Telephone 0402 – 39377

D. J. LUNN

CONSULTING ENGINEER

2 Paramount Arcade,
Main Street,
Arklow,
Co. Wicklow.

Our Ref: DJL/JAL/C1838

Your Ref:

Dublin County Council
Block 2.
Irish Life Centre
Lower Abbey Street
Dublin 1.

24th September 1991

Dear sir,

Smurfit Corrugated Walkinstown
Planning Refs 91a/1304 & 91a/1096

We enclose herewith two copies of drawings and calcu - lations for the above applications. We also enclose a cheque for £8685.60 which we understand are the fees due.

Yours sincerely

91A/1304 & 91A/1096
1. 20. 6
BBL
OS 22-1

91A/1096
BYE LAW APPLICATION.
REC. No. N5025 2
£3841.60

91A/1304
BYE LAW APPLICATION.
REC. No. N5025 1
£4844.00

RECEIVED
- 10CT 1991
REG SEC.

RECEIPT CODE

COMHAIRLE CHONTAE ÁTHA CLIATH

DUBLIN COUNTY COUNCIL
46/49 UPPER O'CONNELL STREET,
DUBLIN 1.

BYE LAW APPLICATION.

PAID BY — CASH / CHEQUE / M.O. / B.L. / I.T.

REC. No. N 50252

£ 3841.60

Received this 1st day of October 1991

from Cedar Building Co. Ltd.

the sum of three thousand eight hundred & forty one Pounds

sixty Pence, being 100 for

bye-law application a 91A/1096

[signature] Cashier

S. CAREY
Principal Officer [signature]

RECEIPT CODE

COMHAIRLE CHONTAE ÁTHA CLIATH

DUBLIN COUNTY COUNCIL
46/49 UPPER O'CONNELL STREET,
DUBLIN 1.

BYE LAW APPLICATION.

REC. No. N 50251

PAID BY
CASH
CHEQUE ✓
M.O.
B.L.
I.T.

£4844.00

Received this 1st day of March 19 91

from Cedar Building Co Ltd

the sum of four thousand, eight hundred forty four Pounds

Pence, being for

bye-law application 91A/1304

Noeleen Keane Cashier

S. CAREY
Principal Officer

CONCAST

HAZELHATCH, NEWCASTLE, CO. DUBLIN.
Telephone: 6288055 / 6271346

Contract: OFFICE BLOCK BALLYMOUNT ROAD			Job No.: 92/022
Member Element: P.C. FRAME			Sheet No.: 01.
Drg. Ref: 92/22/01	Design: J Kavanagh	Checked by:	Date: 14/9/91

Design Ref.	Calculations	Output

DESIGN CALCULATIONS FOR PRECAST CONCRETE FRAME AT BALLYMOUNT ROAD.

DESIGN REFERENCES: BS8110 1985

LOADINGS

1) Roof: LIVE LOAD 1.5 kN/m²
FINISHES. 2.0 kN/m²
P.C. UNIT S.W. 2.8 kN/m² (200 deep).

2) FLOOR LIVE LOAD 5.0 kN/m²
FINISHES. 1.5 kN/m²
P.C. UNIT S.W 2.8 kN/m²

STABILITY

BUILDING IS BRACED FRAME WITH LATERAL (WIND) STABILITY PROVIDE BY MASONRY INFILL BLOCK PANELS.

HOLLOWCORE UNITS

ROOF LEVEL

Applied Service load. 3.5 KN/m²

SPAN. 6700 mm.

REFER TO CONCAST LOAD SPAN TABLES (C.L.S.T.) PAGE 4.

200mm deep hollow core units with. 18 No. 5mm ϕ wires can carry 5.5 KN/m² @ 6.75 m span ok. (by interpolation)

Roof 200 dp 18 wire.

Floor level.

Applied load (service). 6.5 kN/m²

SPAN 6.7 m.

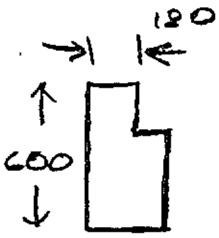
CLST PAGE 4: 200 deep units will 22 No wires can carry. 7.1 KN/m² @ 6.75 m span (by interpolation)

Floors 200 dp. 22 wire.

NOTE Capacity of floor unit is increased by structural screed (by 1.95 KN/m² approx).

P.C. ROOF BEAMS. I

	Gk	Qk
LIVE LOAD 1.5 × 6.7/2 = 5.025 kN/m		5.025
FINISHES 2.0, SELF WT (UNITS) 2.8 } × 6.7/2 = 16.08 kN/m; P.C. beam Self wt. 4.3 kN/m	20.4	
	20.4	5.025



Wult = 1.4 Gk + 1.6 Qk => Wult = 36.6 kN/m

BEAM SPAN = 6.512 METRES.

ULTIMATE MOMENT $M_u = 36.6 \times 6.5^2/8 = 193.3$ kN·m

$b = 180$
$d_1 = 520$
$f_{cu} = 40$
$f_y = 460$

$K = M/bd^2 f_{cu} = 0.099$
$Z = 454$
A_{st} reqd = 1063 mm.

Provide 2T25 + 1T16.

SHEAR $V_u = 36.6 \times 6.5/2 = 118.95$ kN.

$V_u/bd = 1.32 = v$. $(b = 180)$ $d_1 = 500$
$100A_s/bd$: A_s = 2 No 25ø bars = 1.09% ⇒ $v_c = 0.65$ N/mm²

$A_{sv}/s_v = (1.32 - 0.65) \times 180 / 0.87 \times 250 = \underline{0.554}$.

(Minimum steel 300 wide beam) = 0.3 mm²/mm high yield

Use T10 c. 200 first metre
Use T10 c 300 thereafter.

FLOOR BEAMS.

LIVE LOAD 5.0 × 6.7/2 = Q_k = 16.75 kN/m

FINISHES 1.5 } 4.3 × 6.7/2 G_{k1} = 14.9 kN/m
SELF WT 2.8 }

beam self wt G_{k2} = 5.04 kN/m

blockwork on beam

2 No. 100 mm leaves of block × 2.8m high
@ 4.4 kN/m².

G_{k3} = 12.32 kN/m

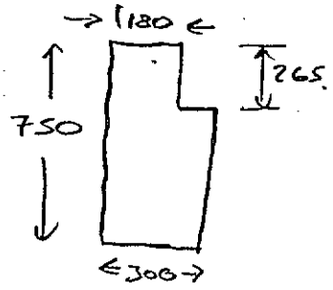
ΣG_k = 31.6 ΣQ_k = 16.75

1.4 G_k + 1.6 Q_k = 71.04 kN/m.

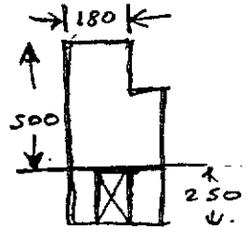
SPAN 6512 ℄ ℄ columns (300×300)
6212 Face to Face.
Corbel bearing length 150
EFFECTIVE SPAN 6212 − 150 = 6062 mm.

M_u = 71.04 × 6.062²/8 = 326.3 kN-m
B = 180
d_1 = 670 $K = M/bd^2 f_{cu}$ = 0.10
f_{cu} = 40 Z = 583 mm
f_y = 460 $A_{st req'd}$ = 1358
Provide 3T25 (A_{st} = 1472)

Shear V_u = 71.04 × 6.062/2 = 215.3 kN
V_u/bd = 1.07 $100 A_s/bd$ = 1.77% = 0.675.
NOMINAL STEEL
Provide T10 LINKS @ 300 crs



BEAM HALF JOINT



V_u on end = 215.3 KN.

b = 180

D = 500

$D1 = d^* = 500 - 20^* - 10 - 12 = 458$ * reduced cover.

$f_{cu} = 40$

$V_u/bd = 215.3 \times 10^3 / 180 \times 458 = 2.611$

Provide welded anchor bars 2 No 25 ϕ

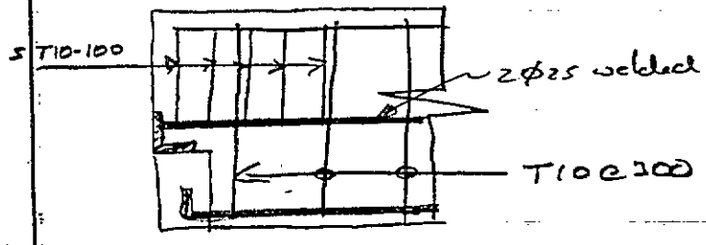
$100 A_s/bd = 1.18\% \Rightarrow v_c = 0.669$ N/mm².

Shear Links required.

$A_{sv}/s_v = (2.611 - 0.669) \times 180 / 0.87 \times 460$

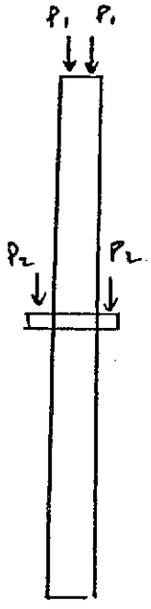
$= 0.873$ mm²/mm.

Provide 5 T10@100. at support.



END ELEVATION

P.C. COLUMNS. 300 x 300



	LIVE	DEAD
2P1 Roof load.		
Live $2 \times (1.5 \times 6.7/2) \times (6.512/2)$	32.72	
Dead $2 \times [(2.0+2.8) \times 6\frac{3}{2} + 4.3] \times (6.512/2)$		132.7
(2P2) Floor load		
Live $5 \times 6.7 \times 6.512/2$	109.0	
Dead Floor $-(1.5+2.8) \times 6\frac{7}{2}$ / Beam 5.0 / Block 12.3 $\times 6.512$		206.46
Total	141.72	339.1

COLUMN BRACED

EFFECTIVE LENGTH = $0.8 \times L_0 = 2.16$ SHORT COLUMN

MAX $N = 1.4 G_L + 1.6 Q_L = 701.4$ KN

COLUMN SIZE 300 x 300

N/bh = 7.79 } Provide 4 T25 steel

M min nominal } Provide R8 Links @ 300 crs.

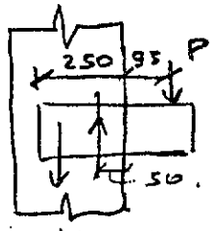
COLUMN CORBEL.

MAX LOAD FLOOR $= 2P_1 =$ 109 + 206 = 315 KN.

$\Rightarrow P_1 =$ 157.5 KN service.
231.4 KN ultimate

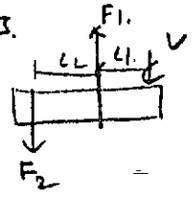
Proposed 200x100x10 RHS. INSERT.

ULTIMATE LOAD 231.4 KN.



Refer to "STRUCTURAL JOINTS IN PRECAST CONCRETE" PUBLISHED BY "THE INSTITUTION OF STRUCTURAL ENGINEERS"

2.9.3.



$F_2 = V.L_1/L_2$

$V = 231.4$

$L_1 = 195$

$L_2 = 200$

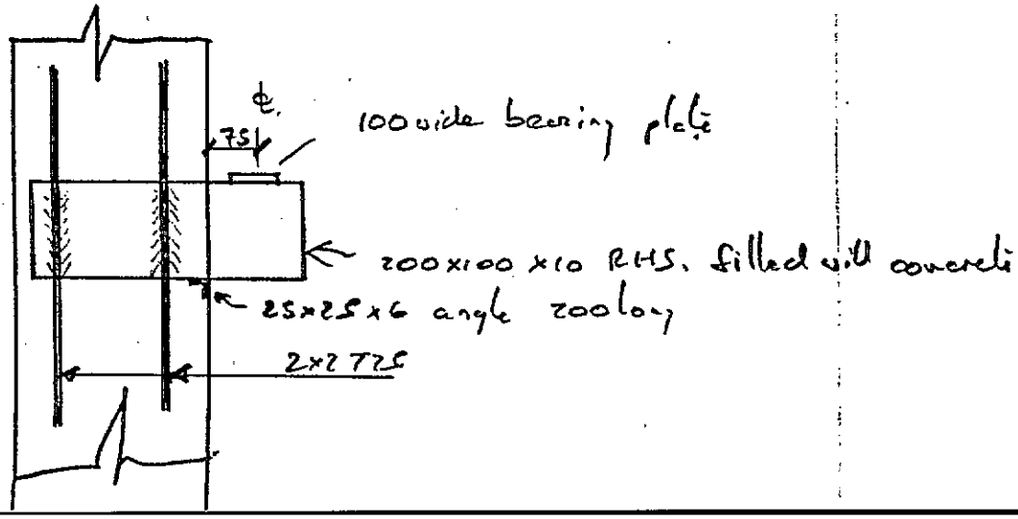
$F_2 =$ $F_2 = 167.67$

$F_1 = V + F_2.$

$F_1 = 399.0$ KN

Provide 2T25 FOR F1. } WELDED TO SIDES
Provide 2T25 FOR F2 } OF BOX.

Provide ALSO 25x25 ANGLE ON LEADING EDGE OF CORBEL TO



STABILITY TIES.

3.12.3.4.2 $F_T = 20 + 4\,NS = 28\,kN.$ $L_r = 6.7$

$\frac{g_k + q_k}{7.5} \cdot \frac{L_r}{5} \times F_t =$ INTERNAL TIE FORCES

For roof $g_k + q_k = 6.3\,kN/m^2$. Tie = 31.5.

For floor $g_k + q_k = 9.3\,kN/m^2$ TIE = 46.52.

A142 mesh provides $142 \times 460 \times 10^{-3} = 64.4\,kN/m$ in both directions. on floor.

Provide A142 mesh floor and roof.

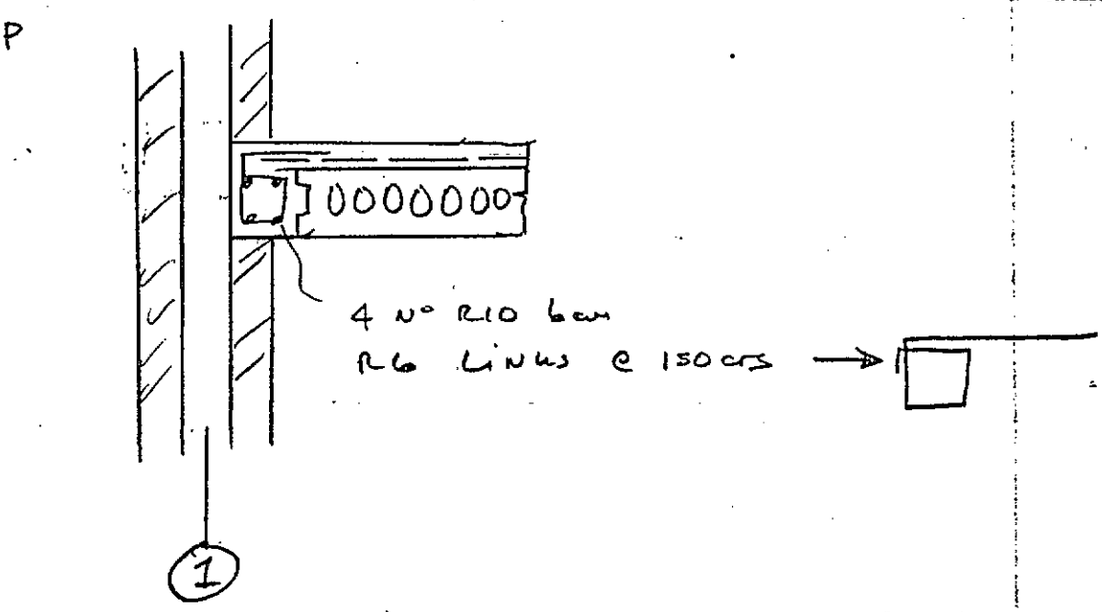
Peripheral ties. Tie force = 28 kN.

Provide R12 TIE BAR = 28.2 kN

ANCHOR RC BEAMS TO FLOOR (INTERNAL TIES)
by R12 bars @ 200 crs. Anchor force = 62.8 kN/m OK
PLACING
Anchor roof beams to roof screed by providing
R8 @ 200 crs (as floor)

Provide edge tie beam at each end and
with Peripheral tie bar = R12. or equivalent

Use U BLOCK BAND OR 215×215 BEAM
with 4 R10 + R6 LINKS @ 150
Provide R6 TIES @ 250 c/c. FORCE = 47 kN/m OK



SECTION AT FIRST FLOOR AND ROOF.

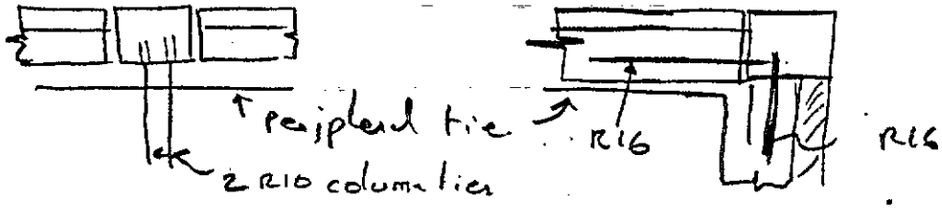
3.1223.6. COLUMN ANCHORS.

PROVIDE COLUMN ANCHOR INTO FLOOR AT FIRST FLOOR LEVEL.

3% Ultimate load = 21.0
2 FT = 56 KN.
2.75 l2.5 x28 = 30.8 } lesser of: 30.8 } Greater of = 30.8.

PROVIDE 2 R10 TIES FROM EACH COLUMN.

FOR CORNER COLUMNS PROVIDE 1 R16 each direction.



"INTERNAL" COLUMN CORNER COLUMN

CONCAST LOAD SPAN TABLES

KEY:

N...IS THE NUMBER OF WIRES IN THE BOTTOM OF UNIT

SPAN (3.0M - 11.0M)...IS THE EFFECTIVE SPAN IN METRES.

ULT. MOM...INDICATES THE ULTIMATE MOMENT CAPACITY OF SECTION (IN [illegible] METRES) DUE TO WIRE PATTERN ONLY

VCO...INDICATES THE ULTIMATE SHEAR FORCE (IN KILONEWTONS), UNCRACKED [illegible]

TABLE ENTRIES CONSIST OF FOUR VALUES:

THE FIRST VALUE IS THE MAXIMUM ALLOWABLE LOADING (IN KILONEWTONS [illegible] METRE) EXCLUDING SELFWEIGHT *.

THE SECOND VALUE INDICATES DEFLEXION (IN MILLIMETRES) AT TIME OF DELIVERY

THE THIRD VALUE INDICATES LONG TERM DEFLEXION (IN MILLIMETRES)

THE FOURTH VALUE, OMITTED IF ZERO, INDICATES THE NUMBER OF WIRES IN COMPRESSIVE SECTION OF UNIT, FULLY STRESSED.

MAXIMUM WIRES (in bottom of unit): 24 in 150mm deep unit, 32 all other units.

* Self weight includes weight of structural screed in the case of [illegible] screed tables.

Example

Span 8.0 Metres.
Structural screed 50MM 1.2 KN/M^2.
Live load 5.0 KN/M^2.

200mm deep unit and 50 structural screed

Page (10): Unpropped tables - 25 wires gives 5.1 KN/M^2 + self weight [illegible]

Page (13): Propped tables - 24 wires gives 5.2 KN/M^2 + self weight [illegible]

250mm Deep unit.

Page (16): (No screed) 24 wires gives 6.5 KN/M^2 + self weight only.

Page (19): Unpropped tables - 20 wires gives 5.4 KN/M^2 + self weight [illegible]

Page (22): Propped tables - 20 wires gives 5.4 KN/M^2 + self weight [illegible]

Note: propped tables can be shown (by hand) to be increased by 5 [illegible] certain cases

CONCAST FLOOR UNIT --000-- WIDTH 1200 MM DEPTH 155 MM

N	2.0M	2.5M	3.0M	3.5M	4.0M	4.5M	5.0M	5.5M	6.0M	6.5M	7.0M	7.5M	8.0M	8.5M	9.0M	9.5M	10.0M	ULT. MOM.	VCO
9	32.4	20.0	13.5	9.1	6.5	4.7	3.4	2.4	1.7	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.12	81.84
	-1.1	-1.5	-2.0	-2.4	-2.6	-2.5	-2.1	-1.2	0.3	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	-3.6	-0.8	-0.9	0.7	-0.1	1.0	2.8	3.8	4.1	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
10	36.0	22.3	14.8	10.3	7.4	5.4	3.7	2.7	2.1	1.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	36.60	81.72
	-1.2	-1.7	-2.3	-2.8	-3.1	-3.2	-2.9	-2.5	-0.7	1.2	4.3	0.0	0.0	0.0	0.0	0.0	0.0		
	-0.7	-1.0	-1.1	-0.9	-0.4	0.5	2.2	4.4	4.8	5.1	5.3	0.0	0.0	0.0	0.0	0.0	0.0		
11	37.6	24.6	16.4	11.5	8.3	6.1	4.5	3.4	2.5	1.8	1.2	0.8	0.0	0.0	0.0	0.0	0.0	40.05	80.23
	-1.3	-1.9	-2.6	-3.2	-3.6	-3.8	-3.7	-3.2	-2.0	-0.1	2.7	6.5	0.0	0.0	0.0	0.0	0.0		
	-0.8	-1.1	-1.3	-1.2	-0.8	0.1	1.6	4.0	5.5	5.9	6.2	6.3	0.0	0.0	0.0	0.0	0.0		
12	43.0	26.7	18.0	12.6	9.2	6.8	5.1	3.8	2.7	2.1	1.5	1.1	0.0	0.0	0.0	0.0	0.0	43.46	84.44
	-1.4	-2.1	-2.7	-3.6	-4.1	-4.5	-4.5	-4.1	-3.2	-1.5	1.1	4.7	0.0	0.0	0.0	0.0	0.0		
	-0.9	-1.2	-1.5	-1.5	-1.2	-0.4	1.1	3.5	4.2	6.7	7.1	7.3	0.0	0.0	0.0	0.0	0.0		
13	43.5	29.1	19.6	13.8	10.1	7.5	5.7	4.3	3.3	2.5	1.8	1.3	0.7	0.0	0.0	0.0	0.0	46.82	87.58
	-1.6	-2.3	-3.1	-3.9	-4.6	-5.1	-5.3	-5.1	-4.3	-2.8	-0.9	2.7	7.6	0.0	0.0	0.0	0.0		
	-0.9	-1.4	-1.7	-1.7	-1.6	-0.8	0.5	2.2	5.8	7.5	8.1	8.4	8.6	0.0	0.0	0.0	0.0		
14	44.8	31.3	21.1	14.9	10.9	8.2	6.2	4.8	3.7	2.8	2.1	1.6	1.1	0.8	0.0	0.0	0.0	50.15	88.49
	-1.7	-2.5	-3.4	-4.3	-5.1	-5.8	-6.1	-6.1	-5.5	-4.2	-2.0	1.1	5.5	0.0	0.0	0.0	0.0		
	-0.9	-1.5	-1.8	-2.0	-1.8	-1.2	-0.8	2.0	5.0	8.3	9.0	9.5	9.8	0.0	0.0	0.0	0.0		
15	44.5	33.5	22.6	16.3	11.8	8.9	6.8	5.2	4.0	3.1	2.4	1.8	1.3	0.9	0.0	0.0	0.0	53.44	87.40
	-1.8	-2.7	-3.7	-4.7	-5.7	-6.4	-6.7	-7.0	-6.6	-5.5	-3.6	-0.6	3.5	7.8	0.0	0.0	0.0		
	-0.9	-1.6	-2.0	-2.3	-2.2	-1.7	-0.4	1.3	4.2	8.3	9.7	10.5	10.9	11.1	0.0	0.0	0.0		
16	44.9	35.5	24.1	17.7	12.6	9.5	7.3	5.7	4.4	3.4	2.7	2.0	1.5	1.1	0.8	0.0	0.0	56.69	90.09
	-1.7	-2.9	-4.0	-5.1	-6.2	-7.1	-7.7	-8.0	-7.7	-6.8	-5.1	-2.4	1.5	6.7	13.6	0.0	0.0		
	-0.9	-1.8	-2.2	-2.5	-2.5	-2.1	-1.1	0.7	3.5	7.4	10.8	11.5	12.1	12.4	12.5	0.0	0.0		

