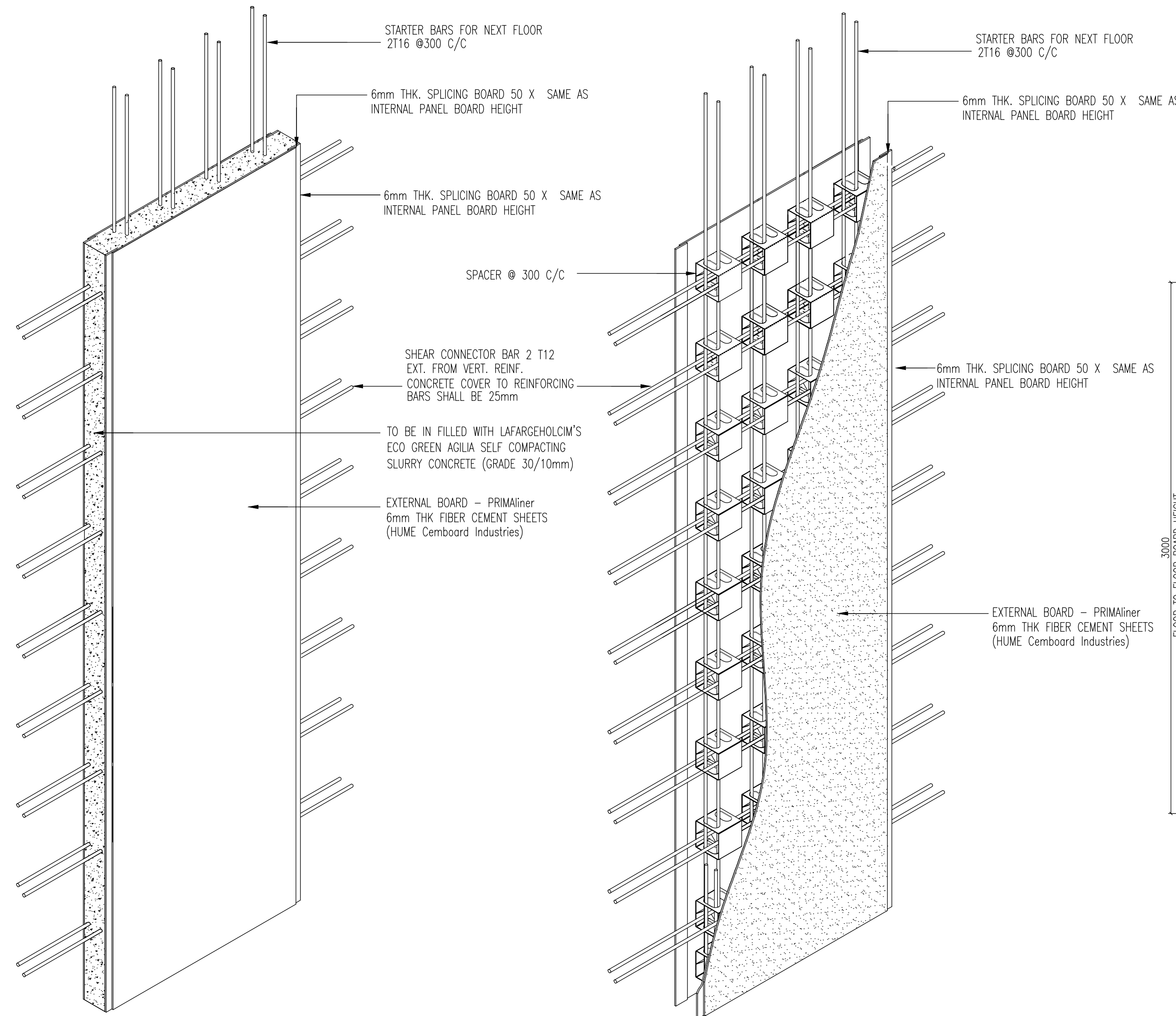
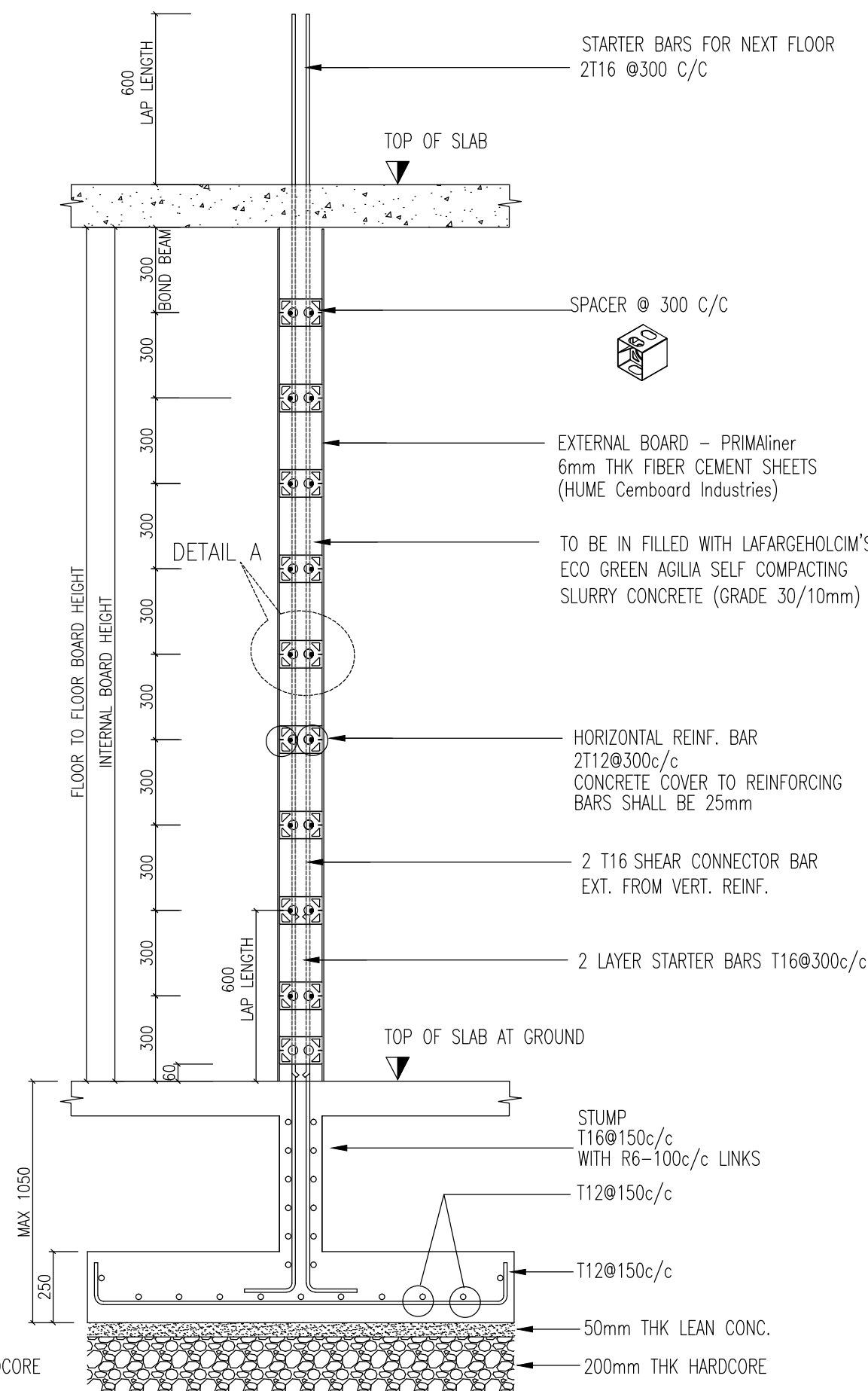
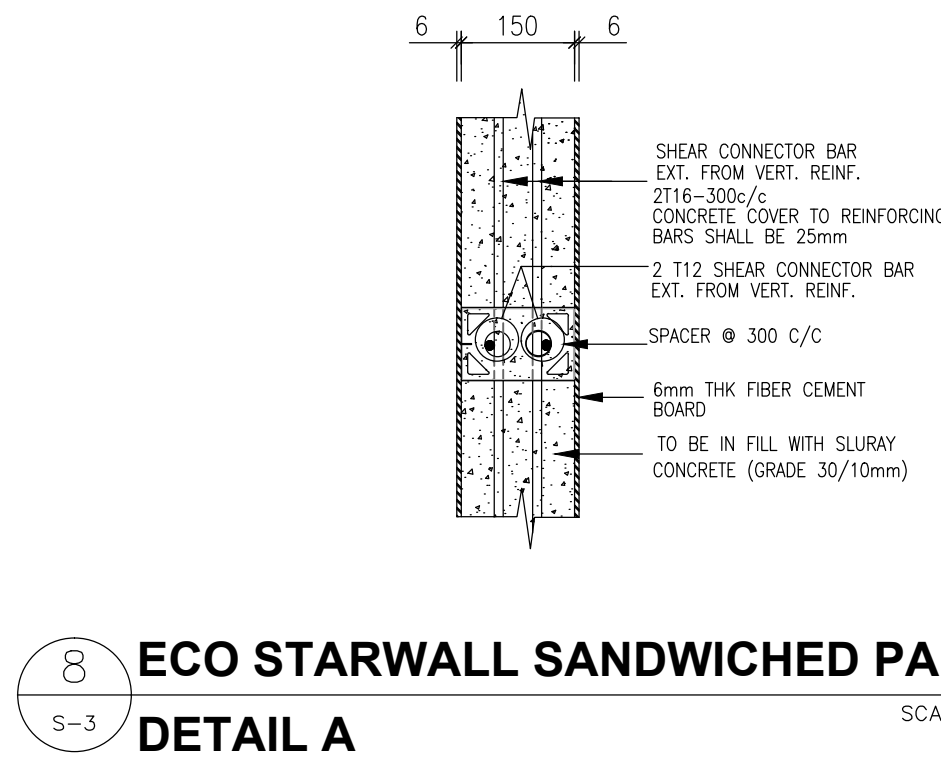
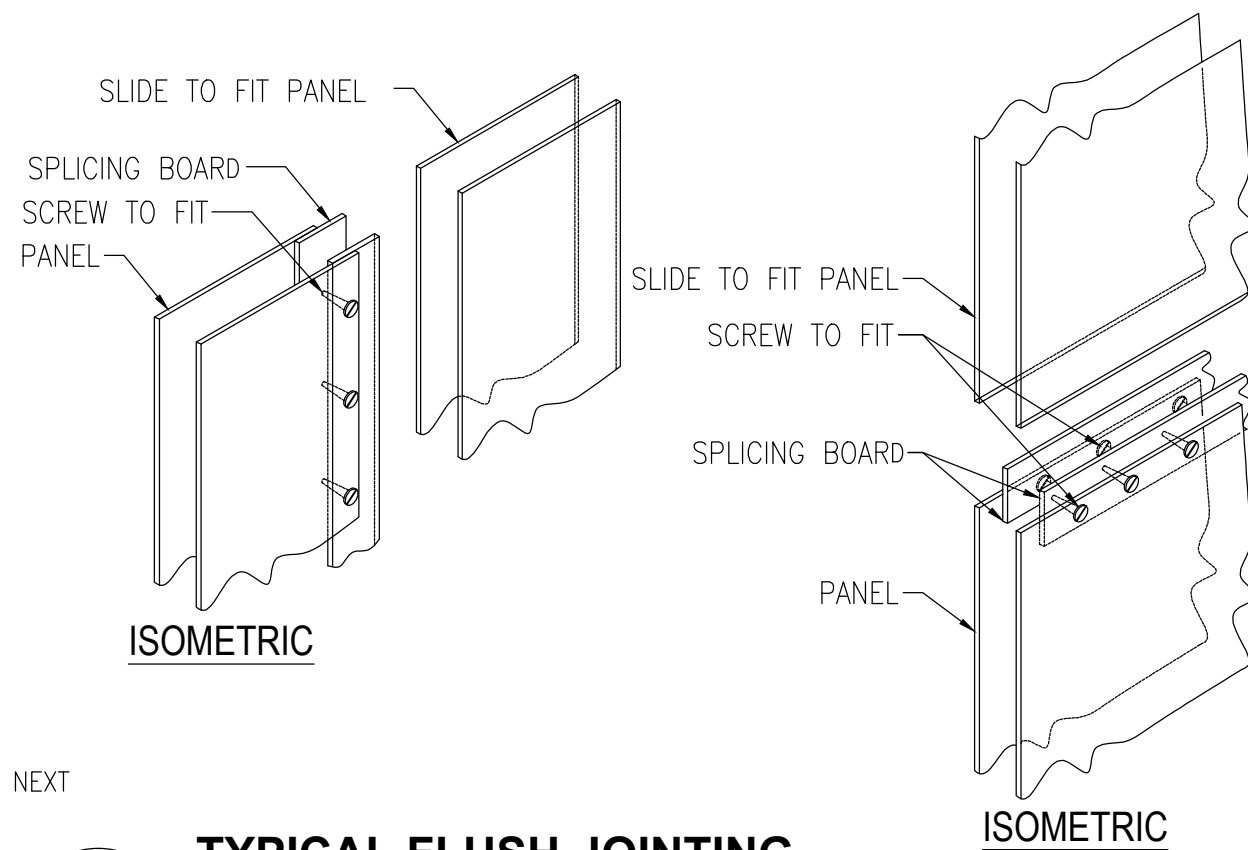


(2) CALCULATION OF STEEL REINFORCEMENT

CONSIDERING 1200mm 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 = 2011.43mm²mm²

AREA OF CONCRETE AC = 150 X 1200 = 180000mm²mm² SQUARED.

PERCENTAGE OF STEEL = $AS / AC \times 100 = 1.12\%$ REFERRING TO TABLE TO TABLE 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 4.6

PROJECT TITLE :

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DWG TITLE :
ECO STARWALL
SANDWICHED PANEL - INTERNAL DETAILS
(TYPICAL)

SCALE :		AS SHOW	
DRAWN :	ZAHA	CHECKED :	G.L.BANGAH
DESIGNED :	W.H.LONG	DATE :	25-01-16
DWG NO.			REV
BWR/ECO STARWALL/STANDARD DRAWING/001			

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