



**APD StormSlab® 220D TANKS**  
**CLASS M SOILS - SINGLE STOREY**  
APD LTD





1. REFER TO ARCHITECT'S DRAWINGS FOR BOUNDARY LINE SURVEY INFORMATION
2. REFER TO ARCHITECTURAL DRAWINGS FOR SETOUT
3. REFER TO ARCHITECTURAL DRAWINGS FOR ALL TIMBER FRAMING
4. REFER BELOW FOR CONCRETE STRENGTH
5. CONTRACTOR TO CONFIRM LOCATION OF EXISTING SERVICES WITH ENGINEER PRIOR TO COMMENCEMENT OF CONSTRUCTION
6. FOR REBATES & NIBS LOCATIONS REFER ARCH
7. REFER ARCH FOR SITE RETAINING WALLS

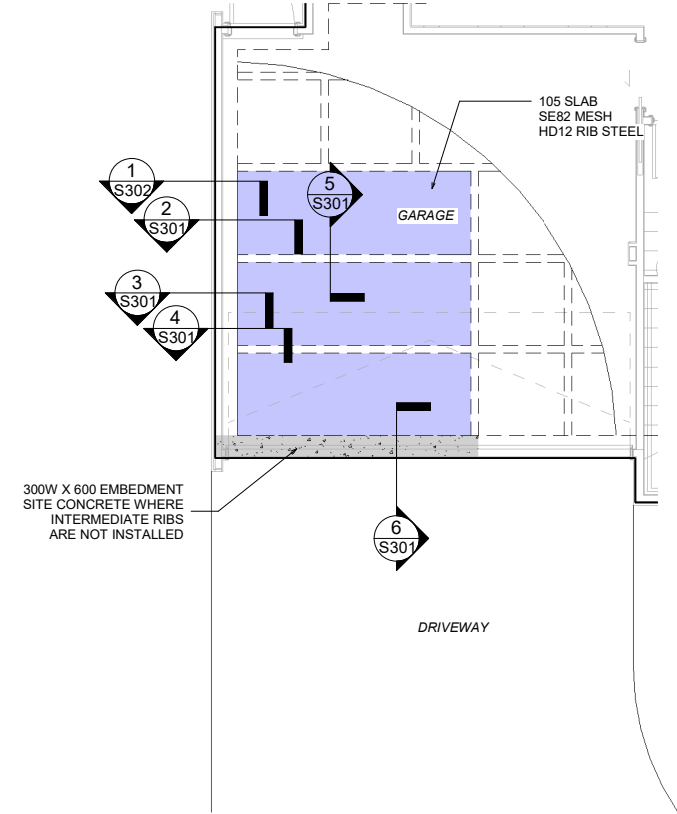
**GARAGE & DRIVEWAY:**  
 $G_{SDL} = 0.25 \text{ KPA}$   
 $Q = 2.5 \text{ KPA}$   
 $Q_{PL} = 12 \text{ KN}$

20MPA  
25MPA WITHIN SEASPRAY ZONE  
30MPA WITHIN EXPOSURE CLASSIFICATION B2

THE STRUCTURAL DRAWINGS MUST BE READ IN  
CONJUNCTION WITH THE ARCHITECTURAL AND ALL OTHER  
RELEVANT DRAWINGS ASSOCIATED WITH THE PROJECT.

