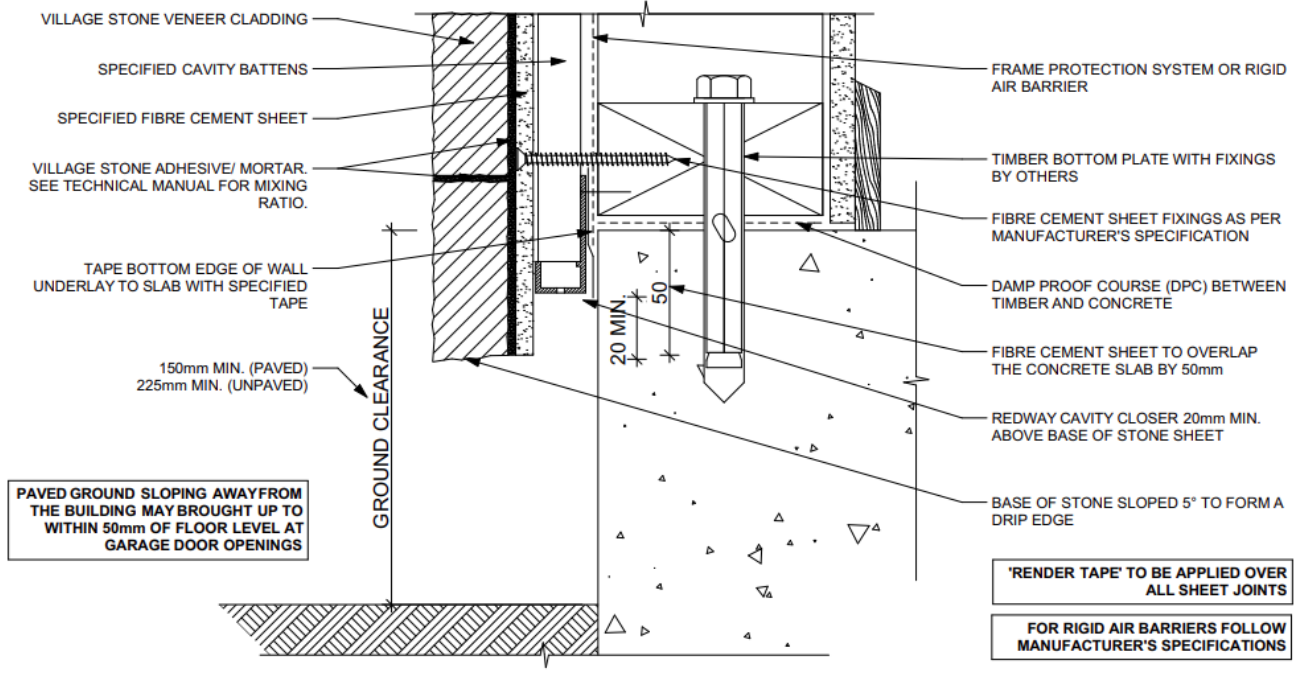


OUTDOOR COVERED AREA

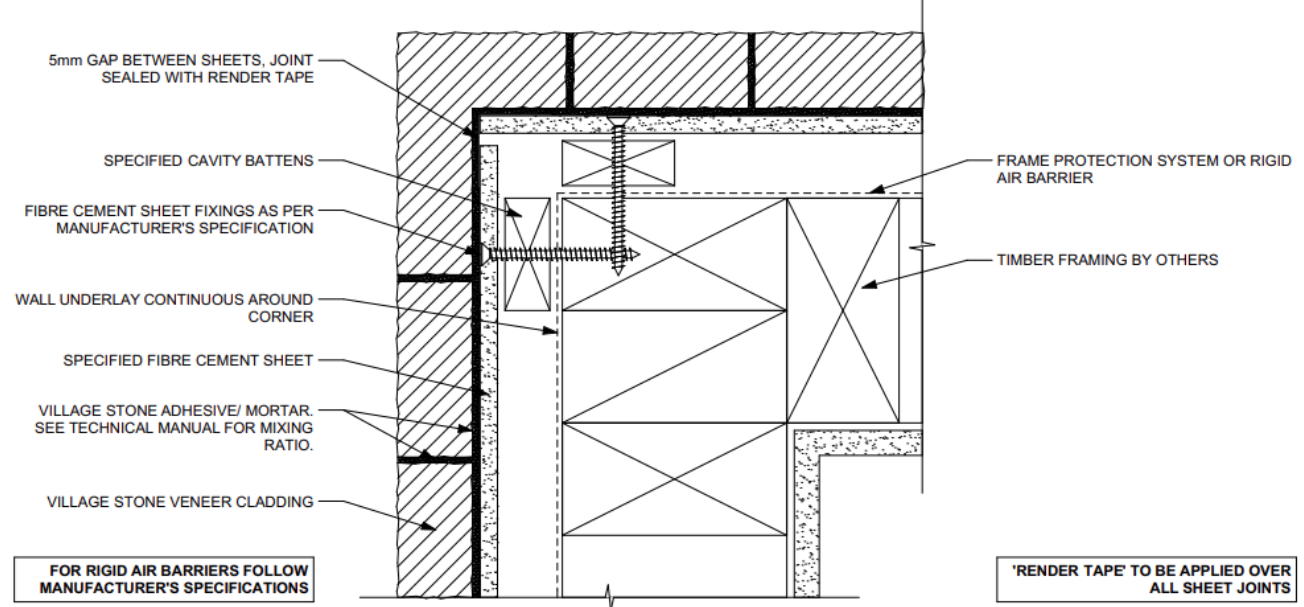


LIVING ROOM

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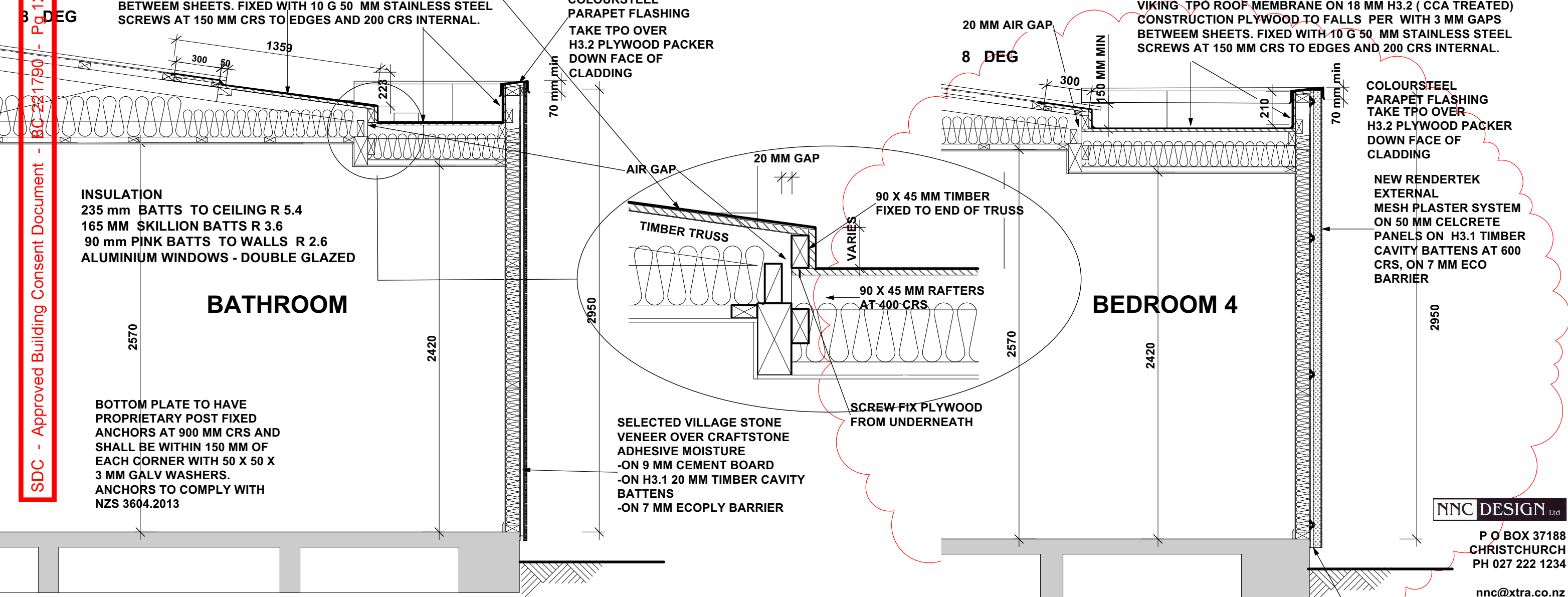
DWG - 06 SLAB EDGE DETAIL



DWG - 04 PLAN VIEW OF EXTERNAL CORNER DETAIL SCALE -

VIKING TPO ROOF MEMBRANE ON 18 MM H3.2 (CCA TREATED) CONSTRUCTION PLYWOOD TO FALLS PER WITH 3 MM GAPS BETWEEN SHEETS. FIXED WITH 10 G 50 MM STAINLESS STEEL SCREWS AT 150 MM CRS TO EDGES AND 200 CRS INTERNAL.

VIKING TPO ROOF MEMBRANE ON 18 MM H3.2 (CCA TREATED) CONSTRUCTION PLYWOOD TO FALLS PER WITH 3 MM GAPS BETWEEN SHEETS. FIXED WITH 10 G 50 MM STAINLESS STEEL SCREWS AT 150 MM CRS TO EDGES AND 200 CRS INTERNAL.

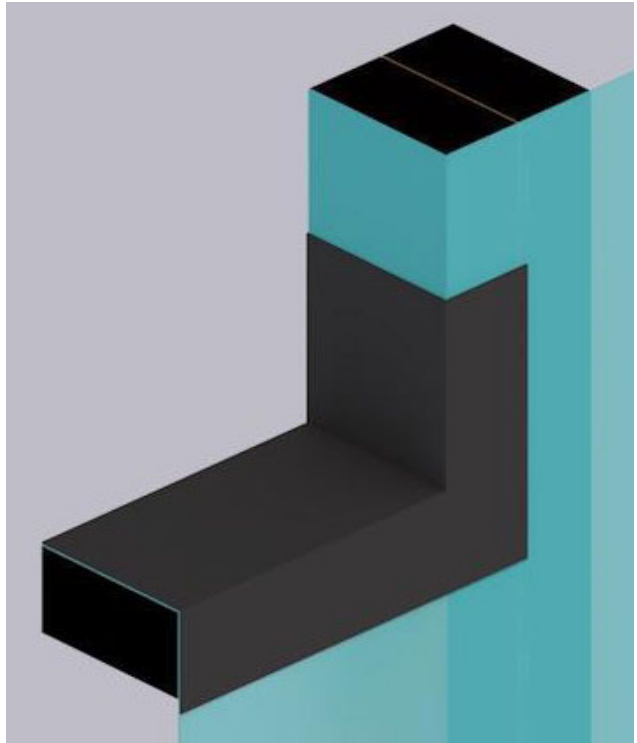


SECTION E:E SCALE 1:25

SECTION F:F SCALE 1:25

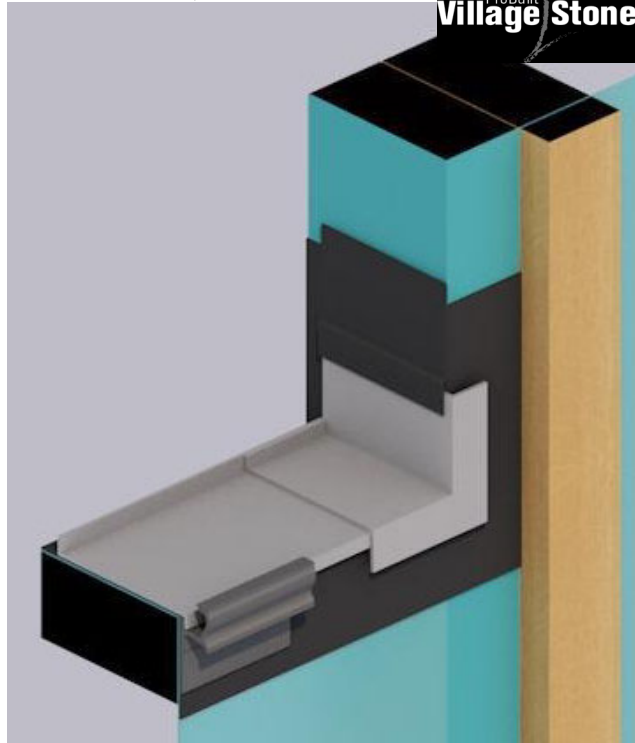
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DWG - 25 WINDOW SILL 3D SEQUENCE



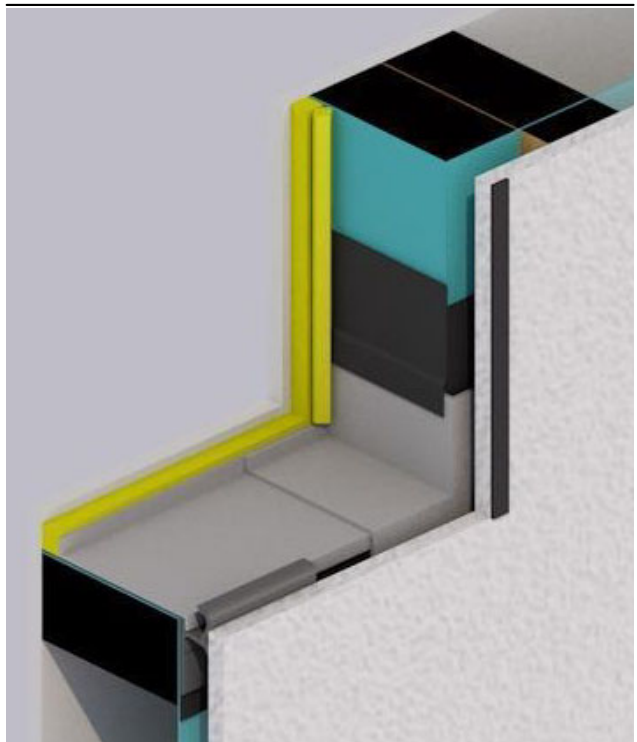
1. TIMBER FRAMING INSTALLED
2. WALL UNDERLAY RUN HORIZONTALLY & DRESSED INTO WINDOW/ DOOR OPENING
3. SPECIFIED FLEXIBLE FLASHING TAPE TO ENTIRE SILL AND 100mm UP AT JAMBS

SILL : WRAP & TAPE



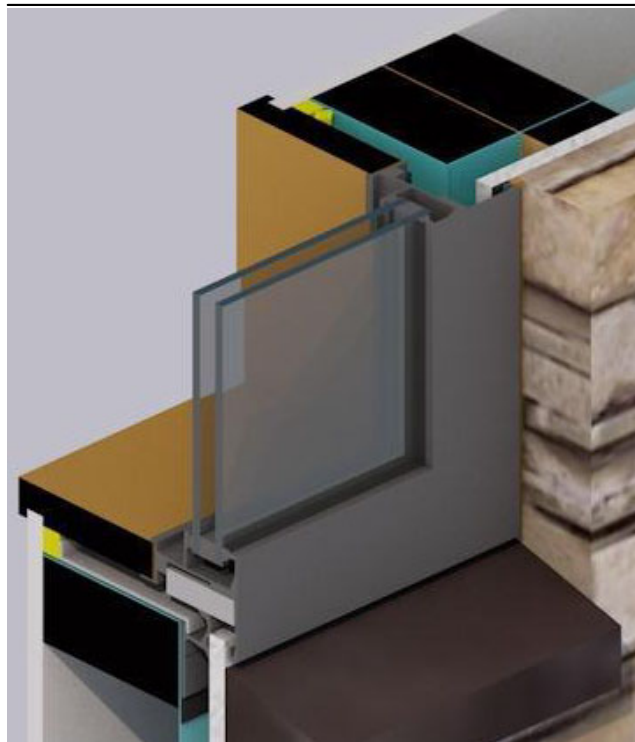
4. REDWAY SILL TRAY ADHERED TO SILL TRAY ENDCAPS AND INSTALLED TO SILL TRIMMER WITH WANZ BAR
5. TOP EDGE OF SILL END CAPS TAPED TO JAMB WITH SPECIFIED FLEXIBLE FLASHING TAPE
6. CAVITY BATTENS INSTALLED

SILL : TRAY & WANZ BAR



7. FIBRE CEMENT SHEET FIXED
8. 5mm THICK SPECIFIED FOAM TAPE INSTALLED ONTO FIBRE CEMENT SHEET AT JAMBS
9. AIR SEAL SHOWN IS INSTALLED AFTER FIXING OF WINDOW

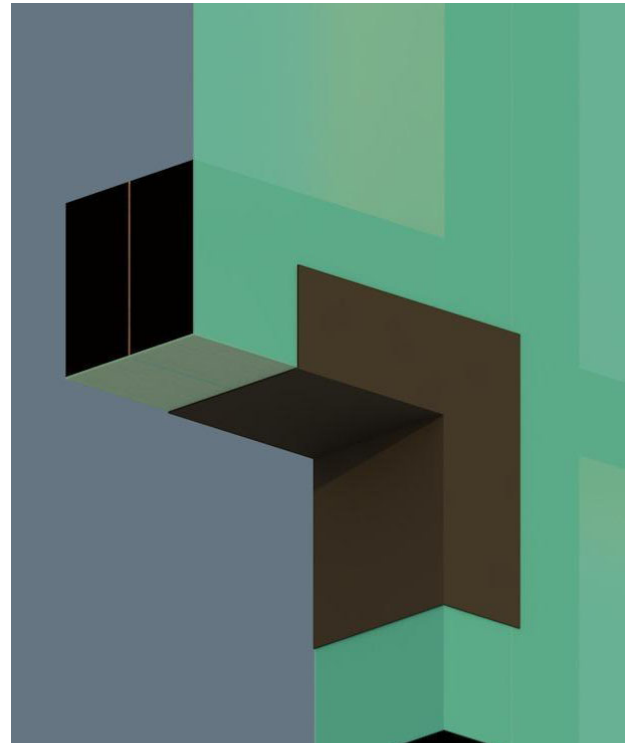
SILL : FIBRE CEMENT SHEET



10. WINDOW SUPPORT BLOCKS FITTED AND JOINERY INSTALLED AND FIXED AS REQUIRED
12. STONE ADHERED TO FIBRE CEMENT SHEET WITH VILLAGE STONE MORTAR/ADHESIVE AND SEAL JAMB WITH SPECIFIED SEALANT