CONCAST FLOOR UNIT --000-- WIDTH 1200 MM DEPTH 155 MM

N	2.0M	2.5M	3.0M	3.5M	4.0M	4.5M	5.0M	5.5M	6.0M	6.5M	7.0M	7.5M	8.0M	8.5M	9.0M	9.5M	10.0M	ULT. MOM.	VCO
17	45.4	33.9	25.6	18.2	13.5	10.2	7.8	6.1	4.8	3.8	2.9	2.3	1.7	1.3	0.9	0.0	0.0	59.91	91.17
	-2.1	-3.1	-4.3	-5.5	-6.7	-7.7	-8.5	-8.9	-8.9	-8.2	-6.7	-4.2	-0.5	4.5	11.0	0.0	0.0		
	-0.9	-1.9	-2.4	-2.8	-2.9	-2.5	-1.6	0.0	2.7	6.5	11.7	12.6	13.3	13.7	13.9	0.0	0.0		
18	45.9	36.3	27.1	19.3	14.3	10.8	8.4	6.5	5.2	4.1	3.2	2.5	2.0	1.5	1.1	0.8	0.0	63.08	92.65
	-2.2	-3.3	-4.6	-5.9	-7.2	-8.3	-9.3	-9.9	-10.0	-9.5	-8.2	-5.9	-2.5	2.2	8.5	16.5	0.0		
	-0.9	-1.9	-2.6	-3.0	-3.2	-2.9	-2.1	-0.6	1.9	5.6	10.4	13.6	14.4	15.0	15.4	15.4	0.0		
19	46.3	36.6	28.5	20.4	15.1	11.5	8.9	7.0	5.5	4.4	3.5	2.8	2.2	1.7	1.2	0.9	0.0	66.21	92.92
	-2.3	-3.5	-4.8	-6.3	-7.7	-9.0	-10.1	-10.8	-11.1	-10.8	-9.7	-7.7	-4.5	-0.1	6.0	13.7	0.0		
	-0.9	-1.9	-2.8	-3.3	-3.5	-3.4	-2.7	-1.5	1.2	4.7	9.6	14.5	15.5	16.3	16.8	17.0	0.0		
20	46.8	37.0	30.0	21.5	15.9	12.1	9.4	7.4	5.9	4.7	3.7	3.0	2.4	1.8	1.4	1.0	0.0	69.31	93.78
	-2.4	-3.7	-5.1	-6.6	-8.3	-9.6	-10.8	-11.8	-12.3	-12.1	-11.2	-9.4	-6.5	-2.3	3.4	10.9	0.0		
	-0.9	-1.9	-2.9	-3.5	-3.8	-3.8	-3.2	-1.8	0.4	3.8	8.5	14.9	16.6	17.5	18.2	18.5	0.0		
21	47.2	37.3	30.7	22.5	16.7	12.8	9.9	7.8	6.2	5.0	4.0	3.2	2.6	2.0	1.6	0.0	0.0	72.36	94.63
	-2.6	-3.9	-5.4	-7.0	-8.7	-10.2	-11.6	-12.7	-13.3	-13.4	-12.8	-11.2	-8.5	-4.5	0.9	0.0	0.0		
	-0.9	-1.9	-3.3	-3.8	-4.2	-4.2	-3.7	-2.5	-0.3	2.9	7.5	13.7	17.7	18.8	19.6	0.0	0.0		
22	47.6	37.7	31.0	23.5	17.5	13.4	10.4	8.2	6.6	5.3	4.3	3.4	2.8	0.0	0.0	0.0	0.0	75.43	95.47
	-2.7	-4.1	-5.7	-7.4	-9.1	-10.8	-12.4	-13.6	-14.5	-14.7	-14.3	-12.7	-10.5	0.0	0.0	0.0	0.0		
	-0.9	-1.9	-3.4	-4.0	-4.5	-4.6	-4.2	-3.0	-1.0	2.1	6.5	12.6	18.8	0.0	0.0	0.0	0.0		
23	48.1	38.0	31.3	24.2	18.3	14.0	10.7	8.6	6.7	5.6	4.5	3.6	2.9	0.0	0.0	0.0	0.0	78.32	96.31
	-2.8	-4.3	-6.0	-7.8	-9.6	-11.3	-13.1	-14.6	-15.6	-16.0	-15.8	-14.6	-12.4	0.0	0.0	0.0	0.0		
	-0.8	-1.8	-3.4	-4.2	-4.8	-5.0	-4.7	-3.7	-1.8	1.2	5.5	11.4	19.1	0.0	0.0	0.0	0.0		
24	48.5	38.4	31.6	25.4	19.0	14.5	11.4	9.0	7.2	5.8	4.7	3.8	3.1	0.0	0.0	0.0	0.0	80.97	97.14
	-2.9	-4.5	-6.2	-8.1	-10.1	-12.1	-13.9	-15.5	-16.7	-17.3	-17.3	-16.3	-14.4	0.0	0.0	0.0	0.0		
	-0.8	-1.8	-3.4	-4.5	-5.2	-5.5	-5.3	-4.4	-2.7	0.2	4.3	10.0	17.5	0.0	0.0	0.0	0.0		

CONCAST FLOOR UNIT --000-- WIDTH: 1200 MM DEPTH: 155 + 50 MM SCREED

UNPROPPED

N	2.0M	2.5M	3.0M	3.5M	4.0M	4.5M	5.0M	5.5M	6.0M	6.5M	7.0M	7.5M	8.0M	8.5M	9.0M	9.5M	10.0M	ULT. MOM.	VCO
9	42.5	26.9	17.7	12.2	8.6	6.1	4.3	3.0	2.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45.17	83.84
	-1.1	-1.5	-2.0	-2.4	-2.6	-2.5	-2.1	-1.5	0.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	-0.1	0.1	0.3	0.7	1.3	2.0	2.2	2.4	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
10	42.9	32.0	17.8	13.7	7.3	7.0	5.1	3.6	2.6	1.7	1.0	0.0	0.0	0.0	0.0	0.0	0.0	47.81	84.77
	-1.2	-1.7	-2.3	-2.8	-3.1	-3.2	-2.7	-2.1	-0.7	1.2	4.3	0.0	0.0	0.0	0.0	0.0	0.0		
	-0.2	0.1	0.3	0.7	1.3	2.2	2.6	2.8	3.0	3.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0		
11	41.4	32.5	22.0	15.3	10.7	8.0	5.9	4.3	3.1	2.2	1.4	0.0	0.0	0.0	0.0	0.0	0.0	54.39	88.33
	-1.3	-1.7	-2.6	-3.2	-3.6	-3.8	-3.4	-3.1	-2.0	-0.1	2.7	0.0	0.0	0.0	0.0	0.0	0.0		
	-0.2	0.0	0.3	0.8	1.5	2.2	2.7	3.2	3.5	3.7	3.7	0.0	0.0	0.0	0.0	0.0	0.0		
12	41.7	32.9	24.0	16.8	12.1	8.9	6.6	4.9	3.6	2.6	1.8	0.8	0.0	0.0	0.0	0.0	0.0	58.87	84.68
	-1.4	-2.1	-2.9	-3.5	-4.1	-4.5	-4.4	-4.1	-3.2	-1.5	1.1	4.7	0.0	0.0	0.0	0.0	0.0		
	-0.4	-0.5	0.2	0.9	1.5	2.1	3.2	3.6	4.0	4.2	4.3	3.4	0.9	0.0	0.2	0.0	0.0		
13	42.4	33.3	26.1	18.3	13.3	7.6	7.3	5.3	4.1	3.0	2.1	1.1	0.0	0.0	0.0	0.0	0.0	63.28	87.58
	-1.6	-2.3	-3.1	-3.9	-4.6	-5.1	-5.3	-5.1	-4.3	-2.8	-0.5	2.7	0.0	0.0	0.0	0.0	0.0		
	-0.4	-0.3	0.2	0.9	1.1	2.0	3.3	4.0	4.4	4.8	4.7	4.1	0.0	0.0	0.0	0.0	0.0		
14	42.9	33.7	27.5	19.8	14.4	10.7	8.1	6.1	4.6	3.5	2.3	1.4	0.0	0.0	0.0	0.0	0.0	67.62	86.32
	-1.7	-2.5	-3.4	-4.3	-5.1	-5.8	-6.1	-6.1	-5.5	-4.2	-2.0	1.1	0.0	0.0	0.0	0.0	0.0		
	-0.4	-0.5	0.1	0.9	1.1	1.9	3.2	4.4	4.7	5.3	5.4	4.3	0.3	0.0	0.0	0.0	0.0		
15	43.3	34.0	27.8	21.2	15.5	11.4	8.8	6.7	5.1	3.7	2.6	1.7	0.5	0.0	0.0	0.0	0.0	71.67	87.45
	-1.8	-2.7	-3.7	-4.7	-5.7	-6.4	-6.7	-7.0	-6.6	-5.5	-3.6	-0.6	3.5	0.0	0.0	0.0	0.0		
	-0.4	-0.5	-0.1	0.4	1.0	1.7	3.1	4.8	5.3	5.8	6.0	5.4	4.4	0.0	0.0	0.0	0.0		
16	43.8	34.1	28.2	22.7	16.6	12.4	9.5	7.3	5.6	4.3	3.2	2.0	1.1	0.0	0.0	0.0	0.0	76.08	90.27
	-1.7	-2.9	-4.0	-5.1	-6.2	-7.1	-7.7	-8.0	-7.7	-6.8	-5.1	-2.4	1.5	0.0	0.0	0.0	0.0		
	-0.4	-0.8	-0.4	0.4	0.7	1.8	3.0	4.0	5.7	6.3	6.6	6.1	5.1	0.0	0.0	0.0	0.0		

CONCAST FLOOR UNIT --000-- WIDTH: 1200 MM DEPTH: 155 + 50 MM SCREED

UNPROPPED

N	2.0M	2.5M	3.0M	3.5M	4.0M	4.5M	5.0M	5.5M	6.0M	6.5M	7.0M	7.5M	8.0M	8.5M	9.0M	9.5M	10.0M	ULT. MOM.	VCO
17	44.3	34.8	29.4	23.7	17.7	13.3	10.2	7.8	6.1	4.7	3.5	2.3	1.4	0.0	0.0	0.0	0.0	85.19	71.17
	-2.1	-3.1	-4.2	-5.0	-5.7	-7.7	-8.5	-8.7	-8.9	-8.0	-6.7	-4.2	-0.3	0.3	0.0	0.0	0.0		
	-0.4	-0.9	-0.6	0.3	0.8	1.2	2.7	4.6	6.2	6.8	7.1	6.7	5.8	0.0	0.0	0.0	0.0		
18	41.7	35.1	29.7	24.2	18.7	14.1	10.6	8.1	6.2	5.1	3.8	2.6	1.6	0.8	0.0	0.0	0.0	84.23	72.65
	-2.0	-3.3	-4.6	-5.7	-6.2	-9.3	-9.3	-9.7	-10.0	-9.5	-8.2	-5.9	-2.5	2.2	0.0	0.0	0.0		
	-0.4	-0.9	-0.8	-0.9	0.3	1.4	2.8	4.5	6.3	7.3	7.7	7.3	6.5	5.2	0.0	0.0	0.0		
19	45.2	35.5	27.1	24.4	19.8	14.7	11.5	8.7	7.1	5.5	4.2	2.9	1.7	1.1	0.0	0.0	0.0	88.20	72.72
	-2.0	-3.0	-1.5	-6.3	-7.7	-9.0	-10.1	-10.3	-11.1	-10.8	-9.7	-7.7	-4.5	-0.4	0.0	0.0	0.0		
	-0.4	-0.7	-1.0	-0.3	0.7	1.5	2.2	4.3	6.2	7.8	8.2	7.7	7.3	6.0	0.0	0.0	0.0		
20	45.6	35.7	27.3	24.2	20.3	15.2	12.1	9.2	7.4	5.7	4.5	3.2	2.2	1.3	0.0	0.0	0.0	92.06	73.70
	-2.3	-3.7	-5.1	-6.6	-8.2	-9.8	-10.3	-11.8	-12.2	-12.1	-11.2	-9.4	-6.5	-2.3	0.0	0.0	0.0		
	-0.1	-0.7	-1.3	-0.3	0.6	1.4	2.5	4.2	6.4	8.2	8.7	8.6	8.0	6.3	0.0	0.0	0.0		
21	46.1	36.2	27.6	25.3	21.4	16.2	12.0	10.0	7.7	6.2	4.8	3.5	2.4	1.5	0.8	0.0	0.0	95.93	74.63
	-2.6	-3.7	-5.4	-7.1	-8.7	-10.2	-11.6	-12.7	-13.3	-13.4	-12.8	-11.2	-8.5	-4.5	0.9	0.0	0.0		
	-0.4	-0.7	-1.5	-0.7	0.4	1.3	2.4	4.0	6.2	8.7	9.2	9.2	8.6	7.6	6.0	0.0	0.0		
22	46.5	36.6	27.9	25.2	21.7	17.2	13.3	10.4	8.2	6.6	5.1	3.9	2.7	1.7	0.7	0.0	0.0	99.61	75.47
	-2.7	-4.1	-5.7	-7.4	-9.1	-10.8	-12.4	-13.6	-14.5	-14.7	-14.3	-12.7	-10.5	-6.8	-1.5	0.0	0.0		
	-0.4	-0.7	-1.6	-1.1	0.1	1.1	2.2	3.7	5.9	8.7	9.8	9.8	9.3	8.4	6.7	0.0	0.0		
23	46.9	36.7	30.2	25.5	21.7	17.6	13.8	10.8	8.6	6.8	5.4	4.0	2.7	1.7	1.1	0.0	0.0	102.02	74.31
	-2.3	-4.3	-6.0	-7.8	-9.4	-11.3	-13.1	-14.6	-15.6	-16.0	-15.8	-14.4	-12.4	-9.0	-4.0	-0.3	0.0		
	-0.4	-0.8	-1.8	-1.4	-0.3	0.7	2.0	3.5	5.6	8.3	10.3	10.4	10.0	7.2	7.8	0.0	0.0		
24	47.4	37.3	30.5	25.7	22.1	18.5	14.3	11.2	9.0	7.2	5.7	4.3	3.1	2.2	1.3	0.0	0.0	103.34	97.14
	-2.9	-4.5	-6.2	-8.1	-10.1	-12.1	-13.9	-15.3	-16.7	-17.3	-17.3	-16.3	-14.4	-11.2	-6.5	0.0	0.0		
	-0.4	-0.5	-1.6	-1.7	-0.6	0.3	1.8	3.3	5.3	8.0	10.8	10.9	10.7	9.7	8.4	0.0	0.0		

CONCAST FLOOR UNIT --000-- WIDTH 1200 MM DEPTH 200 MM

N	3.0M	3.5M	4.0M	4.5M	5.0M	5.5M	6.0M	6.5M	7.0M	7.5M	8.0M	8.5M	9.0M	9.5M	10.0M	10.5M	11.0M	HOR.	VER
10	20.7	14.5	10.5	7.8	5.8	4.3	3.2	2.4	1.7	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.20	120.77
	-1.7	-2.4	-2.8	-3.1	-3.2	-3.1	-2.6	-1.7	-0.2	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	-1.2	-1.5	-1.5	-1.3	-0.7	0.4	2.1	3.7	3.8	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
11	23.0	16.2	11.8	8.8	6.6	5.0	3.8	2.8	2.1	1.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	55.01	120.94
	-2.1	-2.7	-3.2	-3.6	-3.9	-3.9	-3.5	-2.7	-1.5	0.5	3.1	0.0	0.0	0.0	0.0	0.0	0.0		
	-1.3	-1.7	-1.9	-1.7	-1.2	-0.5	1.4	3.7	4.5	4.6	4.4	0.0	0.0	0.0	0.0	0.0	0.0		
12	25.2	17.8	13.0	9.7	7.4	5.7	4.3	3.3	2.5	1.8	1.3	0.8	0.0	0.0	0.0	0.0	0.0	59.78	121.12
	-2.4	-3.0	-3.6	-4.2	-4.5	-4.6	-4.4	-3.8	-2.7	-1.0	1.5	4.8	0.0	0.0	0.0	0.0	0.0		
	-1.4	-1.9	-2.2	-2.1	-1.7	-0.8	0.6	2.8	5.1	5.4	5.5	5.4	0.0	0.0	0.0	0.0	0.0		
13	27.4	19.4	14.3	10.7	8.2	6.3	4.9	3.8	2.9	2.2	1.6	1.1	0.0	0.0	0.0	0.0	0.0	64.56	120.12
	-2.6	-3.3	-4.0	-4.7	-5.1	-5.4	-5.3	-4.9	-3.9	-2.9	-0.1	3.0	0.0	0.0	0.0	0.0	0.0		
	-1.5	-2.0	-2.5	-2.5	-2.2	-1.6	-0.1	1.7	4.8	6.1	6.3	6.3	0.0	0.0	0.0	0.0	0.0		
14	29.6	21.0	15.5	11.7	9.0	7.0	5.4	4.2	3.3	2.5	1.9	1.4	1.0	0.0	0.0	0.0	0.0	69.19	119.45
	-2.8	-3.6	-4.4	-5.2	-5.8	-6.1	-6.2	-5.9	-5.3	-3.8	-1.7	1.2	5.8	0.0	0.0	0.0	0.0		
	-1.7	-2.2	-2.8	-2.9	-2.7	-2.0	-0.8	1.1	3.8	6.9	7.2	7.3	7.3	0.0	0.0	0.0	0.0		
15	31.7	22.6	16.7	12.6	9.7	7.6	6.0	4.7	3.7	2.9	2.2	1.7	1.2	0.8	0.0	0.0	0.0	73.64	118.85
	-3.1	-3.9	-4.8	-5.7	-6.4	-6.9	-7.1	-7.0	-6.4	-5.2	-3.3	-0.4	3.0	7.7	0.0	0.0	0.0		
	-1.8	-2.4	-3.0	-3.3	-3.2	-2.6	-1.5	0.2	2.8	4.4	6.0	8.2	8.3	8.2	0.0	0.0	0.0		
16	33.9	24.2	17.9	13.6	10.5	8.2	6.5	5.2	4.1	3.2	2.5	1.9	1.4	1.0	0.0	0.0	0.0	78.45	116.09
	-3.3	-4.2	-5.2	-6.2	-7.0	-7.7	-8.0	-8.0	-7.6	-6.6	-4.9	-2.4	1.0	5.4	0.0	0.0	0.0		
	-1.9	-2.5	-3.2	-3.7	-3.4	-3.2	-2.2	-0.6	1.9	3.3	4.8	7.2	9.4	9.3	0.0	0.0	0.0		
17	36.0	25.8	19.1	14.5	11.3	8.7	7.0	5.6	4.5	3.6	2.8	2.2	1.7	1.2	0.9	0.6	0.0	84.02	113.70
	-3.5	-4.6	-5.6	-6.7	-7.6	-8.4	-8.9	-9.1	-8.8	-8.0	-6.5	-4.2	-1.0	3.2	8.4	0.0	0.0		
	-2.0	-2.7	-3.4	-4.1	-4.1	-3.8	-2.9	-1.4	0.7	4.2	8.5	10.1	10.4	10.5	10.4	0.0	0.0		
18	38.1	27.3	20.3	15.5	12.0	9.5	7.6	6.1	4.9	3.9	3.1	2.5	1.9	1.4	1.0	0.0	0.0	87.57	110.51
	-3.7	-4.9	-6.0	-7.2	-8.2	-9.1	-9.8	-10.1	-10.0	-9.4	-8.1	-6.0	-3.0	1.0	6.2	0.0	0.0		
	-2.1	-2.8	-3.6	-4.4	-4.6	-4.3	-3.6	-2.2	-0.6	3.1	7.3	11.0	11.4	11.7	11.4	0.0	0.0		

10950.

12150

12100

CONCAST FLOOR UNIT --000-- WIDTH 1200 MM DEPTH 200 MM

N	3.0M	3.5M	4.0M	4.5M	5.0M	5.5M	6.0M	6.5M	7.0M	7.5M	8.0M	8.5M	9.0M	9.5M	10.0M	10.5M	11.0M	HOR.	VER
19	40.2	28.8	21.5	16.4	12.8	10.1	8.1	6.5	5.2	4.2	3.4	2.7	2.1	1.6	1.2	0.9	0.0	92.04	139.53
	-3.9	-5.2	-6.4	-7.7	-8.9	-9.9	-10.7	-11.2	-11.2	-10.8	-9.7	-7.8	-5.0	-1.2	3.7	10.0	0.0		
	-2.2	-3.0	-3.8	-4.7	-5.0	-4.9	-4.2	-3.0	-0.9	2.0	6.1	11.4	12.5	12.8	12.9	12.7	0.0		
20	42.3	30.4	22.6	17.3	13.5	10.7	8.6	6.9	5.6	4.6	3.7	3.0	2.4	1.9	1.4	1.0	0.0	96.52	140.60
	-4.2	-5.5	-6.8	-8.2	-9.5	-10.6	-11.6	-12.2	-12.4	-12.1	-11.2	-9.6	-7.0	-3.5	1.3	7.3	0.0		
	-2.4	-3.2	-4.0	-5.0	-5.5	-5.4	-4.9	-3.7	-1.8	1.0	4.9	10.0	13.5	13.9	14.2	14.1	0.0		
21	44.3	31.9	23.8	18.2	14.3	11.3	9.1	7.4	6.0	4.9	4.0	3.2	2.6	2.1	1.6	1.2	0.9	100.89	141.89
	-4.4	-5.8	-7.2	-8.7	-10.1	-11.4	-12.4	-13.2	-13.6	-13.5	-12.8	-11.3	-9.0	-5.7	-1.2	4.6	11.8		
	-2.5	-3.3	-4.2	-5.2	-5.9	-6.0	-5.5	-4.5	-2.7	-0.1	3.7	8.6	14.5	15.0	15.4	15.5	15.3		
22	46.3	33.3	24.9	19.1	15.0	11.9	9.6	7.8	6.4	5.2	4.3	3.5	2.9	2.3	1.8	1.4	1.0	105.20	142.99
	-4.6	-6.1	-7.6	-9.2	-10.7	-12.1	-13.3	-14.3	-14.8	-14.9	-14.3	-13.1	-10.9	-7.8	-3.6	1.9	8.9		
	-2.6	-3.5	-4.4	-5.5	-6.3	-6.6	-6.2	-5.3	-3.6	-1.1	3.5	7.3	13.8	16.1	16.6	16.8	16.7		
23	47.7	34.7	26.0	20.0	15.7	12.5	10.1	8.2	6.7	5.5	4.5	3.7	3.0	2.4	2.0	1.5	1.2	109.33	144.01
	-4.8	-6.3	-8.0	-9.6	-11.3	-12.8	-14.2	-15.3	-16.0	-16.2	-15.9	-14.8	-12.9	-10.0	-6.0	-0.7	6.0		
	-2.6	-3.6	-4.6	-5.7	-6.8	-7.0	-6.8	-6.0	-4.5	-2.2	1.3	5.9	11.9	17.2	17.7	18.1	18.1		
24	48.9	36.1	27.1	20.8	16.4	13.1	10.6	8.6	7.1	5.8	4.8	4.0	3.2	2.6	2.1	0.0	0.0	113.42	147.39
	-4.6	-6.1	-7.6	-9.2	-10.7	-12.1	-13.3	-14.3	-14.8	-14.9	-14.4	-13.1	-11.0	-7.9	-3.7	0.0	0.0		
	-2.8	-3.6	-4.3	-4.8	-5.0	-4.7	-4.2	-2.9	-0.9	2.1	6.1	11.4	18.1	19.0	19.8	0.0	0.0		
	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2				
25	49.2	37.5	28.1	21.7	17.0	13.6	11.0	9.0	7.4	6.1	5.1	4.2	3.4	0.0	0.0	0.0	0.0	117.43	148.48
	-4.8	-6.4	-8.0	-9.7	-11.3	-12.7	-14.2	-15.3	-16.0	-16.3	-15.7	-14.7	-13.0	0.0	0.0	0.0	0.0		
	-2.7	-3.7	-4.6	-5.2	-5.5	-5.4	-4.9	-3.8	-1.9	0.9	4.8	10.0	16.5	0.0	0.0	0.0	0.0		
	2	2	2	2	2	2	2	2	2	2	2	2	2						
26	49.6	38.9	29.1	22.5	17.7	14.2	11.5	9.4	7.7	6.4	5.3	4.4	3.6	0.0	0.0	0.0	0.0	121.34	149.56
	-5.0	-6.7	-8.4	-10.1	-11.9	-13.6	-15.1	-16.3	-17.2	-17.6	-17.5	-16.6	-14.9	0.0	0.0	0.0	0.0		
	-2.7	-4.1	-4.7	-5.6	-6.0	-6.0	-5.6	-4.6	-2.8	-0.2	3.5	8.5	14.9	0.0	0.0	0.0	0.0		
	2	2	2	2	2	2	2	2	2	2	2	2	2						
27	49.9	40.2	30.1	23.3	18.3	14.7	11.9	9.8	8.1	6.7	5.6	4.6	3.8	0.0	0.0	0.0	0.0	125.16	150.43
	-5.3	-6.9	-8.8	-10.6	-12.5	-14.3	-15.9	-17.3	-18.4	-19.0	-19.0	-18.3	-16.9	0.0	0.0	0.0	0.0		
	-2.7	-4.2	-5.2	-5.9	-6.4	-6.6	-6.3	-5.4	-3.8	-1.3	2.3	7.0	13.2	0.0	0.0	0.0	0.0		
	2	2	2	2	2	2	2	2	2	2	2	2	2						