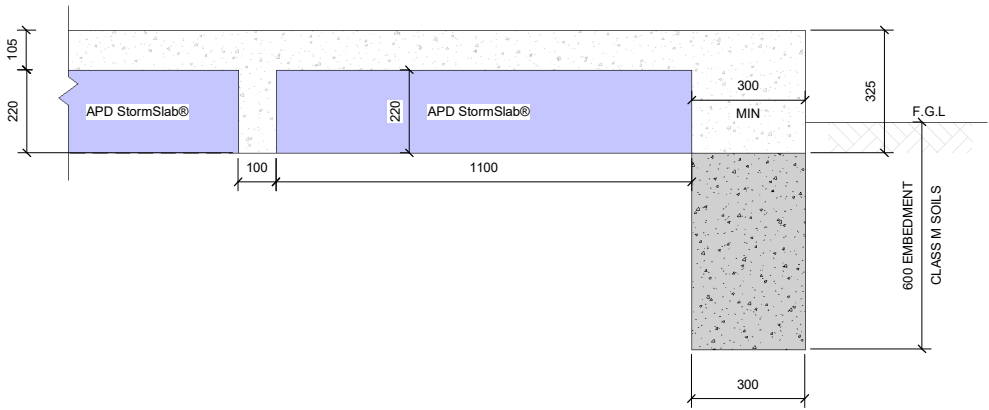
|                          |             |          |          |
|--------------------------|-------------|----------|----------|
| DESIGNED                 | PS          | DATE     | 26/04/24 |
| DRAWN                    | PS          | CHECKED  | AH       |
| A1 SCALE<br>As indicated |             | A3 SCALE |          |
| JOB No.                  | DWG No.     |          | REVISION |
| <b>7527-M(1)</b>         | <b>S101</b> |          | <b>A</b> |

3/05/2024 1:47:49 PM  
H:\JOB FOLDERS\7500-7599\7527-apo-inslab-tank\3.0 Working\2.0 DHC Drawings Files\3.0 Updated drawings  
MAR 2024 - Trench\220D\7527 - 2024.04.26 - 220D ADP Tank - Waftie slab Details - Class M(1).rvt



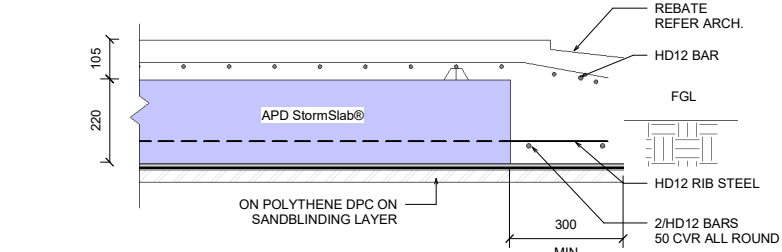
RESIDENTIAL GARAGE SLAB WITH APD StormSlab®

1 : 50



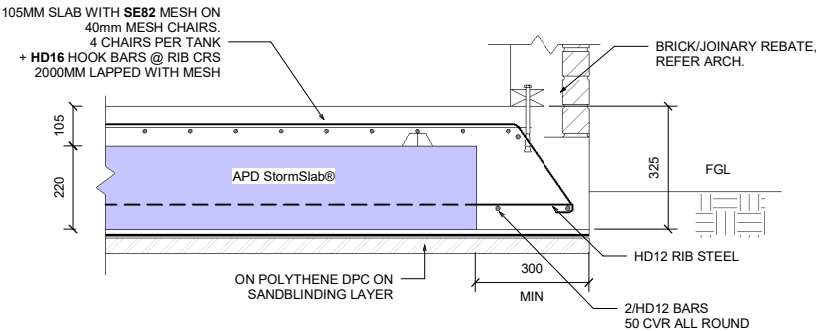
RESIDENTIAL GARAGE SLAB INSTALLATION WITH APD StormSlab®

1 : 10



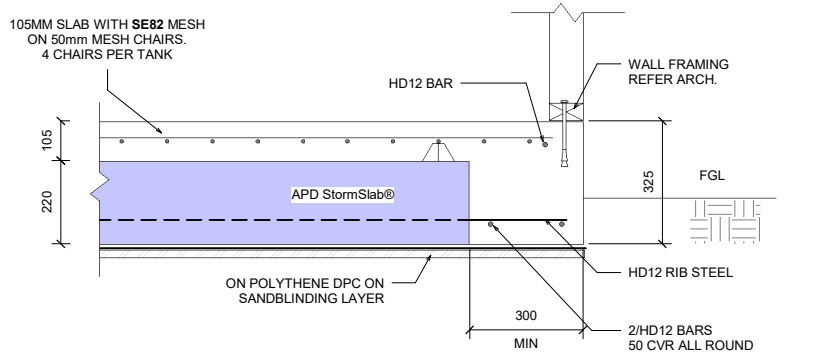
GARAGE SLAB - EDGE RIB WITH REBATE (WHERE APPLICABLE)