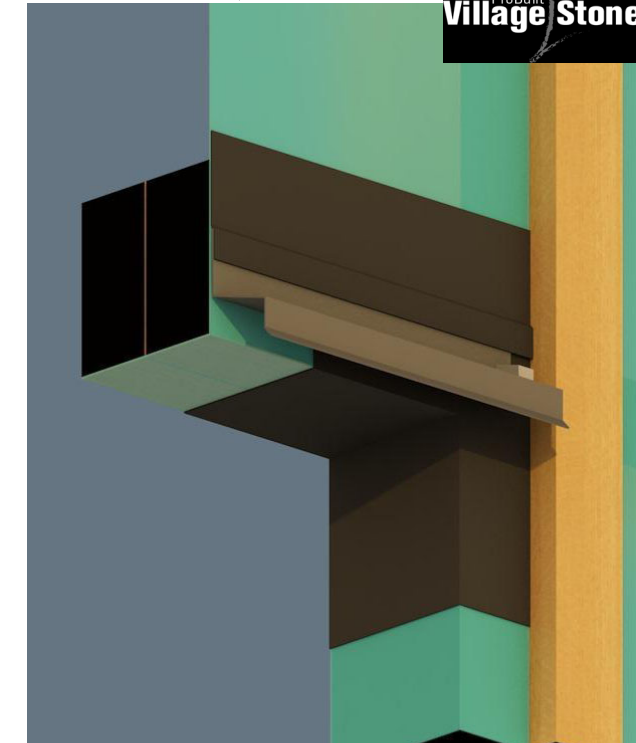
SILL : FINISHED WALL

DWG - 24 WINDOW HEAD 3D SEQUENCE



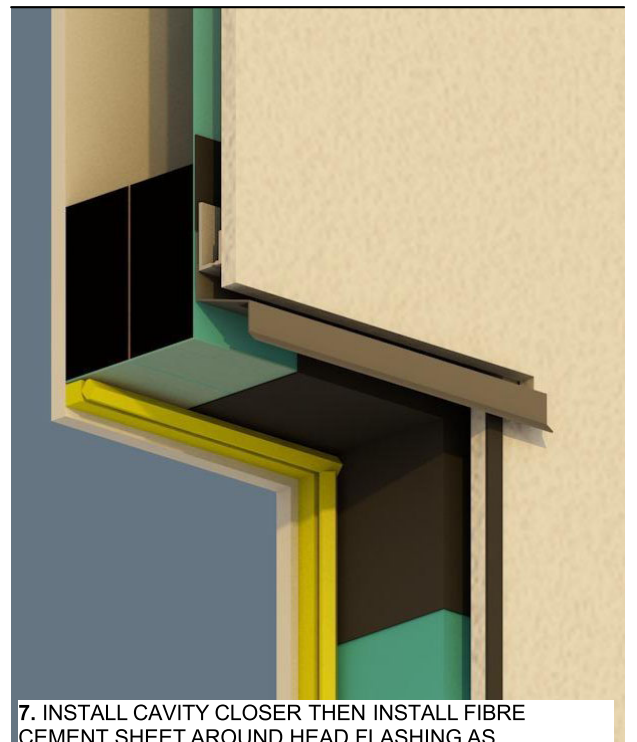
1. TIMBER FRAMING INSTALLED
2. WALL UNDERLAY RUN HORIZONTALLY & DRESSED INTO WINDOW/ DOOR OPENING
3. SPECIFIED FLEXIBLE FLASHING TAPE TO CORNERS AT HEAD AND JAMBS

HEAD : WRAP & TAPE



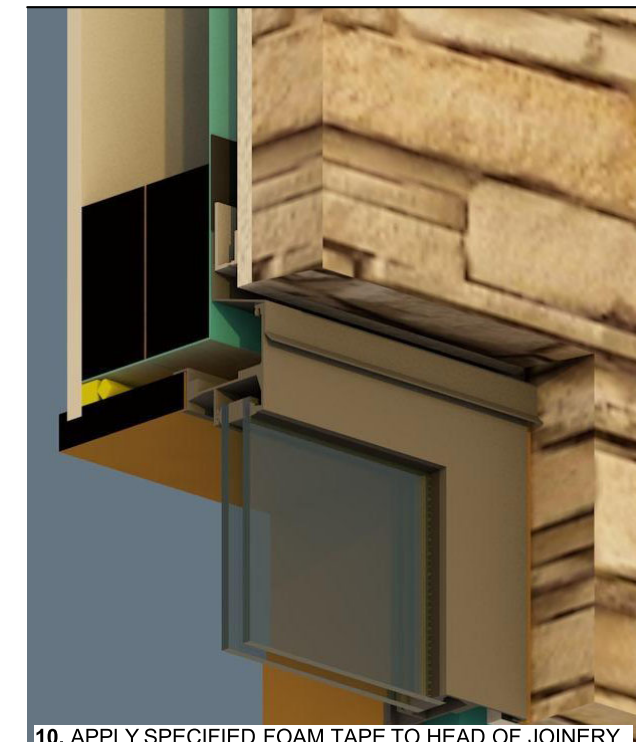
4. HEAD FLASHING FIXED WITH PROPRIETARY STOP ENDS INSTALLED
5. TOP EDGE OF FLASHING TAPED BACK TO WALL UNDERLAY WITH SPECIFIED FLEXIBLE FLASHING TAPE
6. CAVITY BATTENS INSTALLED

HEAD : FLASHING



7. INSTALL CAVITY CLOSER THEN INSTALL FIBRE CEMENT SHEET AROUND HEAD FLASHING AS SPECIFIED
8. INSTALL SPECIFIED FOAM TAPE ONTO FIBRE CEMENT SHEET AT JAMBS
9. AIR SEAL SHOWN IS INSTALLED AFTER FIXING OF WINDOW

HEAD : FIBRE CEMENT SHEET



10. APPLY SPECIFIED FOAM TAPE TO HEAD OF JOINERY AND INSTALL JOINERY UNDER HEAD FLASHING AND FIX AS REQUIRED
11. APPLY STONE TO FIBRE CEMENT SHEET WITH SPECIFIED SEALANT

HEAD : FINISHED WALL

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⊙ = TYPE ONE SMOKE DETECTORS (MAY BE BATTERY POWERED AND ARE NOT REQUIRED TO BE INTERCONNECTED. IN ADDITION THEY SHALL BE PROVIDED WITH A HUSH FACILITY HAVING A MINIMUM DURATION OF 60 SECONDS

⊙ E.F. EXTRACT FAN (MANROSE 150 MM OR EQUAL) DUCT THROUGH SOFFIT

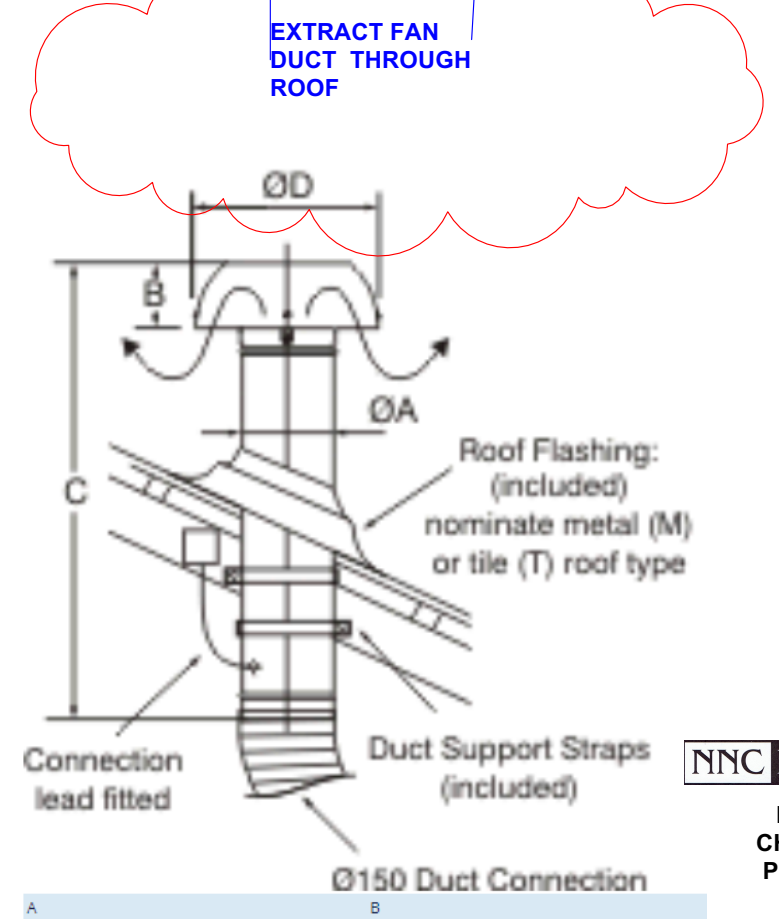
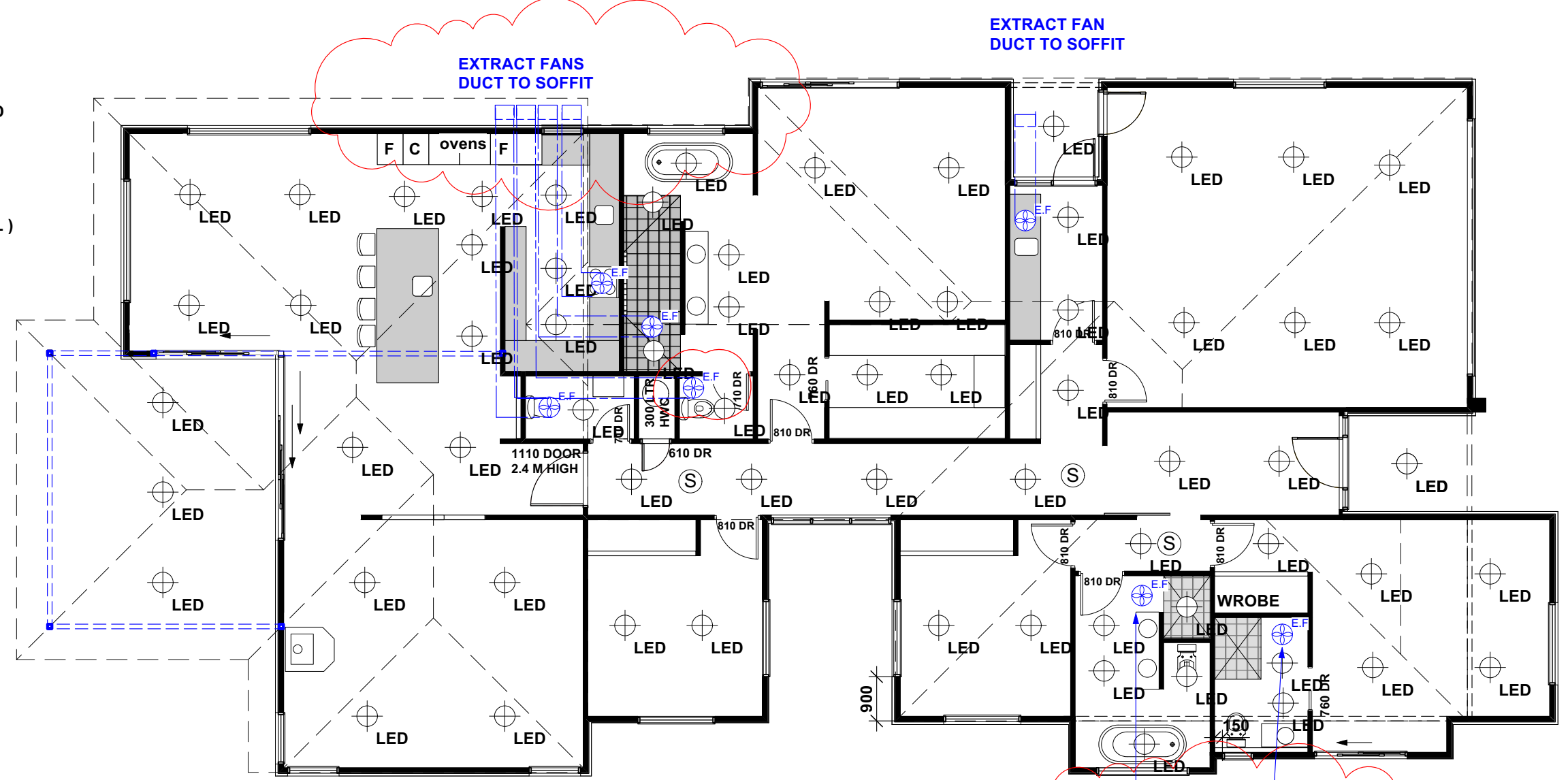
ELECTRICAL KEY

- LED LED IC-F CEILING MOUNTED, RECESSED DOWN LIGHT
- W WALL MOUNTED LIGHT FITTING
- P CEILING MOUNTED LIGHT FITTING - PENDANT
- RD CEILING MOUNTED LIGHT FITTING - RECESSED CA- RATED, WITH ENERGY EFFICIENT LIGHT BULBS
- ⏏ LIGHT SWITCH
- ⏏ DOUBLE POWER POINT
- H HALOGEN CEILING LIGHT
- E.F. EXTRACT FAN (MANROSE 150 MM)
- ▶ TELECOM POINT
- T.V. T.V. AERIAL POINT
- B.H. BATHROOM HEATER
- H.T.R. HEATED TOWEL RAIL

ALL RECESSED CEILING MOUNTED LIGHT FITTINGS TO BE CA 80, CA 135, IC, IC-F

CA 80 & CA 135 RATINGS MAY HAVE INSULATION ABUTTED TO THE SIDES OF THE FITURE. IC & IC-F RATING CAN HAVE INSULATION ABUTTED TO AND/OR COVERING THEM.

NOTE
ALL ELECTRICAL WORK TO COMPLY WITH NZBC G9/AS1 AND NZECP 51



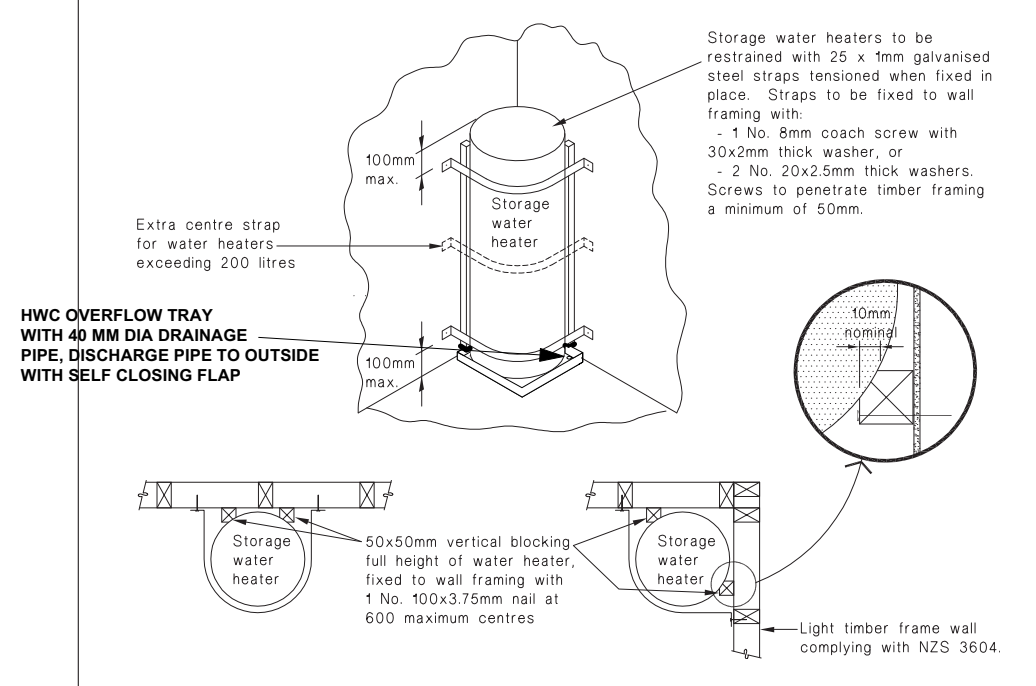
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Amend 5
Feb 2004

Figure 14: Seismic Restraint of Storage Water Heaters 90 – 360 litres
Paragraph 6.11.4



HOT WATER CYLINDERS TO COMPLY WITH NZS 4305:1996 , NZBC G12 AND H1.3.4(B)
-A GRADE ELECTRIC CYLINDER
MAINS PRESSURE
-SEISMIC RESTRAINING STRAPS(NZBC G12), OVERFLOW DRAIN TO GULLY TRAP AND TEMPERING VALVES (55 DEG , NZBC G12) TO BE ADDED TO HOT WATER CYLINDERS.

-ALL PIPES AND OUTLET VALVES THAT ARE OUTSIDE OF THE THERMAL ENVELOPE TO BE INSULATED.