CONCAST FLOOR UNIT --000-- WIDTH: 1200 MM DEPTH: 200 MM

N	3.0M	3.5M	4.0M	4.5M	5.0M	5.5M	6.0M	6.5M	7.0M	7.5M	8.0M	8.5M	9.0M	9.5M	10.0M	10.5M	11.0M	ULT. MOM.	VCO
28	50.3	41.2	30.7	23.9	18.8	15.1	12.3	10.1	8.3	6.9	5.8	4.8	4.0	3.3	0.0	0.0	0.0	130.10	151.70
	-5.5	-7.2	-9.1	-11.1	-13.1	-15.0	-16.8	-18.3	-19.6	-20.3	-20.5	-20.1	-18.8	-16.6	0.0	0.0	0.0		
	-2.7	-4.3	-5.6	-6.4	-7.0	-7.3	-7.2	-6.4	-5.0	-2.7	0.7	5.2	11.2	18.7	0.0	0.0	0.0		
	2	2	2	2	2	2	2	2	2	2	2	2	2	2					
29	50.7	42.2	31.7	24.5	19.3	15.5	12.6	10.4	8.6	7.1	5.9	5.0	4.1	3.5	0.0	0.0	0.0	131.01	152.74
	-5.7	-7.5	-9.5	-11.6	-13.7	-15.7	-17.7	-19.4	-20.7	-21.7	-22.0	-21.8	-20.7	-18.7	0.0	0.0	0.0		
	-2.7	-4.4	-5.7	-6.9	-7.6	-8.1	-8.1	-7.5	-6.2	-4.1	-0.9	3.4	9.1	16.3	0.0	0.0	0.0		
	2	2	2	2	2	2	2	2	2	2	2	2	2	2					
30	51.0	43.1	32.4	25.0	19.8	15.7	12.9	10.6	8.8	7.3	6.1	5.1	4.3	3.6	0.0	0.0	0.0	133.44	153.01
	-5.9	-7.8	-9.7	-12.1	-14.3	-16.5	-18.5	-20.4	-21.7	-23.0	-23.6	-23.5	-22.6	-20.9	0.0	0.0	0.0		
	-2.7	-4.5	-5.8	-7.2	-8.3	8.8	-9.0	-8.6	-7.5	-5.5	-2.6	1.5	6.9	13.9	0.0	0.0	0.0		
	2	2	2	2	2	2	2	2	2	2	2	2	2	2					
31	51.4	43.7	32.8	25.4	20.1	16.1	13.1	10.8	9.0	7.5	6.2	5.2	4.4	3.7	3.1	0.0	0.0	135.52	154.05
	-6.1	-8.1	-10.3	-12.6	-14.7	-17.2	-19.4	-21.3	-23.0	-24.3	-25.1	-25.2	-24.5	-23.0	-20.4	0.0	0.0		
	-2.7	-4.5	-5.8	-7.3	-8.0	-9.7	-10.0	-9.8	-8.7	-7.2	-4.6	-0.7	4.4	11.1	19.6	0.0	0.0		
	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2				
32	52.5	44.2	33.3	25.7	20.3	16.4	13.3	11.0	9.1	7.6	6.3	5.3	4.5	3.7	0.0	0.0	0.0	137.10	157.94
	-5.7	-7.8	-9.7	-12.1	-14.3	-16.5	-18.5	-20.4	-21.7	-23.0	-23.6	-23.5	-22.7	-20.9	0.0	0.0	0.0		
	-2.8	-4.7	-6.0	-6.9	-7.7	-8.1	-8.0	-7.5	-6.2	-4.0	-0.9	3.5	9.3	16.6	0.0	0.0	0.0		
	4	4	4	4	4	4	4	4	4	4	4	4	4	4					
33	52.8	44.7	33.7	26.1	20.6	16.6	13.5	11.1	9.2	7.7	6.5	5.4	4.6	3.8	0.0	0.0	0.0	130.09	150.96
	-6.1	-8.1	-10.3	-12.6	-14.7	-17.2	-19.4	-21.4	-23.0	-24.3	-25.1	-25.2	-24.6	-23.0	0.0	0.0	0.0		
	-2.8	-4.7	-6.0	-7.5	-8.4	-9.0	-9.1	-8.8	-7.7	-5.8	-2.8	1.2	6.7	13.7	0.0	0.0	0.0		
	4	4	4	4	4	4	4	4	4	4	4	4	4	4					
34	53.2	45.1	33.9	26.3	20.8	16.7	13.6	11.2	9.3	7.8	6.5	5.5	4.6	3.9	3.2	0.0	0.0	139.73	159.23
	-6.3	-8.4	-10.7	-13.0	-15.5	-17.7	-20.2	-22.4	-24.2	-25.7	-26.6	-26.9	-26.5	-25.1	-22.8	0.0	0.0		
	-2.8	-4.7	-6.0	-7.5	-7.1	-10.1	-10.4	-10.3	-9.5	-7.0	-5.2	-1.4	3.7	10.3	18.7	0.0	0.0		
	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4				
35	53.6	45.5	34.5	26.7	21.1	17.0	13.9	11.4	9.5	7.9	6.6	5.6	4.7	4.0	3.3	0.0	0.0	141.73	160.97
	-6.5	-8.7	-11.0	-13.5	-16.1	-18.6	-21.1	-23.3	-25.3	-27.0	-28.1	-28.6	-28.4	-27.3	-25.1	0.0	0.0		
	-2.8	-4.7	-6.1	-7.6	-9.2	-10.9	-11.4	-11.5	-10.8	-9.4	-7.0	-3.5	1.3	7.7	15.8	0.0	0.0		
	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4				
36	53.9	45.8	35.1	27.2	21.5	17.4	14.2	11.7	9.7	8.1	6.8	5.7	4.8	4.1	3.4	0.0	0.0	143.30	161.97
	-6.7	-9.0	-11.4	-14.0	-16.6	-19.3	-21.9	-24.3	-26.5	-28.3	-29.6	-30.3	-30.3	-29.4	-27.4	0.0	0.0		
	-2.8	-4.7	-6.2	-7.7	-9.4	-11.1	-12.3	-12.5	-12.0	-10.8	-8.6	-5.3	-0.7	5.4	13.2	0.0	0.0		
	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4				

CONCAST FLOOR UNIT --000-- WIDTH: 1200 MM DEPTH: 200 MM

STRUCTURAL SCREED
UNPROPPED

N	3.0M	3.5M	4.0M	4.5M	5.0M	5.5M	6.0M	6.5M	7.0M	7.5M	8.0M	8.5M	9.0M	9.5M	10.0M	10.5M	11.0M	ULT. MOM.	VCO
10	23.7	18.0	12.7	9.5	7.0	5.1	3.7	2.6	1.8	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	63.50	128.72
	-1.7	-2.4	-2.8	-3.1	-1.2	-4.1	-2.6	-1.7	-0.2	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	[illegible]	0.2	0.1	0.3	1.2	2.1	2.1	2.4	2.4	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
11	24.6	20.1	14.5	10.7	8.0	5.7	4.4	3.2	2.3	1.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0	69.43	129.76
	2.1	-2.7	-3.2	-4.5	-3.7	-5.7	-3.5	-2.7	-1.3	0.5	3.1	0.0	0.0	0.0	0.0	0.0	0.0		
	1.5	0.3	0.0	1.5	1.0	5.0	2.6	2.0	2.2	2.7	2.6	0.0	0.0	0.0	0.0	0.0	0.0		
12	31.1	22.1	16.0	11.7	9.2	6.7	5.1	3.8	2.8	1.7	1.1	0.0	0.0	0.0	0.0	0.0	0.0	75.29	131.17
	2.1	3.3	3.6	-4.2	-4.5	-4.6	-1.4	3.3	-2.7	-1.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0		
	0.1	-2.3	-0.7	0.2	0.0	1.7	3.0	1.2	3.5	5.3	3.1	0.0	0.0	0.0	0.0	0.0	0.0		
13	31.3	24.1	17.7	11.1	7.9	5.5	3.3	4.4	3.3	2.1	1.5	0.0	0.0	0.0	0.0	0.0	0.0	81.07	132.43
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-4.7	3.7	2.1	[illegible]	0.0	0.0	0.0	0.0	0.0	0.0		
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.0	0.0	0.0	0.0	0.0	0.0		
14	26.7	25.3	17.9	13.3	10.7	1.3	5.3	4.7	3.7	2.0	1.3	0.7	0.0	0.0	0.0	0.0	0.0	86.78	133.43
	-2.8	-5.6	4.0	-2.2	-1.8	-5.1	-5.2	-3.7	-3.2	-3.8	-1.7	1.2	0.0	0.0	0.0	0.0	0.0		
	0.7	0.3	0.1	0.1	0.7	1.3	1.7	4.0	4.2	4.4	3.1	5.3	0.0	0.0	0.0	0.0	0.0		
15	27.4	27.9	20.5	15.1	11.8	9.1	7.1	5.5	4.2	3.2	2.1	1.2	0.0	0.0	0.0	0.0	0.0	92.41	134.41
	[illegible]	[illegible]	[illegible]	-3.2	[illegible]	-5.7	-7.1	[illegible]	6.4	-2.2	[illegible]	[illegible]	0.0	0.0	0.0	0.0	0.0		
	1.5	[illegible]	[illegible]	[illegible]	[illegible]	1.1	[illegible]	[illegible]	1.7	4.9	1.3	[illegible]	0.0	0.0	0.0	0.0	0.0		
16	31.7	29.3	22.0	15.6	12.7	9.9	7.7	6.0	4.7	3.6	2.4	1.5	0.0	0.0	0.0	0.0	0.0	97.[illegible]	136.07
	4.1	-1.2	5.2	-6.2	-7.0	-7.7	-1.0	-8.0	-7.6	-6.6	-4.7	-2.4	0.0	0.0	0.0	0.0	0.0		
	-0.5	-0.7	-0.6	-0.1	0.1	0.7	2.0	1.6	7.1	7.3	5.0	4.1	0.0	0.0	0.0	0.0	0.0		
17	34.2	31.7	23.4	17.7	13.7	10.6	8.4	6.6	5.2	3.7	2.7	1.7	0.9	0.0	0.0	0.0	0.0	103.45	137.20
	-1.3	-4.5	-5.6	-6.7	-7.3	-8.4	-8.9	-7.1	-8.8	-8.0	-6.5	-4.2	-1.0	0.0	0.0	0.0	0.0		
	-0.7	-2.0	-0.7	-0.5	-0.1	0.7	1.0	1.5	5.4	5.7	5.5	4.9	3.9	0.0	0.0	0.0	0.0		
18	11.5	33.5	21.8	19.4	14.6	11.4	9.0	7.1	5.6	4.3	3.0	2.0	1.2	0.0	0.0	0.0	0.0	108.05	138.37
	-5.7	-1.9	-6.9	-7.3	-8.2	-9.1	-7.8	-10.1	-10.0	-9.4	-9.1	-6.0	-3.0	0.0	0.0	0.0	0.0		
	-1.7	-0.8	-0.8	-0.6	-0.2	0.5	1.7	3.0	5.1	6.1	5.7	5.4	4.5	0.0	0.0	0.0	0.0		

CONCAST FLOOR UNIT --000-- WIDTH 1200 MM DEPTH 200 MM STRUCTURAL SCREED UNPROPPED

N	3.0M	3.5M	4.0M	4.5M	5.0M	5.5M	6.0M	6.5M	7.0M	7.5M	8.0M	8.5M	9.0M	9.5M	10.0M	10.5M	11.0M	ULT. MOM.	VCO
19	45.9	[illegible]	[illegible]	19.9	15.5	12.1	9.6	[illegible]	6.1	4.6	3.3	2.3	1.4	0.0	0.0	0.0	0.0	114.10	[illegible]
	[illegible]	-5.2	-6.4	[illegible]	-8.7	-9.5	-10.2	-11.2	[illegible]	-10.0	[illegible]	-7.8	-5.0	0.0	0.0	0.0	0.0		
	[illegible]	[illegible]	[illegible]	0.8	0.4	0.3	1.5	2.7	[illegible]	[illegible]	[illegible]	[illegible]	5.1	0.0	0.0	0.0	0.0		
20	47.4	42.2	[illegible]	21.0	16.3	12.7	10.7	8.2	[illegible]	[illegible]	[illegible]	2.6	1.6	0.9	0.0	0.0	0.0	117.43	140.69
	[illegible]	-5.5	[illegible]	-8.2	-9.5	-10.6	-11.6	-12.2	-12.4	-12.1	-11.2	[illegible]	-7.0	-1.5	0.0	0.0	0.0		
	-1.3	1.0	-1.4	[illegible]	[illegible]	[illegible]	1.0	2.4	[illegible]	[illegible]	6.0	[illegible]	5.6	4.5	0.0	0.0	0.0		
21	45.8	38.2	[illegible]	22.1	17.2	13.6	10.8	[illegible]	[illegible]	[illegible]	3.7	2.8	1.9	1.1	0.0	0.0	0.0	[illegible]	[illegible]
	-4.4	[illegible]	[illegible]	-8.2	-10.1	[illegible]	-12.4	-13.2	[illegible]	[illegible]	-12.8	-11.3	-9.0	[illegible]	0.0	0.0	0.0		
	1.1	1.1	1.1	[illegible]	[illegible]	[illegible]	0.8	2.1	[illegible]	[illegible]	[illegible]	6.7	[illegible]	5.1	0.0	0.0	0.0		
22	46.2	[illegible]	[illegible]	23.1	18.0	14.3	11.4	[illegible]	[illegible]	5.6	[illegible]	3.1	2.1	1.3	0.0	0.0	0.0	[illegible]	[illegible]
	-4.6	-6.1	[illegible]	[illegible]	-10.7	[illegible]	-13.3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-10.9	-7.0	0.0	0.0	0.0		
	1.1	1.4	[illegible]	-1.2	-0.7	-0.3	0.5	1.9	[illegible]	[illegible]	[illegible]	7.1	6.8	5.7	0.0	0.0	0.0		
23	46.6	39.4	31.6	24.2	18.7	15.0	12.0	9.7	[illegible]	5.9	4.5	3.3	2.2	1.5	0.9	0.0	0.0	130.86	[illegible]
	-4.9	-6.3	-8.0	-9.6	-11.3	-12.8	-14.2	-15.3	-16.0	-16.2	-15.7	-14.8	-12.7	-10.0	-6.0	0.0	0.0		
	1.3	-1.4	-1.3	-1.3	-1.0	-0.5	0.3	1.6	[illegible]	[illegible]	4.6	[illegible]	7.3	6.3	[illegible]	0.0	0.0		
24	47.8	40.4	[illegible]	25.3	19.8	15.7	12.6	10.2	8.1	6.3	[illegible]	3.6	2.6	1.8	1.0	0.0	0.0	[illegible]	[illegible]
	-4.6	-6.1	-7.6	-9.2	-10.7	-12.1	-13.3	-14.3	[illegible]	-14.7	[illegible]	-13.1	-11.0	[illegible]	-3.7	0.0	0.0		
	1.1	-1.2	-0.7	-0.5	[illegible]	0.7	1.8	3.4	[illegible]	7.1	9.0	[illegible]	8.4	7.6	6.3	0.0	0.0		
	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2				
25	49.1	[illegible]	[illegible]	26.3	20.6	16.4	13.2	[illegible]	8.5	6.7	5.1	[illegible]	2.8	[illegible]	1.2	0.0	0.0	[illegible]	[illegible]
	-4.8	-6.4	-8.0	-9.7	-11.3	-12.7	-14.2	-15.3	-16.0	[illegible]	-15.9	-14.9	-13.0	-10.1	-6.1	0.0	0.0		
	1.4	-1.4	-0.8	-0.6	-0.2	0.5	1.6	3.1	4.7	6.6	[illegible]	9.3	[illegible]	8.2	[illegible]	0.0	0.0		
	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2				
26	48.5	41.1	[illegible]	27.3	21.4	17.1	13.8	11.2	8.9	7.0	5.4	4.1	3.1	2.2	1.4	0.0	0.0	149.91	147.56
	-5.0	-6.7	-8.4	-10.1	-11.7	-13.6	-15.1	-16.3	-17.2	-17.6	-17.5	-16.6	-14.9	-12.3	-8.5	0.0	0.0		
	-1.4	-1.7	-0.9	-0.7	-0.3	0.3	1.4	2.8	4.2	6.0	8.3	[illegible]	9.5	8.8	7.6	0.0	0.0		
	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2				
27	[illegible]	41.4	35.8	28.4	22.3	17.8	14.3	11.6	9.2	7.3	5.7	4.4	3.3	2.4	1.6	0.9	0.0	[illegible]	[illegible]
	-5.3	-6.9	-8.8	-10.6	-12.5	-14.3	-15.7	-17.3	-18.4	-19.0	-19.0	-18.3	-16.9	-14.4	-10.9	-6.1	0.0		
	-1.4	-1.7	-1.2	-0.8	-0.5	0.1	1.1	2.4	3.8	5.5	7.7	10.3	10.0	9.3	8.3	6.7	0.0		
	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2			

CONCAST FLOOR UNIT --000-- WIDTH 1200 MM DEPTH 200 MM STRUCTURAL SCREED UNPROPPED

N	3.0M	3.5M	4.0M	4.5M	5.0M	5.5M	6.0M	6.5M	7.0M	7.5M	8.0M	8.5M	9.0M	9.5M	10.0M	10.5M	11.0M	ULT. MOM.	VCO
48	47.3	41.7	36.0	27.4	23.1	18.4	14.7	12.0	9.6	7.6	6.0	4.6	3.5	2.6	1.7	1.0	0.0	159.80	151.70
	-5.5	-7.2	-9.1	-11.1	-13.1	-15.0	-16.8	-18.3	-19.6	-20.3	-20.5	-20.1	-18.8	-16.6	-13.3	-8.8	0.0		
	1.4	-3.2	-1.5	-1.0	-0.6	-0.0	0.9	2.1	3.3	5.0	7.1	9.7	10.5	9.2	8.7	7.4	0.0		
	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2			
49	47.6	42.0	36.5	30.4	23.7	17.1	15.5	12.4	9.7	7.9	6.2	4.7	3.7	2.7	1.7	1.2	0.0	164.70	152.76
	[illegible]	-7.2	-9.5	-11.6	-13.7	-15.7	-17.7	-19.4	-20.7	-21.7	-22.0	-21.8	-20.7	-18.7	-15.7	-11.4	0.0		
	-1.4	-2.4	-1.8	-1.1	-0.8	-0.2	0.7	1.7	2.7	4.5	6.5	9.1	11.0	10.5	9.6	8.1	0.0		
	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2			
50	50.0	42.5	36.6	31.4	24.7	17.8	16.0	12.8	10.3	8.2	6.5	5.1	3.9	2.9	2.1	1.4	0.0	169.39	153.81
	-5.7	-7.0	-9.7	-12.1	-14.3	-16.5	-18.3	-20.4	-21.7	-23.0	-23.4	-23.5	-22.6	-20.7	-18.0	-14.0	0.0		
	-1.4	-2.4	-2.1	-1.2	-0.7	-0.4	0.4	1.3	2.5	4.0	6.0	8.4	11.5	11.1	10.2	8.8	0.0		
	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2			
51	[illegible]	42.6	36.7	32.3	25.4	20.4	16.5	13.2	10.6	8.5	6.8	5.3	4.1	3.1	2.3	1.5	0.7	173.84	154.85
	-6.1	-8.1	-10.3	-12.6	-14.7	-17.2	-19.4	-21.3	-23.0	-24.3	-25.1	-25.2	-24.5	-23.0	-20.1	-16.6	-11.4		
	-1.4	-2.1	-2.4	-1.3	-1.1	-0.6	0.2	0.9	2.0	3.5	5.4	7.8	10.7	11.6	10.8	9.5	7.7		
	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		
52	51.1	43.6	37.7	33.1	26.1	21.0	17.0	13.8	11.1	8.9	7.1	5.5	4.4	3.4	2.5	1.7	1.0	178.05	157.94
	-5.7	-7.3	-9.2	-12.1	-14.3	-16.5	-19.5	-20.1	-21.9	-23.0	-23.6	-23.5	-22.7	-20.7	-18.1	-14.0	-8.5		
	-1.5	-2.5	-1.7	-0.5	0.2	0.5	1.6	2.8	1.1	5.7	8.2	10.7	13.1	12.8	12.1	10.7	9.2		
	1	1	4	4	4	1	4	1	4	4	4	4	4	4	4	4	4		
53	51.8	43.7	37.7	33.3	26.7	21.5	17.6	14.1	11.4	9.2	7.4	5.7	4.6	3.6	2.6	1.7	1.2	182.55	158.76
	-5.1	-8.1	-10.1	-12.6	-14.7	-17.2	-19.4	-21.4	-23.0	-24.3	-25.1	-25.2	-24.6	-23.0	-20.4	-16.6	-11.5		
	-1.1	2.5	-2.2	-1.0	0.3	0.1	1.3	2.4	1.7	5.1	7.6	10.3	13.6	13.3	12.7	11.6	10.0		
	1	4	1	1	4	4	4	4	4	4	4	4	4	1	4	4	4		
54	[illegible]	44.2	38.2	33.5	27.6	22.2	18.0	14.5	11.7	9.5	7.6	5.1	4.8	3.7	3.0	2.0	1.3	186.64	159.77
	-5.1	-8.4	-10.7	-13.0	-15.5	-17.7	-20.2	-22.4	-24.2	-25.7	-26.4	-26.7	-26.5	-25.1	-22.9	-19.2	-14.3		
	-1.5	-2.5	-2.5	-1.5	-0.7	0.1	1.1	2.0	1.3	4.7	7.0	7.6	12.3	11.7	11.1	12.3	10.7		
	1	1	1	4	1	1	4	4	4	4	4	4	4	4	4	4	4		
55	52.5	44.5	38.5	33.8	28.3	22.7	18.5	14.7	12.1	9.8	7.7	6.3	5.0	3.7	3.0	2.2	1.5	190.74	160.97
	-5.5	-9.7	-11.0	-13.5	-16.1	-18.6	-21.1	-23.3	-25.1	-27.0	-28.1	-28.6	-28.4	-26.3	-25.1	-21.8	-17.1		
	-1.5	-2.4	-2.8	-1.7	-0.7	-0.1	0.8	1.5	2.3	4.1	6.5	7.0	12.1	14.4	13.9	12.9	11.4		
	4	4	1	4	4	4	4	4	4	4	4	4	1	4	4	4	4		
56	52.8	44.8	38.7	34.0	28.8	23.2	18.9	15.3	12.4	10.0	8.1	6.6	5.2	4.1	3.1	2.3	1.6	194.16	161.97
	-6.7	-7.9	-11.4	-11.9	-16.6	-17.3	-21.7	-24.3	-26.5	-28.3	-29.6	-30.3	-30.3	-29.0	-27.4	-24.4	-19.7		
	-1.5	-2.1	-3.1	-2.1	-1.0	-0.4	0.4	1.3	2.4	3.9	5.7	8.4	11.4	15.0	14.5	13.6	12.2		
	1	4	1	4	4	4	4	4	4	4	4	4	1	4	4	4	4		

