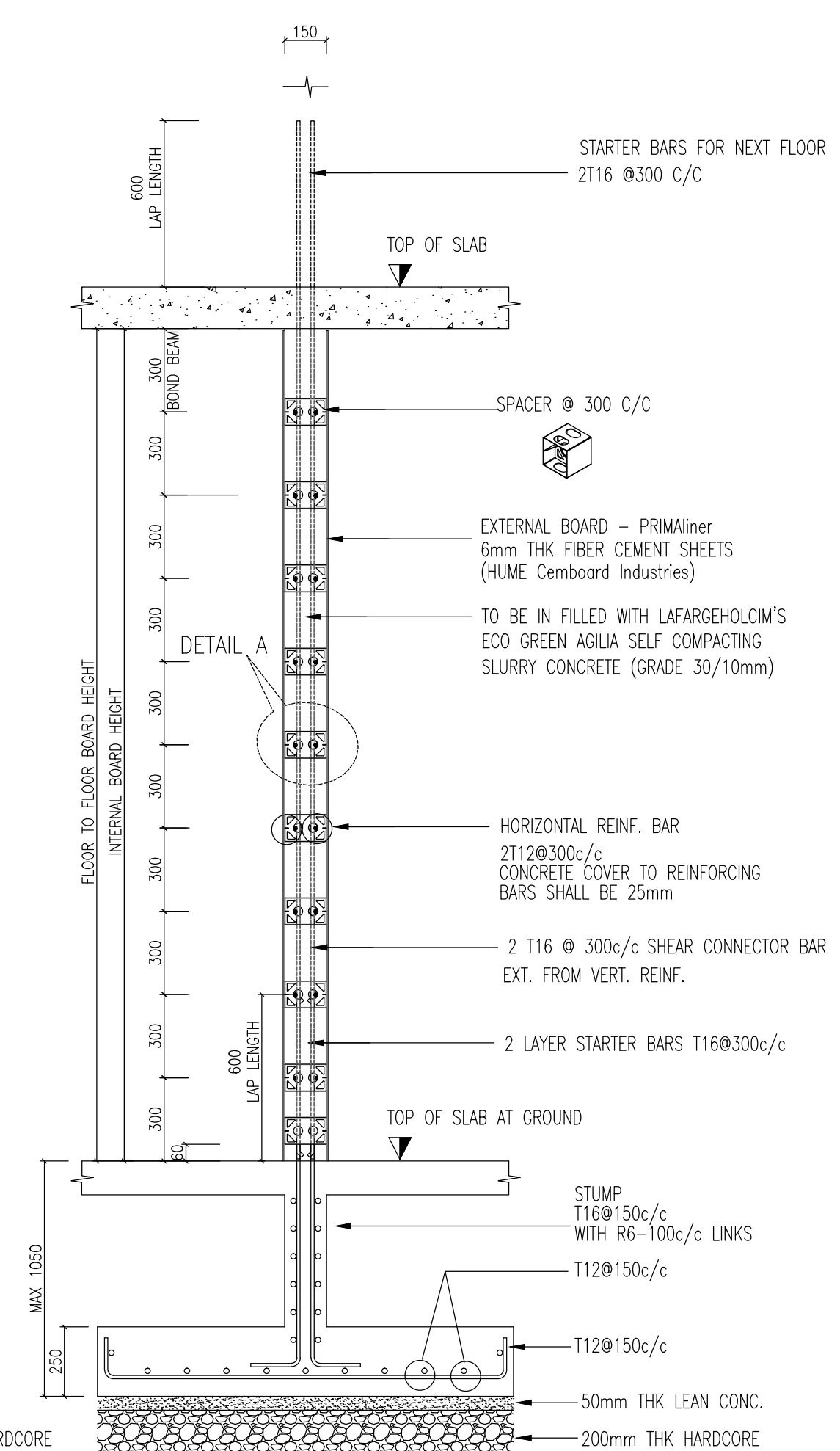
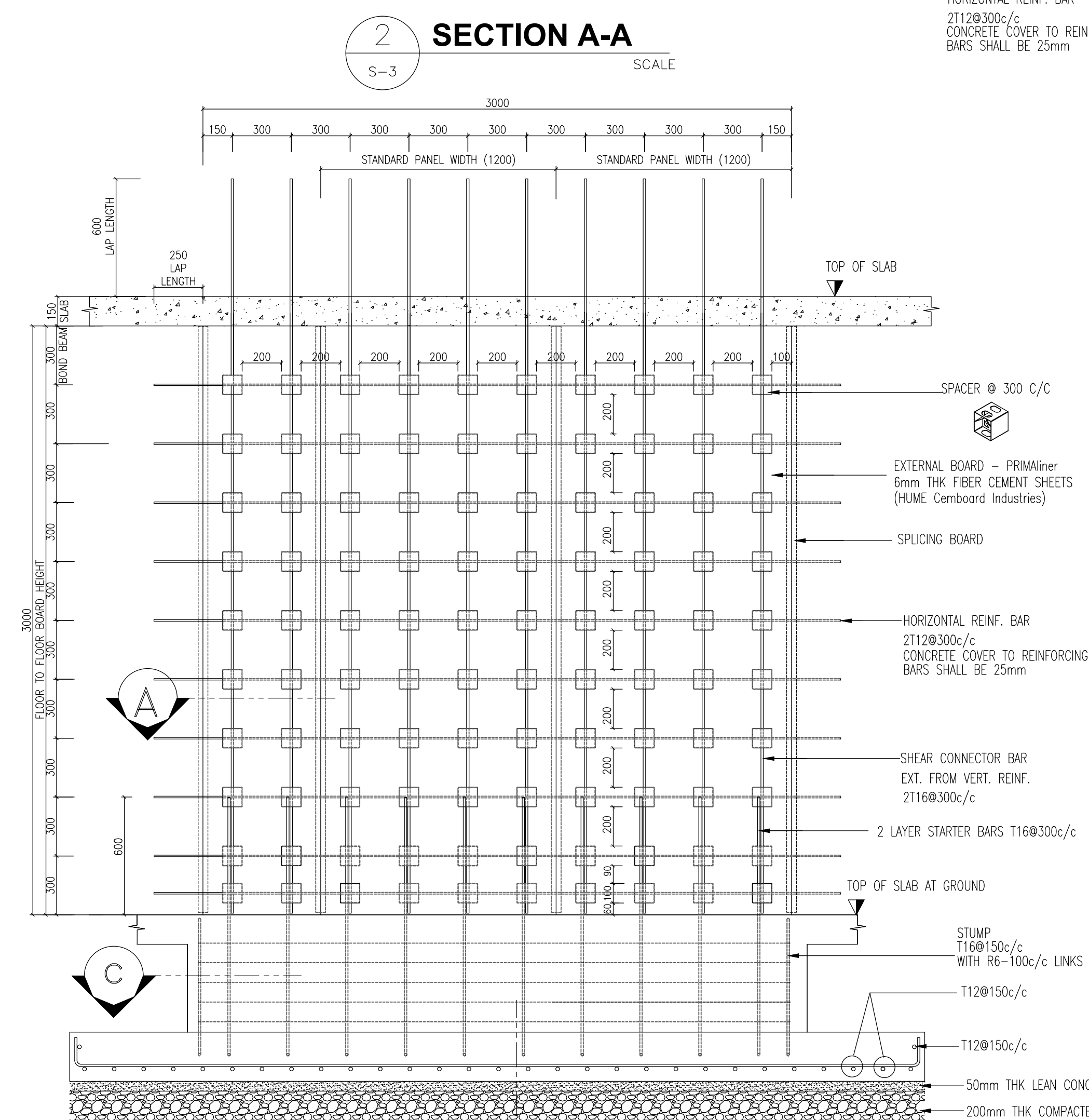