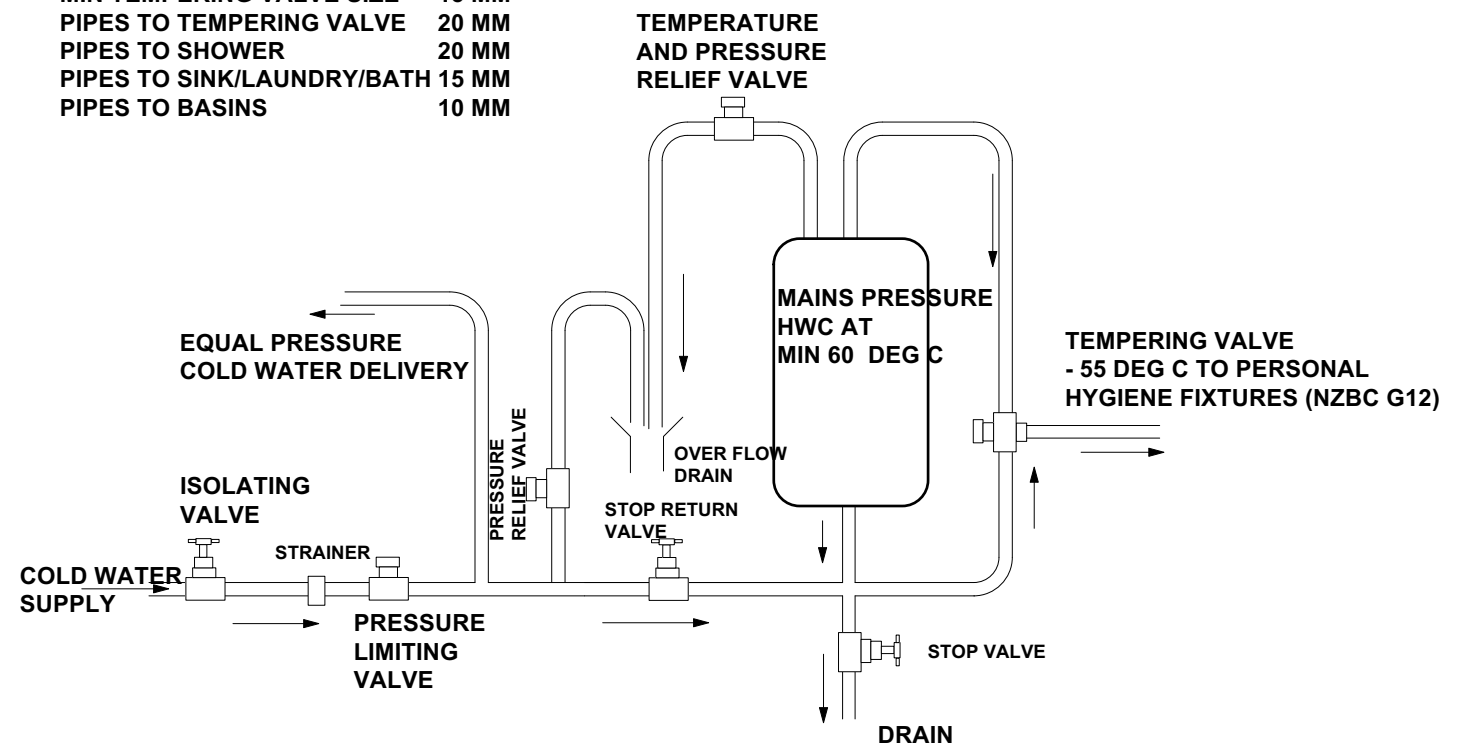
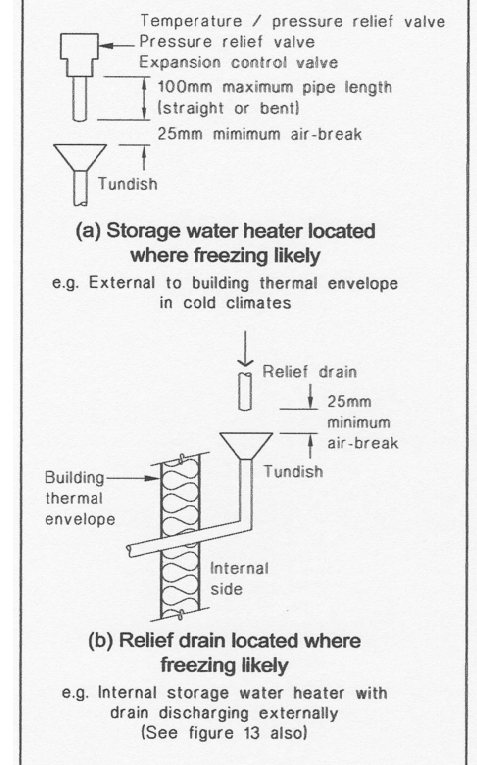
REFIEF VALVE DRAINS

- TO HAVE MINIMUM DIAMETER OF THE SAME SIZE AS THE VALVE OUTLET
- TO BE OF COPPER
- HAVE A CONTINUOUS FALL AND NO RESTRICTIONS
- TO DISCHARGE TO A VISIBLE LOCATION
- TO HAVE THE NUMBER OF CHANGES IN DIRECTION PLUS THE LENGTH OF RELIEF DRAIN IN METRES = 12

TEMPERING VALVE AND NOMINAL PIPE DIAMETERS FOR MAINS PRESSURE (NZBC G12/AS1 TABLE 4)

MIN TEMPERING VALVE SIZE	15 MM
PIPES TO TEMPERING VALVE	20 MM
PIPES TO SHOWER	20 MM
PIPES TO SINK/LAUNDRY/BATH	15 MM
PIPES TO BASINS	10 MM

Figure 12: Relief Valve Drains – Freezing Protection
Paragraphs 6.7.1, 6.7.4 and 6.7.5



MAINS PRESSURE HOT WATER CYLINDER SETUP

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WALLS

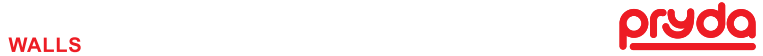
LINTEL FIXING SCHEDULE

ACCEPTABLE SOLUTIONS IN CONJUNCTION WITH TABLES 8:14 & FIG 8:12 OF NZS3604:2011

Span Meters	Wind Zone	LIGHT ROOF Loaded Dimensions Meters					HEAVY ROOF Loaded Dimensions Meters				
		2	3	4	5	6	2	3	4	5	6
0.6	L	L1	L1	L1	L1	L1	L1	L1	L1	L1	L1
	M	L1	L1	L1	L1	L1	L1	L1	L1	L1	
	H	L1	L1	L1	L2	L2	L1	L1	L1	L1	L1
	VH	L1	L1	L2	L2	L2	L1	L1	L1	L2	L2
	EH	L1	L2	L2	L2	L3	L1	L1	L2	L2	L2
0.9	L	L1	L1	L1	L1	L1	L1	L1	L1	L1	L1
	M	L1	L1	L1	L1	L1	L1	L1	L1	L1	
	H	L1	L1	L2	L2	L2	L1	L1	L1	L2	L2
	VH	L1	L2	L2	L3	L3	L1	L1	L2	L2	L2
	EH	L2	L2	L3	L3	L3	L2	L2	L2	L3	L3
1.2	L	L1	L1	L1	L1	L1	L1	L1	L1	L1	L1
	M	L1	L1	L2	L2	L2	L1	L1	L1	L1	
	H	L1	L2	L2	L3	L3	L1	L1	L2	L2	L2
	VH	L2	L2	L3	L3	L3	L1	L1	L2	L3	L3
	EH	L2	L3	L3	L3	L3	L2	L2	L2	L3	L3
1.8	L	L1	L1	L1	L1	L1	L1	L1	L1	L1	L1
	M	L1	L2	L2	L2	L2	L1	L1	L1	L1	
	H	L2	L3	L3	L3	L3	L1	L1	L2	L3	L3
	VH	L2	L3	L3	L3	L3	L1	L1	L2	L3	L3
	EH	L3	L3	L3	L4	L4	L3	L3	L3	L3	L4
2.1	L	L1	L1	L1	L1	L1	L1	L1	L1	L1	L1
	M	L2	L2	L2	L2	L2	L1	L1	L1	L1	
	H	L2	L3	L3	L3	L3	L2	L2	L2	L3	L3
	VH	L3	L3	L3	L4	L4	L3	L3	L3	L3	L3
	EH	L3	L3	L4	L4	L4	L3	L3	L3	L4	L4
2.4	L	L1	L1	L1	L1	L1	L1	L1	L1	L1	L1
	M	L2	L2	L2	L2	L2	L1	L1	L1	L1	
	H	L2	L3	L3	L3	L3	L2	L2	L2	L3	L3
	VH	L3	L3	L3	L4	L4	L3	L3	L3	L3	L4
	EH	L3	L3	L3	L4	L4	L3	L3	L3	L4	L4
3	L	L1	L1	L1	L1	L1	L1	L1	L1	L1	L1
	M	L2	L3	L3	L3	L3	L1	L1	L1	L1	
	H	L3	L3	L3	L4	L4	L2	L3	L3	L3	L3
	VH	L3	L4	L4	L4	L4	L3	L3	L3	L3	L4
	EH	L3	L4	L4	L4	L4	L3	L3	L4	L4	L4
3.6	L	L1	L1	L1	L1	L1	L1	L1	L1	L1	L1
	M	L2	L3	L3	L3	L3	L1	L1	L1	L1	
	H	L3	L3	L3	L4	L4	L2	L3	L3	L3	L4
	VH	L3	L4	L4	L4	L4	L3	L3	L3	L4	L4
	EH	L4	L4	L4	L4	L4	L3	L4	L4	L4	L4
4.2	L	L1	L1	L1	L1	L1	L1	L1	L1	L1	L1
	M	L2	L3	L3	L3	L3	L1	L1	L1	L1	
	H	L3	L3	L3	L4	L4	L3	L3	L3	L4	L4
	VH	L4	L4	L4	L4	L4	L3	L3	L3	L4	L4
	EH	L4	L4	L4	L4	L4	L3	L4	L4	L4	L4
4.8	L	L1	L1	L1	L1	L1	L1	L1	L1	L1	L1
	M	L3	L3	L3	L3	L3	L1	L1	L1	L1	
	H	L3	L4	L4	L4	L4	L3	L3	L3	L4	L4
	VH	L4	L4	L4	L4	L4	L3	L3	L3	L4	L4
	EH	L4	L4	L4	L4	L4	L3	L4	L4	L4	L4

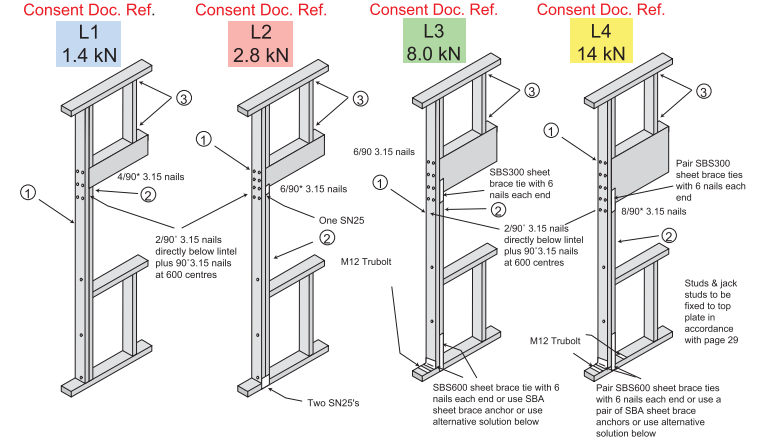
Notes:
 Lintel spans and loaded dimensions measured in metres.
 All frame nailing not indicated, refer to table 8.19 of NZS 3604:2011.
 In all cases a 90mm thick external wall is assumed.
 For girder truss loads use a minimum of: L3 where girder carries more than 10sq.m. of roof and L4 where girder carries more than 18sq.m. of roof.
 600mm overhangs allowed for in the tables.
 SED designates that a Specific Design is required.
PRYDA BUILDER'S GUIDE

PRYDA BUILDER'S GUIDE



WALLS

ACCEPTABLE SOLUTIONS IN CONJUNCTION WITH TABLES 8:14 & FIG 8:12 OF NZS3604:2011



- For trimming stud thickness refer to Table 8.5 NZS 3604:2011. Additional studs to that shown to have a minimum stud to stud fixing of 11/90° 3.15 nails.
- Where a double stud which provides support for a lintel is shorter by 400mm or more than the full stud height, its thickness shall not be included as contributing to the thickness of trimming studs.
- Studs & jacks to be fixed to top plate in accordance with the Top Plate to Stud Fixing Guide on pg. 39. Same fixing is required for jack stud to lintel.

All capacities are limit state design values and not characteristic strength therefore these may be compared directly to Pryda design software output. Capacities assume a minimum timber grade of SG8.

PRYDA BUILDER'S GUIDE

1000

PURLINS AND RAFTER FIXINGS VERY HIGH WIND ZONE

Table 10.10 – Purlins on their flat in all wind zones – SG 8 (see 10.2.1.16.1)

Purlin size	Max. span	Maximum spacing and fixing in the following wind zones									
		Low		Medium		High		Very high		Extra high	
		Spacing	Fixing	Spacing	Fixing	Spacing	Fixing	Spacing	Fixing	Spacing	Fixing
	(mm)	(mm)	(type)	(mm)	(type)	(mm)	(type)	(mm)	(type)	(mm)	(type)
70 x 45	900	900	S	900	T	900	T	900	T	900	U
70 x 45	900	1200	T	1200	T	1200	T	1050	U	900	U
70 x 45	900	1800	T	1800	U	1400	U	1050	U	900	U
70 x 45	1200	1200	T	1150	T	800	T	600	T	500	T
70 x 45	1200	1300	T	1150	T	800	T	600	T	500	T
90 x 45	1200	1700	T	1450	U	1000	U	750	U	650	U
Fixing type	Description		Alternative fixing capacity (kN)								
S	2 / 90 x 3.15 gun nails		0.8								
T	1 / 10g self-drilling screw, 80 mm long		2.4								
U	1 / 14g self-drilling type 17 screw, 100 mm long		5.5								

NOTE – All fixing types are determined as required for the higher uplift loads at the periphery of the roof (based on local pressure factors in AS/NZS 1170.2).

Rafter size (width x thickness)	Rafter spacing (mm)							
	480		600		900		1200 (see Note (4))	
	Span	Fixing	Span	Fixing	Span	Fixing	Span	Fixing
(a) Ordinary rafters for light and heavy roofs								
(mm x mm)	(m)	(type)	(m)	(type)	(m)	(type)	(m)	(type)
90 x 45	1.3	E	1.3	E	1.2	E	1.3	E
140 x 45	2.7	E	2.5	E	2.2	E	2.2	E
190 x 45	3.5	E	3.3	E	2.8	E	2.5	E
240 x 45	3.8	E	3.5	E	3.1	E	2.8	E
290 x 45	4.1	E	3.8	E	3.3	E	3.0	E
140 x 70	3.2	E	2.9	E	2.6	E	2.8	E
190 x 70	4.3	E	4.0	E	3.5	E	3.7	E
240 x 70	5.4	E	5.1	E	4.4	E	4.3	F
290 x 70	6.4	E	5.9	E	5.1	E	4.6	F
140 x 90	3.4	E	3.2	E	2.8	E	3.0	E
190 x 90	4.7	E	4.3	E	3.8	E	4.1	F
240 x 90	5.9	E	5.5	E	4.8	F	5.1	F
290 x 90	7.2	E	6.7	E	5.8	F	5.9	F

The table gives maximum spans for Extra high wind zone. In other wind zones, span lengths shall be multiplied by the following factors:

Low and Medium:	1.3	High and Very high:	1.1
-----------------	-----	---------------------	-----

Fixing type	Description	Alternative fixing capacity (kN)
E	2 / 90 x 3.15 skew nails + 2 wire dogs	4.7
F	2 / 90 x 3.15 skew nails + strap fixing (see figure 10.6)	7.0

NOTE –
 (1) Rafter spans may be increased by 10 % for rafters continuous over 2 or more spans that have not been birdsmouth jointed at intermediate supports.
 (2) Fixing types at intermediate supports for rafters running continuously over those supports shall have double the capacity of the fixing types given in this table.
 (3) Members 90 mm thick may be substituted with built-up members sized and nailed in accordance with AS/NZS 1170.2.
 (4) Rafter spacing of 1200 mm does not include heavy roofs.