1 : 10



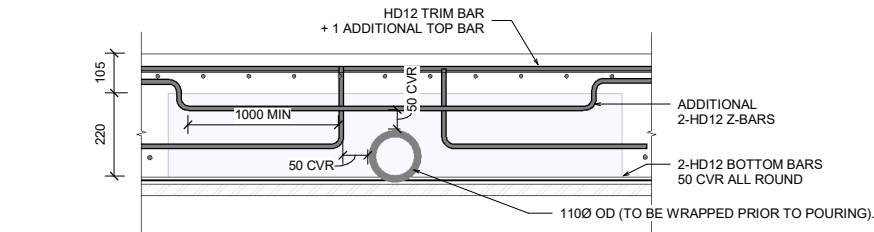
GARAGE SLAB - EDGE RIB WITH BRICK REBATE

1 : 10

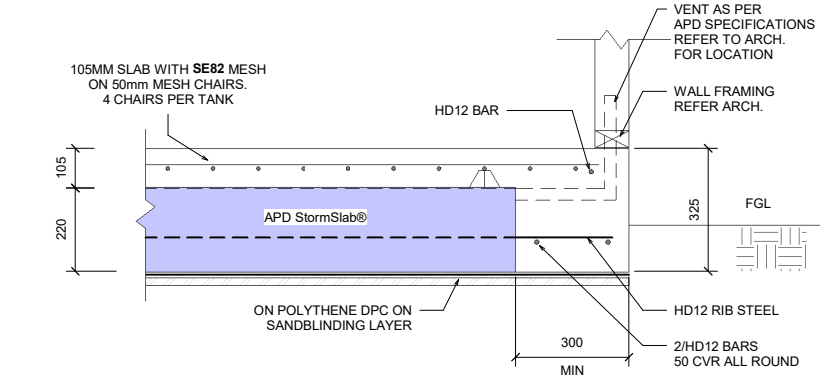


GARAGE SLAB - EDGE RIB

1 : 10

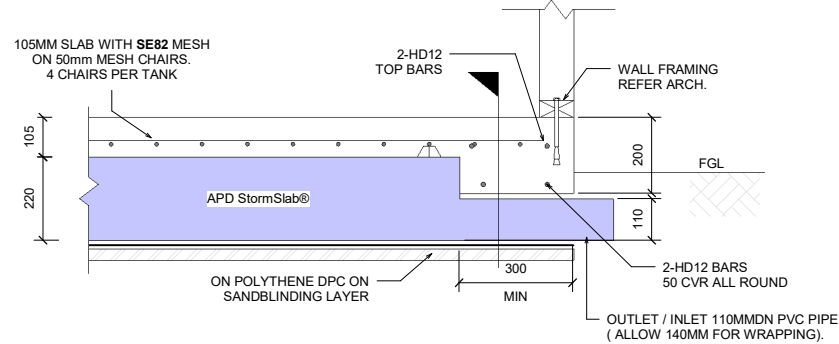


SECTION VIEW



GARAGE SLAB - EDGE RIB WITH VENT

1 : 10

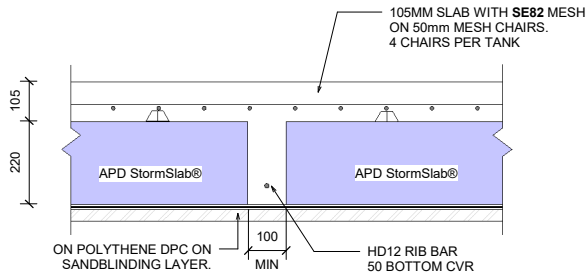


GARAGE SLAB - EDGE RIB WITH FLOW THROUGH

1 : 10

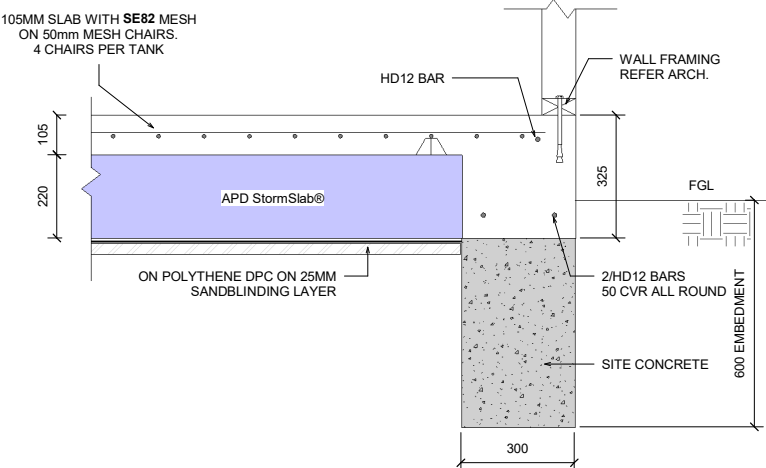
CONSTRUCTION NOTES FOR WAFFLE SLAB

- CLEAR ALL TOPSOIL AND ORGANIC MATERIAL TO FORM CLEAN AND LEVEL BUILDING PLATFORM
- CONFIRM THAT THE GROUND CONDITIONS MEET NZS 3604:2011 GOOD GROUND WITH 300KPA ULTIMATE BEARING CAPACITY WITH SOIL EXPANSIVENESS NO GREATER THAN CLASS M, Ys = 40mm MAX.
- IMPORT HARDFILL IF REQUIRED TO RAISE GROUND LEVEL. COMPACTED IN 150 LOOSE LAYERS.
- COVER BUILDING PLATFORM WITH 25MM(MAX.) SAND BLINDING.
- COVER BLINDING WITH DPM, LAPPED AND TAPED, IN ACCORDANCE WITH NZS 3604.
- PLACE 1100 SQ POLYSTYRENE PANELS ON A 1200x1200 GRID TO PATTERN AS SHOWN.
- CUT ANY THICKENING FOR INTERNAL LOAD BEARING WALLS AND REINFORCE AS SHOWN.
- REFER TO ARCHITECT'S DRAWINGS FOR ALL SETOUT DIMENSIONS, REBATES AND SERVICES.
- POUR CONCRETE TOPPING SLAB, ALL THICKENINGS AND RIBS IN ONE OPERATION.
- SAW CUT AS SHOWN. 20MM DEEP IN CONCRETE SLAB IN ACCORDANCE WITH NZS 3604.