CONCAST FLOOR UNIT --000-- WIDTH: 1200 MM DEPTH: 200 MM

50 STRUCTURAL SCREED? Proposed

M	3.0M	3.5M	4.0M	4.5M	5.0M	5.5M	6.0M	6.5M	7.0M	7.5M	8.0M	8.5M	9.0M	9.5M	10.0M	10.5M	11.0M	ULT. MOM.	[illegible]
10	35.7	[illegible]	12.7	7.5	7.0	3.1	3.7	2.6	1.8	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	-1.3	-2.3	-3.7	-3.0	-3.0	-2.8	-2.3	-1.3	0.2	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	53.50	128.72
	-0.2	-0.1	0.2	0.7	1.1	2.1	2.7	2.4	2.3	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
															0.0	0.0	0.0		
11	23.6	20.1	14.5	10.7	8.0	5.3	4.1	3.2	2.3	1.5	0.9	0.0	0.0	0.0	0.0	0.0	0.0		
	-2.3	-2.6	-3.1	-3.3	-3.5	-3.6	-3.2	-2.4	-1.0	1.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	59.43	129.96
	-3.2	-0.1	0.1	0.4	1.2	2.3	2.7	2.3	2.9	2.7	2.8	0.0	0.0	0.0	0.0	0.0	0.0		
12	31.1	22.1	16.0	11.7	8.7	6.7	5.1	3.8	2.8	1.7	1.3	0.0	0.0	0.0	0.0	0.0	0.0		
	-2.3	-2.9	-3.5	-3.7	-4.3	-4.3	-4.1	-3.4	-2.2	-0.4	2.1	0.0	0.0	0.0	0.0	0.0	0.0	75.29	131.17
	-0.1	-0.2	1.0	0.1	1.1	2.1	3.0	3.2	3.4	3.4	3.4	0.0	0.0	0.0	0.0	0.0	1.0		
13	21.2	21.0	17.5	13.1	7.7	7.5	5.5	4.4	3.3	2.4	1.6	1.0	0.0	0.0	0.0	0.0	0.0		
	[illegible]	-1.2	-1.7	-4.0	-4.2	-3.1	-3.3	-4.4	-3.4	-1.4	0.0	3.1	0.0	0.7	0.0	0.0	0.0	81.07	132.42
	[illegible]	-0.3	-0.1	0.3	3.7	1.7	3.3	3.6	3.3	4.3	4.0	3.9	0.0	0.0	0.0	0.0	0.0		
14	36.2	25.0	19.0	14.3	10.7	8.3	4.4	4.7	3.7	2.8	2.0	1.4	0.0	0.0	0.0	0.0	0.0		
	-2.7	-1.3	-4.3	-4.7	-3.5	-3.3	-3.0	-5.4	-4.6	-3.1	-1.0	2.0	0.0	0.0	0.0	0.0	0.0	86.79	137.43
	-0.4	-0.4	-0.3	0.2	0.4	1.7	3.0	4.0	4.3	4.5	1.6	4.2	0.0	0.0	0.0	0.0	0.0		
15	33.1	27.9	20.5	15.4	11.3	7.1	7.1	5.5	4.2	3.2	2.4	1.7	0.7	0.0	0.0	0.0	0.0		
	-2.7	-3.4	-4.6	-3.4	-5.1	-6.3	-5.7	-6.5	-5.8	-4.3	-2.3	0.3	4.0	0.0	0.0	0.0	0.0	92.41	134.83
	-1.5	-1.4	-0.3	0.0	0.5	1.2	2.8	4.4	4.7	7.0	5.1	5.1	4.3	0.0	0.0	0.0	0.0		
16	41.2	29.8	22.0	16.6	12.7	9.7	7.7	6.0	4.2	3.6	2.7	1.7	1.1	0.0	0.0	0.0	0.0		
	-1.2	-2.1	-5.0	-5.7	-6.7	-7.3	-7.6	-7.5	-7.0	-5.7	-4.1	-1.3	2.0	0.0	0.0	0.0	0.0	97.97	135.02
	-0.7	-0.9	-0.4	-0.1	0.5	1.3	2.5	4.2	5.2	5.8	5.7	5.5	4.7	0.0	0.0	0.0	0.0		
17	34.2	31.7	23.4	17.7	13.7	10.5	8.4	6.6	5.2	4.0	3.1	2.2	1.4	0.0	0.0	0.0	0.0		
	-5.4	-4.4	-5.4	-4.4	-7.3	-8.0	-8.1	-8.5	-8.1	-7.2	-5.6	-3.2	0.1	0.0	0.0	0.0	0.0	103.45	137.20
	-1.5	-0.6	-0.5	-0.2	0.3	1.1	2.3	3.7	5.6	6.0	6.1	4.1	5.5	0.0	0.0	0.0	0.0		
18	34.6	31.5	24.8	19.8	14.6	11.4	9.0	7.1	5.6	4.4	3.4	2.5	1.6	0.7	0.0	0.0	0.0		
	-5.6	-4.7	-5.8	-6.7	-7.9	-3.7	-7.3	-9.2	-7.3	-8.6	-7.1	-7.0	-1.9	2.3	0.0	0.0	0.0	108.85	138.37
	-0.8	-0.7	-0.6	-0.3	0.2	0.9	7.1	3.7	5.8	6.3	4.8	6.6	6.1	5.2	0.0	0.0	0.0		

CONCAST FLOOR UNIT --009-- WIDTH: 1200 MM DEPTH: 200 MM

50 ST. SCREED Proposed

M	3.0M	3.5M	4.0M	4.5M	5.0M	5.5M	6.0M	6.5M	7.0M	7.5M	8.0M	8.5M	9.0M	9.5M	10.0M	10.5M	11.0M	ULT. MOM.	[illegible]
19	45.0	35.4	26.0	17.9	15.5	12.1	9.6	7.6	6.1	4.8	3.8	2.7	1.7	1.1	0.0	0.0	0.0	114.18	[illegible]
	-2.3	-3.0	-5.2	-7.4	-6.5	-7.4	-10.1	-10.5	-10.3	-7.9	-8.7	-6.7	-3.8	0.1	0.0	0.0	0.0		
	-1.0	-6.2	-0.2	-0.9	[illegible]	0.7	1.7	1.4	5.5	7.0	7.3	7.1	6.7	5.8	0.0	0.0	0.0		
20	45.1	32.2	27.5	21.4	16.3	12.7	10.2	8.2	6.5	5.2	4.1	3.0	2.1	1.3	0.0	0.0	0.0	117.43	110.40
	-4.0	-2.3	-4.4	-7.8	[illegible]	-10.1	-11.3	-11.7	-11.6	-11.2	-10.2	-8.4	-5.7	-2.2	0.0	0.2	0.0		
	-1.2	[illegible]	[illegible]	-3.6	-0.1	2.6	1.6	3.1	5.2	[illegible]	2.6	7.6	7.2	6.5	0.0	0.0	0.0		
21	45.8	39.7	29.2	22.1	17.2	13.6	10.8	8.7	7.0	5.6	4.4	3.3	2.3	1.5	0.9	0.0	0.0		
	-4.2	-5.3	-6.7	-2.1	-2.7	-10.7	-11.3	-12.3	-12.8	-12.6	-11.7	-10.1	-7.6	-4.1	0.5	0.0	0.0	121.62	[illegible]
	-1.3	-0.7	-0.2	-0.7	-3.1	0.1	1.4	2.7	4.7	7.3	8.2	8.1	7.8	7.1	6.0	0.0	0.0		
22	46.2	37.1	34.3	25.1	18.0	14.3	11.4	9.2	7.4	6.0	4.6	3.5	2.6	1.8	1.1	0.0	0.0	127.62	[illegible]
	-4.4	-5.8	-7.3	-9.9	-10.2	-11.6	-12.7	-13.5	-13.7	-11.7	-13.2	-11.8	-9.5	-6.3	-1.8	0.0	0.0		
	-1.0	-1.1	-1.0	-0.8	-0.3	0.2	1.2	2.4	4.6	7.1	9.3	8.6	8.3	7.7	6.2	0.0	0.0		
23	46.6	37.4	31.6	24.2	18.7	15.0	12.0	7.7	7.7	6.3	4.7	3.3	2.8	2.0	1.3	0.0	0.0		
	-4.7	-5.1	-7.7	-9.3	-10.8	-12.3	-13.3	-14.5	-15.1	-15.2	-14.7	-13.5	-11.4	-8.4	-4.2	0.0	0.0	134.86	[illegible]
	-1.4	-1.4	-1.0	-0.7	-0.4	0.0	1.0	2.4	4.3	6.7	9.1	9.1	8.7	8.3	7.4	0.0	0.0		
24	47.0	37.8	33.0	25.3	17.8	15.7	12.6	10.2	8.3	6.7	5.2	4.0	3.0	2.2	1.4	-0.8	0.0	112.55	133.17
	-4.7	-6.4	-9.1	-7.7	-11.4	-13.0	-14.4	-15.3	-16.2	-16.5	-16.2	-15.2	-13.3	-10.5	-6.5	-1.3	0.0		
	-1.4	-1.6	-1.1	-1.0	-0.7	-0.1	0.8	2.1	4.0	6.2	8.7	9.6	9.4	8.9	8.0	6.7	0.0		
25	47.4	40.1	34.3	26.3	20.6	16.4	13.2	10.7	8.7	7.0	5.5	4.3	3.2	2.4	1.6	1.0	0.0		
	-5.1	-6.7	-8.4	-10.2	-12.0	-13.7	-15.2	-16.5	-17.4	-17.8	-17.7	-16.7	-15.2	-12.6	-8.8	-3.9	0.0	111.72	116.27
	-1.4	-1.7	-1.2	-1.1	-0.9	-0.3	0.6	1.7	3.7	5.8	8.2	10.1	10.0	9.5	8.7	7.5	0.0		
26	48.5	41.1	35.5	27.3	21.4	17.1	13.8	11.2	9.1	7.4	5.8	4.6	3.5	2.6	1.8	1.2	0.0		
	-4.9	-6.4	-8.1	-9.8	-11.4	-13.0	-14.4	-15.5	-16.3	-16.5	-16.2	-15.2	-13.4	-10.5	-6.6	-1.4	0.0	117.71	117.56
	-1.4	-1.5	-0.6	-0.3	0.1	0.9	2.0	3.6	5.8	8.2	10.8	11.0	11.0	10.7	10.0	8.9	0.0		
	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2			
27	48.7	41.4	35.8	28.4	22.3	17.8	14.3	11.7	9.6	7.7	6.1	4.8	3.7	2.8	2.0	1.3	0.8		
	-5.1	-9.7	-8.4	-10.2	-12.5	-13.7	-15.2	-16.5	-17.4	-17.7	-17.7	-16.9	-15.2	-12.6	-8.9	-3.9	2.5	151.87	150.47
	-1.4	-1.7	-0.9	-0.4	0.0	0.7	1.9	3.4	5.5	7.2	10.4	11.5	11.6	11.3	10.7	9.6	8.1		
	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		

CONCAST FLOOR UNIT --800-- WIDTH: 1200 MM DEPTH: 300 MM

N	3.0M	3.5M	4.0M	4.5M	5.0M	5.5M	6.0M	6.5M	7.0M	7.5M	8.0M	8.5M	9.0M	9.5M	10.0M	10.5M	11.0M	ULT. MOM.	VCO
26	45.1 -5.5 -1.4 2	41.7 -7.1 -1.7 2	36.9 -9.8 -1.5 2	29.4 -10.7 -0.6 2	23.1 -12.6 -0.1 2	18.4 -14.4 0.6 2	14.7 -14.1 1.4 2	12.2 -17.5 3.1 2	10.0 -19.5 5.1 2	8.0 -19.2 7.2 2	6.4 -19.2 9.7 2	5.1 -18.6 12.0 2	4.1 -17.1 13.1 2	3.2 -14.7 11.9 2	2.5 -11.2 11.3 2	1.9 -6.5 10.4 2	0.7 -0.3 8.9 2	159.90	151.26
27	44.6 -5.5 -1.4 2	42.0 -7.3 -2.4 2	36.3 -9.5 -1.5 2	30.4 -11.2 -0.7 2	23.7 -13.2 -0.3 2	17.1 -15.1 0.4 2	13.5 -16.7 1.4 2	12.7 -19.5 2.7 2	10.3 -19.7 4.7 2	8.3 -20.5 6.8 2	6.7 -20.7 9.3 2	5.3 -20.2 12.4 2	4.3 -19.0 12.6 2	3.2 -16.8 12.5 2	2.4 -13.7 12.0 2	1.7 -9.0 11.1 2	1.0 -3.1 9.7 2	164.70	152.74
28	49.1 -5. -1.4 2	42.8 -7.3 -2.4 2	36.6 -9.5 -1.8 2	31.4 -11.6 -0.8 2	24.7 -13.7 -0.4 2	18.8 -15.3 0.2 2	16.0 -17.7 1.2 2	13.1 -17.4 2.6 2	10.7 -20.8 4.6 2	8.6 -21.7 6.8 2	6.7 -22.2 9.3 2	5.3 -21.7 11.7 2	4.3 -20.9 13.1 2	3.4 -18.9 13.0 2	2.6 -15.6 12.5 2	1.8 -11.6 11.9 2	1.1 -5.9 10.5 2	157.37	151.11
29	50.4 -5.3 -1.4 2	42.9 -7.3 -2.4 2	36.7 -9.7 -2.1 2	32.3 -12.1 -0.7 2	25.4 -14.3 -0.6 2	20.4 -16.0 0.0 2	16.0 -18.5 1.0 2	13.6 -19.4 2.4 2	11.0 -21.9 4.7 2	8.7 -23.3 7.2 2	7.2 -23.4 9.2 2	5.8 -21.6 11.3 2	4.6 -20.7 13.6 2	3.6 -18.1 13.4 2	2.7 -14.1 12.3 2	2.0 -9.7 11.2 2	1.3 -4.1 9.3 2	173.84	151.11
30	50.2 -5.1 -1.4 2	43.0 -6.1 -2.1 2	37.1 -10.3 -2.4 2	32.6 -12.6 -1.2 2	26.1 -14.7 -0.8 2	21.0 -17.2 -0.2 2	17.0 -19.4 0.7 2	14.0 -21.4 2.1 2	11.3 -23.0 3.5 2	9.2 -24.3 5.3 2	7.4 -25.1 7.7 2	6.0 -25.2 10.7 2	4.8 -24.6 14.1 2	3.8 -23.0 14.1 2	2.9 -20.4 13.8 2	2.1 -16.6 13.1 2	1.3 -11.4 12.0 2	178.95	155.11
31	51.1 -5.3 -1.4 2	43.3 -9.4 -2.4 2	37.4 -10.5 -2.7 2	33.8 -13.0 -1.6 2	26.9 -15.5 -0.7 2	21.6 -17.7 -0.4 2	17.6 -20.2 0.5 2	14.4 -22.3 1.7 2	11.7 -24.2 3.1 2	9.5 -25.6 4.9 2	7.7 -26.5 7.2 2	6.2 -26.3 10.1 2	5.0 -25.1 13.6 2	3.9 -23.7 14.7 2	3.1 -20.7 14.5 2	2.3 -17.1 13.8 2	1.6 -14.2 12.7 2	182.93	156.11
32	51.1 -6.5 -1.4 2	43.6 -8.7 -2.4 2	37.7 -11.0 -2.7 2	33.1 -13.5 -1.7 2	27.6 -16.2 -1.1 2	22.2 -18.6 -0.6 2	18.0 -21.0 0.3 2	14.7 -23.3 1.4 2	12.0 -25.3 2.7 2	9.8 -26.7 4.4 2	8.0 -27.0 6.7 2	6.3 -26.8 9.3 2	5.2 -25.2 12.7 2	4.1 -23.1 15.2 2	3.2 -20.7 15.2 2	2.4 -17.6 14.5 2	1.8 -14.7 13.3 2	186.64	157.11
33	52.3 -6.3 -1.3 4	44.5 -8.4 -2.3 4	38.5 -10.6 -2.4 4	33.9 -13.0 -1.7 4	28.3 -15.5 -0.1 4	22.7 -17.9 0.6 4	18.5 -20.2 1.6 4	15.2 -22.3 3.1 4	12.4 -24.2 4.8 4	10.2 -25.6 6.8 4	8.3 -26.5 9.4 4	6.8 -26.7 12.6 4	5.5 -26.4 16.1 4	4.4 -25.1 14.4 4	3.4 -22.7 14.3 4	2.6 -19.1 13.9 4	1.9 -14.2 13.0 4	190.74	160.11
34	52.8 -6.3 -1.3 4	44.8 -8.7 -2.3 4	38.7 -11.0 -2.7 4	34.0 -13.5 -1.6 4	28.8 -16.0 -0.1 4	23.2 -18.3 0.3 4	18.7 -21.0 1.3 4	15.6 -23.3 3.2 4	12.8 -25.3 4.9 4	10.4 -26.7 6.8 4	8.5 -27.0 9.2 4	7.0 -26.8 12.5 4	5.7 -26.2 15.8 4	4.5 -25.1 14.7 4	3.6 -22.6 14.5 4	2.8 -19.1 13.9 4	2.1 -14.7 13.1 4	194.16	161.11

CONCAST FLOOR UNIT --800-- WIDTH: 1200 MM DEPTH: 250 MM

N	3.0M	3.5M	4.0M	4.5M	5.0M	5.5M	6.0M	6.5M	7.0M	7.5M	8.0M	8.5M	9.0M	9.5M	10.0M	10.5M	11.0M	ULT. MOM.	VCO
10	22.0 -1.3 -0.8	17.0 -1.7 -1.0	13.7 -2.0 -1.3	10.2 -2.2 -1.7	7.6 -2.3 -0.8	5.7 -2.3 -0.2	4.2 -2.0 0.8	3.1 -1.5 2.3	2.2 -0.6 2.5	1.5 0.7 2.5	0.9 2.5 2.5	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	65.32	147.11
11	30.0 -1.5 -0.8	21.1 -1.9 -1.1	15.4 -2.3 -1.4	11.5 -2.6 -1.5	8.6 -2.8 -1.2	6.6 -2.8 -0.7	5.0 -2.6 0.3	3.7 -2.2 1.7	2.8 -1.4 3.0	2.0 -0.3 3.1	1.3 1.4 3.1	0.0 3.6 2.9	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	71.41	149.03
12	32.9 -1.6 -0.9	23.3 -2.1 -1.2	17.0 -2.5 -1.6	12.8 -2.9 -1.8	9.7 -3.2 -1.6	7.4 -3.3 -1.1	5.7 -3.3 -0.3	4.4 -2.9 1.0	3.3 -2.3 2.9	2.4 -1.2 3.6	1.7 0.3 3.4	1.2 2.3 3.6	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	77.77	150.00
13	37.8 -1.8 -1.0	25.4 -2.3 -1.3	18.7 -2.8 -1.7	14.1 -3.3 -2.1	10.7 -3.6 -2.0	8.3 -3.7 -1.6	6.4 -3.9 -0.8	5.0 -3.7 0.4	3.8 -3.1 2.1	2.9 -2.2 4.1	2.2 -0.8 4.2	1.5 1.1 4.2	1.0 3.6 4.1	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	84.16	151.00
14	38.7 -2.0 -1.1	27.5 -2.5 -1.5	20.3 -3.1 -1.8	15.3 -3.6 -2.3	11.8 -4.1 -2.3	9.2 -4.4 -2.0	7.2 -4.5 -1.3	5.6 -4.4 -0.2	4.4 -4.0 1.4	3.4 -3.2 3.7	2.6 -1.9 4.8	1.9 -0.2 4.9	1.3 2.2 4.8	0.8 5.3 4.7	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	90.36	150.00
15	41.6 -2.1 -1.2	29.6 -2.7 -1.6	21.9 -3.4 -2.0	16.6 -4.0 -2.4	12.8 -4.5 -2.7	10.0 -4.9 -2.4	7.9 -5.1 -1.9	6.2 -5.1 -0.8	4.9 -4.8 0.7	3.8 -4.2 2.8	3.0 -3.0 5.3	2.2 -1.4 5.5	1.6 0.8 5.6	1.1 3.8 5.5	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	96.52	154.00
16	44.4 -2.3 -1.3	31.7 -3.0 -1.7	23.5 -3.7 -2.1	17.9 -4.3 -2.6	13.8 -4.7 -3.0	10.7 -5.4 -2.9	8.6 -5.8 -2.4	6.8 -5.7 -1.5	5.4 -5.7 -0.0	4.3 -5.1 2.0	3.4 -4.1 4.8	2.6 -2.6 6.1	2.0 -0.6 6.3	1.4 2.2 6.3	0.9 5.8 6.1	0.0 0.0 0.0	0.0 0.0 0.0	102.64	155.04
17	47.2 -2.4 -1.3	33.8 -3.2 -1.8	25.1 -3.9 -2.3	19.1 -4.7 -2.8	14.9 -5.4 -3.3	11.7 -6.0 -3.3	9.3 -6.4 -2.9	7.4 -6.6 -2.0	5.9 -6.5 -0.7	4.7 -6.1 1.2	3.8 -5.2 3.9	3.0 -3.9 6.8	2.3 -1.9 7.0	1.7 0.7 7.0	1.2 4.1 7.0	0.8 8.3 6.7	0.0 0.0 0.0	108.72	156.03
18	50.0 -2.6 -1.4	35.9 -3.4 -1.9	26.7 -4.2 -2.4	20.4 -5.0 -3.0	15.9 -5.8 -3.6	12.5 -6.5 -3.7	10.0 -7.0 -3.4	8.0 -7.3 -2.6	6.5 -7.4 -1.4	5.2 -7.0 0.4	4.2 -6.3 2.9	3.3 -5.1 6.3	2.6 -3.3 7.7	2.0 -0.9 7.8	1.5 2.4 7.8	1.0 6.4 7.7	0.0 0.0 0.0	114.76	158.10