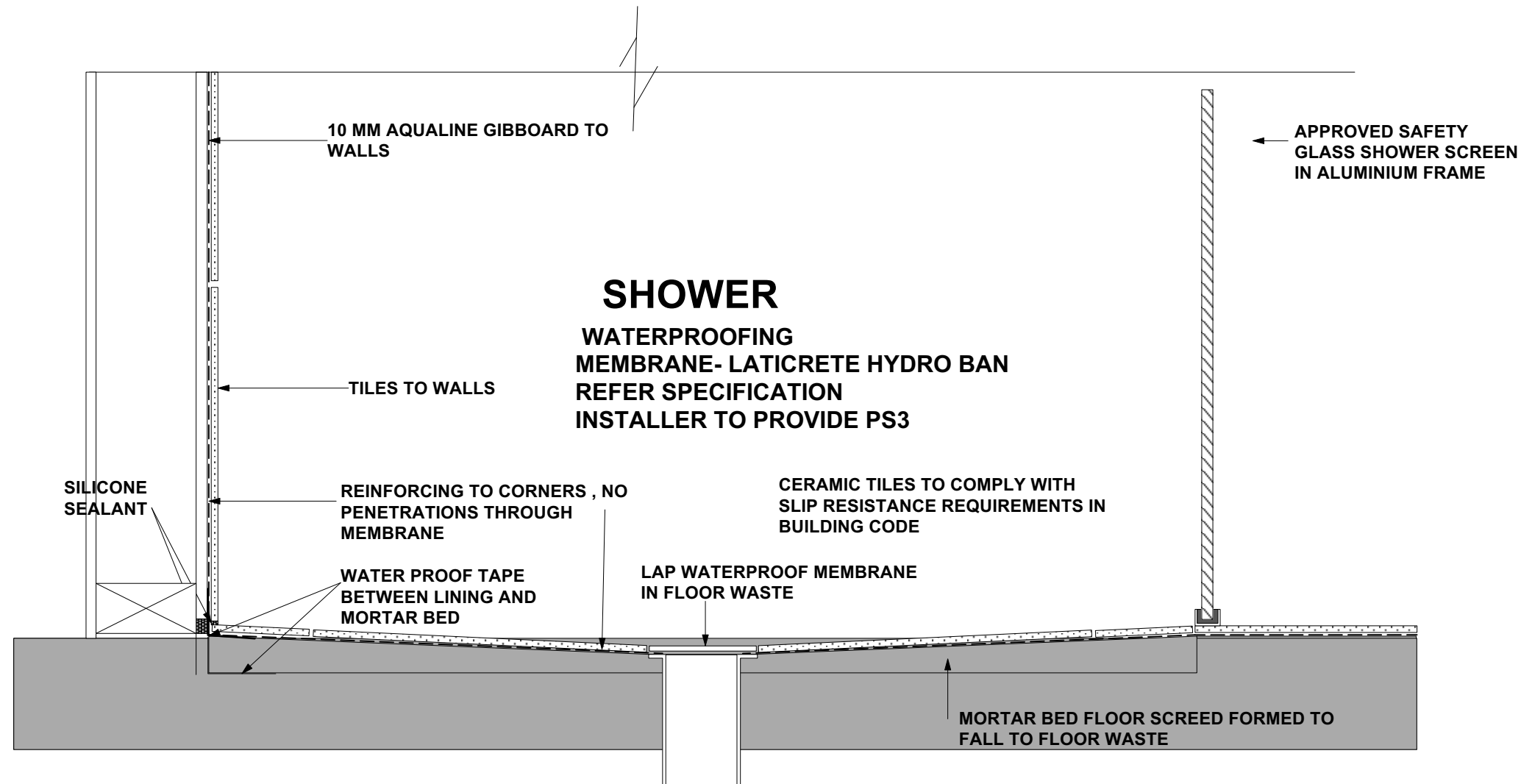
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Table 8.18 – Fixing of top plate of wall to supporting members such as studs and lintels at 600 mm centres (see 8.7.6 and figure 8.12)

Loaded dimension of wall (m)	Light roof					Heavy roof									
	Roof member spacing (mm)														
	900					1200									
	Wind zone					Wind zone									
	L	M	H	VH	EH	L	M	H	VH	EH	L	M	H	VH	EH
Fixing type (see below)															
2.0	A	A	B	B	B	A	A	B	B	B	A	A	A	B	B
3.0	A	B	B	B	B	A	B	B	B	B	A	A	B	B	B
4.0	A	B	B	B	B	A	B	B	B	B	A	A	B	B	B
5.0	B	B	B	B	B	B	B	B	B	B	A	A	B	B	B
6.0	B	B	B	B	B	B	B	B	B	B	A	A	B	B	B
Fixing type	Fixing to resist uplift										Capacity of alternative fixing (kN)				
A	2 / 90 x 3.15 end nails										0.7				
B	2 / 90 x 3.15 end nails + 2 wire dogs										4.7				

TOP PLATE FIXINGS VERY HIGH WIND ZONE



BATHROOM / ENSUITE DETAILS 1:5

SHOWER DETAILS

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SITE MANAGEMENT AND PROTECTION OF PUBLIC

- NO HAZARDOUS BUILDING MATERIALS TO BE STORED ON SITE
- BUILDER TO INSTALL CONSTRUCTION SITE WARNING SIGNS TO ROAD BOUNDARY FENCE.
- ALL TRUCKS TO HAVE MUD WASH OFF WHEELS WHEN LEAVING SITE, ENSURE NO MUD ENTERS ROAD STORMWATER SYSTEM.

STANDARD 1.8 M HIGH PALING FENCE

AREA TO BE EXCAVATED APROX 50 M3

ALL WEATHER ACCESS FORM HARD STANDING AREA
SECURITY GATE

STANDARD 1.8 M HIGH PALING FENCE

SEDIMENT CONTROL FENCE

TEMPORARY SECURITY FENCE

x 10.47 m

BOUNDARY 37.0 M

x 10.33 m

3000

x 10.12 m

x 10.250 m

BOUNDARY 16.5 M

x 10.260 m

WIRE NETTING SECURITY FENCE 1.8 M HIGH WITH POSTS AT MAX 2.5 M CRS.

700 MM

SEDIMENT FENCE FABRIC

SEDIMENT CONTROL SILT SOCK OR EARTH MOUND

3000

BOUNDARY 32.0 M

x 10.00 m

x 10.00 m

x 9.975 m

x 9.970 m

SEDIMENT CONTROL PLAN 1:100

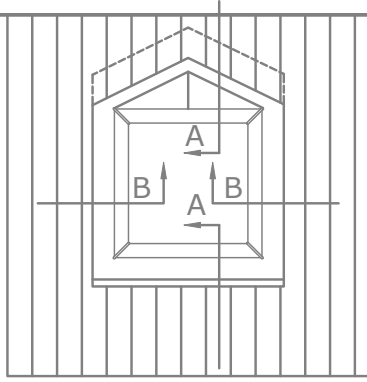
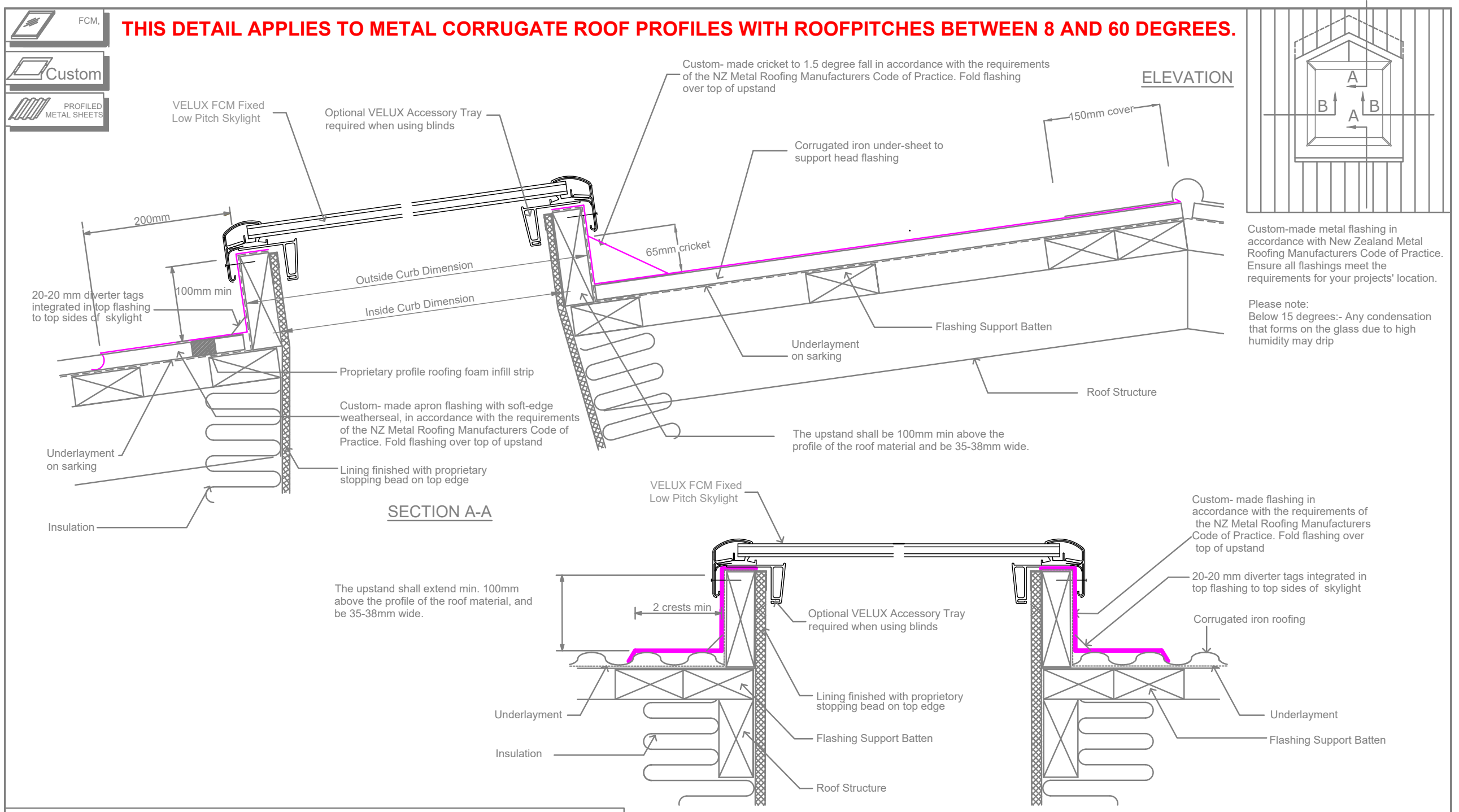
1 MORaine STREET, LINCOLN NEW HOUSE

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A SIDE FENCING REVISED 25-78-2022



Custom-made metal flashing in accordance with New Zealand Metal Roofing Manufacturers Code of Practice. Ensure all flashings meet the requirements for your projects' location.

Please note:
Below 15 degrees:- Any condensation that forms on the glass due to high humidity may drip

BRANZ APPRAISED CUSTOM WATER-SHED FLASHING

No cricket or diverter required when skylight is less than 600mm wide, and catchment less than 40 sqm.

Custom flashings must be designed to meet the requirements set out in the latest version of the New Zealand Metal Roof and Wall Cladding Code of Practice, and shall be manufactured and installed by a specialist flashing contractor to the latest trade practices.

The flashing and installation must be guaranteed against weathertightness by the specialist flashing contractor. Insulation material meeting the requirements of NZBC/H1 is required in the cavities of the lightwell structure.

VELUX Sky-Product Management	NEW ZEALAND LTD. 0800 650 445		Name	Date
	VELUX FCM Fixed Low Pitch Skylight in Corrugated Steel Roof with metal water-shed flashing (8-60 degrees)		Drawn by	Feb 19
			Checked by	Feb 19
			Drawing No.	

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FLEXIBLE FLASHING TAPE TO FINISH OVER ENTIRE LENGTH OF THE TOP OF THE HEAD FLASHING

BUILDING PAPER/WALL WRAP TAPED TO WINDOW HEAD WITH FLASHING TAPE AS PER E2/AS1

DPC HEAD FLASHING TO CONTINUE PAST SIDE FLASHINGS TO ENSURE DISCHARGE FROM HEAD TO SILL

FLEXIBLE FLASHING TAPE, AS PER E2/AS1, TO ATTACH THE BUILDING PAPER/WRAP AROUND OPENING

HEAD AND SIDE FLASHINGS MADE FROM 150mm DPC

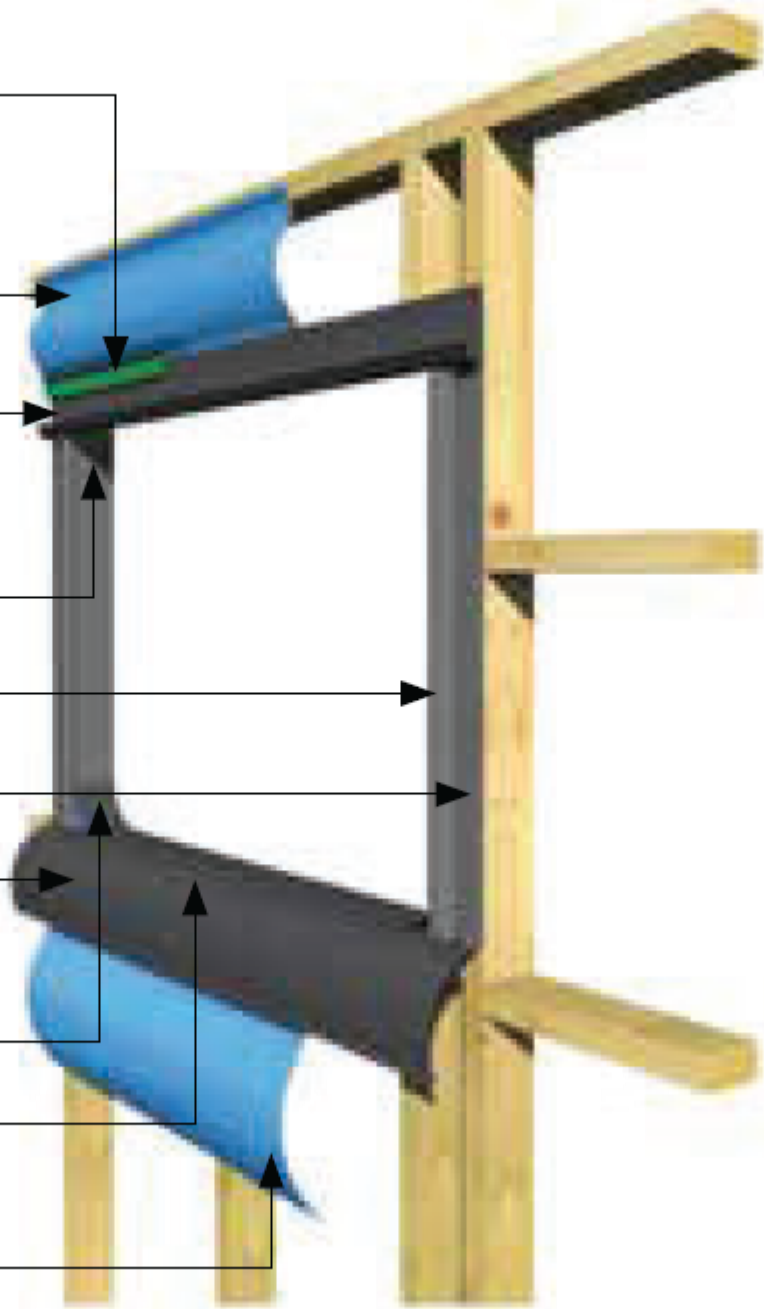
SIDE U SHAPED DPC FLASHING TO CONTINUE PAST TOP OF SILL FLASHING

SILL FLASHING TO PROJECT 150mm PAST OPENING

DPC SILL FLASHING, BENT UP 100mm INSIDE FRAMED OPENING

SILL TRAY FLASHING FROM 300mm DPC STAPLED TO FRAME

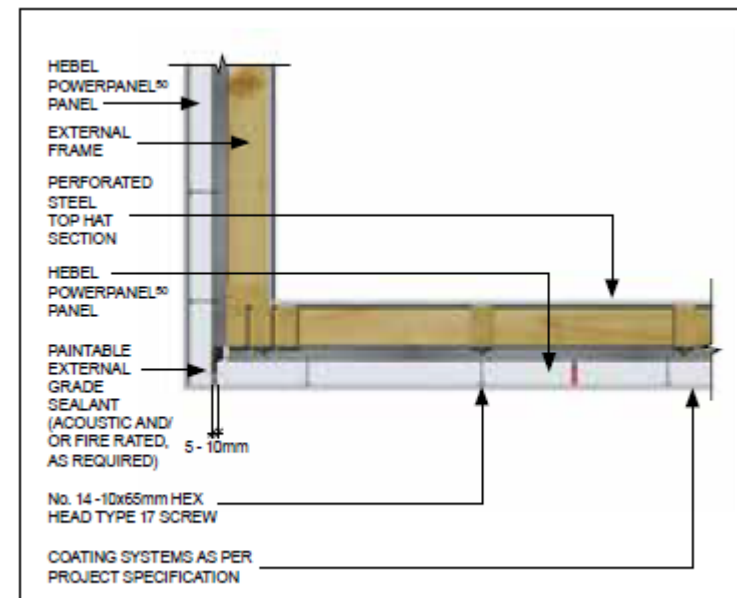
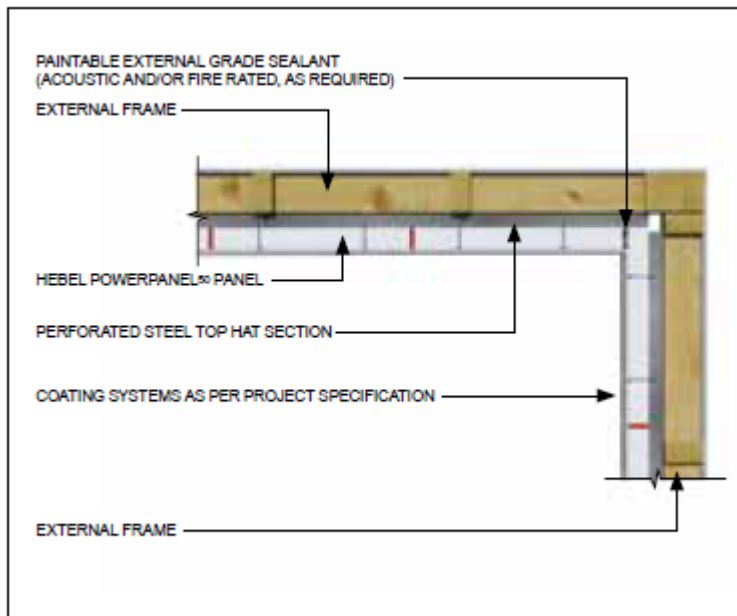
SILL TRAY FLASHING INSTALLED BY OWNER, ON TOP OF THE SILL FRAMING AND BENT DOWN WITH 200mm DRAPED INTO THE CAVITY SPACE



Note:

1. Window frame not shown. Dpc sill flashing is installed, Before window is installed. Side & head flashing installed After window is installed.
2. Typical head and jamb details apply at all doors Including garage doors.
3. Detail applies at meter boxes and square edge Penetrations of dimension larger than 100mm.