- CURE SLAB IN ACCORDANCE WITH NZS 3604 AND GOOD TRADES PRACTICE.



GARAGE SLAB - INTERNAL RIB

1 : 10



GARAGE SLAB - EDGE RIB WITH SITE CONCRETE

1 : 10

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REFER ARCHITECTURAL DRAWINGS FOR ALL DIMENSION,  
LEVELS, SETDOWNS, MBS, REBATED, DUCTS THRU FLOORS,  
WALLS ETC. AND ALL OTHER SETTING OUT UNLESS SHOWN

THE STRUCTURAL DRAWINGS MUST BE READ IN  
CONJUNCTION WITH THE ARCHITECTURAL AND ALL OTHER  
RELEVANT DRAWINGS ASSOCIATED WITH THE PROJECT.

A 26/04/24 FOR BUILDING CONSENT  
REV DATE AMENDMENT

DHC  
STRUCTURAL | CIVIL

1/30 Ponsonby Rd, Grey Lynn  
Auckland 1011  
Ph:09 520 0355 E: info@dhc.nz

CLIENT  
APD

FOR BUILDING CONSENT

CLASS M SOILS - SINGLE  
STOREY - 220D TANKS

GARAGE SLAB DETAILS  
WITH APD StormSlab®

DESIGNED PS DATE 26/04/24  
DRAWN PS CHECKED AH

A1 SCALE As indicated A3 SCALE

JOB No. DWG No. REVISION  
7527-M(1) S301 A



## RESIDENTIAL TYPICAL SLAB INSTALLATION WITH APD StormSlab®

85MM SLAB WITH SE62 MESH ON 40mm MESH CHAIRS. 4 CHAIRS PER TANK

85

220

APD StormSlab®

APD StormSlab®

100 MIN

HD12 RIB BAR 50 BOTTOM CVR

ON POLYTHENE DPC ON SANDBLINDING LAYER

### TYPICAL SLAB - INTERNAL RIB

85MM SLAB WITH SE62 MESH ON  
40mm MESH CHAIRS  
4 CHAIRS PER TANK

HD12 BAR

WALL FRAMING  
REFER ARCH.