CONCAST FLOOR UNIT --000-- WIDTH 1200 MM DEPTH 250 MM

N	3.0M	3.5M	4.0M	4.5M	5.0M	5.5M	6.0M	6.5M	7.0M	7.5M	8.0M	8.5M	9.0M	9.5M	10.0M	10.5M	11.0M	ULT. MOM.	MCB
19	52.8	37.9	28.3	21.6	16.9	13.4	10.7	8.6	7.0	5.6	4.6	3.6	2.9	2.3	1.7	1.2	0.8	120.77	127.35
	-2.7	-3.6	-4.5	-5.4	-6.2	-7.0	-7.6	-8.0	-8.2	-8.0	-7.4	-6.3	-4.7	-2.4	0.7	4.6	9.4		
	-1.5	-2.0	-2.5	-3.1	-3.8	-4.1	-3.8	-3.2	-2.1	-0.4	2.1	5.3	8.4	8.6	8.7	8.6	8.3		
20	53.6	40.0	29.8	22.9	17.9	14.2	11.4	9.2	7.5	6.1	4.9	4.0	3.2	2.5	2.0	1.5	1.0	126.71	130.57
	-2.9	-3.8	-4.7	-5.7	-6.6	-7.5	-8.2	-8.7	-9.0	-9.0	-8.5	-7.6	-6.1	-3.9	-1.0	2.7	7.4		
	-1.4	-2.1	-2.7	-3.3	-4.0	-4.5	-4.3	-3.8	-2.7	-1.1	1.2	4.3	8.3	9.4	9.5	9.5	9.4		
21	58.4	42.8	31.4	24.1	18.9	15.0	12.1	9.8	8.0	6.5	5.3	4.3	3.5	2.8	2.2	1.7	1.2	132.66	101.83
	-3.0	-4.0	-5.0	-6.0	-7.1	-8.0	-8.8	-9.5	-9.8	-9.9	-9.6	-8.8	-7.4	-5.5	-2.7	0.8	5.4		
	-1.6	-2.3	-2.8	-3.5	-4.2	-4.9	-4.8	-4.3	-3.4	-1.9	0.3	3.3	7.2	10.1	10.4	10.5	10.4		
22	60.5	44.0	32.9	25.3	19.9	15.8	12.8	10.4	8.5	7.0	5.7	4.7	3.8	3.1	2.5	1.9	1.4	138.55	101.06
	-3.2	-4.2	-5.3	-6.4	-7.5	-8.5	-9.4	-10.2	-10.7	-10.9	-10.7	-10.0	-8.8	-7.0	-4.4	-1.0	3.3		
	-1.7	-2.1	-1.0	-3.2	-4.4	-5.0	-5.3	-4.9	-4.0	-2.6	-0.5	2.3	6.1	10.9	11.2	11.4	11.4		
23	61.0	46.0	34.4	26.5	20.8	16.6	13.4	11.0	9.0	7.4	6.1	5.0	4.1	3.3	2.7	2.1	1.6	144.39	101.38
	-3.3	-4.4	-5.5	-6.7	-7.9	-9.0	-10.0	-10.7	-11.5	-11.8	-11.7	-11.2	-10.2	-8.5	-6.1	-2.9	1.3		
	-1.7	-2.4	-3.1	-3.8	-4.6	-5.5	-5.7	-5.4	-4.7	-3.4	-1.4	1.4	5.0	9.7	12.1	12.3	12.3		
24	61.4	46.0	36.0	27.7	21.8	17.4	14.1	11.5	9.5	7.8	6.5	5.4	4.4	3.6	2.9	2.4	1.8	150.20	105.49
	-3.5	-4.6	-5.8	-7.1	-8.3	-9.5	-10.6	-11.6	-12.3	-12.7	-12.8	-12.4	-11.5	-10.0	-7.7	-4.7	-0.7		
	-1.7	-2.5	-3.2	-4.0	-4.9	-5.7	-6.2	-6.0	-5.3	-4.1	-2.2	0.4	3.9	8.5	12.9	13.2	13.4		
25	62.6	48.0	37.5	28.9	22.8	18.2	14.8	12.1	10.0	8.3	6.9	5.7	4.7	3.9	3.2	2.6	2.0	156.04	109.88
	-3.3	-4.4	-5.6	-6.7	-7.9	-9.0	-10.1	-10.9	-11.5	-11.8	-11.8	-11.3	-10.2	-8.6	-6.2	-3.0	1.2		
	-1.7	-2.7	-3.5	-4.0	-4.4	-4.5	-4.4	-3.8	-2.8	-1.2	1.1	4.2	8.2	13.3	14.4	14.9	15.2		
	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		
26	63.0	51.9	39.0	30.1	23.7	19.0	15.5	12.7	10.5	8.7	7.2	6.0	5.0	4.2	3.4	2.8	2.2	161.75	120.26
	-3.5	-4.6	-5.8	-7.1	-8.3	-9.6	-10.7	-11.6	-12.4	-12.8	-12.9	-12.5	-11.6	-10.1	-7.8	-4.8	-0.8		
	-1.7	-2.8	-3.6	-4.3	-4.7	-4.9	-4.8	-4.4	-3.4	-1.9	0.3	3.2	7.1	12.1	15.2	15.8	16.2		
	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		
27	63.5	53.9	40.4	31.3	24.7	19.8	16.1	13.2	10.9	9.1	7.6	6.3	5.3	4.4	3.7	3.0	2.4	167.34	121.44
	3.6	-4.8	-6.1	-7.4	-8.8	-10.1	-11.3	-12.3	-13.2	-13.7	-13.9	-13.7	-12.9	-11.6	-9.5	-6.6	-2.9		
	-1.7	2.9	-1.7	-4.6	-5.9	-5.3	-5.3	4.9	-4.1	-2.7	-0.6	2.3	6.0	10.8	16.0	16.6	17.1		
	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		

CONCAST FLOOR UNIT --000-- WIDTH 1200 MM DEPTH 250 MM

N	3.0M	3.5M	4.0M	4.5M	5.0M	5.5M	6.0M	6.5M	7.0M	7.5M	8.0M	8.5M	9.0M	9.5M	10.0M	10.5M	11.0M	ULT. MOM.	MCB
28	63.7	54.3	41.7	32.4	25.6	20.6	16.8	13.8	11.4	9.5	8.0	6.7	5.6	4.7	3.9	3.2	2.6	172.91	132.61
	-3.8	-5.0	-6.4	-7.8	-9.2	-10.6	-11.9	-13.0	-14.0	-14.7	-15.0	-14.9	-14.3	-13.1	-11.2	-8.5	-4.9		
	-1.7	-2.9	-3.8	-4.8	-5.3	-5.7	-5.8	-5.5	-4.7	-3.1	-1.1	1.3	4.9	9.6	15.4	17.5	18.1		
	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		
29	64.3	54.6	43.1	33.5	26.5	21.3	17.4	14.3	11.9	9.9	8.3	7.0	5.9	4.9	4.1	3.4	2.8	178.39	141.77
	-3.9	-5.2	-6.6	-8.1	-9.6	-11.1	-12.5	-13.7	-14.8	-15.6	-16.0	-16.1	-15.6	-14.6	-12.8	-10.3	-6.9		
	-1.7	-2.9	-4.0	-5.0	-5.7	-6.1	-6.2	-6.0	-5.3	-4.1	-2.3	0.4	3.9	8.4	14.1	18.4	19.0		
	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		
30	64.7	55.0	44.8	34.7	27.4	22.1	18.0	14.9	12.4	10.3	8.7	7.3	6.2	5.2	4.3	3.6	3.0	183.28	144.92
	-4.1	-5.4	6.9	-8.4	-10.0	-11.6	-13.1	-14.4	-15.6	-16.5	-17.1	-17.3	-17.0	-16.1	-14.5	-12.1	-8.9		
	-1.7	-2.9	-4.1	-5.1	-5.8	-6.2	-6.2	-6.0	-5.3	-4.1	-2.3	0.4	3.9	8.4	14.1	18.4	19.0		
	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		
31	65.1	55.3	46.1	35.2	28.3	22.8	18.6	15.4	12.8	10.7	9.0	7.6	6.4	5.4	4.6	3.8	0.0	188.94	154.07
	-4.2	-5.6	-7.2	-8.8	-10.4	-12.1	-13.6	-15.1	-16.4	-17.4	-18.2	-18.5	-18.3	-17.5	-16.1	-13.9	0.0		
	-1.7	-2.8	-4.2	-5.1	-6.3	-6.8	-7.1	-7.1	-6.6	-5.6	-4.0	-1.6	1.7	5.9	11.3	18.0	0.0		
	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2			
32	66.3	56.3	47.5	36.8	29.2	23.5	19.2	15.9	13.2	11.1	9.4	7.9	6.7	5.7	4.8	0.0	0.0	194.14	159.42
	-4.1	-5.4	-6.9	-8.4	-10.0	-11.6	-13.1	-14.4	-15.6	-16.6	-17.1	-17.3	-17.0	-16.1	-14.5	0.0	0.0		
	-1.8	-3.0	-4.0	-4.6	-5.1	-5.4	-5.4	-5.1	-4.2	-2.9	-0.8	2.0	5.7	10.5	16.2	0.0	0.0		
	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4				
33	66.6	56.6	48.8	37.9	30.0	24.2	19.8	16.4	13.7	11.5	9.7	8.2	6.9	5.9	4.9	0.0	0.0	199.28	200.59
	-4.2	-5.6	-7.2	-8.8	-10.4	-12.1	-13.7	-15.1	-16.4	-17.5	-18.2	-18.5	-18.3	-17.6	-16.2	0.0	0.0		
	-1.7	-2.9	-4.2	-4.9	-5.4	-5.8	-5.9	-5.6	-4.9	-3.6	-1.7	1.0	4.5	9.0	14.6	0.0	0.0		
	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4				
34	67.0	57.0	49.4	38.9	30.9	24.9	20.4	16.9	14.1	11.7	10.0	8.5	7.2	6.1	5.1	4.3	0.0	204.27	201.70
	-4.4	-5.8	-7.4	-9.1	-10.8	-12.6	-14.3	-15.8	-17.2	-18.4	-19.2	-19.7	-19.7	-19.1	-17.8	-15.8	0.0		
	-1.7	-2.9	-4.5	-5.1	-5.8	-6.2	-6.4	-6.2	-5.6	-4.4	-2.6	-0.1	3.2	7.5	12.9	19.5	0.0		
	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4				
35	67.4	57.3	49.7	39.9	31.7	25.6	21.0	17.4	14.5	12.2	10.3	8.7	7.4	6.3	5.3	4.5	0.0	209.21	202.81
	-4.5	-6.0	-7.7	-9.4	-11.2	-13.1	-14.8	-16.5	-18.0	-19.3	-20.3	-20.9	-21.0	-20.5	-19.5	-17.6	0.0		
	-1.7	-2.9	-4.6	-5.4	-6.1	-6.6	-6.9	-6.8	-6.2	-5.2	-3.6	-1.3	1.9	6.0	11.2	17.7	0.0		
	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4			
36	67.8	57.6	50.0	40.8	32.4	26.2	21.5	17.8	14.9	12.5	10.6	8.9	7.6	6.4	5.5	4.6	0.0	213.62	203.91
	-4.7	-6.2	-7.9	-9.8	-11.7	-13.6	-15.4	-17.2	-18.8	-20.2	-21.3	-22.1	-22.3	-22.0	-21.1	-19.4	0.0		
	-1.7	-2.9	-4.6	-5.7	-6.5	-7.0	-7.4	-7.4	-7.0	-6.1	-4.6	-2.4	0.6	4.5	9.6	15.9	0.0		
	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4			

CONCAST FLOOR UNIT --000-- WIDTH: 1200 MM DEPTH: 250 MM 50 ST select UNPROPPED

N	3.0M	3.5M	4.0M	4.5M	5.0M	5.5M	6.0M	6.5M	7.0M	7.5M	8.0M	8.5M	9.0M	9.5M	10.0M	10.5M	11.0M	ULT. MOM.	VCO
10	12.2	22.5	14.2	11.9	8.8	6.5	4.7	3.4	2.3	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	78.62	167.73
	-1.3	-1.7	-2.0	-2.2	-2.3	-2.3	-2.0	-1.3	-0.6	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	[illegible]	-0.3	-0.2	-0.0	0.4	1.0	1.6	1.7	1.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
11	35.6	25.0	18.1	13.4	10.0	7.5	5.6	4.1	3.0	2.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	86.06	169.06
	-1.5	-1.7	-2.5	-2.6	-2.8	-2.8	-2.6	-2.2	-1.9	-0.3	1.4	0.0	0.0	0.0	0.0	0.0	0.0		
	-0.3	-0.4	-0.4	-0.2	0.2	0.9	1.6	2.0	2.0	2.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0		
12	37.1	27.5	20.1	14.9	11.2	8.5	6.3	4.7	3.4	2.6	1.7	1.0	0.0	0.0	0.0	0.0	0.0	93.43	170.38
	1.5	2.1	-2.3	2.9	-3.2	-3.5	3.1	-2.9	2.3	1.2	0.3	2.4	0.0	0.0	0.0	0.0	0.0		
	-0.5	-0.5	-0.5	-0.3	0.0	0.6	1.4	2.1	2.3	2.4	2.4	2.5	0.0	0.0	0.0	0.0	0.0		
13	41.5	30.0	22.0	16.4	12.5	9.5	7.3	5.6	4.2	3.1	2.2	1.4	0.8	0.0	0.0	0.0	0.0	100.73	171.59
	-1.3	-2.1	-2.9	-3.3	-3.6	-3.7	-3.7	-3.2	-3.1	-2.2	-0.8	1.1	3.6	0.0	0.0	0.0	0.0		
	-0.5	0.6	-0.6	-0.4	-0.1	0.4	1.1	2.2	2.7	2.8	2.8	2.7	2.5	0.0	0.0	0.0	0.0		
14	45.0	32.5	23.7	17.7	13.7	10.5	8.2	6.3	4.8	3.6	2.7	1.9	1.2	0.0	0.0	0.0	0.0	107.75	172.99
	2.0	2.5	-3.1	-3.6	-4.1	-4.1	-4.5	-4.4	-4.0	-3.2	-1.7	-0.2	2.2	0.0	0.0	0.0	0.0		
	-0.6	[illegible]	-0.7	-0.6	-0.3	0.2	0.9	2.0	3.0	3.2	3.2	3.2	1.1	0.0	0.0	0.0	0.0		
15	47.1	34.7	25.7	19.4	14.9	11.5	9.0	7.0	5.4	4.2	3.1	2.3	1.5	0.7	0.0	0.0	0.0	115.09	174.20
	2.1	2.7	-3.1	-4.0	-4.5	4.7	-5.1	-5.1	-4.8	-4.2	-3.9	-1.4	0.8	3.0	0.0	0.0	0.0		
	1.6	[illegible]	-0.8	0.5	-0.5	-0.0	0.7	1.7	5.0	3.5	3.6	3.7	3.6	3.1	0.0	0.0	0.0		
16	52.1	37.1	27.6	20.9	16.1	12.5	9.8	7.7	6.0	4.7	3.6	2.7	1.7	1.2	0.0	0.0	0.0	122.16	175.56
	2.1	1.9	3.2	-1.3	-1.7	-3.4	3.8	-5.7	-5.7	-5.1	-4.1	-3.6	0.6	2.2	0.0	0.0	0.0		
	[illegible]	-1.1	0.7	0.8	0.6	-0.2	0.1	1.4	2.7	3.7	3.0	4.1	4.1	3.7	0.0	0.0	0.0		
17	55.7	39.7	29.4	22.3	17.2	13.5	10.6	8.4	6.6	5.2	4.0	3.1	2.3	1.5	0.0	0.0	0.0	129.15	176.81
	-1.4	1.2	-1.7	-4.7	-5.4	-6.0	-6.4	-6.6	-6.5	-6.1	-5.2	-3.7	-1.9	0.7	0.5	0.0	0.0		
	-0.8	-0.7	-1.0	1.0	-0.8	-0.4	0.2	1.1	2.3	4.1	4.4	4.6	4.6	4.2	0.0	0.0	0.0		
18	57.7	42.1	31.2	23.7	18.4	14.4	11.4	9.1	7.2	5.7	4.5	3.5	2.6	1.7	0.7	0.0	0.0	136.07	178.10
	2.6	3.4	-4.2	-5.0	-5.8	-6.5	-7.0	-7.3	-7.4	-7.0	-6.3	-5.1	-3.3	-0.9	2.1	0.0	0.		
	-0.7	1.0	-1.1	-1.1	-0.7	-0.6	-0.0	0.0	2.1	3.7	4.8	5.0	5.1	4.7	3.8	0.0	0.0		

CONCAST FLOOR UNIT --000-- WIDTH: 1200 MM DEPTH: 250 MM 50 ST SELECT UNPROPPED

N	3.0M	3.5M	4.0M	4.5M	5.0M	5.5M	6.0M	6.5M	7.0M	7.5M	8.0M	8.5M	9.0M	9.5M	10.0M	10.5M	11.0M	ULT. MOM.	VCO
19	58.2	44.5	33.0	25.2	19.5	15.4	12.5	9.0	7.8	6.2	4.9	3.9	3.0	2.0	1.2	0.0	0.0	[illegible]	[illegible]
	2.7	-3.4	-4.5	-5.4	-6.2	-7.0	-7.6	-8.0	-8.2	-8.0	-7.4	-6.3	-4.7	-2.4	-0.7	0.0	0.0		
	1.0	1.1	-1.2	-1.2	-1.1	-0.8	-0.5	0.6	1.7	3.4	5.2	5.5	5.6	5.1	4.3	0.0	0.0		
20	58.4	46.8	34.8	26.5	20.7	16.3	13.0	10.4	8.4	6.7	5.4	4.3	3.3	2.3	1.4	0.0	0.0	147.67	[illegible]
	-2.9	-3.0	4.2	-5.7	-6.6	7.5	-8.2	0.7	-7.0	-9.0	-8.5	-7.6	-6.1	-3.9	-1.0	0.0	0.0		
	-1.0	-1.1	-1.3	-1.3	-1.3	-1.0	0.5	0.3	1.4	3.0	5.0	5.9	6.0	5.6	4.0	0.0	0.0		
21	57.1	49.1	36.5	27.9	21.8	17.2	13.8	11.1	9.0	7.2	5.8	4.7	3.6	2.5	1.7	0.9	0.0	154.37	181.03
	-2.0	-4.0	-5.0	-6.0	-7.1	-8.0	-8.8	-9.5	-9.8	-9.9	-9.6	-8.8	-7.4	-5.5	-2.7	0.8	0.0		
	-1.4	-1.2	-1.4	-1.5	-1.4	-1.2	-0.7	0.0	1.1	2.6	4.6	6.3	6.4	6.0	5.3	4.3	0.0		
22	57.5	59.4	38.5	29.3	22.9	18.2	14.6	11.7	9.5	7.7	6.3	5.0	3.9	2.8	1.9	1.1	0.0	162.75	181.06
	-3.2	-4.2	-5.3	-6.4	[illegible]	-9.5	-7.4	-10.2	-10.7	-10.7	-10.7	-10.0	-8.8	-7.0	-4.4	-1.0	0.0		
	-1.0	-1.4	-1.5	-1.6	-1.6	-1.4	-1.0	-0.3	0.8	2.3	4.2	6.7	6.0	6.4	5.8	4.7	0.0		
23	59.9	50.5	40.0	30.7	24.0	19.1	15.3	12.4	10.1	8.2	6.7	5.4	4.2	3.1	2.1	1.3	0.0	167.63	[illegible]
	-5.3	-4.4	-5.5	-6.7	-7.9	-9.0	-10.0	-10.9	-11.5	-11.8	-11.7	-11.2	-10.2	-8.5	-6.1	-2.9	0.0		
	-1.0	-1.6	-1.6	-1.7	-1.7	-1.6	-1.2	-0.5	0.5	1.7	3.0	4.2	7.2	6.9	6.3	5.4	0.0		
24	60.3	51.1	41.7	32.0	25.1	20.0	16.1	13.1	10.7	8.7	7.1	5.8	4.5	3.3	2.4	1.5	0.8	174.24	[illegible]
	-3.5	-4.6	-5.8	-7.1	-8.3	-9.5	-10.6	-11.6	-12.3	-12.7	-12.8	-12.4	-11.5	-10.0	-7.7	-4.7	-0.7		
	-1.0	-1.6	-1.7	-1.8	-1.9	-1.7	-1.4	-0.8	0.2	1.6	3.4	5.7	7.6	7.3	6.8	5.9	4.8		
25	61.6	52.2	43.4	33.4	26.2	20.9	16.7	13.7	11.2	9.2	7.6	6.1	4.8	3.6	2.6	1.8	1.0	[illegible]	[illegible]
	-3.3	-4.4	-5.6	-6.7	-7.9	-9.0	-10.1	-10.9	-11.5	-11.0	-11.8	-11.3	-10.2	-8.6	-6.2	-3.0	1.2		
	-1.0	-1.5	1.3	-1.2	-1.1	-0.8	-0.3	0.6	1.8	3.4	5.5	8.0	8.3	8.1	7.6	6.9	5.8		
	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		
26	62.0	52.5	45.1	34.7	27.3	21.8	17.6	14.4	11.8	9.7	8.0	6.4	5.0	3.9	2.8	2.0	1.2	187.22	[illegible]
	-3.5	-4.6	-5.8	-7.1	-8.3	-9.6	-10.7	-11.6	-12.4	-12.8	-12.9	-12.5	-11.6	-10.1	-7.8	-4.8	-0.8		
	-1.0	-1.7	-1.3	-1.3	-1.2	-1.0	-0.5	0.3	1.5	3.0	5.1	7.4	8.6	8.5	8.1	7.4	6.4		
	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		
27	62.4	52.9	45.7	36.1	28.4	22.7	18.4	15.0	12.3	10.2	8.4	6.8	5.3	4.1	3.1	2.2	1.4	195.69	191.44
	-3.6	-4.0	-6.1	-7.4	-8.8	-10.1	-11.3	-12.3	-13.2	-13.7	-13.9	-13.7	-12.9	-11.6	-9.5	-6.6	-2.9		
	-1.0	-1.7	-1.5	-1.4	-1.4	-1.2	-0.7	0.1	1.2	2.7	4.7	6.8	9.0	8.9	8.6	7.9	7.0		
	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		