HEBEL WINDOW FLASHING DETAIL



HEBEL INTERNAL CORNER DETAIL

HEBEL EXTERNAL CORNER DETAIL

HEBEL DETAILS

NEW HOUSE

LOT 765 ROSEMERRYNS SUBDIVISION, LINCOLN

RIBRAFT DRAWINGS



ENGCO
Consulting Engineers

File Number 22008.116

Sheet No.	Rev	Date Issued	Sheet Title
S1	-	16.06.2022	General Notes
S2	A	05.07.2020	RibRaft Layout Foundation Plan
S3	-	16.06.2022	Typical Foundation Sections
S4	-	16.06.2022	Typical Foundation Sections
S5	A	05.07.2020	Typical Foundation Sections
S6	-	16.06.2022	Typical Foundation Sections
S7	-	16.06.2022	Typical Services Penetration Details
S8	A	05.07.2020	Framing Plans
S9	A	05.07.2020	Structural steel Details

Issue Register

Date	Description
16.06.2022	Consent Issue
05.07.2020	Revised where it's clouded

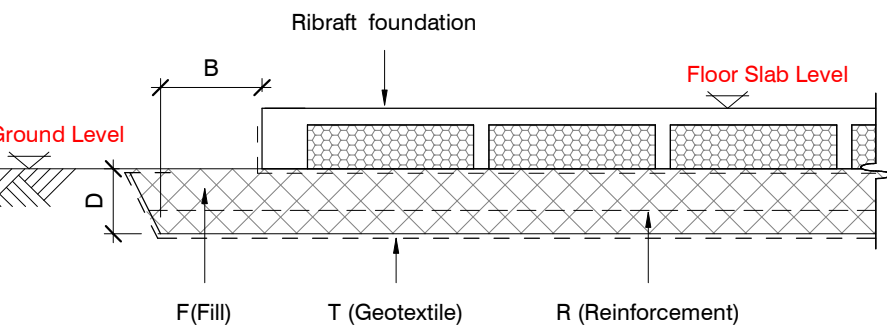
GENERAL

- These drawings are not to be used for construction until the plan (sheet S2) is signed by the main contractor.
- Do not scale. Refer any discrepancies to the Architect.
- These drawings are to be read in conjunction with the Architects drawings.
- The builder shall be responsible for any damage to works during construction.
- The sand blinding layer shall be 20mm min. & 50mm max. to aid levelling & to prevent rocking of pods.
- Vapour barrier to be 0.25mm (250 micron) polythene complying with NZS 4229 / NZS 3604 .
- Finished ground level adjacent to slab to be protected from wind, water erosion and undermining.

FOUNDATIONS

- For assumed allowable bearing capacity refer to calculations/installer guide. Unless otherwise noted in documentation.
- If there is any doubt about the integrity of the material on which the slab is to be founded - Supervising Engineer must be notified immediately.

GEOTECHNICAL REFERENCE:
 Refer: ENGCO Consulting Engineers
 Geotechnical Report
 Ref. No: 19120.000.0001_67
 Dated: 07 June 2022
 Bearing: 200kPa



BUILDING PLATFORM

CONCRETE

- All workmanship & materials to conform to NZS 3109, NZS 4210 & local authority regulations.
- Minimum covers to reinforcement:
 - Exposed to earth - 75mm.
 - Protected by vapour barrier - 50mm.
 - Not exposed to weather except for a brief period during construction - 25mm.
- No holes or chases other than those specified are to be made in the slab without the approval of Engco.
- All concrete shall have 20mm nominal maximum aggregate size & 120mm slump & shall comply with NZS 3109.
- All concrete to be mechanically vibrated & carefully worked around the reinforcement & into the corners of the formwork.
- Ribraft make-up to be

100mm Floor Slab - 220mm pods
 (20MPa min. TC2 Dramix 4D 80/60 Fibre Mix Concrete)
 G500E SE62 Ductile mesh on 50mm chairs

The design Fibre mix shall be supplied so that the residual flexural tensile stresses $f_{R,1}$ & $f_{R,4,K}$ shall be 1.5 MPa & 1.0 MPa respectively.

INSPECTIONS

Inform ENGCO Consulting 48 hours in advance of any inspections required for code compliance certification.
 Contact ENGCO - Ph. 03 366 7955 & quote ENGCO Ref. No.

INSPECTIONS REQUIRED

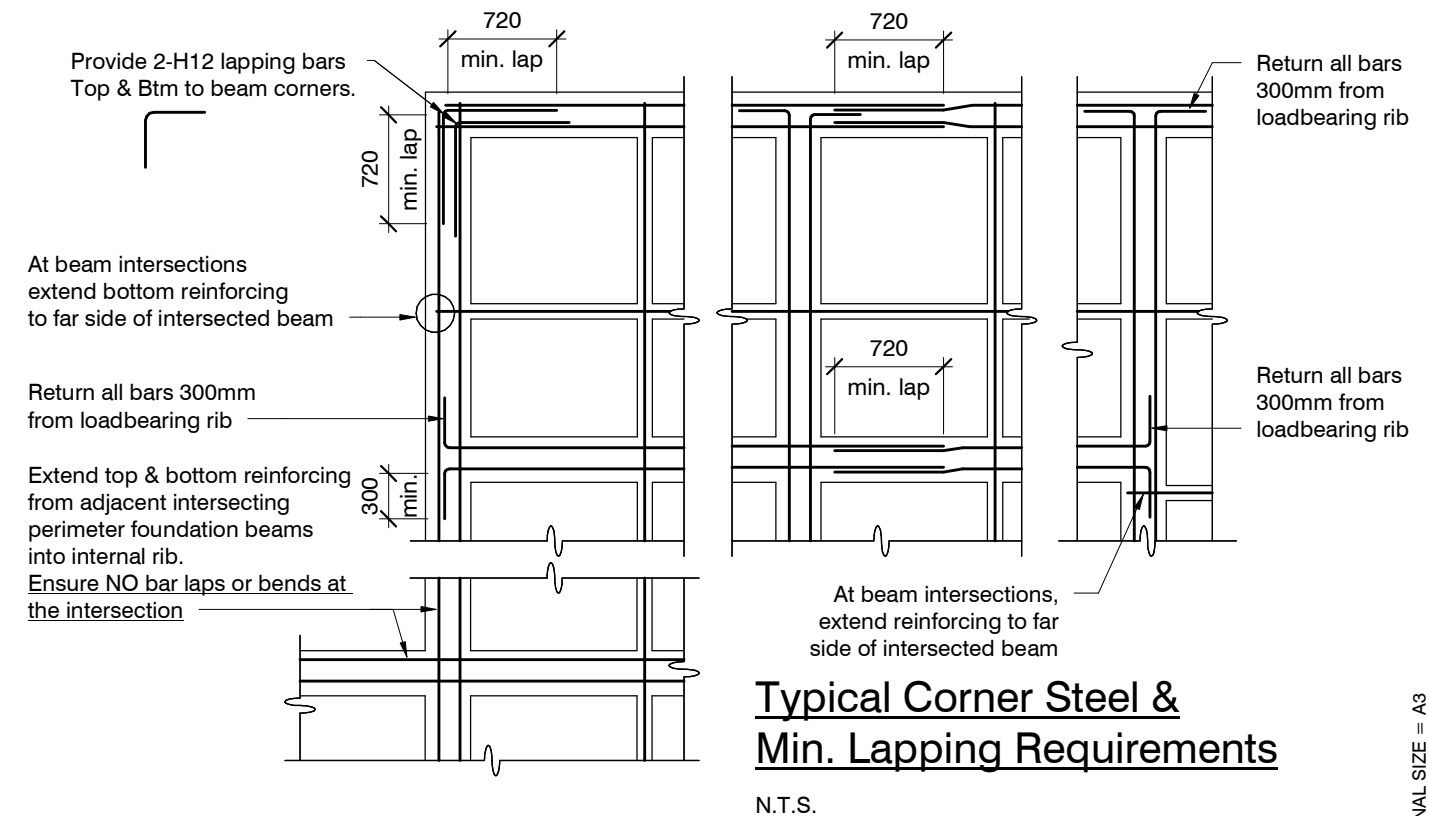
1. Confirm bearing at excavation - by ENGCO
2. Contractor to supply (4) N.D. Tests at finished compacted surface - if depth of fill is greater than 400mm.
3. Pre-pour of slab - by ENGCO

BUILDING PLATFORM TABLE:	
B	500mm
D	300mm below ground level (approximately).
T	N/A
R	N/A
F	AP40 or AP65 fill - 95% Dry Density. Compact in 150mm layers max.

Refer Architectural drawings for Finished Floor Level

REINFORCEMENT

- All reinforcing shall be New Zealand sourced and conform to AS/NZS 4671 :2001 in grade 300 or grade 500E.
- All bends to be made cold without fracture.
- All reinforcing shall be deformed type unless otherwise stated.
- Grade 500E deformed bars shall be designated 'H', Grade 300 deformed bars shall be designated 'D' and Grade 300 round bars shall be designated 'R'.
- Minimum bar splice 720mm. (or unless otherwise noted).
- All reinforcement to be fixed & tied where necessary in its specified position.
- Welding of steel is not permitted.
- Spacers:
 - Edge at 1200mm ctrs (one on edge & two on corners, typically).
 - Internal one on each side of pod (typically).
- All mesh shall comply with AS/NZS 4671 & shall conform with elongation requirements exceeding 10%.
- All mesh shall lap a minimum of 250mm (end extensions not included in lap length).



Typical Corner Steel & Min. Lapping Requirements
 N.T.S.

SDC - Approved Building Consent Document - BC 221790 - Pg 23 of 32 - 15/09/2022 - bohmed

ORIGINAL SIZE = A3

revisions	-	16.06.2022	Consent Issue
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 03 366 7955
 office@engco.nz
 www.engco.nz

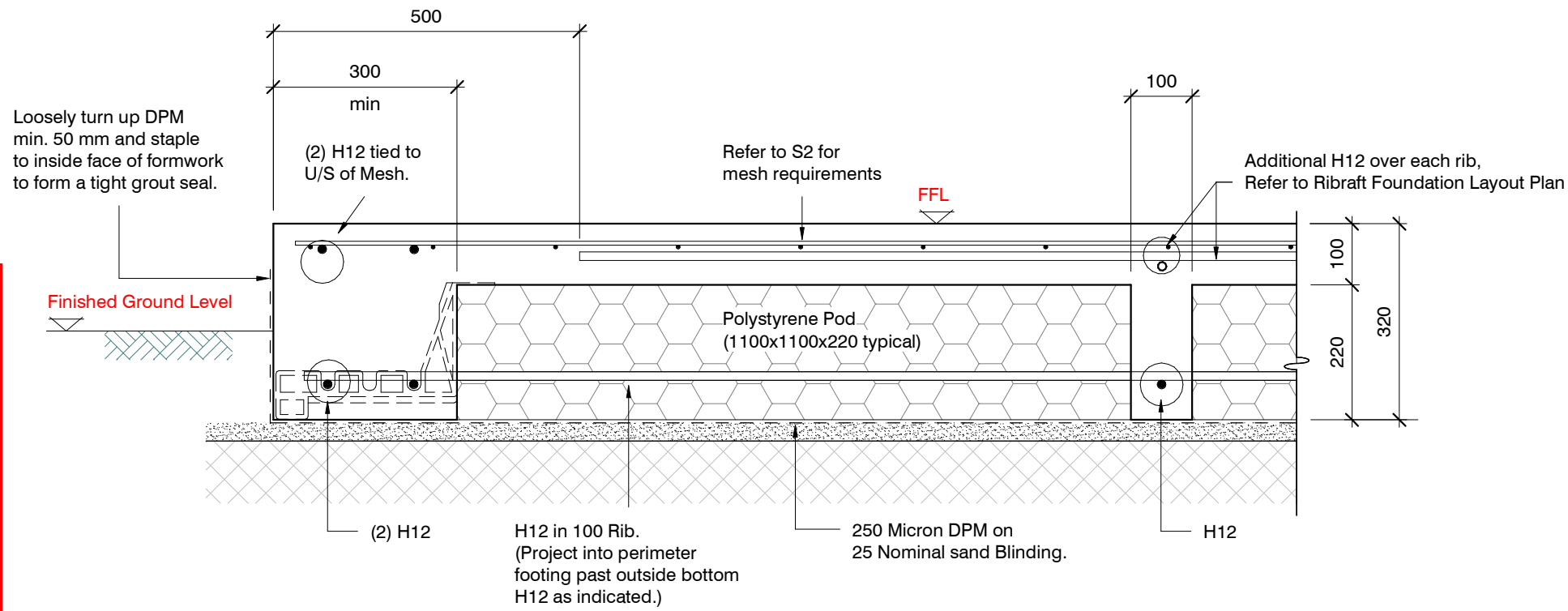
NNC DESIGN Ltd

NEW HOUSE
 LOT 765 ROSEMERRY SUBDIVISION, LINCOLN

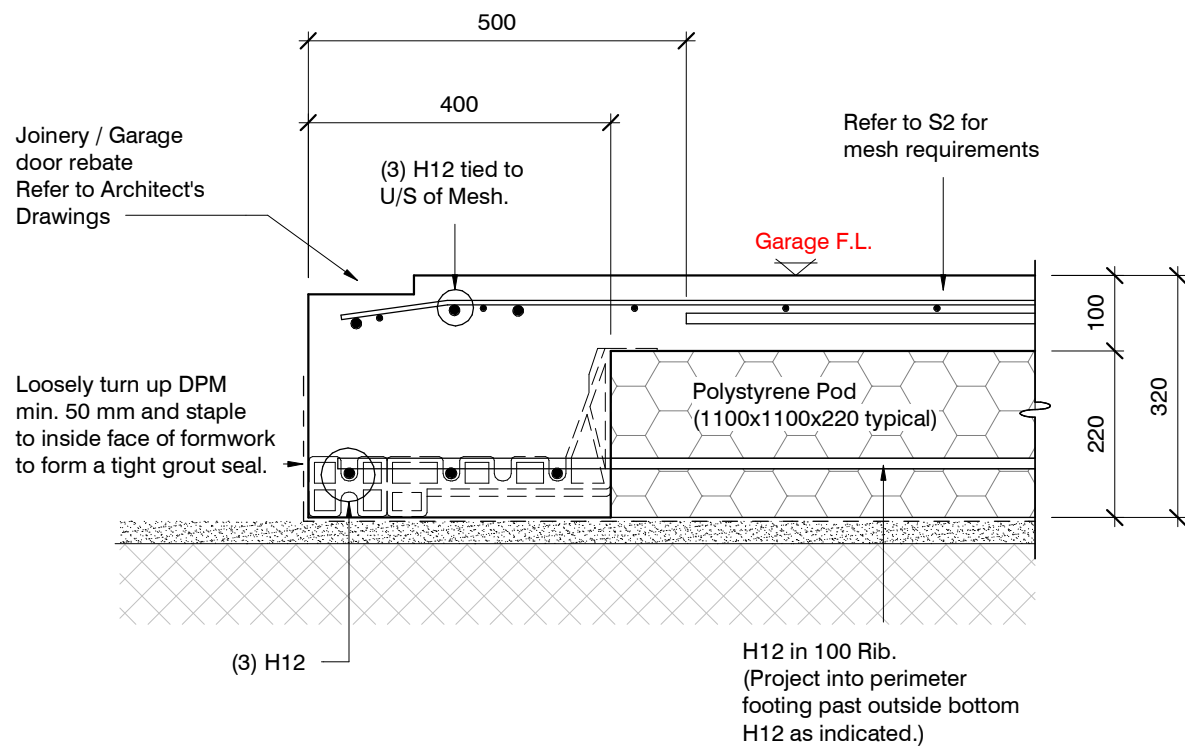
General Notes

design J. FARRÉS
 drawn C. DE MESA
 appvd M. CUSIEL
 date 16 JUNE 2022

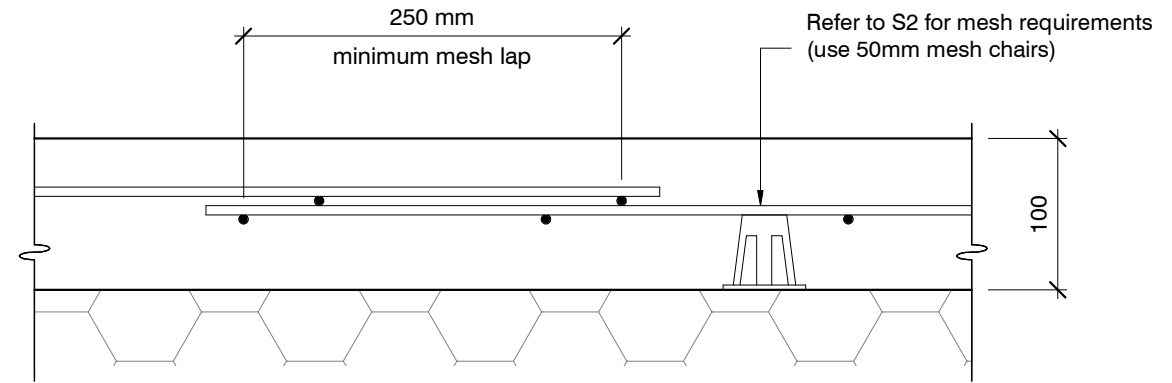
file 22008.116
 dwg S1
 rev. -



SECTION 1 TYPICAL 300 WIDE EDGE BEAM (with Rebate)
1 : 10 S2



SECTION 2 GARAGE DOOR REBATE
1 : 10 S2



TYPICAL MESH LAP & CHAIR REQUIREMENTS
1:5

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ORIGINAL SIZE = A3

revisions	date	description
-	16.06.2022	Consent Issue

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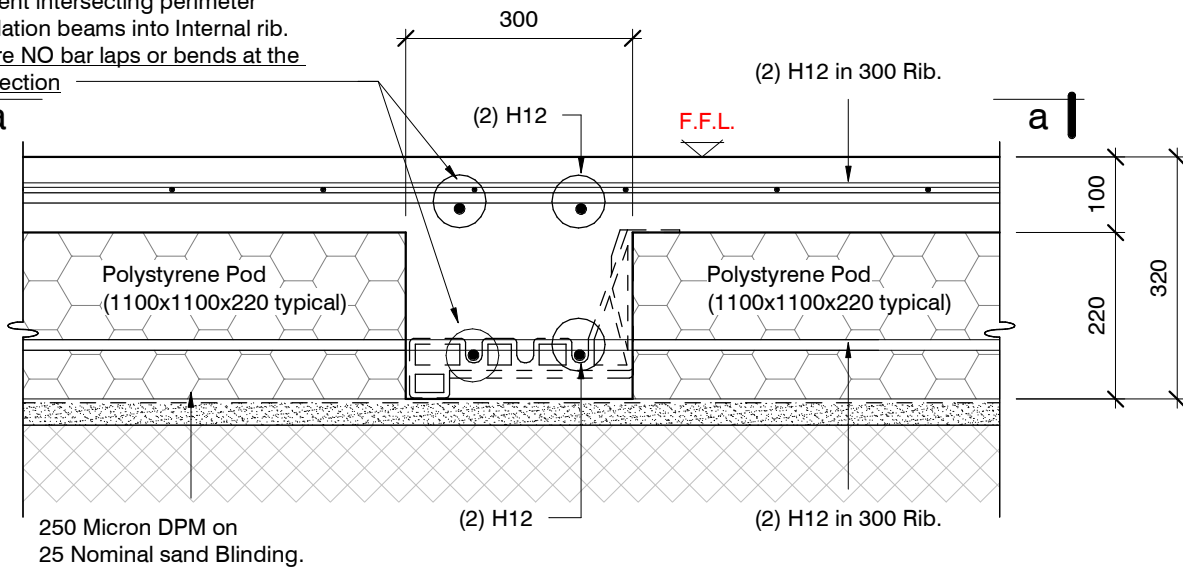
NEW HOUSE
LOT 765 ROSEMERRYN SUBDIVISION, LINCOLN