85

220

APD StormSlab®

305

FGL

ON POLYTHENE DPC ON  
SANDBLINDING LAYER

HD12 RIB STEEL

300

MIN

2/HD12 BARS  
50 CVR ALL ROUND

**② TYPICAL SLAB - EDGE RIB**

85MM SLAB WITH **S662** MESH ON 40mm MESH CHAIRS, 4 CHAIRS PER TANK W/ HD12 HOOK BARS @ 1200CRS 2000MM LAPPING

BRICK/JOINRY REBATE REFER ARCH.

220

85

APD StormSlab®

FGL

305

HD12 RIB STEEL

ON POLYTHENE DPC ON SANDBLINDING LAYER

300 MIN

2/HD12 BARS 50 CVR ALL ROUND

### 1 TYPICAL SLAB - EDGE RIB WITH BRICK REBATE

HD12 TRIM BAR  
+ 1 ADDITIONAL TOP BAR

105

220

1000 MIN

50 C.V.R.

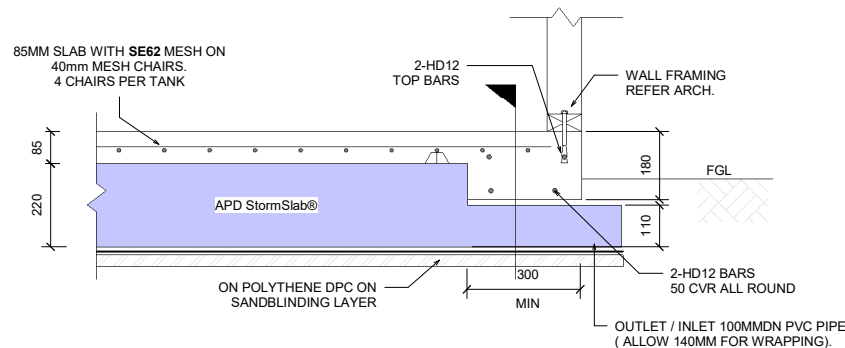
50 C.V.R.

ADDITIONAL 2-HD12 Z-BARS

2-HD12 BOTTOM BARS  
50 C.V.R. ALL ROUND

1100 ØD (TO BE WRAPPED PRIOR TO POURING)

### SECTION VIEW



### 4 TYPICAL SLAB - EDGE RIB WITH FLOW THROUGH

85MM SLAB WITH SE62 MESH ON 50mm MESH CHAIRS. 4 CHAIRS PER TANK

APD StormSlab®

POLYTHENE DPC ON SANDBLINDING LAYER

HD12 BAR

WALL FRAMING REFER ARCH.

VENT AS PER APD SPECIFICATIONS REFER TO ARCH. FOR LOCATION

FGL

HD12 RIB STEEL

2/HD12 BARS 50 CVR ALL ROUND

220

85

305

300 MIN

**② TYPICAL SLAB - EDGE RIB WITH VENT**

85MM SLAB WITH **SE62** MESH ON  
40mm MESH CHAIRS.  
4 CHAIRS PER TANK

HD12 BAR

WALL FRAMING  
REFER ARCH.

85

220

APD StormSlab®

ON POLYTHENE DPC ON  
SANDBLASTING LAYER

305

FGL

2/HD12 BARS  
50 CVR ALL ROUND

SITE CONCRETE

600 EMBEDMENT

300

**TYPICAL SLAB - EDGE RIB WITH SITE CONCRETE**

85MM SLAB WITH SE62 MESH ON  
40mm MESH CHAIRS.  
4 CHAIRS PER TANK

85

220

APD StormSlab®

220

ON POLYTHENE DPC ON  
SANDBLASTING LAYER

300

MIN

2/HD12 BARS  
50 CVR ALL  
ROUND

**TYPICAL SLAB - INTERNAL THICKENING**

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