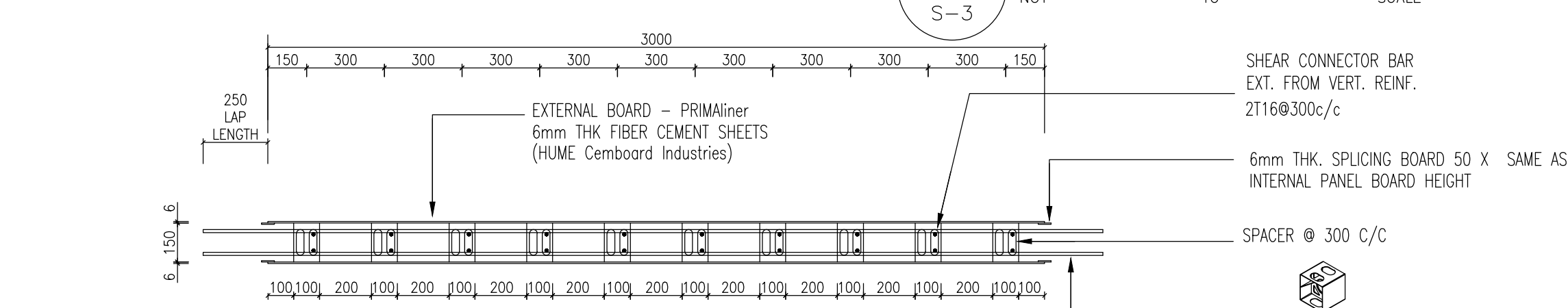