Typical Foundation Sections

design J. FARRÉS
drawn C. DE MESA
appvd M. CUSIEL
date 16 JUNE 2022

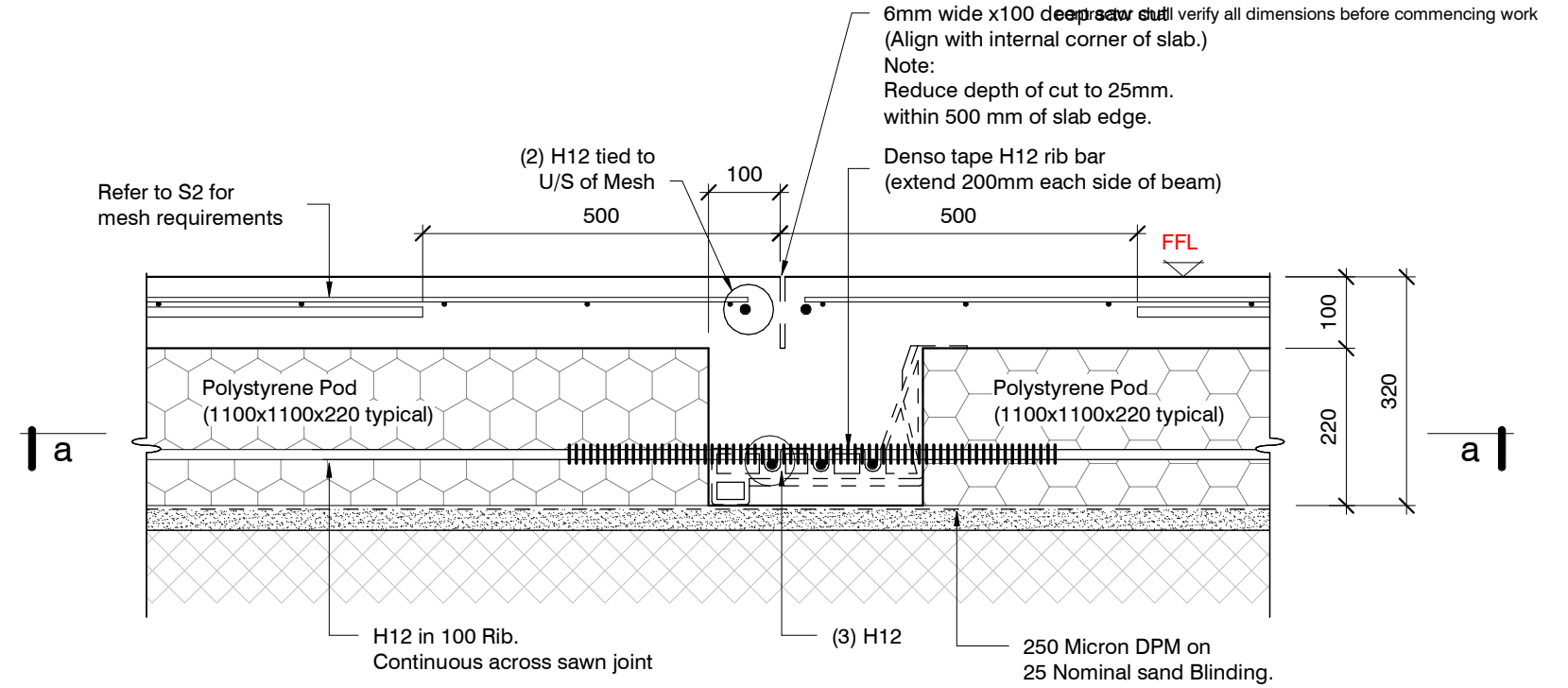
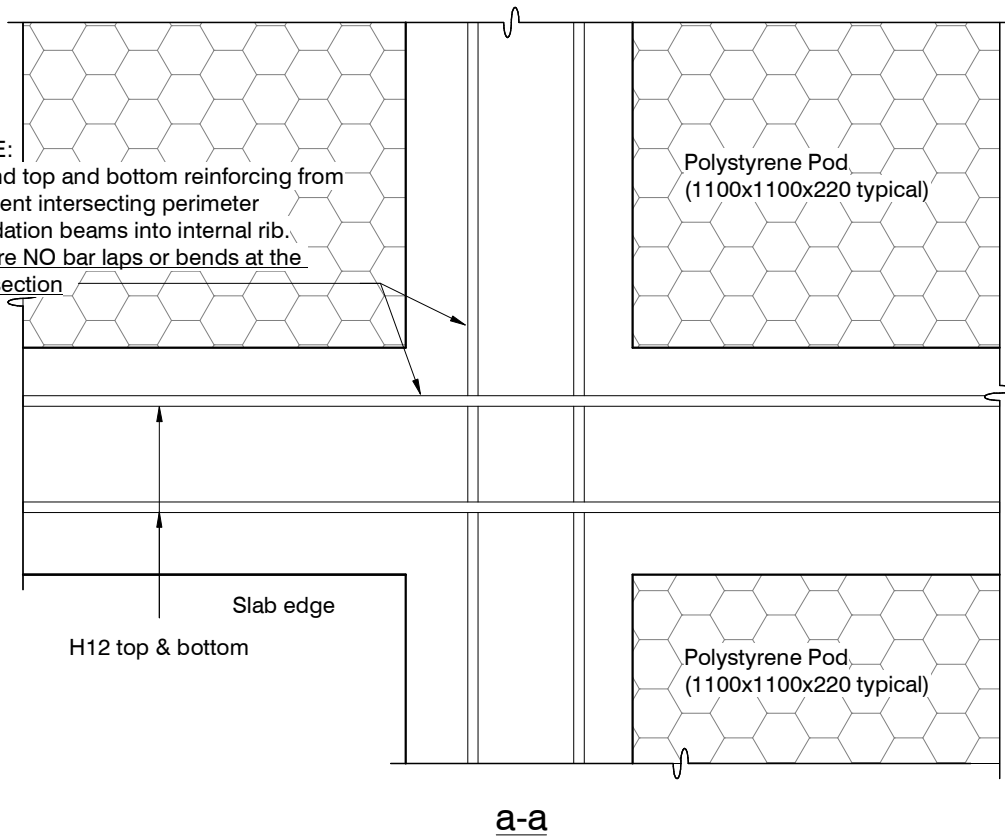
file **22008.116**
dwg **S3**
rev. -

NOTE:
Extend top and bottom reinforcing from adjacent intersecting perimeter foundation beams into internal rib. Ensure NO bar laps or bends at the intersection

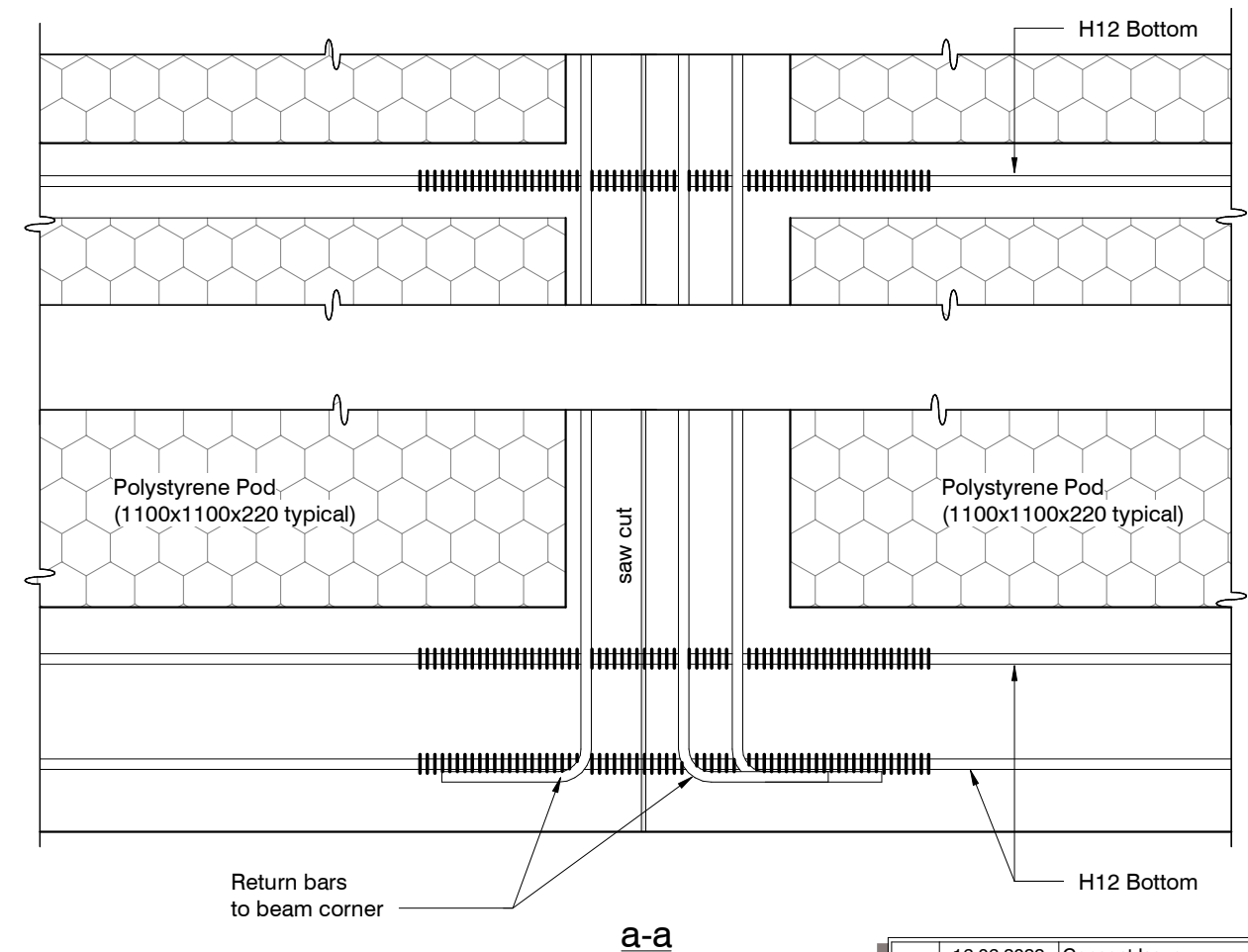


SECTION 3 TYPICAL 300 WIDE INTERNAL BEAM
1 : 10

NOTE:
Extend top and bottom reinforcing from adjacent intersecting perimeter foundation beams into internal rib. Ensure NO bar laps or bends at the intersection



SECTION 4 STANDARD TIED SAWN JOINT
1 : 10



Return bars to beam corner

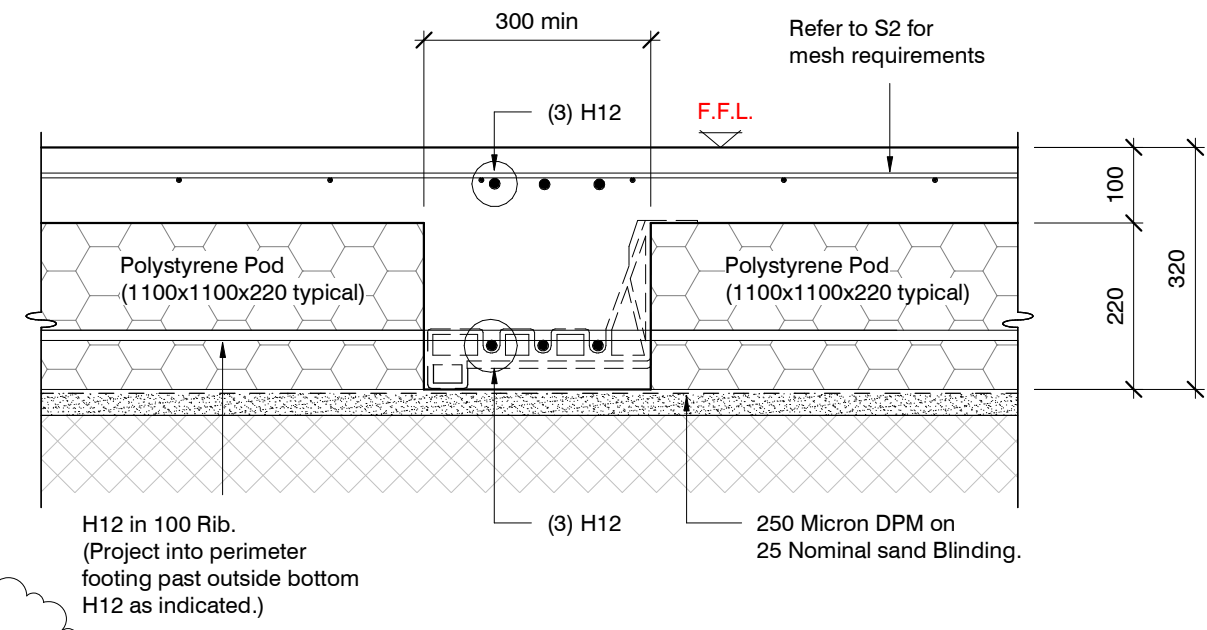
a-a

revisions	date	description
-	16.06.2022	Consent Issue

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ORIGINAL SIZE = A3

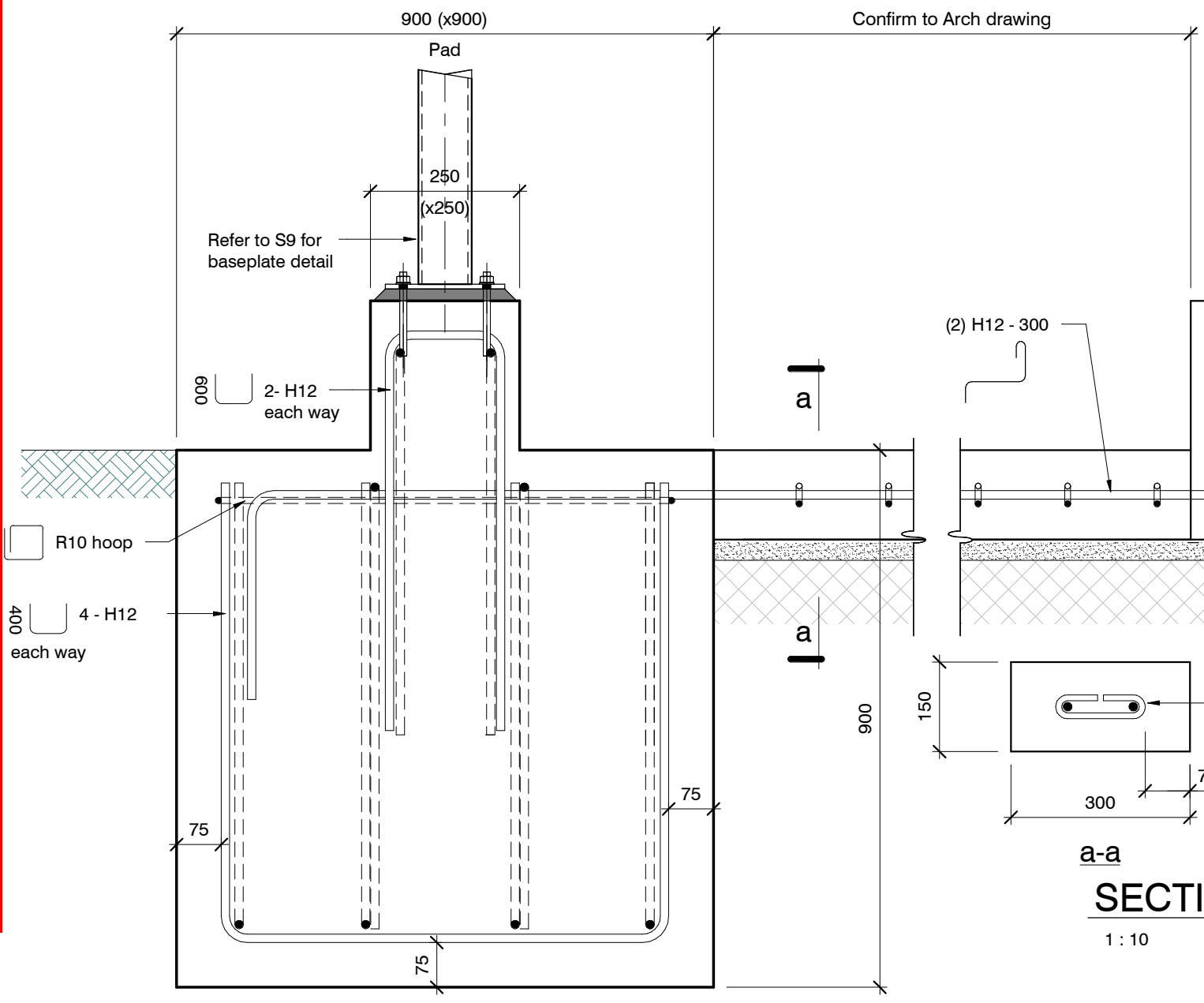
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H12 in 100 Rib.
(Project into perimeter footing past outside bottom H12 as indicated.)