CONCAST FLOOR UNIT --000-- WIDTH: 1200 MM DEPTH: 250 MM

50 ST SCREED
UNTOPPED

H	3.0M	[illegible]	4.0M	4.5M	5.0M	5.5M	6.0M	6.5M	7.0M	7.5M	8.0M	8.5M	9.0M	9.5M	10.0M	10.5M	11.0M	ULT. MOM.	VCO
10	42.8	53.2	46.0	37.4	27.5	23.4	17.1	15.4	12.7	10.6	9.8	7.1	5.6	4.4	3.3	2.4	1.6	202.14	192.61
	1.8	-5.0	-6.4	-7.8	-9.2	-10.6	-11.7	-13.0	-14.0	-14.7	-15.0	-14.7	-14.3	-13.1	-11.2	-8.5	-4.7		
	-1.0	-1.7	-1.8	-1.6	-1.5	-1.3	-0.9	-0.2	0.7	2.3	4.3	6.2	8.5	9.3	9.0	8.4	7.5		
	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		
[illegible]	41.2	53.6	46.3	38.7	30.7	24.5	17.7	16.3	13.4	11.1	7.2	7.4	5.7	4.4	3.5	2.6	1.8	208.54	193.77
	1.7	-5.2	-6.6	8.1	-7.6	-11.1	-12.5	-13.7	-14.8	-15.6	-16.0	-16.1	-15.6	-14.6	-12.8	-10.3	-6.9		
	1.0	-1.7	-2.0	-1.7	-1.7	-1.5	-1.1	-0.4	0.6	2.0	3.7	5.6	7.9	7.7	7.5	9.0	8.1		
	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		
[illegible]	51.6	53.7	46.6	40.0	31.6	25.1	20.6	16.7	14.0	11.6	7.5	7.7	6.2	4.2	3.8	2.8	2.0	214.71	194.92
	4.1	-5.4	-6.7	-8.4	-10.0	-11.6	13.1	-14.4	-15.6	-16.5	-17.1	-17.3	-17.0	-16.1	-14.5	-12.1	-8.9		
	1.0	-1.7	-2.5	-1.0	-1.8	-1.7	1.3	-0.7	0.3	1.7	3.2	5.0	7.2	7.7	9.9	9.3	8.6		
	2	2	2	2	2	2	2	2	2	2	1	2	2	2	2	2	2		
[illegible]	44.9	54.2	16.7	11.2	32.7	26.2	21.3	17.5	13.5	12.1	7.9	8.8	6.4	5.1	4.0	3.0	2.2	221.23	196.07
	1.2	-5.6	-7.2	-8.9	-10.4	12.1	-13.6	-15.1	-16.4	-17.4	-18.2	-18.5	-10.3	-17.5	-16.1	-13.9	-10.8		
	1.1	-1.7	-1.5	-1.7	-1.7	-1.8	-1.5	-0.7	0.0	1.3	2.2	4.4	6.6	9.2	10.4	10.0	9.2		
	2	2	4	2	2	2	2	2	2	4	4	2	2	2	2	2	2		
[illegible]	52.2	55.5	17.8	12.0	33.7	27.1	22.1	18.1	15.0	12.5	10.2	8.3	6.7	5.4	4.2	3.2	2.3	227.50	199.47
	4.1	5.4	-6.7	-9.4	-10.9	11.6	-13.1	-14.4	-15.6	-16.6	-17.1	-17.3	-17.0	-16.1	-14.5	-12.2	-8.9		
	-1.9	1.7	-2.1	-1.1	-1.2	-0.7	0.1	0.4	1.5	3.1	4.2	6.6	9.1	11.3	11.2	10.7	10.2		
	4	4	4	4	4	4	4	4	4	4	4	4	1	4	1	4	4		
[illegible]	43.6	55.6	40.1	12.3	34.9	28.0	22.8	19.8	13.4	12.7	10.6	8.6	7.0	5.6	4.4	3.4	2.5	233.74	200.37
	1.2	-5.6	-7.2	-9.8	10.4	-12.1	-13.7	-13.1	-16.4	-17.5	-19.2	-18.5	-18.3	-12.6	-15.2	-14.0	-10.7		
	1.0	-1.7	-2.1	-1.7	-1.3	-1.1	-0.6	0.1	1.3	2.7	4.2	6.1	8.4	11.1	11.7	11.4	10.7		
	4	4	4	4	4	4	4	4	1	4	4	4	4	4	4	4	1		
[illegible]	56.0	55.7	49.4	12.5	35.8	29.8	23.5	17.4	16.1	13.3	10.7	8.9	7.3	5.8	1.6	5.6	2.7	237.71	201.70
	1.1	3.9	7.4	-7.1	19.8	-12.6	11.5	15.8	-12.2	-18.4	-19.2	-17.7	-19.7	12.1	-17.8	-17.8	-12.9		
	1.2	5.2	2.6	-2.0	1.5	-1.3	-9.8	4.1	1.9	2.2	3.5	5.5	7.4	10.5	12.1	11.8	11.5		
	4	4	1	4	4	4	4	4	4	4	4	4	4	4	4	4	4		
[illegible]	66.4	56.3	19.7	12.3	36.8	27.7	24.2	20.0	16.6	13.7	11.2	7.2	7.5	6.1	4.2	3.0	2.7	246.07	202.81
	1.5	-5.0	7.7	-7.4	-11.2	13.1	-11.8	-16.5	-10.0	-17.3	20.3	-20.7	-21.0	-20.5	-19.5	-17.6	-14.7		
	-1.9	-1.7	-2.7	-3.3	-1.6	-1.4	-1.0	-0.3	0.7	1.8	3.1	4.7	7.1	7.8	12.5	12.3	11.8		
	4	4	1	4	4	4	1	4	4	4	4	4	4	4	4	4	4		
[illegible]	65.8	75.6	49.0	43.0	37.8	30.5	24.9	20.6	17.1	14.0	11.6	7.5	7.8	6.3	5.1	4.0	3.1	252.17	203.71
	4.7	-6.2	-7.9	-9.8	-11.7	-13.6	-17.4	-17.2	-18.8	-20.2	-21.3	-22.1	-22.4	-22.0	-21.1	-17.4	-16.9		
	1.0	1.7	-2.7	-2.6	-1.2	-1.6	-1.2	-0.6	0.3	1.5	2.6	4.3	6.5	7.1	12.3	12.8	12.3		
	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4		

CONCAST FLOOR UNIT --000-- WIDTH: 1200 MM DEPTH: 250 MM

50 ST SCREED
Topped

110

H	3.0M	3.5M	4.0M	4.5M	5.0M	5.5M	6.0M	6.5M	7.0M	7.5M	8.0M	8.5M	9.0M	9.5M	10.0M	10.5M	11.0M	ULT. MOM.	VCO
10	32.2	33.5	16.2	11.9	8.8	6.5	4.7	3.4	2.3	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	78.62	167.73
	-1.1	-1.6	-1.7	-2.1	-2.2	-2.2	-1.7	-1.3	-0.4	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	-0.1	-0.1	-0.2	0.1	0.5	1.2	1.6	1.7	1.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
11	35.6	23.0	18.1	13.0	10.0	7.5	5.6	4.1	3.0	2.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	86.06	169.06
	-1.1	-1.8	-2.2	-2.5	-2.7	-2.7	-2.3	-2.0	-1.2	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0		
	-0.1	-0.1	-0.3	-0.0	0.4	1.0	1.7	2.0	2.1	2.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0		
12	37.1	27.5	29.1	14.7	11.2	9.5	4.5	4.9	3.6	2.6	1.7	1.0	0.0	0.0	0.0	0.0	0.0	93.43	170.38
	-1.4	-2.0	-2.5	-2.8	-1.1	-3.2	-3.1	-2.7	-2.0	-0.7	0.6	2.7	0.0	0.0	0.0	0.0	0.0		
	[illegible]	-0.1	-0.1	-0.2	0.2	0.3	1.6	2.3	2.4	2.5	2.4	2.3	0.0	0.0	0.0	0.0	0.0		
[illegible]	32.5	30.9	22.0	14.4	12.5	7.5	7.3	5.6	4.2	3.1	2.2	1.4	0.8	0.0	0.0	0.0	0.0	100.75	171.67
	-3.2	-3.1	-2.7	-1.2	-3.5	-3.7	-3.1	-3.4	-2.9	-1.9	-0.5	1.5	4.1	0.0	0.0	0.0	0.0		
	[illegible]	-0.5	-0.5	-0.3	0.0	0.6	1.4	2.5	2.7	2.8	2.7	2.8	2.6	0.0	0.0	0.0	0.0		
[illegible]	15.9	32.5	23.7	17.7	13.7	19.5	7.2	6.3	4.8	3.6	2.7	1.7	1.2	0.0	0.0	0.0	0.0	107.75	172.79
	1.7	-2.7	-3.0	-3.5	-3.7	-4.2	-4.3	-4.2	-3.7	-2.7	-1.6	0.3	2.7	0.0	0.0	0.0	0.0		
	.5	-0.6	-0.6	-0.4	-0.1	0.4	1.2	2.3	3.9	3.2	3.5	3.2	3.1	0.0	0.0	0.0	0.0		
15	37.1	34.7	25.7	17.4	14.7	11.5	9.0	7.0	5.4	4.2	3.1	2.3	1.5	0.7	0.0	0.0	0.0	115.07	174.28
	2.1	-2.9	-3.3	-3.9	-4.3	-4.7	-4.7	-4.7	-4.5	-3.8	-2.6	-0.9	1.3	4.3	0.0	0.0	0.0		
	-0.6	-0.7	-3.7	-4.5	-0.3	0.2	0.9	2.0	3.0	3.6	3.7	3.7	3.6	1.4	0.0	0.0	0.0		
[illegible]	72.4	37.4	27.6	23.9	16.1	12.5	9.8	7.7	6.0	4.7	3.5	2.7	1.9	1.3	0.0	0.0	0.0	122.16	175.56
	-3.2	-2.9	-3.5	-4.2	-4.8	-5.2	-5.5	-5.6	-5.3	-4.7	-3.7	-2.2	-0.0	2.8	0.0	0.0	0.0		
	-0.6	-0.7	-0.8	-0.7	-0.4	0.0	0.7	1.7	3.1	3.7	4.1	4.2	4.2	4.0	0.0	0.0	0.0		
17	35.7	37.7	29.4	22.3	17.2	13.5	10.6	8.4	6.5	5.2	4.0	3.1	2.3	1.6	1.0	0.0	0.0	129.15	176.83
	-2.4	-3.1	-3.8	-4.5	-5.2	-5.7	-6.1	-6.3	-6.2	-5.7	-4.8	-3.4	-1.4	1.3	4.8	0.0	0.0		
	-0.7	-0.8	-0.8	-0.8	-0.6	-0.2	0.3	1.5	2.8	4.3	4.5	4.6	4.7	4.6	4.4	0.0	0.0		
19	37.7	42.1	31.2	23.7	18.4	14.4	11.4	9.1	7.2	5.7	4.5	3.5	2.6	1.7	1.3	0.0	0.0	136.07	178.10
	-2.5	-3.5	-4.1	-4.7	-5.6	-6.2	-6.7	-7.0	-7.0	-6.6	-5.8	-4.6	-2.7	-0.2	3.1	0.0	0.0		
	-0.3	-0.7	-0.7	-0.9	-0.7	-0.3	0.3	1.2	2.5	4.2	4.7	5.1	5.2	5.1	4.9	0.0	0.0		

50 ST. SCREED
Propped

CONCAST FLOOR UNIT --200-- WIDTH: 1200 MM DEPTH: 250 MM

W	3.0M	3.5M	4.0M	4.5M	5.0M	5.5M	6.0M	6.5M	7.0M	7.5M	8.0M	8.5M	9.0M	9.5M	10.0M	10.5M	11.0M	ULT. MOM.	VCO
19	53.5 -2.7 [illegible]	44.5 -3.5 [illegible]	35.7 -4.1 -1.[illegible]	[illegible] [illegible] -1.0	17.5 -5.0 -0.7	15.4 -6.7 -0.3	12.2 -7.3 0.1	7.6 -7.7 1.0	7.3 -7.3 2.3	6.0 -7.0 3.5	4.7 -6.7 4.3	3.7 -5.3 5.7	3.0 -4.1 5.[illegible]	2.2 -1.7 5.7	1.5 1.5 5.4	0.8 5.0 4.5	0.4 0.3 0.3	147.31	[illegible]
20	54.6 [illegible] [illegible]	46.6 [illegible] -1.0	31.0 -4.2 -1.1	26.1 -5.7 -1.1	20.7 -6.4 -1.0	16.3 -7.2 -0.[illegible]	13.0 -7.7 [illegible]	10.1 -8.4 0.[illegible]	8.4 -8.6 1.9	6.7 -9.5 3.5	5.4 -8.0 3.7	4.1 -7.0 4.[illegible]	3.3 -5.4 4.2	2.5 -3.2 6.2	1.8 -0.2 5.7	1.0 3.6 5.1	0.0 0.0 0.0	149.[illegible]	[illegible].57
21	57.1 -7.0 -1.2	47.1 -3.7 -1.1	36.6 -4.[illegible] -1.2	27.7 -5.7 -1.7	21.8 -6.3 -1.2	17.2 -7.7 -0.9	13.8 -8.7 [illegible]	11.1 -8.1 0.4	9.0 -7.4 1.5	7.2 -7.4 3.7	5.8 -5.0 5.5	4.[illegible] -3.2 4.4	3.7 -6.7 6.7	2.2 -4.7 5.8	2.0 -1.7 6.4	1.3 1.8 5.[illegible]	0.0 0.0 0.0	154.27	[illegible].97
22	57.5 -3.1 -1.0	50.4 -4.1 -1.2	37.7 -5.1 -1.3	27.3 -6.2 -1.4	22.7 -7.1 -1.3	18.2 -8.2 -1.1	14.6 -9.1 -0.6	11.7 -9.8 0.2	7.2 -10.2 1.3	7.7 -10.3 2.7	6.3 -10.1 4.7	5.0 -9.1 6.3	4.0 -9.1 7.1	3.2 -6.1 7.3	2.2 -3.5 6.7	1.5 -0.0 6.2	0.3 4.4 5.2	157.[illegible]	1[illegible].65
23	57.2 -3.2 -1.0	50.7 -4.3 -1.4	40.2 -5.4 -1.1	30.2 -6.5 -1.2	24.0 -7.7 -1.4	19.1 -8.7 -1.2	15.3 -9.7 -0.8	12.4 -10.5 -0.0	10.1 -11.0 1.3	8.2 -11.3 2.5	6.7 -11.1 4.5	5.4 -10.5 7.1	4.4 -9.4 7.5	3.3 -7.6 7.7	2.5 -5.1 2.4	1.7 -1.8 6.7	1.0 2.4 5.8	165.67	1[illegible].78
24	60.3 -3.4 -1.0	51.1 -4.5 -1.6	41.[illegible] -5.2 -1.5	32.0 -6.7 -1.6	25.1 -8.1 -1.6	20.0 -9.2 -1.4	16.1 -10.3 -1.0	13.1 -11.2 -0.3	10.7 -11.8 0.8	8.7 -12.2 2.2	7.1 -12.3 4.1	5.9 -11.7 6.6	4.7 -10.7 8.1	3.7 -9.8 8.2	2.7 -6.8 7.9	1.7 -3.6 7.3	1.2 0.3 6.4	176.24	1[illegible].47
25	60.7 -3.3 -1.0	51.4 -4.2 -1.2	43.4 -5.9 -1.6	33.4 -7.2 -1.7	26.2 -8.5 -1.7	20.7 -9.7 -1.6	16.7 -10.7 -1.2	13.7 -11.9 -0.5	11.2 -12.6 0.5	9.2 -13.1 1.9	7.6 -13.2 3.8	6.2 -12.7 6.2	5.0 -12.0 8.6	3.9 -10.6 8.6	2.9 -8.4 8.3	2.1 -5.4 7.8	1.4 -1.5 7.0	182.[illegible]	[illegible]
26	61.2 -3.7 -1.0	51.8 -4.7 -1.6	44.8 -6.2 -1.7	34.7 -7.5 -1.0	27.3 -8.7 -1.7	21.8 -10.2 -1.7	17.6 -11.4 -1.4	14.4 -12.5 -0.8	11.8 -13.4 0.2	9.7 -14.0 1.6	8.0 -14.3 3.4	6.6 -14.1 5.8	5.4 -13.3 8.7	4.2 -12.0 9.0	3.2 -10.0 8.8	2.3 -7.2 8.3	1.6 -3.5 7.5	189.77	187.82
27	62.4 -3.6 -1.0 2	52.7 -4.7 -1.7 2	45.7 -5.7 -1.3 2	36.1 -7.2 -1.2 2	29.4 -8.5 -1.1 2	22.7 -9.7 -0.8 2	18.4 -10.9 -0.3 2	15.0 -11.7 0.6 2	12.3 -12.7 1.7 2	10.2 -13.1 3.3 2	8.4 -13.3 5.4 2	6.9 -13.0 8.1 2	5.7 -12.1 9.7 2	4.7 -10.6 9.8 2	3.4 -8.5 9.7 2	2.5 -5.5 9.3 2	1.8 -1.6 8.6 2	195.67	1[illegible]1.44

50 ST. SCREED
Propped

CONCAST FLOOR UNIT --200-- WIDTH: 1200 MM DEPTH: 250 MM

3.0M	3.5M	4.0M	4.5M	5.0M	5.5M	6.0M	6.5M	7.0M	7.5M	8.0M	8.5M	9.0M	9.5M	10.0M	10.5M	11.0M	ULT. MOM.	VCO
52.4 -3.7 -1.0 2	53.2 -4.7 -1.7 2	46.0 -6.2 -1.6 2	37.4 -7.5 -1.3 2	29.5 -9.7 -1.2 2	23.6 -10.2 -1.0 2	17.1 -11.5 -0.3 2	15.4 -12.6 0.3 2	12.7 -13.5 1.5 2	10.6 -14.1 3.0 2	8.8 -14.3 5.1 2	7.3 -14.1 7.7 2	5.9 -13.4 10.1 2	4.7 -12.1 10.2 2	3.4 -10.1 10.1 2	2.7 -7.3 9.3 2	2.0 -3.6 7.1 2	202.14	192.61
55.2 -1.3 1.6 2	53.6 -2.1 -1.7 2	46.3 -5.7 -1.8 2	38.7 -7.9 -1.4 2	30.5 -9.3 -1.4 2	24.5 -10.7 -1.1 2	19.7 -12.1 -0.7 2	16.3 -13.3 0.1 2	13.3 -14.2 1.2 2	11.1 -15.0 2.2 2	9.2 -15.3 4.7 2	7.7 -15.1 7.3 2	6.2 -14.7 9.7 2	4.7 -13.4 10.6 2	3.7 -11.7 10.6 2	2.7 -9.1 10.3 2	2.1 -5.7 9.7 2	208.34	193.77
[illegible] [illegible] [illegible] 2	51.7 -2.3 -1.7 2	[illegible] -6.7 [illegible] 2	[illegible] -8.3 -1.5 2	31.6 -7.7 -1.5 2	27.3 -11.2 -1.3 2	[illegible] -13.4 -0.7 2	18.7 -13.7 -1.1 2	14.0 -13.4 0.9 2	11.[illegible] [illegible] 2.1 2	7.7 -16.4 1.1 2	[illegible] -16.7 5.7 2	[illegible] -16.4 9.3 2	5.2 -15.0 11.0 2	[illegible] -13.3 11.0 2	3.1 -10.4 10.1 2	2.3 -7.3 10.2 2	214.91	194.72
[illegible] [illegible] [illegible] 2	[illegible] [illegible] [illegible] 2	36.7 [illegible] -1.3 2	31.2 -8.5 -1.7 2	32.7 -10.4 -1.6 2	26.2 -11.7 -1.4 2	21.3 -13.2 -2.0 2	17.5 -14.6 -0.4 2	14.5 -15.8 0.7 2	12.1 -16.3 2.1 2	10.1 -17.4 4.0 2	4.3 -17.6 6.2 2	6.7 -17.3 8.7 2	7.3 -16.7 11.4 2	4.4 -17.7 11.7 2	3.3 -17.6 11.3 2	2.2 -7.4 10.8 2	221.23	195.07
[illegible] 1.3 -1.5 2	54.6 -5.7 -1.7 2	47.2 -7.2 -2.0 2	41.2 -8.9 -2.0 2	33.7 -10.5 -1.8 2	27.1 -12.2 -1.6 2	22.1 -13.8 -1.2 2	18.1 -15.3 -0.6 2	15.0 -16.6 0.4 2	12.5 -17.7 1.8 2	10.5 -18.4 3.7 2	8.6 -18.3 5.5 2	7.0 -18.6 8.3 2	5.7 -17.9 11.0 2	4.3 -16.3 11.7 2	3.5 -14.4 11.8 2	2.7 -11.4 11.3 2	227.30	197.21
57.8 2.5 -1.0 2	54.7 -5.7 -1.7 2	47.5 -7.5 -2.6 2	41.7 -9.0 -2.3 2	34.8 -10.7 -1.7 2	29.0 -12.7 -1.9 2	22.8 -14.4 -1.4 2	18.8 -15.0 -0.8 2	15.6 -17.4 0.2 2	13.0 -19.6 1.5 2	10.8 -17.4 3.2 2	8.7 -17.9 5.1 2	7.3 -17.9 7.4 2	5.9 -19.3 10.3 2	4.7 -18.1 12.4 2	3.7 -16.1 12.2 2	2.9 -13.3 11.9 2	233.74	198.34
55.9 -4.3 -1.3 4	55.7 -3.7 -1.7 4	49.4 -7.2 -2.3 4	42.5 -9.7 -1.8 4	35.8 -10.5 -1.1 4	29.8 -12.2 -0.8 4	21.5 -13.8 -0.3 4	17.4 -15.3 0.5 4	16.1 -16.6 1.5 4	13.5 -17.7 3.2 4	11.2 -19.5 5.1 4	7.2 -18.3 7.3 4	7.6 -18.7 9.7 4	6.2 -18.0 13.0 4	[illegible] -16.6 13.2 4	4.0 -14.5 13.2 4	3.1 -11.4 12.3 4	237.73	201.70
56.4 4.4 -1.0 4	56.5 -5.7 -1.7 4	48.7 -7.5 -2.7 4	42.8 -9.2 -2.1 4	36.8 -10.7 -1.3 4	29.[illegible] -12.7 -1.0 4	24.2 -14.4 -0.5 4	20.0 -16.3 0.3 4	16.6 -17.4 1.1 4	13.7 -18.6 2.7 4	11.5 -19.3 4.6 4	9.5 -20.0 6.7 4	7.8 -20.0 9.3 4	6.4 -17.4 12.4 4	5.2 -19.2 13.6 4	1.1 -16.2 13.6 4	3.2 -13.4 13.4 4	246.07	202.81
56.8 -4.6 -1.0 4	56.6 -5.1 -1.7 4	49.0 -7.7 -2.7 4	43.0 -9.5 -2.4 4	37.8 -11.3 -1.4 4	30.5 -13.2 -1.2 4	24.7 -15.0 -0.7 4	20.6 -16.7 0.0 4	17.1 -18.2 1.1 4	14.3 -17.3 2.3 4	11.9 -20.3 4.1 4	9.8 -21.1 6.1 4	8.1 -21.3 8.6 4	6.6 -26.9 11.7 4	5.0 -17.8 14.1 4	4.3 -18.0 14.1 4	3.4 -15.3 13.7 4	252.17	203.91

CONCAST FLOOR UNIT --000-- WIDTH 1200 MM DEPTH 250 MM - WITH 7 MM WIRES

N	7.0M	7.5M	8.0M	8.5M	9.0M	9.5M	10.0M	10.5M	11.0M	11.5M	12.0M	12.5M	13.0M	13.5M	14.0M	14.5M	15.0M	ULT. MOM.	VCO
10	6.2	4.7	3.7	3.0	2.3	1.7	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	115.52	100.08
	-4.4	-3.7	-2.5	-0.7	1.4	4.4	8.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	2.8	3.1	4.4	4.7	4.9	7.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
11	7.1	5.7	4.6	3.6	2.0	2.2	1.6	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	126.24	110.19
	5.6	-5.1	-4.1	2.6	0.6	2.2	5.7	10.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	1.9	4.2	7.3	7.7	8.1	8.3	8.4	8.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
12	8.0	6.5	5.3	4.2	3.4	2.7	2.0	1.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	136.82	120.56
	-6.8	-6.3	-5.7	-4.4	-2.6	-0.1	3.2	7.3	12.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	1.9	3.2	4.1	9.7	9.8	9.6	9.8	9.8	9.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
13	9.7	7.3	5.9	4.8	3.7	3.1	2.5	1.9	1.4	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	147.24	131.11
	-8.0	-7.9	-7.3	-6.2	-4.6	-2.3	0.8	4.6	9.5	15.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	0.1	2.2	3.0	8.4	10.3	10.8	11.1	11.3	11.4	11.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
14	9.7	8.0	6.6	5.4	4.4	3.6	2.9	2.3	1.8	1.3	0.9	0.0	0.0	0.0	0.0	0.0	0.0	157.52	141.14
	-9.2	-9.2	-8.8	-8.0	-6.5	-4.5	-1.7	1.7	6.5	12.1	18.9	0.0	0.0	0.0	0.0	0.0	0.0		
	-0.7	1.2	3.8	7.3	11.4	12.9	13.5	13.8	13.8	13.9	12.2	0.0	0.0	0.0	0.0	0.0	0.0		
15	10.6	8.8	7.3	6.0	5.0	4.1	3.3	2.7	2.1	1.6	1.2	0.8	0.0	0.0	0.0	0.0	0.0	167.44	150.35
	-10.4	-10.6	-10.4	-9.7	-8.5	-6.7	-4.1	-0.7	3.6	8.9	15.4	23.2	0.0	0.0	0.0	0.0	0.0		
	-1.6	0.2	3.7	6.0	10.3	13.2	13.8	14.3	14.6	14.7	14.8	14.2	0.0	0.0	0.0	0.0	0.0		
16	11.5	9.5	7.9	6.6	5.5	4.5	3.7	3.1	2.5	1.9	1.5	1.1	0.0	0.0	0.0	0.0	0.0	177.62	160.33
	-11.6	-12.0	-11.9	-11.3	-10.5	-8.9	-6.5	-3.4	0.7	5.7	11.9	19.5	0.0	0.0	0.0	0.0	0.0		
	-2.4	-0.7	1.6	4.8	8.8	14.0	15.1	15.7	16.2	16.4	16.4	16.1	0.0	0.0	0.0	0.0	0.0		
17	12.3	10.2	8.6	7.2	6.0	5.0	4.2	3.4	2.8	2.2	1.8	1.3	1.0	0.0	0.0	0.0	0.0	187.44	169.29
	-12.8	-13.3	-13.5	-13.2	-12.4	-11.0	-8.9	-6.0	-2.3	2.5	8.5	15.6	24.2	0.0	0.0	0.0	0.0		
	-3.2	-1.7	0.5	3.5	7.4	12.4	14.4	15.1	15.7	16.1	16.3	16.2	17.9	0.0	0.0	0.0	0.0		
18	13.1	11.0	9.2	7.7	6.5	5.4	4.6	3.8	3.1	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	197.11	181.23
	-14.0	-14.7	-15.0	-14.7	-14.4	-13.2	-11.3	-8.7	-5.1	-0.6	0.0	0.0	0.0	29.8	0.0	0.0	0.0		
	-4.0	-2.6	-0.5	2.3	6.1	10.8	14.8	16.5	17.2	17.8	0.0	0.0	0.0	19.6	0.0	0.0	0.0		