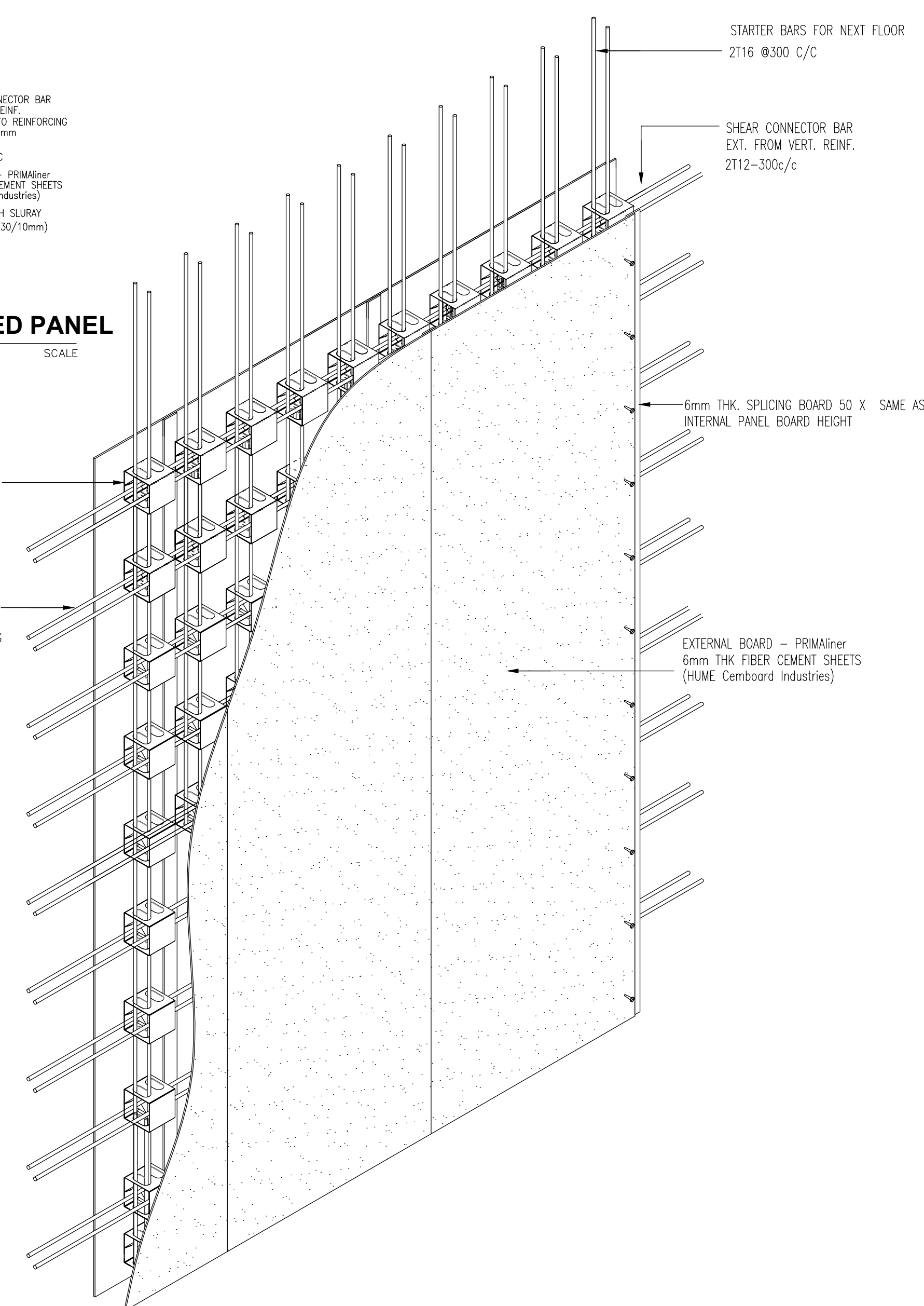
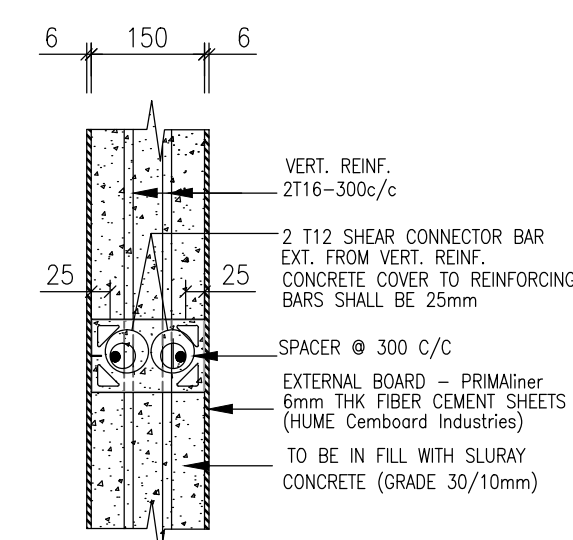