Refer to S2 for mesh requirements

SECTION 5
1 : 10
S2



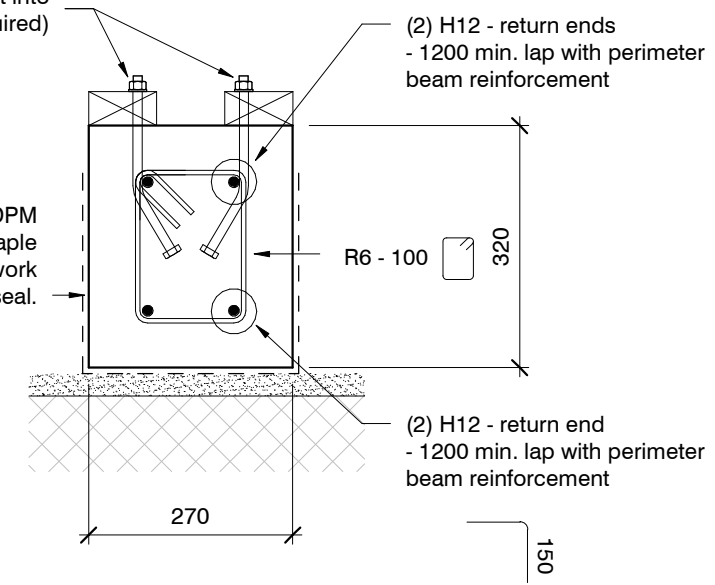
Refer to S9 for baseplate detail

Refer to Section 1 on Sheet S3 for reinforcement detail

SECTION 7 TYPICAL PAD
1 : 10
S2

M12 bolts cast into edge (as required)

Loosely turn up DPM min. 50 mm and staple to inside face of formwork to form a tight grout seal.



SECTION 6 TYPICAL WINGWALL
1 : 10
S2

REVISIONS	DATE	DESCRIPTION
-	16.06.2022	Consent Issue
A	05.07.2020	Revised where it's clouded

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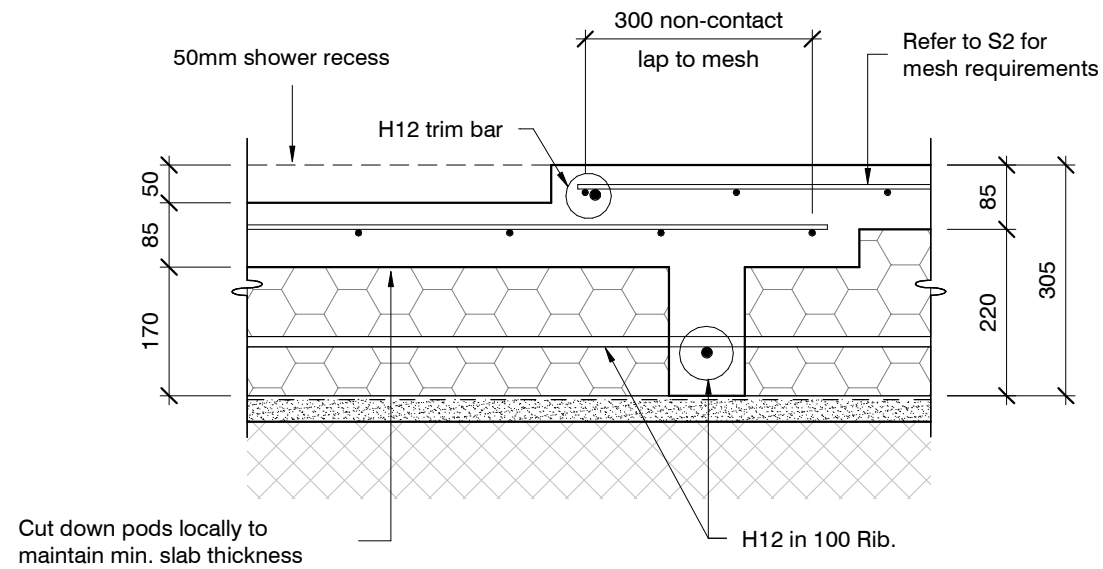
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LOT 765 ROSEMERRYN SUBDIVISION, LINCOLN

Typical Foundation Sections

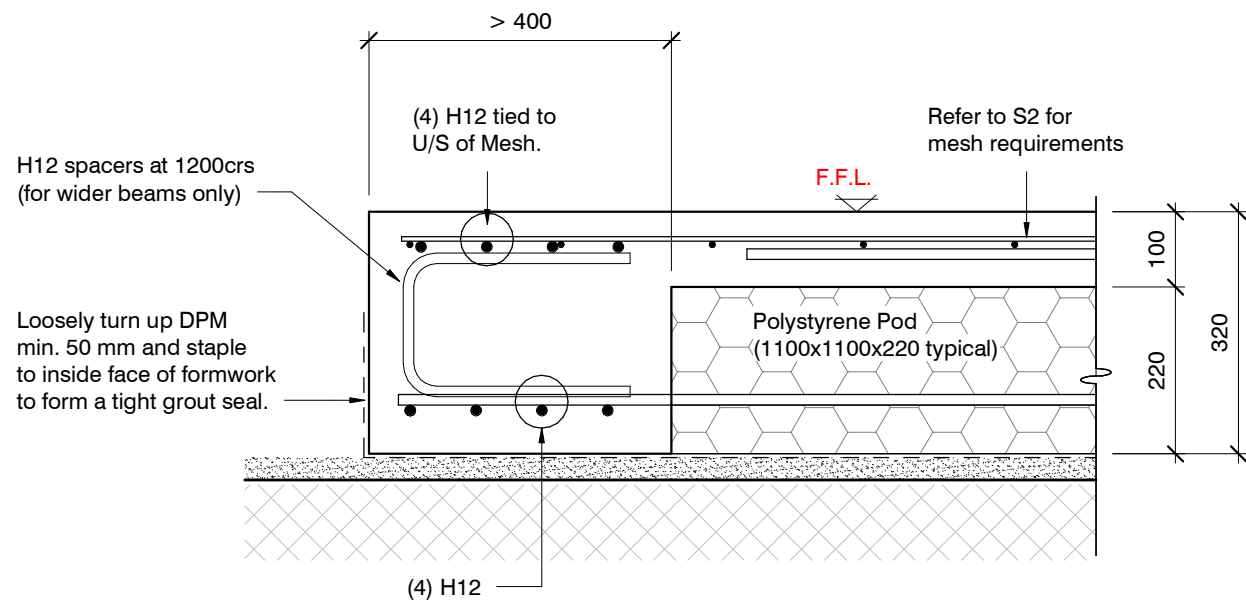
design J. FARRÉS
drawn C. DE MESA
appvd M. CUSIEL
date 16 JUNE 2022

file 22008.116
dwg S5
rev. A



TYPICAL SHOWER RECESS

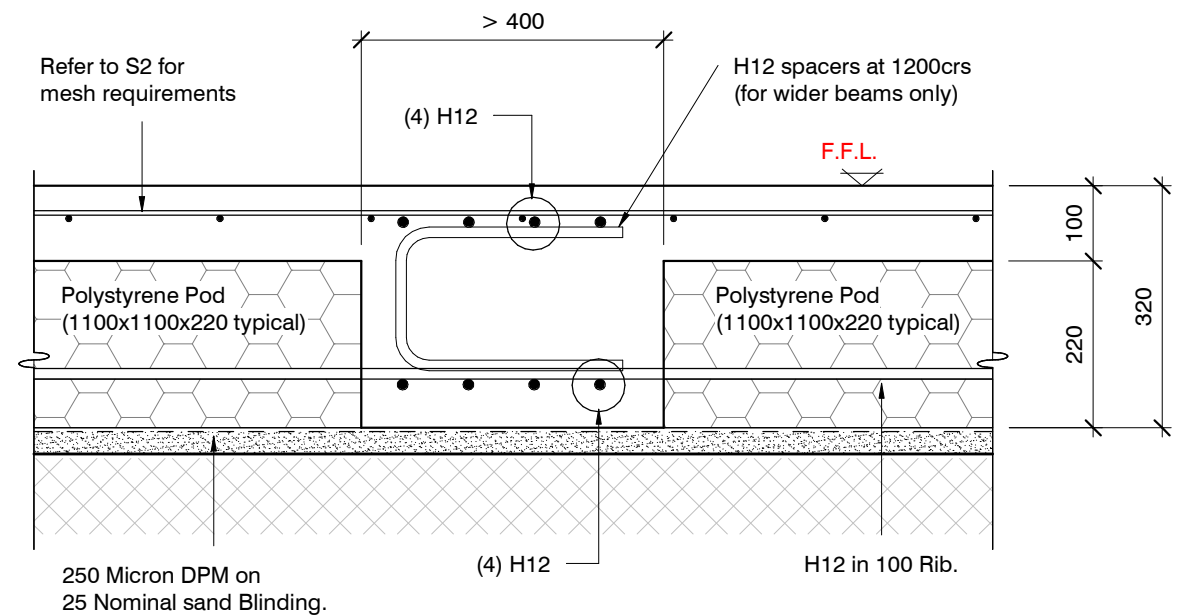
1 : 10



EDGE BEAM > 400mm IN WIDTH

1:10

if required



INTERNAL BEAM > 400mm IN WIDTH

1:10

if required

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ORIGINAL SIZE = A3

revisions	-	16.06.2022	Consent Issue

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drawn C. DE MESA
appvd M. CUSIEL
date 16 JUNE 2022

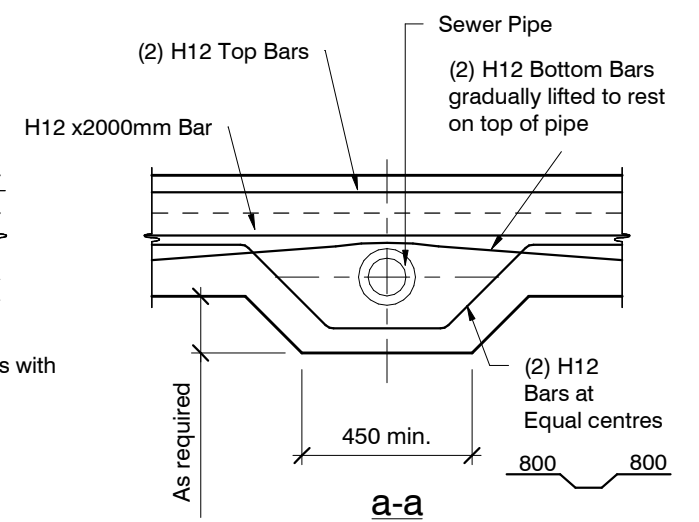
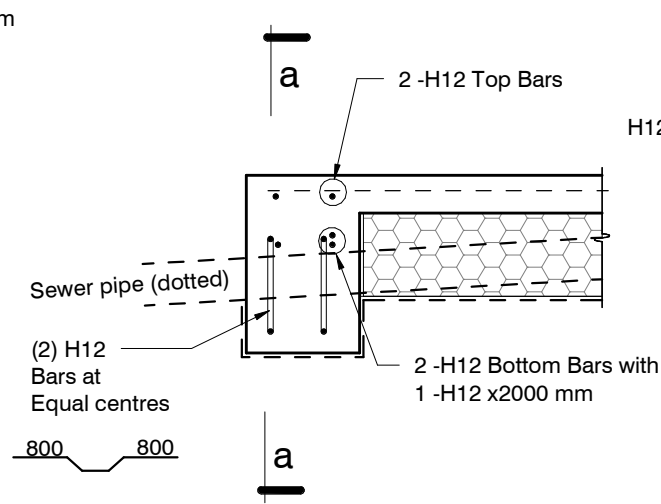
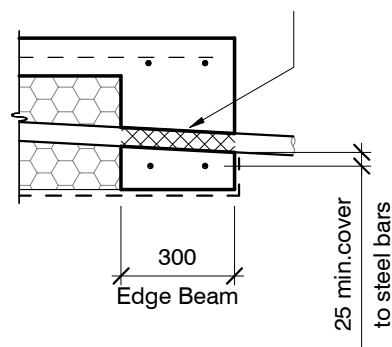
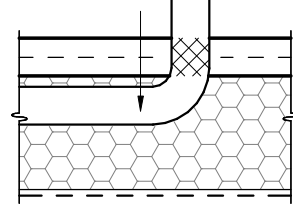
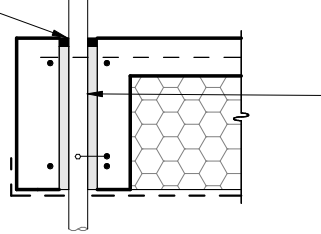
file **22008.116**
dwg **S6** rev. -

Flexible Sealant as required all round pipe perimeter

Sleeve 50 mm larger dia. than service pipe
Maximum sleeve dia. 150 mm located in central part of beam.
Polystyrene packing all around pipe.

Pipes can be run in Pods under slab panels. (Sleeve not required.)
Wrap in "Lagging" tape where pipe crosses slab

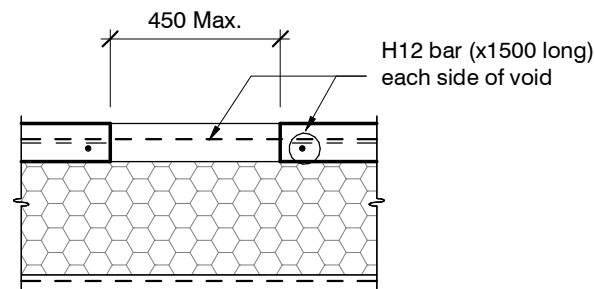
Pass pipe through edge beam
Avoid all reinforcing bars (Sleeve not required)
Wrap in "Lagging" tape



SLAB SERVICES PENETRATION DETAIL

PIPE NOTE:
No separation required where pipes are fully contained within slab.
Sleeve all drains that pass through the base of the slab.

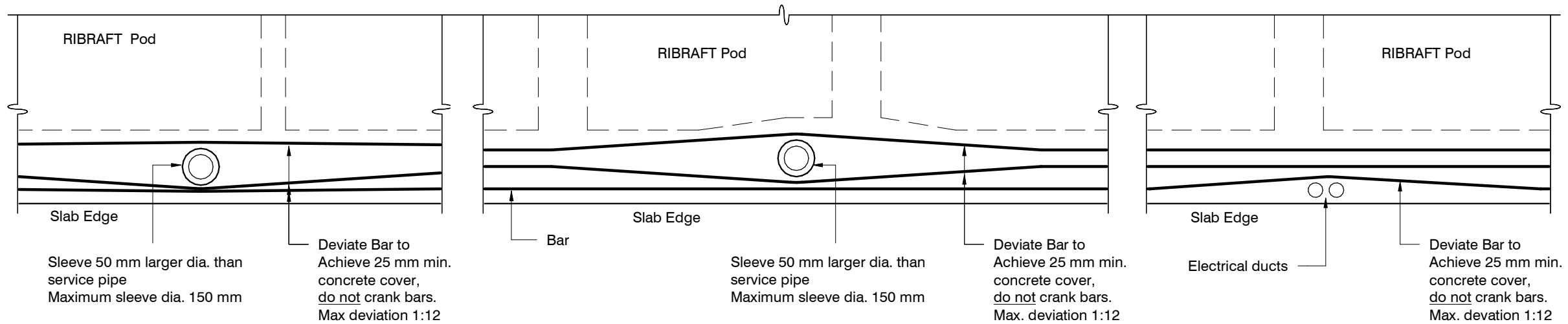
PENETRATIONS NOTE:
Where penetrations through Floor Slab exceed 450 mm Square, Crack Control Bars will be required.



LARGE SLAB PENETRATION DETAIL

TYPICAL SECTION

LOCALISED DEEPENING OF FOUNDATION BEAM TO ACCOMMODATE TOILET WASTE PIPE



Do not cut longitudinal reinforcement bars.

FOUNDATION SERVICES PENETRATION DETAILING.

Services shall not run along ribs or edge beams.