CONCAST FLOOR UNIT --000-- WIDTH 1200 MM DEPTH 250 MM - WITH 7 MM WIRES

N	7.0M	7.5M	8.0M	8.5M	9.0M	9.5M	10.0M	10.5M	11.0M	11.5M	12.0M	12.5M	13.0M	13.5M	14.0M	14.5M	15.0M	ULT. MOM.	VCO
19	13.9	11.7	9.8	8.3	7.0	5.9	5.0	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	206.44	184.15
	-15.1	-16.0	-16.5	-16.7	-16.3	-15.3	-13.7	-11.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	-4.8	-3.5	-1.6	1.1	4.7	9.3	15.1	19.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
20	14.8	12.4	10.4	8.8	7.5	6.3	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	216.23	198.05
	-16.3	-17.3	-18.0	-18.4	-18.2	-17.5	-16.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	-5.6	-4.4	-2.6	-0.0	3.4	7.9	13.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	15.5	13.0	11.0	9.3	7.9	6.7	5.7	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	225.27	209.93
	-17.4	-18.2	-19.6	-20.1	-20.1	-19.4	-18.4	-16.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	-4.4	-3.3	-3.4	-1.2	2.0	6.3	11.7	18.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
22	16.2	13.6	11.5	9.8	8.3	7.1	6.0	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	232.47	191.80
	-18.6	-20.0	-21.1	-21.8	-22.0	-21.7	-20.8	-19.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	-7.4	-6.5	-5.0	-2.7	0.3	3.4	7.6	14.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
23	16.6	14.0	11.8	10.1	8.6	7.3	6.3	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	237.93	193.64
	-19.7	-21.3	-22.5	-23.4	-23.9	-23.8	-23.1	-21.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	-8.6	-8.0	-6.7	-4.7	-1.8	2.0	6.9	13.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
24	16.7	14.2	12.1	10.3	8.8	7.5	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	241.05	197.07
	-18.1	-19.4	-20.4	-21.0	-21.2	-20.8	-19.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	-5.0	-3.7	-1.8	0.9	4.4	9.0	14.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	2	2	2	2	2	2	2												
25	17.2	14.5	12.3	10.5	8.9	7.7	6.5	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	244.78	200.65
	-19.2	-20.7	-21.9	-22.7	-23.1	-22.9	-22.1	-20.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	-6.5	-5.5	-3.8	-1.4	1.9	6.2	11.6	18.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	2	2	2	2	2	2	2	2											
26	17.4	14.7	12.5	10.6	9.1	7.8	6.7	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	247.40	202.61
	-20.4	-22.0	-23.4	-24.4	-25.0	-25.0	-24.4	-23.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	-8.2	-7.4	-6.0	-3.7	-0.9	3.1	8.1	14.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	2	2	2	2	2	2	2	2											
27	17.7	15.0	12.7	10.8	9.3	7.9	6.8	5.8	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	251.02	204.36
	-21.5	-23.3	-24.9	-26.1	-26.8	-27.1	-26.7	-25.7	-23.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	-9.6	-9.1	-7.9	-6.1	-3.4	0.3	5.0	11.0	18.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	2	2	2	2	2	2	2	2	2										

CONCAST FLOOR UNIT --000-- WIDTH 1200 MM DEPTH 250 MM - WITH 7 MM WIRES

#	7.0M	7.5M	8.0M	8.5M	9.0M	9.5M	10.0M	10.5M	11.0M	11.5M	12.0M	12.5M	13.0M	13.5M	14.0M	14.5M	15.0M	ULT. MOM.	WGT
20	18.0	15.2	12.9	11.0	9.4	8.1	7.0	6.0	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	254.55	206.07
	-22.6	-24.6	-26.3	-27.7	-28.7	-29.2	-29.0	-28.2	26.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	-11.1	-10.8	-9.8	-8.2	-5.8	-2.4	2.0	7.7	14.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	2	2	2	2	2	2	2	2	2										
19	18.3	15.5	13.2	11.3	9.6	8.3	7.1	6.1	5.2	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	258.81	207.81
	-23.0	-25.7	-27.8	-29.4	-30.6	-31.2	-31.3	-30.7	-29.4	-27.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	-12.5	-12.4	-11.7	-10.4	-8.2	-5.1	-1.0	4.3	11.8	19.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	2	2	2	2	2	2	2	2	2	2									
18	18.6	15.7	13.4	11.4	9.8	8.4	7.2	6.2	5.3	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	261.38	209.52
	-24.7	-27.2	-29.3	-31.0	-32.4	-33.3	-33.6	-33.3	-32.1	-30.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	-13.2	-14.0	-13.6	-12.5	-10.6	-7.8	-4.0	1.0	7.3	15.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	2	2	2	2	2	2	2	2	2	2									
17	19.7	16.0	13.6	11.6	10.0	8.6	7.4	6.3	5.5	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	264.60	211.21
	-26.0	-28.5	-30.7	-32.7	-34.3	-35.4	-35.9	-35.8	-34.7	-33.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	-14.6	-15.6	-15.4	-14.6	-12.9	-10.4	-6.9	-2.2	3.8	11.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	2	2	2	2	2	2	2	2	2	2									
16	19.2	16.2	13.8	11.8	10.1	8.7	7.5	6.5	5.6	4.8	4.1	0.0	0.0	0.0	0.0	0.0	0.0	267.90	213.88
	-27.1	-29.7	-32.2	-34.3	-36.1	-37.4	-38.1	-38.3	-37.6	-36.1	-33.6	0.0	0.0	0.0	0.0	0.0	0.0		
	-14.7	-14.5	-17.2	-16.6	-15.3	-13.0	-9.8	-5.4	0.2	7.3	16.0	0.0	0.0	0.0	0.0	0.0	0.0		
	2	2	2	2	2	2	2	2	2	2	2								
15	17.4	16.4	14.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	271.05	216.84
	-25.5	-27.9	-30.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	-13.1	-13.1	-12.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	4	4	4																
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	274.12	217.84
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	277.12	217.84
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	280.04	217.84
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		

CONCAST FLOOR UNIT --000-- WIDTH 1200 MM DEPTH 250 & 75 MM SCREED

UNBALANCED

#	7.0M	7.5M	8.0M	8.5M	9.0M	9.5M	10.0M	10.5M	11.0M	11.5M	12.0M	12.5M	13.0M	13.5M	14.0M	14.5M	15.0M	ULT. MOM.	WGT
28	12.5	10.2	8.4	6.8	5.5	4.4	3.5	2.7	1.8	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	209.22	176.36
	-9.5	-9.6	-9.2	-8.4	-7.1	-5.0	-2.3	1.3	5.8	11.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	4.0	5.8	6.7	7.2	7.6	7.9	8.1	8.1	7.7	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
29	13.1	10.7	8.8	7.2	5.8	4.7	3.7	2.7	2.1	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	215.60	177.88
	-10.2	-10.3	-10.0	-9.3	-8.1	-6.2	-3.5	-0.1	4.3	9.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	3.9	5.6	7.0	7.5	8.0	8.3	8.5	8.6	8.2	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
30	13.6	11.2	9.2	7.5	6.2	5.0	4.0	3.1	2.3	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	221.70	178.70
	-10.8	-11.0	-10.8	-10.2	-9.1	-7.3	-4.8	-1.5	2.8	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	3.8	5.5	7.3	7.8	8.3	8.7	9.0	9.1	8.8	7.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
31	14.1	11.6	9.6	7.7	6.5	5.3	4.2	3.4	2.5	1.6	0.7	0.0	0.0	0.0	0.0	0.0	0.0	227.91	179.91
	-11.4	-11.7	-11.6	-11.1	-10.1	-8.4	-6.0	-2.8	1.3	6.4	12.7	0.0	0.0	0.0	0.0	0.0	0.0		
	3.6	5.3	7.5	8.1	8.6	9.1	9.4	9.6	9.3	8.4	7.2	0.0	0.0	0.0	0.0	0.0	0.0		
32	14.7	12.1	10.0	8.3	6.8	5.6	4.5	3.6	2.7	1.8	1.1	0.0	0.0	0.0	0.0	0.0	0.0	234.14	186.91
	-12.0	-12.4	-12.4	-12.0	-11.0	-9.5	-7.2	-4.2	-0.2	4.8	10.9	0.0	0.0	0.0	0.0	0.0	0.0		
	3.5	5.2	7.3	8.5	9.0	9.5	9.8	10.1	9.8	9.0	7.8	0.0	0.0	0.0	0.0	0.0	0.0		
33	15.2	12.6	10.4	8.6	7.1	5.8	4.8	3.8	2.9	2.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	240.30	191.91
	-12.6	-13.0	-13.2	-12.9	-12.0	-10.6	-8.5	-5.5	-1.7	3.2	9.1	0.0	0.0	0.0	0.0	0.0	0.0		
	3.4	5.0	7.1	8.8	9.3	9.8	10.2	10.5	10.3	9.6	8.5	0.0	0.0	0.0	0.0	0.0	0.0		
34	15.7	13.0	10.8	9.0	7.4	6.1	5.0	4.1	3.1	2.2	1.4	0.0	0.0	0.0	0.0	0.0	0.0	246.48	192.70
	-13.2	-13.7	-14.0	-13.7	-13.0	-11.7	-9.7	-6.9	-3.2	1.6	7.4	0.0	0.0	0.0	0.0	0.0	0.0		
	3.3	4.9	7.0	9.1	9.7	10.2	10.7	11.0	10.8	10.1	9.1	0.0	0.0	0.0	0.0	0.0	0.0		
35	16.2	13.4	11.2	9.3	7.7	6.4	5.3	4.3	3.3	2.4	1.6	0.7	0.0	0.0	0.0	0.0	0.0	252.18	193.89
	-13.8	-14.4	-14.7	-14.6	-14.0	-12.8	-10.9	-8.2	-4.6	-0.1	5.6	12.6	0.0	0.0	0.0	0.0	0.0		
	3.1	4.7	6.8	9.3	10.0	10.6	11.1	11.4	11.4	10.9	9.9	8.3	0.0	0.0	0.0	0.0	0.0		
36	16.6	13.8	11.5	9.6	8.0	6.6	5.5	4.5	3.5	2.6	1.8	1.1	0.0	0.0	0.0	0.0	0.0	257.49	194.87
	-14.4	-15.1	-15.5	-15.5	-15.0	-13.9	-12.1	-9.6	-6.1	-1.7	3.9	10.7	0.0	0.0	0.0	0.0	0.0		
	2.9	4.5	6.6	9.1	10.3	10.9	11.4	11.8	11.9	11.2	10.3	9.0	0.0	0.0	0.0	0.0	0.0		

CONCAST FLOOR UNIT ---000--- WIDTHS 1200 MM DEPTHS 250 & 75 MM SCREED

ONPROFILE

M	7.0M	7.5M	8.0M	8.5M	9.0M	9.5M	10.0M	10.5M	11.0M	11.5M	12.0M	12.5M	13.0M	13.5M	14.0M	14.5M	15.0M	ULT. MOM.	VCG
19	7.4	5.7	4.4	3.3	2.4	1.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	148.41	167.39
	-4.0	-3.2	-2.6	-0.5	2.1	5.1	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	3.8	3.8	4.0	4.1	4.1	4.1	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
20	8.0	6.3	4.9	3.7	2.7	1.7	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	155.47	169.47
	-4.6	-4.0	-2.8	-1.2	1.1	4.0	7.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	3.8	4.1	4.3	4.5	4.5	4.5	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	8.6	6.8	5.3	4.1	3.1	2.3	1.5	0.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	162.45	167.34
	-5.3	-4.7	-3.6	-2.1	0.0	2.3	6.4	10.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	4.0	4.4	4.6	4.8	4.9	4.7	4.8	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
22	9.2	7.3	5.8	4.5	3.5	2.6	1.8	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	169.36	170.61
	-5.9	-5.4	-4.4	-3.0	-1.0	1.7	5.2	9.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	4.3	4.6	4.9	5.2	5.3	5.4	5.3	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
23	9.7	7.8	6.2	4.7	3.8	2.7	2.1	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	176.17	171.67
	-6.5	-6.1	-5.2	-3.7	-2.0	0.6	3.7	8.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	4.5	4.9	5.3	5.5	5.7	5.8	5.8	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
24	10.3	8.3	6.7	5.3	4.2	3.2	2.4	1.7	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	182.95	172.72
	-7.1	-6.8	-6.0	-4.8	-3.0	-0.6	2.7	6.7	11.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	4.5	5.2	5.6	5.9	6.1	6.2	6.3	6.1	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
25	10.9	8.8	7.1	5.7	4.5	3.5	2.7	1.9	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	189.63	173.76
	-7.7	-7.3	-6.8	-5.7	-4.0	-1.7	1.4	5.4	10.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	4.4	5.4	5.9	6.2	6.5	6.7	6.7	6.6	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
26	11.4	9.3	7.5	6.1	4.8	3.8	2.9	2.2	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	196.23	174.00
	-8.3	-8.2	-7.6	-6.6	-5.0	-2.8	0.2	4.0	8.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	4.3	5.7	6.2	6.5	6.9	7.1	7.2	7.1	6.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
27	12.0	9.8	8.0	6.4	5.2	4.1	3.2	2.4	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	202.77	175.83
	-8.7	-8.7	-8.4	-7.5	-6.0	-3.9	-1.1	2.6	7.3	12.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	4.1	5.9	6.4	6.9	7.2	17.5	7.6	7.7	7.2	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0		

CONCAST FLOOR UNIT ---000--- WIDTHS 1200 MM DEPTHS 300 MM

M	7.0M	7.5M	8.0M	8.5M	9.0M	9.5M	10.0M	10.5M	11.0M	11.5M	12.0M	12.5M	13.0M	13.5M	14.0M	14.5M	15.0M	ULT. MOM.	VCG
10	2.1	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	75.71	198.55
	0.8	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	1.2	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
11	2.7	1.8	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	83.27	199.29
	0.3	1.3	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	1.7	1.8	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
12	3.1	2.3	1.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	90.43	201.82
	-0.2	0.7	2.0	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	2.0	2.1	2.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
13	3.9	2.9	2.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.72	202.24
	-0.2	0.2	1.4	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	2.1	2.4	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
14	4.6	3.1	2.5	1.7	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	105.18	203.45
	-1.2	-0.4	0.7	2.2	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	2.2	2.7	2.8	2.8	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
15	5.2	3.7	2.7	2.1	1.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	112.40	204.66
	-1.7	-1.0	0.1	1.5	3.4	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	2.6	3.0	3.1	3.2	3.2	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
16	5.8	4.3	3.4	2.5	1.8	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	119.59	205.86
	-2.2	-1.5	-0.5	0.8	2.6	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	3.2	3.5	3.5	3.6	3.6	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
17	6.4	5.0	3.9	2.9	2.1	1.5	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	126.73	207.05
	-2.6	-2.1	-1.2	0.1	1.8	4.0	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	1.8	3.3	3.8	4.0	4.0	4.0	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
18	7.0	5.5	4.3	3.3	2.5	1.8	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	133.83	208.24
	-3.1	-2.6	-1.8	-0.6	1.0	3.1	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	1.4	3.1	4.2	4.4	4.5	4.5	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		

CONCAST FLOOR UNIT --000-- WIDTH 1200 MM DEPTH 300 MM

N	7.0M	7.5M	8.0M	8.5M	9.0M	9.5M	10.0M	10.5M	11.0M	11.5M	12.0M	12.5M	13.0M	13.5M	14.0M	14.5M	15.0M	ULT. MOM.	UD
19	7.6	6.1	4.8	3.7	2.9	2.1	1.5	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	140.70	207.42
	-5.4	-3.2	-2.4	-1.3	0.2	2.2	4.8	7.7	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0		
	1.1	2.7	4.5	4.7	4.7	5.0	5.0	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
20	9.2	6.6	7.2	4.1	3.2	2.4	1.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	147.72	210.39
	4.1	-3.7	-3.0	-2.0	-0.6	1.3	3.8	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	0.7	2.2	4.3	5.1	5.3	5.5	5.5	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	8.8	7.1	5.7	3.6	3.6	2.8	2.1	1.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	154.71	211.76
	4.5	4.2	-1.7	-2.7	-1.4	0.5	2.8	5.8	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	0.1	1.8	3.8	5.0	5.8	6.0	6.0	6.0	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
22	9.4	7.6	6.2	5.0	3.7	3.1	2.4	1.7	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	161.86	212.92
	-5.0	-4.8	-4.3	-3.4	-2.2	-0.4	1.8	4.7	8.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	-0.9	1.4	3.3	5.2	6.2	6.6	6.6	6.4	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
23	10.0	8.1	6.6	5.4	4.3	3.4	2.6	2.0	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	168.27	211.07
	5.3	7.3	4.7	-4.1	-2.9	-1.3	0.7	3.6	7.1	11.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	0.4	1.9	3.8	5.1	6.6	6.9	7.1	7.1	7.1	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
24	10.6	8.6	7.1	5.7	4.7	3.7	2.9	2.2	1.7	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	175.44	215.22
	-6.0	-5.2	-5.5	-4.8	-3.7	-2.2	-0.1	2.6	5.7	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	-0.8	0.5	2.4	4.8	7.1	7.4	7.6	7.7	7.7	7.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
25	11.1	9.1	7.5	6.1	5.0	4.0	3.2	2.5	1.9	1.4	0.9	0.0	0.0	0.0	0.0	0.0	0.0	182.47	214.36
	-6.4	-6.4	-6.1	-5.5	-4.5	-3.0	-1.0	1.5	4.8	8.7	13.5	0.0	0.0	0.0	0.0	0.0	0.0		
	-1.1	0.1	1.9	4.2	7.2	7.8	8.1	8.3	8.3	8.2	8.0	0.0	0.0	0.0	0.0	0.0	0.0		
26	11.7	9.6	7.9	6.5	5.4	4.4	3.5	2.8	2.1	1.6	1.1	0.0	0.0	0.0	0.0	0.0	0.0	189.24	217.49
	-6.9	-7.0	-6.7	-6.2	-5.3	-3.9	-2.0	0.5	3.6	7.5	12.1	0.0	0.0	0.0	0.0	0.0	0.0		
	-1.5	-0.1	1.4	3.7	6.6	8.3	8.8	8.9	7.0	8.9	8.7	0.0	0.0	0.0	0.0	0.0	0.0		
27	12.3	10.1	8.4	6.7	5.7	4.7	3.8	3.0	2.4	1.8	1.3	0.8	0.0	0.0	0.0	0.0	0.0	196.01	218.67
	-7.4	-7.5	-7.4	-6.9	-6.0	-4.8	-3.0	-0.6	2.4	6.2	10.7	16.2	0.0	0.0	0.0	0.0	0.0		
	-1.8	-0.7	1.0	3.2	6.0	8.8	9.2	9.4	9.6	9.6	9.5	9.1	0.0	0.0	0.0	0.0	0.0		

CONCAST FLOOR UNIT --000-- WIDTH 1200 MM DEPTH 300 MM

N	7.0M	7.5M	8.0M	8.5M	9.0M	9.5M	10.0M	10.5M	11.0M	11.5M	12.0M	12.5M	13.0M	13.5M	14.0M	14.5M	15.0M	ULT. MOM.	UD
28	12.7	10.6	8.8	7.3	6.0	5.0	4.1	3.3	2.6	2.0	1.5	1.0	0.0	0.0	0.0	0.0	0.0	202.22	219.75
	-7.8	-9.0	-8.0	-7.6	-6.8	-5.6	-3.9	-1.6	1.3	4.9	9.4	14.7	0.0	0.0	0.0	0.0	0.0		
	-2.2	-1.1	-0.5	0.4	3.4	7.0	9.7	10.0	10.2	10.3	10.2	9.9	0.0	0.0	0.0	0.0	0.0		
29	13.4	11.1	9.3	7.7	6.4	5.3	4.3	3.5	2.8	2.2	1.7	1.2	0.8	0.0	0.0	0.0	0.0	209.40	220.87
	-8.3	-8.6	-8.6	-8.3	-7.6	-6.5	-4.9	-2.7	0.1	3.7	8.0	13.2	19.4	0.0	0.0	0.0	0.0		
	-2.5	-1.5	0.0	2.1	4.8	8.3	10.2	10.6	10.8	10.9	10.7	10.7	10.3	0.0	0.0	0.0	0.0		
30	14.0	11.6	9.7	8.1	6.7	5.6	4.6	3.8	3.1	2.4	1.7	1.4	0.7	0.0	0.0	0.0	0.0	216.03	221.58
	-9.8	-9.1	-9.2	-9.0	-8.4	-7.3	-5.8	-3.5	-1.0	2.4	6.4	11.7	17.8	0.0	0.0	0.0	0.0		
	-2.9	-1.9	-0.4	1.6	4.3	7.6	10.7	11.1	11.4	11.6	11.6	11.5	11.2	0.0	0.0	0.0	0.0		
31	14.6	12.1	10.1	8.5	7.1	5.7	4.7	4.0	3.3	2.6	2.1	1.5	1.1	0.0	0.0	0.0	0.0	222.63	223.08
	-9.2	-9.6	-9.8	-9.6	-9.1	-8.2	-6.8	-4.8	-2.2	1.2	5.3	10.3	16.2	0.0	0.0	0.0	0.0		
	-3.2	-2.3	-0.9	1.1	3.7	7.0	11.1	11.7	12.0	12.3	12.5	12.3	12.0	0.0	0.0	0.0	0.0		
32	15.1	12.6	10.6	9.0	7.4	6.2	5.2	4.3	3.5	2.9	2.2	1.7	1.3	0.8	0.0	0.0	0.0	229.19	224.19
	-9.7	-10.2	-10.4	-10.3	-9.9	-9.0	-7.7	-5.8	-3.3	-0.1	3.7	8.8	14.6	21.5	0.0	0.0	0.0		
	-3.6	-2.7	-1.3	0.4	3.1	6.3	10.4	12.2	12.6	12.7	13.1	13.1	12.9	12.5	0.0	0.0	0.0		
33	15.7	13.1	11.0	9.2	7.7	6.5	5.4	4.5	3.7	3.0	2.4	1.9	1.4	1.0	0.0	0.0	0.0	235.71	225.28
	-10.2	-10.7	-11.0	-11.0	-10.7	-9.9	-8.7	-6.7	-4.5	-1.3	2.3	7.3	13.0	19.7	0.0	0.0	0.0		
	-3.7	-3.1	-1.8	0.1	2.5	5.7	9.7	12.8	13.2	13.6	13.8	13.8	13.7	13.3	0.0	0.0	0.0		
34	16.2	13.6	11.4	9.6	8.1	6.8	5.7	4.8	4.0	3.2	2.6	2.1	1.6	1.1	0.8	0.0	0.0	242.18	226.37
	-10.6	-11.2	-11.6	-11.7	-11.4	-10.7	-9.6	-7.9	-5.6	-2.6	1.2	5.8	11.4	18.0	25.8	0.0	0.0		
	-4.2	-3.4	-2.2	-0.4	2.0	5.1	9.0	13.3	13.8	14.2	14.5	14.6	14.5	14.2	13.7	0.0	0.0		
35	16.8	14.1	11.8	10.0	8.4	7.1	6.0	5.0	4.2	3.4	2.8	2.2	1.7	1.3	0.9	0.0	0.0	248.63	227.46
	-11.1	-11.8	-12.2	-12.4	-12.2	-11.6	-10.5	-8.9	-6.7	-3.8	-0.2	4.4	9.8	16.3	23.9	0.0	0.0		
	-4.6	-3.8	-2.6	-0.9	1.4	4.4	8.3	13.0	14.4	14.9	15.2	15.4	15.4	15.1	14.7	0.0	0.0		
36	17.3	14.5	12.2	10.3	8.7	7.4	6.2	5.3	4.4	3.6	3.0	2.4	1.9	1.4	1.0	0.0	0.0	255.03	228.54
	-11.5	-12.3	-12.8	-13.0	-12.9	-12.4	-11.5	-10.0	-7.9	-5.1	-1.5	2.9	8.2	14.6	22.1	0.0	0.0		
	-4.9	-4.2	-3.1	-1.4	0.8	3.8	7.6	12.2	15.0	15.5	15.9	16.1	16.2	16.0	15.6	0.0	0.0		