NOTE : —

DESIGN COMPLIANCE CODE

BS 8110-2:1985
SECTION 4. TABLE 4.6 – CONCRETE WALL WITH VERTICAL REINFORCEMENT.

4.1.4. SURFACES EXPOSED TO FIRE
THE SURFACES EXPOSED TO FIRE IN THE STANDARD TEST OF THE ELEMENT ARE AS FOLLOWS:
WALLS: ONE SIDE

TABLE 4.6 – CONCRETE WALLS WITH VERTICAL REINFORCEMENT

NATURE OF CONSTRUCTION AND MATERIALS	MINIMUM DIMENSIONS EXCLUDING ANY COMBUSTIBLE FINISH FOR A FIRE RESISTANCE OF:						
		0.5 H	1 H	1.5 H	2 H	3 H	4 H
WALL WITH LESS THAN 0.4% REINFORCEMENT MADE FROM DENSE AGGREGATE	THICKNESS	100mm	150mm	175mm	—	—	—
WALL WITH AT LEAST 0.4% REINFORCEMENT MADE FROM DENSE AGGREGATE (CONCRETE DENSITY UP TO 2.4 t/m ³)	THICKNESS COVERED	100mm 15	100mm 20	125mm 25	160mm 30	200mm 35	240mm 40
WALL MADE FROM LIGHTWEIGHT AGGREGATE (CONCRETE DENSITY 1.8 t/m ³)	THICKNESS COVERED	100mm 10	100mm 20	100mm 25	125mm 30	160mm 35	200mm 40
WALL WITH OVER 0.4% REINFORCEMENT MADE FROM DENSE AGGREGATE	THICKNESS COVERED	SEE MINIMUM COVER	150mm 15	150mm 20	175mm 25	200mm 30	240mm 35

COVER & EXPOSURE ARE AS COVER TO MAIN REINFORCEMENT (SEE 4.2.3). FOR PRACTICAL PURPOSES COVER IS EXPRESSED AS MINIMUM COVER TO ALL REINFORCEMENT AND THESE TABULATED VALUES NEED TO BE DERIVED ACCORDINGLY.

FOR CONCRETE OF DENSITIES BETWEEN 1.2 t/m³ AND 2.4 t/m³ THE VALUE OF WALL THICKNESS MAY BE INTERPOLATED LINE. USE THE MINIMUM PRACTICAL DIMENSION BUT NOT LESS THAN 75mm

(2) CALCULATION OF STEEL REINFORCEMENT

CONSIDERING 120mm RUN OF THE WALL WITH 2 LAYERS OF T16 BARS AT 300 mm C/C THE NUMBER OF BARS AVAILABLE = 10.

AREA OF STEEL AS = 2011.43mm SQUARED.

AREA OF CONCRETE AC = 150 X 1200 = 180000mm SQUARED.

PERCENTAGE OF STEEL = AS / AC X 100 = 1.12% REFERRING TO TABLE 2.4.6 ABOVE 2 HOUR FIRE RESISTANCE CAN BE PROVIDED USING A 100mm thick wall with 25mm COVER.

THE WALL THICKNESS PROVIDED IS 150mm WITH 25mm COVER AND WITH REINFORCEMENT PERCENTAGE IN EXCESS OF 1% THE FIRE RESISTANCE AVAILABLE IS 3 HOURS IN ACCORDANCE WITH TABLE 4.

REV.	DATE	DESCRIPTION
REVISION		

PROJECT TITLE :

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DWG TITLE : ECO STARWALL
FIRE RESISTANCE - LOAD BEARING
PARTY WALL
(TYPICAL)

SCALE :		AS SHOW	
DRAWN :	ZAHA	CHECKED :	G.L.BANGAH
DESIGNED :	W.H.ONG	DATE :	25-01-16
DWG NO. BWR/ECO STARWALL/STANDARD DRAWING/003			REV

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