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ORIGINAL SIZE = A3

revisions	-	16.06.2022	Consent Issue
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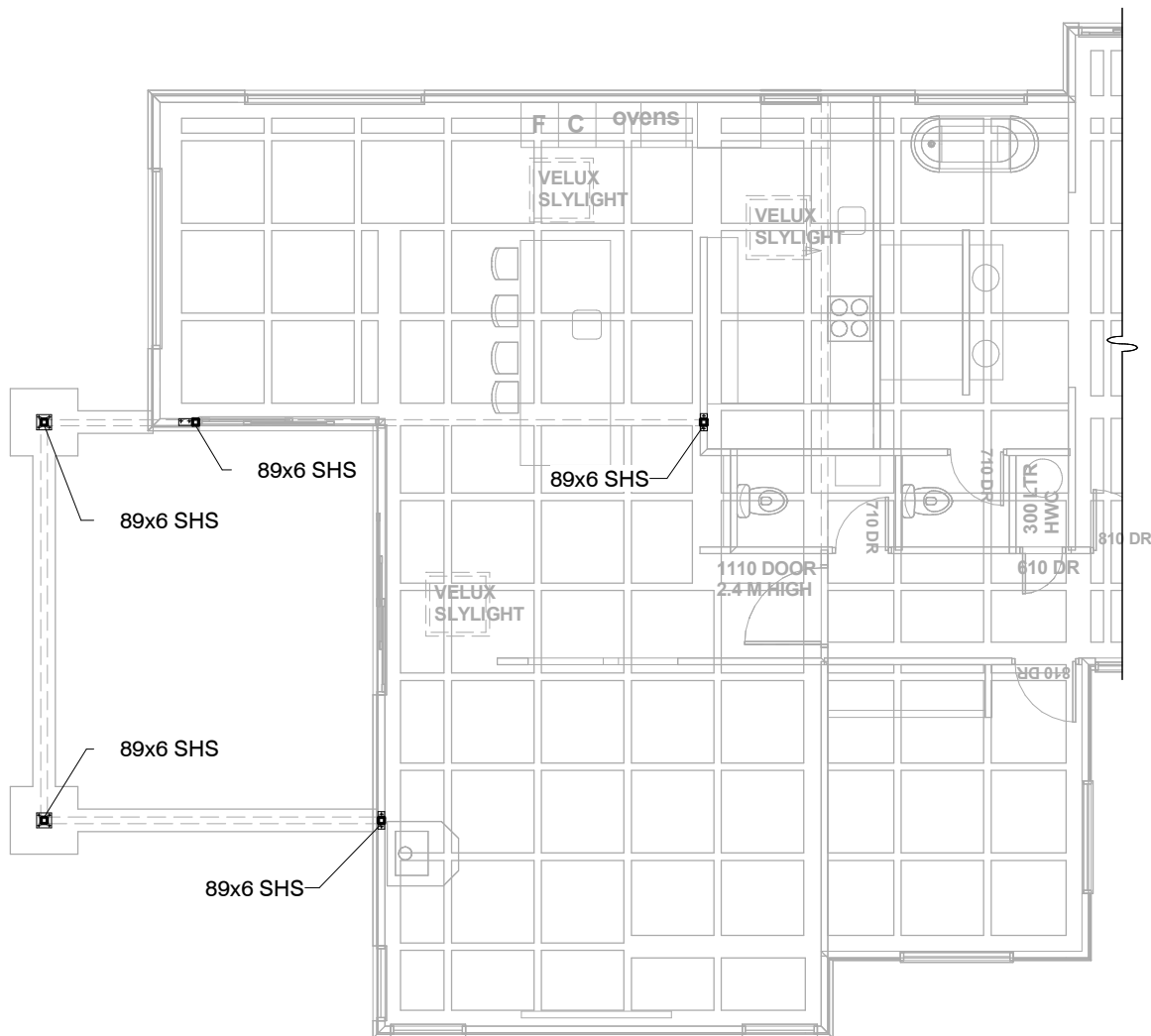
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Typical Services Penetration Details

design J. FARRÉS
drawn C. DE MESA
appvd M. CUSIEL
date 16 JUNE 2022

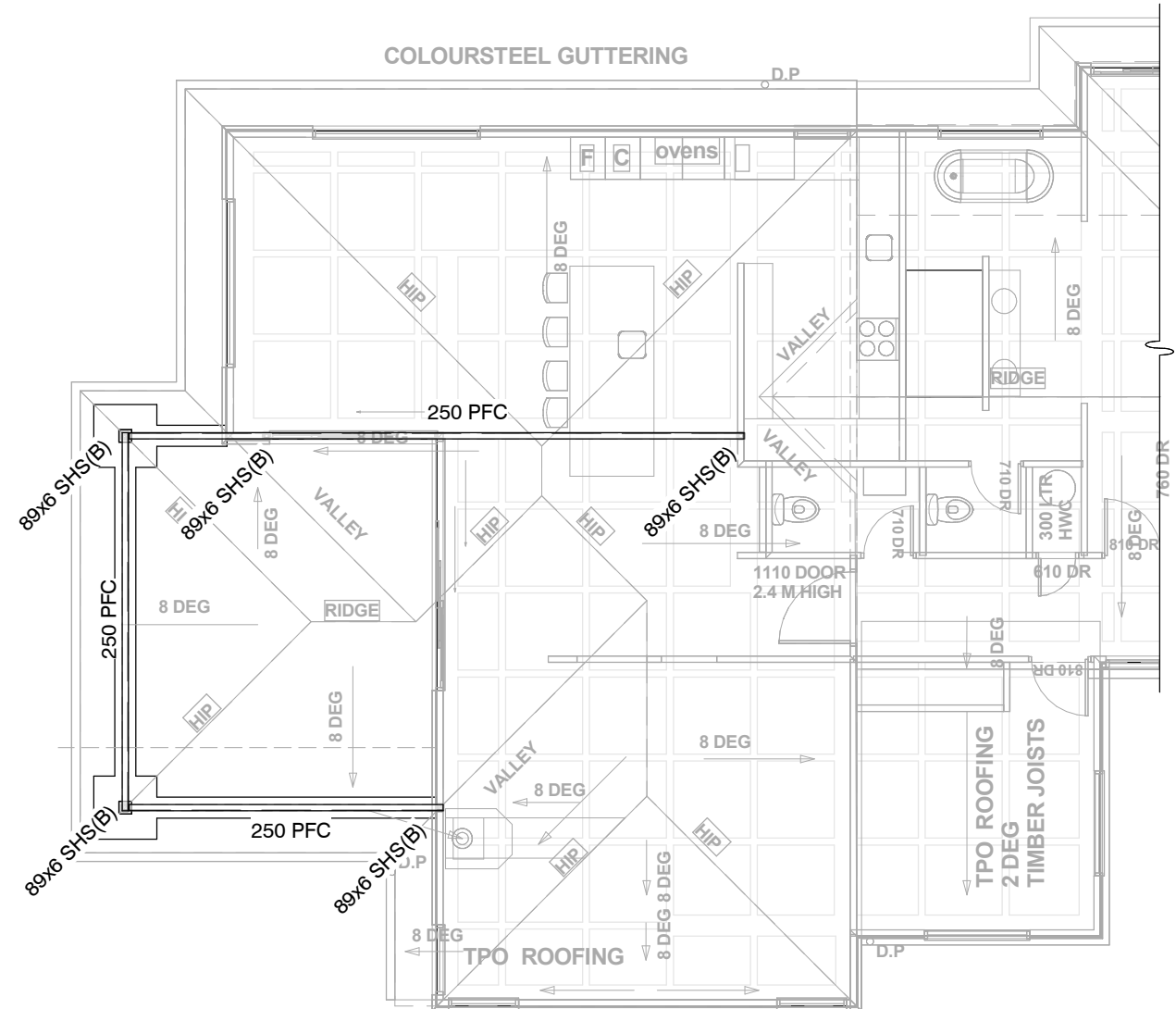
file **22008.116**
dwg **S7**
rev. -

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Ground Floor Plan

1 : 100



Roof Plan

1 : 100

ORIGINAL SIZE = A3

revisions		
-	16.06.2022	Consent Issue
A	05.07.2020	Revised where it's clouded

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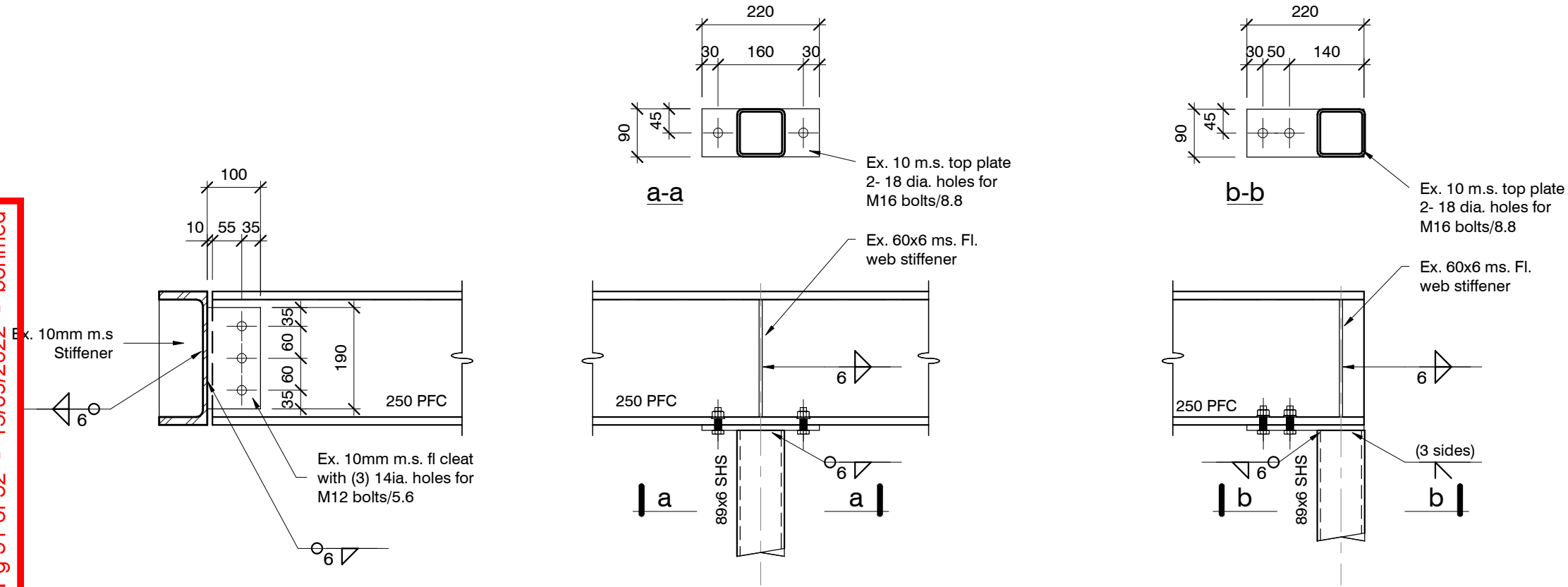
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Framing Plans

design M. CUSIEL
 drawn R. MAIA
 appvd M. CUSIEL
 date 16 JUNE 2022

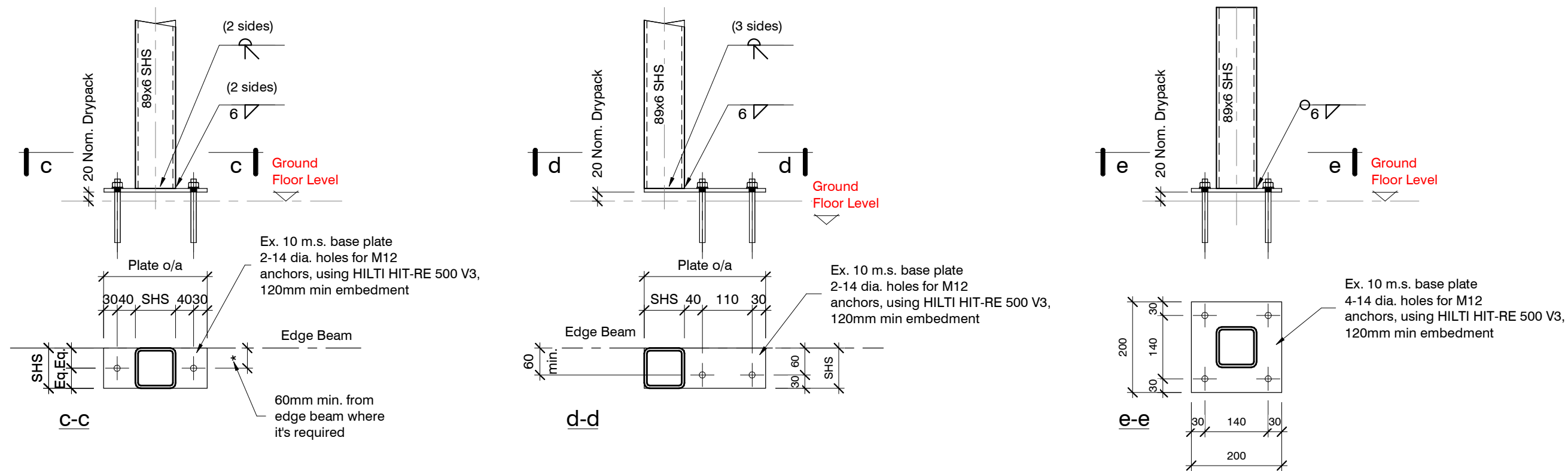
file **22008.116**
 dwg **S8** rev. **A**

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TYP. SHS to PFC Connection

1 : 10



TYP. SHS Post Baseplates

1 : 10

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-	16.06.2022	Consent Issue
A	05.07.2020	Revised where it's clouded

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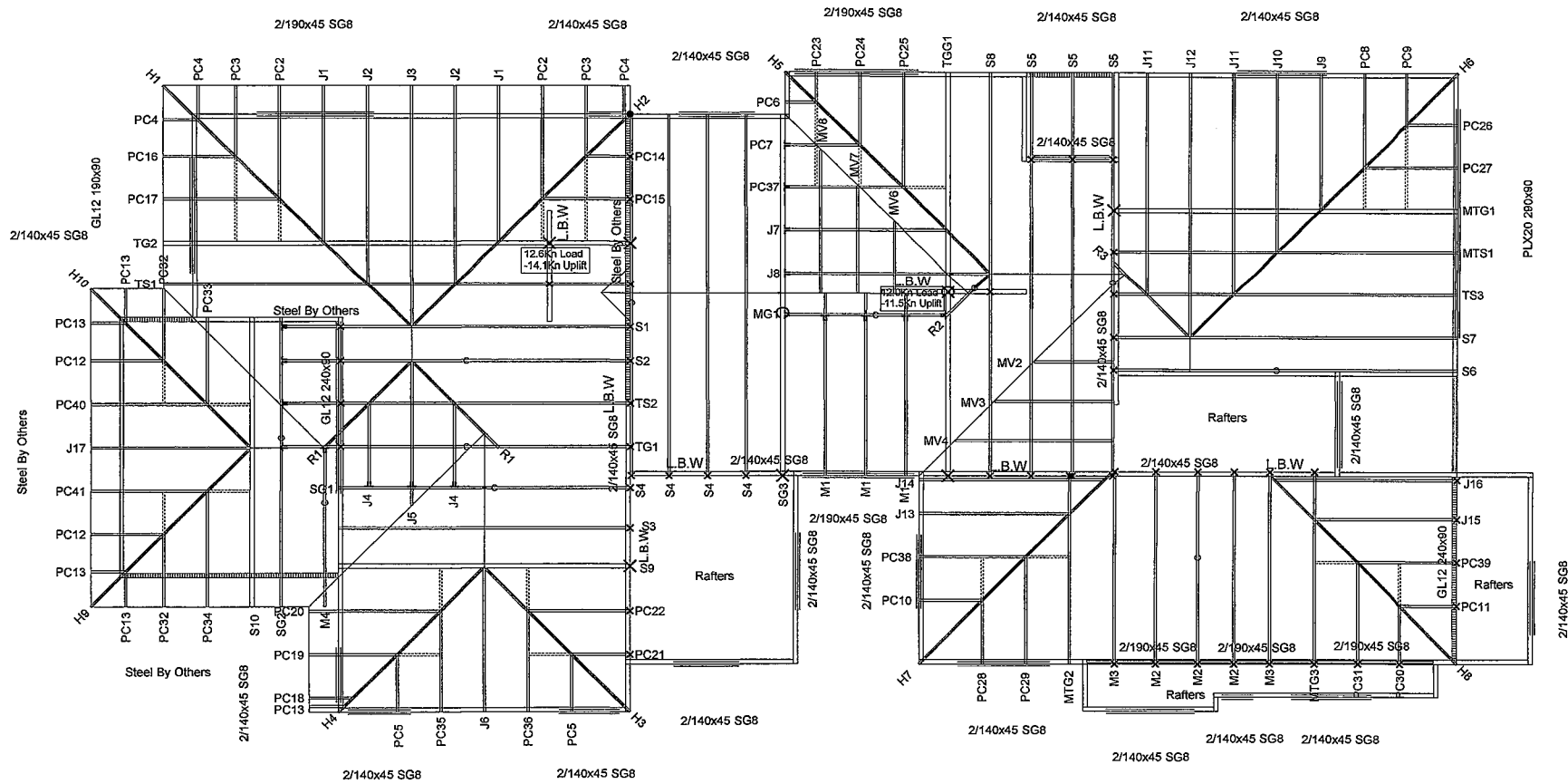
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Structural steel Details

design M. CUSIEL
 drawn R. MAIA
 appvd M. CUSIEL
 date 16 JUNE 2022

file **22008.116**
 dwg **S9** rev. **A**

ORIGINAL SIZE = A3



L.B.W All Unmarked Trusses Sitting on Internal Load Bearing Walls Have Less Than 10Kn Load and -10Kn Uplift.

200mm Truss Heel Height



Customer : Home Inventions
 Site Address : Lot 765 Rosemeryn Subdivision
 : Lincoln

Roofing : Longrun
 Pitch : 8.00 Deg.
 Spacing : 900
 Design Wind Velocity : 44.00 m/s (U.I.L.)
 Detailer : <None>

Job Ref 1540
 Scale
 Level