Total Wind Load Direction B
= 109.4 sq.m. x 0.73
= 79.9 kN

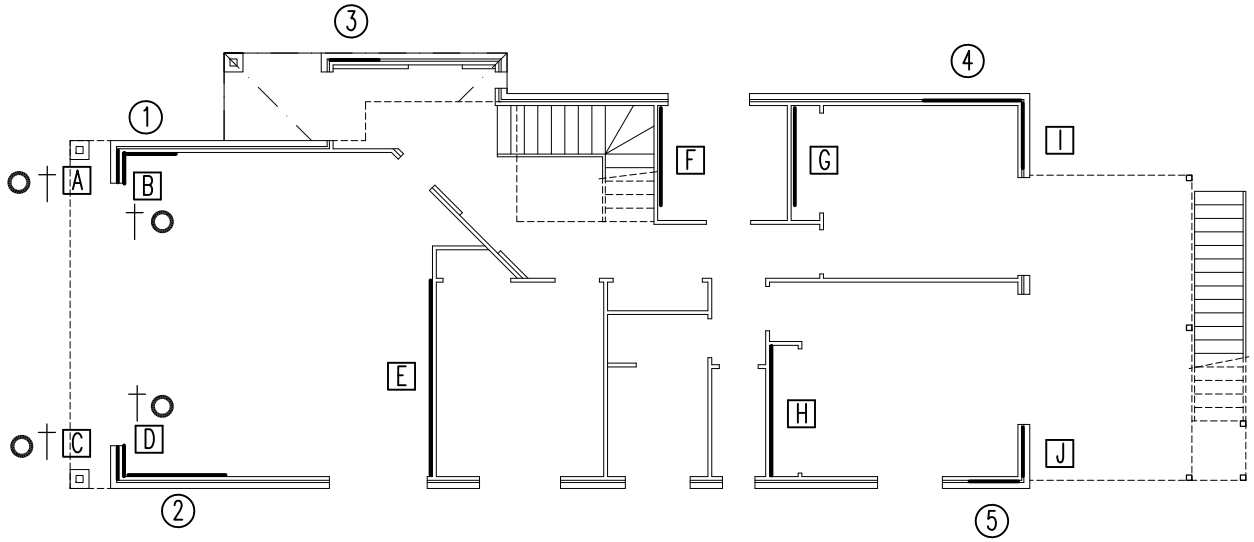
B

A

Total Wind Load Direction A
= 37.4 sq.m. x 0.85
= 31.8 kN

O Provide intermediate bottom plate fixings of 1/M10 bolt at maximum 1200 mm crs. Bottom plates to these walls to be 45mm thick F17 Seas Hwd.

NOTE: † Ply bracing panels less than 900mm but greater than 600mm in length to be fixed to floor frame or slab with 1M12 threaded rod to each end of panel



WIND DIRECTION A

WALL No.	TB1(b)	CROSS	BLK	TB4(a)	TOTAL
1				0.9	5.4
2				1.8	10.8
3				0.9	5.4
4				1.8	10.8
5				0.9	5.4
6					
RESISTANCE ACHIEVED					37.8
RESISTANCE REQUIRED					31.8

WIND DIRECTION B

WALL No.	TB1(b)	CROSS	BLK	TB4(a)	TOTAL	
A				0.6	3.6	O †
B				0.6	3.6	O †
C				0.6	3.6	O †
D				0.6	3.6	O †
E				3.6	21.6	
F				1.8	10.8	
G				1.8	10.8	
H				2.4	14.4	
I				1.2	7.2	
J				0.9	5.4	
RESISTANCE ACHIEVED					84.6	
RESISTANCE REQUIRED					79.9	

BRACING WALL TYPES

TB1(b) – Double metal strap braces as per "Fig.8.18(b) AS1684–2006" no straps (plates to studs) at each end of panel and nominal tiedown to floor = 1.5kN/m
CROSS – Cross brace between columns with M16 rods using turnbuckle in each rod for tightneing ..... 750mm min depth footing = 12.5kN each set
M4 – Australian Hardboards M4 short wall fixed in accordance with 'Australian Hardboards'; 460mm long = 2.9kN
COL – Steel Bracing column as per table 8.15 AS1684–2006 ..... 75x4.0 shs 600mm high or less = 6kN; 601 to 900mm high = 4.5kN
BLK – 2.7M high, 190mm concrete blockwork, reinforced with Y12 tiedown rod and graout at each end. (Besser "Single Leaf Masonary Design" Table 7d) 1M = 12kN, 1.2M = 15kN, 1.8M = 23kN, 2.4M = 29kN, 3M = 35kN, 3.6M = 40kN
TB2(a) – Brick bracing piers in accordance with "TABLE 12 – CLAY BRICK CONSTRUCTION QLD. – VOLUME 1" = 1.5kN in each direction
TB4(a) – 4mm (F14) structural ply sheet bracing fixed in accordance with "STRUCTURAL PLYWOOD WALL BRACING – LIMIT STATE DESIGN MANUAL" with top plate fixed to slab or floor frame with 1M12 anchor rod/bolt each end of panel + 1M12 bolt at 1200mm max crs (for top and bottom fixing at 150mm crs) or 1M12 bolt at each end of panel and at 1200mm max. intermediate crs (for top & bottom fixings at 50mm staggered crs) = 6.0kN/m

VER	DATE	DESCRIPTION
A	DATE	DRAWN

ALAN BRIND
DESIGN & CAD DRAFTING PTY LTD
8 Kooyong Crt, FERNY GROVE, Q, 4055. Fax 3851 3796. Ph 3851 3166
BSA LIC. 75230 ACN 072 663 364

PROJECT
AT:

SCALE: 1:100 at A3
DRAWN: A. Brind
FOR:

DRAWING TITLE: LOWER LEVEL BRACING PLAN

JOB I.D.
DWG No: W5
VER: A