CONCAST FLOOR UNIT --000-- WIDTH 1200 MM DEPTH 300 MM - MESH 7 MM WIRES

D	7.0M	7.5M	8.0M	8.5M	9.0M	9.5M	10.0M	10.5M	11.0M	11.5M	12.0M	12.5M	13.0M	13.5M	14.0M	14.5M	15.0M	ULT. MOM.	MID
17	18.0	15.1	12.6	10.8	9.2	7.8	6.6	5.6	4.7	3.9	3.2	2.6	2.1	1.6	1.2	0.8	0.0	262.76	229.75
	-12.1	-13.0	-13.6	-13.7	-13.7	-13.5	-13.1	-11.3	-9.3	-6.7	-3.3	1.0	6.2	12.4	19.7	28.2	0.0		
	-5.3	-4.7	-3.7	-2.1	0.1	2.7	4.6	11.2	15.7	14.3	14.8	17.1	17.2	17.1	16.8	16.2	0.0		
20	17.1	16.0	13.6	11.5	9.8	8.3	7.1	6.0	5.1	4.3	3.6	3.0	2.4	1.7	1.3	1.1	0.0	275.30	242.04
	-13.0	-14.0	-14.8	-15.2	-15.4	-15.2	-14.5	-13.3	-11.5	-9.1	-5.9	1.7	3.1	9.0	16.1	24.4	0.0		
	4.0	-5.5	-4.5	-3.1	-1.0	1.7	7.3	7.7	15.0	17.0	10.1	18.5	18.8	18.8	18.6	18.2	0.0		
21	20.1	16.7	14.4	12.2	10.1	9.2	7.6	6.3	5.5	4.7	3.7	3.3	0.0	0.0	0.0	0.0	0.9	287.42	251.12
	-13.7	-15.0	-15.2	-14.6	-14.7	-14.8	-14.3	-13.3	-11.5	-8.5	-4.7	0.0	0.0	0.0	0.0	0.0	22.7		
	-4.4	-4.2	-3.3	-4.0	-2.1	0.5	3.9	8.2	13.4	18.8	17.4	20.0	0.0	0.0	0.0	0.0	19.3		
22	21.1	17.8	15.1	12.7	11.0	9.5	8.1	6.7	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	299.51	260.23
	-12.8	-13.7	-14.4	-14.8	-14.9	-14.7	-14.0	-12.7	-10.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	-3.3	-2.3	-0.9	1.0	3.6	6.2	11.0	16.0	17.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	2	2	2	2	2	2	2	2	2										
23	20.1	18.2	15.7	13.6	11.6	10.0	8.5	7.3	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	311.52	270.21
	-13.7	-14.2	-15.6	-16.1	-16.4	-16.3	-15.8	-14.7	-13.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	-1.7	3.1	-1.8	0.0	2.4	5.5	9.3	14.0	19.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	2	2	2	2	2	2	2	2	2										
24	23.1	19.5	16.6	14.2	12.1	10.4	8.7	7.6	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	323.09	284.23
	-14.5	-15.7	-16.7	-17.5	-17.9	-18.0	-17.6	-16.7	-15.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	-4.6	-3.7	-2.8	-1.2	1.0	3.9	7.5	13.0	17.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	2	2	2	2	2	2	2	2	2										
25	23.7	20.2	17.2	14.7	12.6	10.8	9.3	8.0	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	334.41	294.20
	-15.4	-16.7	-17.9	-18.0	-19.4	-19.6	-19.4	-18.7	-17.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	-7.4	4.7	-3.7	-2.4	-0.4	2.3	5.8	10.1	15.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	2	2	2	2	2	2	2	2	2										
26	24.7	20.9	17.8	15.2	13.1	11.2	9.7	8.4	7.2	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	344.21	298.16
	-16.3	-17.8	-19.0	-20.1	-20.8	-21.2	-21.2	-20.7	-19.6	-17.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	-6.2	-5.8	-5.0	-4.7	-1.8	0.8	4.0	8.2	13.2	19.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	2	2	2	2	2	2	2	2	2	2									
27	25.4	21.6	18.4	15.7	13.5	11.7	10.1	8.7	7.5	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	352.17	306.10
	-17.2	-18.8	-20.7	-21.4	-22.3	-22.8	-23.0	-22.7	-21.8	-20.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	-7.1	-6.8	-6.1	-4.7	-3.2	-0.8	2.3	6.3	11.2	17.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	2	2	2	2	2	2	2	2	2	2									

CONCAST FLOOR UNIT --000-- WIDTH 1200 MM DEPTH 300 MM - MESH 7 MM WIRES

D	7.0M	7.5M	8.0M	8.5M	9.0M	9.5M	10.0M	10.5M	11.0M	11.5M	12.0M	12.5M	13.0M	13.5M	14.0M	14.5M	15.0M	ULT. MOM.	MID
28	23.8	21.2	18.7	16.1	13.7	12.0	10.4	9.0	7.8	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	354.40	312.03
	18.1	-19.8	-21.3	-22.6	-23.7	-24.4	-24.8	-24.6	-23.7	-22.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	0.3	-8.1	-7.5	-6.3	-4.9	-2.6	0.5	4.3	9.1	14.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	2	2	2	2	2	2	2	2	2	2									
29	26.3	22.3	17.1	16.1	14.2	12.3	10.6	9.2	8.0	7.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	360.16	318.24
	-18.9	-20.8	-22.4	-23.9	-25.1	-26.0	-26.5	-26.6	-26.1	-25.0	-23.2	0.0	0.0	0.0	0.0	0.0	0.0		
	-9.3	-9.3	-8.9	-8.0	-6.6	-4.5	-1.7	1.9	6.5	12.2	19.0	0.0	0.0	0.0	0.0	0.0	0.0		
	2	2	2	2	2	2	2	2	2	2	2								
30	26.7	22.7	17.1	16.2	14.4	12.5	10.8	9.4	8.2	7.1	6.2	0.0	0.0	0.0	0.0	0.0	0.0	365.27	324.01
	-17.8	-21.7	-23.6	-25.2	-26.6	-27.6	-28.3	-28.6	-28.4	-27.8	-25.7	0.0	0.0	0.0	0.0	0.0	0.0		
	12.4	-10.5	-10.3	-9.6	-8.1	-5.6	-4.0	-0.6	3.0	9.1	15.6	0.0	0.0	0.0	0.0	0.0	0.0		
	2	2	2	2	2	2	2	2	2	2	2								
31	27.2	23.1	19.8	17.0	14.7	13.2	11.4	9.6	8.3	7.3	6.3	5.5	0.0	0.0	0.0	0.0	0.0	370.39	327.72
	-20.4	-22.7	-24.7	-26.5	-28.0	-29.2	-30.1	-30.5	-30.4	-29.6	-28.3	-26.1	0.0	0.0	0.0	0.0	0.0		
	11.4	-11.7	11.7	11.2	10.1	-8.5	4.1	3.0	1.1	4.2	10.9	17.7	0.0	0.0	0.0	0.0	0.0		
	2	2	2	2	2	2	2	2	2	2	2	2							
32	27.6	23.9	20.1	17.3	15.0	13.0	11.3	9.8	9.6	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	375.46	263.29
	-19.3	-21.4	-23.2	-24.8	-26.1	-27.1	-27.7	-27.7	-27.3	-26.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	-8.8	-8.7	-8.2	-7.3	-5.7	-3.5	-0.6	3.2	7.7	13.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	4	4	4	4	4	4	4	4	4	4									
33	28.0	23.8	20.4	17.6	15.2	13.2	11.5	10.0	8.7	7.6	6.6	0.0	0.0	0.0	0.0	0.0	0.0	380.87	345.12
	-20.4	-22.4	-24.3	-26.0	-27.5	-28.7	-29.5	-29.8	-27.6	-28.9	-27.4	0.0	0.0	0.0	0.0	0.0	0.0		
	-9.7	-10.0	-9.7	-8.7	-7.6	-5.6	-2.7	0.6	7.1	10.6	17.3	0.0	0.0	0.0	0.0	0.0	0.0		
	4	4	4	4	4	4	4	4	4	4	4								
34	28.4	24.1	20.7	17.8	15.4	13.4	11.7	10.2	8.9	7.7	6.7	0.0	0.0	0.0	0.0	0.0	0.0	384.59	344.94
	-21.2	-23.4	-25.4	-27.3	-28.7	-30.3	-31.2	-31.7	-31.8	-31.2	-30.0	0.0	0.0	0.0	0.0	0.0	0.0		
	-11.0	-11.3	-11.1	-10.5	-9.4	-7.7	-5.2	-1.9	2.3	7.6	14.0	0.0	0.0	0.0	0.0	0.0	0.0		
	4	4	4	4	4	4	4	4	4	4	4								
35	28.7	24.3	21.0	18.1	15.7	13.6	11.8	10.3	9.0	7.9	6.9	6.0	0.0	0.0	0.0	0.0	0.0	389.02	348.74
	-22.1	-24.4	-26.6	-28.6	-30.3	-31.8	-33.0	-33.7	-33.9	-33.5	-32.5	-30.7	0.0	0.0	0.0	0.0	0.0		
	-12.1	-12.5	-12.5	-12.1	-11.2	-9.7	-7.4	-4.4	-0.4	4.5	10.7	18.0	0.0	0.0	0.0	0.0	0.0		
	4	4	4	4	4	4	4	4	4	4	4	4							
36	29.1	24.8	21.3	18.3	15.9	13.8	12.0	10.5	9.2	8.0	7.0	6.1	0.0	0.0	0.0	0.0	0.0	393.32	350.54
	-22.9	-25.4	-27.7	-29.8	-31.8	-33.4	-34.7	-35.6	-36.0	-35.8	-35.0	-33.4	0.0	0.0	0.0	0.0	0.0		
	-13.1	-13.7	-13.9	-13.7	-13.0	-11.7	-9.7	-6.9	-3.2	1.5	7.4	14.4	0.0	0.0	0.0	0.0	0.0		
	4	4	4	4	4	4	4	4	4	4	4	4							

CONCAST FLOOR UNIT --000--- WIDTH: 1200 MM DEPTH: 300 & 50 MM SCREED. UNPROFILED

N	7.0M	7.5M	8.0M	8.5M	9.0M	9.5M	10.0M	10.5M	11.0M	11.5M	12.0M	12.5M	13.0M	13.5M	14.0M	14.5M	15.0M	ULT. MOM.	900
19	8.4	6.6	5.1	3.7	2.7	2.1	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	143.75	277.17
	-3.6	-3.2	-2.4	-1.3	0.2	2.2	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	2.4	3.2	3.1	3.5	3.6	3.6	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
20	9.1	7.2	5.7	4.1	3.3	2.4	1.7	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	150.54	290.37
	-4.1	-3.7	-3.0	-2.0	-0.6	1.3	3.3	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	2.2	3.4	3.7	3.8	3.9	3.7	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	9.7	7.8	6.2	4.3	3.7	2.8	2.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	158.33	303.76
	-4.5	-4.2	-3.7	-2.7	-1.4	0.5	2.8	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	2.0	3.4	3.9	4.1	4.2	4.3	4.2	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
22	10.4	8.3	6.7	5.3	4.1	3.1	2.3	1.6	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	165.93	312.22
	-5.0	-4.3	-4.3	-3.1	-2.2	-0.1	1.3	4.2	8.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	1.8	3.1	4.2	4.4	4.6	4.6	4.4	4.3	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
23	11.0	8.9	7.2	5.7	4.5	3.5	2.6	1.7	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	173.45	311.37
	-5.5	-5.3	-4.7	-4.1	-2.9	-1.3	0.7	3.6	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	1.6	2.9	4.4	4.7	4.9	5.0	5.0	5.0	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
24	11.7	9.5	7.7	6.2	4.7	3.8	2.7	2.2	1.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	201.31	310.22
	-6.0	-5.7	-5.5	-4.8	-3.7	-2.2	-0.1	2.6	5.9	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	1.4	2.7	4.3	5.0	5.2	5.4	5.4	5.4	5.2	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
25	12.3	10.0	8.1	6.6	5.3	4.2	3.3	2.4	1.7	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	208.87	314.34
	-6.4	-6.4	-6.1	-5.5	-4.8	-3.0	-1.0	1.5	4.8	8.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	1.2	2.4	4.0	5.3	5.5	5.7	5.8	5.8	5.7	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
26	12.7	10.6	8.6	7.0	5.7	4.5	3.6	2.7	2.0	1.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	216.37	315.17
	-6.9	-7.0	-6.7	-6.2	-5.3	-3.9	-2.0	0.5	3.6	7.5	12.1	0.0	0.0	0.0	0.0	0.0	0.0		
	-1.0	-2.2	3.8	5.6	5.9	6.1	6.2	6.3	6.2	6.0	5.6	0.0	0.0	0.0	0.0	0.0	0.0		
27	13.6	11.1	9.1	7.5	6.1	4.9	3.7	3.0	2.3	1.6	1.0	0.0	0.0	0.0	0.0	0.0	0.0	223.90	318.62
	-7.4	-7.3	-7.4	-6.9	-6.0	-4.8	-3.0	-0.6	2.4	6.2	10.7	0.0	0.0	0.0	0.0	0.0	0.0		
	-0.8	2.0	3.5	5.5	6.2	6.4	6.6	6.7	6.7	6.5	6.2	0.0	0.0	0.0	0.0	0.0	0.0		

CONCAST FLOOR UNIT --000--- WIDTH: 1200 MM DEPTH: 300 & 50 MM SCREED UNPROFILED

N	7.0M	7.5M	8.0M	8.5M	9.0M	9.5M	10.0M	10.5M	11.0M	11.5M	12.0M	12.5M	13.0M	13.5M	14.0M	14.5M	15.0M	ULT. MOM.	900
28	14.2	11.7	9.6	7.9	6.5	5.2	4.2	3.3	2.5	1.8	1.2	0.0	0.0	0.0	0.0	0.0	0.0	231.46	307.72
	-7.8	-8.0	-8.0	-7.6	-6.8	-5.4	-3.7	-1.6	1.3	4.7	9.4	0.0	0.0	0.0	0.0	0.0	0.0		
	0.6	1.8	3.3	5.2	6.5	6.9	7.0	7.1	7.2	7.0	6.8	0.0	0.0	0.0	0.0	0.0	0.0		
29	14.9	12.2	10.1	8.3	6.8	5.6	4.5	3.6	2.8	2.1	1.5	0.7	0.0	0.0	0.0	0.0	0.0	238.85	309.37
	-8.3	-8.6	-8.6	-8.3	-7.6	-6.5	-4.7	-2.7	-0.1	3.7	8.0	13.2	0.0	0.0	0.0	0.0	0.0		
	0.5	1.6	3.0	4.9	6.3	7.1	7.4	7.6	7.6	7.5	7.3	6.7	0.0	0.0	0.0	0.0	0.0		
30	15.5	12.8	10.6	9.3	7.2	5.9	4.8	3.9	3.0	2.3	1.7	1.1	0.0	0.0	0.0	0.0	0.0	246.26	311.23
	-8.8	-9.1	-9.2	-9.0	-8.4	-7.3	-5.8	-3.7	-1.0	2.4	6.6	11.7	0.0	0.0	0.0	0.0	0.0		
	0.3	1.3	2.8	4.6	7.0	7.5	7.9	8.0	8.1	8.1	7.7	7.5	0.0	0.0	0.0	0.0	0.0		
31	16.1	13.5	11.1	9.2	7.8	6.3	5.1	4.1	3.3	2.5	1.7	1.0	0.3	0.0	0.0	0.0	0.0	253.63	311.05
	-9.2	-9.6	-9.8	-9.5	-9.1	-8.2	-6.8	-4.9	-2.2	1.2	5.3	10.3	16.2	0.0	0.0	0.0	0.0		
	0.1	1.1	2.5	4.3	6.7	7.7	8.2	8.4	8.3	8.3	8.1	8.1	7.7	0.0	0.0	0.0	0.0		
32	16.7	13.9	11.5	9.6	8.0	6.6	5.4	4.4	3.5	2.3	2.1	1.5	1.0	0.0	0.0	0.0	0.0	260.96	324.19
	-9.7	-10.2	-10.4	-10.3	-9.7	-9.0	-7.7	-5.8	-3.3	-0.1	3.7	8.3	14.6	0.0	0.0	0.0	0.0		
	-0.1	0.7	2.3	4.1	6.3	8.2	8.3	8.7	9.0	9.1	9.0	8.7	8.3	0.0	0.0	0.0	0.0		
33	17.4	14.4	12.0	10.0	8.3	6.7	5.7	4.7	3.8	3.0	2.3	1.7	1.2	0.0	0.0	0.0	0.0	268.24	327.23
	-10.2	-10.7	-11.0	-11.0	-10.7	-9.9	-8.7	-6.9	-4.5	-1.3	2.8	7.3	13.0	0.0	0.0	0.0	0.0		
	-0.3	0.7	2.1	3.8	6.0	8.3	9.0	9.3	9.5	9.6	9.5	9.3	9.0	0.0	0.0	0.0	0.0		
34	18.0	15.0	12.5	10.4	8.7	7.3	6.0	5.0	4.0	3.2	2.5	1.9	1.3	0.8	0.0	0.0	0.0	275.48	326.37
	-10.6	-11.2	-11.6	-11.7	-11.4	-10.7	-9.4	-7.7	-5.6	-2.6	1.2	5.8	11.4	18.0	0.0	0.0	0.0		
	-0.4	0.5	1.8	3.5	5.7	8.3	9.3	9.7	9.9	10.1	10.1	9.9	9.6	8.9	0.0	0.0	0.0		
35	18.6	15.3	13.0	10.8	9.1	7.6	6.3	5.2	4.3	3.5	2.7	2.1	1.5	1.0	0.0	0.0	0.0	282.68	327.46
	-11.1	-11.8	-12.2	-12.4	-12.2	-11.6	-10.3	-8.9	-6.7	-3.8	-0.2	4.4	9.8	16.3	0.0	0.0	0.0		
	-0.6	0.3	1.6	3.3	5.4	8.1	9.7	10.1	10.4	10.6	10.6	10.5	10.2	9.5	0.0	0.0	0.0		
36	19.2	16.0	13.4	11.3	9.5	7.9	6.6	5.5	4.5	3.7	2.9	2.3	1.7	1.1	0.0	0.0	0.0	289.83	328.54
	-11.5	-12.3	-12.8	-13.0	-12.9	-12.4	-11.5	-10.0	-7.9	-5.1	-1.5	2.9	8.2	14.6	0.0	0.0	0.0		
	-0.8	0.1	1.3	3.0	5.1	7.8	10.1	10.5	10.9	11.1	11.2	11.1	10.9	10.1	0.0	0.0	0.0		

CONCAST FLOOR UNIT --000-- WIDTH: 1200 MM DEPTH: 300 + 75 MM SCREED

UNPROFILED

N	7.0M	7.5M	8.0M	8.5M	9.0M	9.5M	10.0M	10.5M	11.0M	11.5M	12.0M	12.5M	13.0M	13.5M	14.0M	14.5M	15.0M	ULT. MOM.	VCD
19	9.1	7.1	5.6	4.2	3.1	2.2	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	177.07	209.42
	-3.6	-3.2	-2.4	-1.3	0.2	2.2	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	2.7	2.7	3.1	3.2	3.3	3.2	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
20	9.8	7.8	6.1	4.7	3.6	2.6	1.8	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	185.65	210.59
	-4.1	-3.7	-3.0	-2.0	-0.6	1.3	3.8	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	2.8	3.2	3.4	3.5	3.6	3.6	3.5	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
21	10.5	8.4	6.7	5.2	4.0	3.0	2.1	1.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	194.15	211.76
	-4.5	-4.2	-3.7	-2.7	-1.4	0.5	2.8	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	2.4	3.4	3.6	3.8	3.9	3.9	3.7	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
22	11.2	9.0	7.2	5.7	4.4	3.4	2.3	1.7	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	202.58	212.12
	-5.0	-4.8	-4.3	-3.4	-2.2	-0.4	1.8	4.7	8.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	2.5	3.6	3.8	4.0	4.2	4.3	4.2	4.1	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
23	12.0	9.6	7.8	6.2	4.9	3.8	2.8	2.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	210.70	214.07
	-5.5	-5.1	-4.7	-4.1	-2.9	-1.3	0.7	3.6	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	2.4	3.6	4.1	4.3	4.5	4.6	4.6	4.5	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
24	12.2	10.3	8.3	6.7	5.3	4.1	3.2	2.3	1.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	219.11	215.22
	-6.0	-5.7	-5.5	-4.8	-3.7	-2.2	-0.1	2.6	5.9	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	2.2	3.4	4.3	4.6	4.8	4.9	5.0	4.9	4.8	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
25	13.4	10.9	8.8	7.1	5.7	4.5	3.5	2.6	1.9	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	227.36	216.34
	-6.4	-6.4	-6.1	-5.5	-4.5	-3.0	-1.0	1.5	4.3	8.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	2.1	3.3	4.5	4.8	5.1	5.2	5.3	5.3	5.2	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
26	14.0	11.5	9.4	7.6	6.1	4.9	3.8	2.9	2.1	1.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	235.47	217.49
	-6.9	-7.0	-6.7	-6.2	-5.3	-3.9	-2.0	0.5	3.6	7.5	12.1	0.0	0.0	0.0	0.0	0.0	0.0		
	2.0	3.1	4.6	5.1	5.4	5.6	5.7	5.7	5.6	5.4	5.1	0.0	0.0	0.0	0.0	0.0	0.0		
27	14.7	12.1	9.9	8.1	6.5	5.3	4.2	3.2	2.4	1.7	1.1	0.0	0.0	0.0	0.0	0.0	0.0	243.51	218.62
	-7.4	-7.5	-7.4	-6.9	-6.0	-4.8	-3.0	-0.6	2.4	6.2	10.7	0.0	0.0	0.0	0.0	0.0	0.0		
	1.8	3.0	4.5	5.4	5.7	5.9	6.1	6.1	6.1	5.9	5.6	0.0	0.0	0.0	0.0	0.0	0.0		

CONCAST FLOOR UNIT --000-- WIDTH: 1200 MM DEPTH: 300 + 75 MM SCREED

UNPROFILED

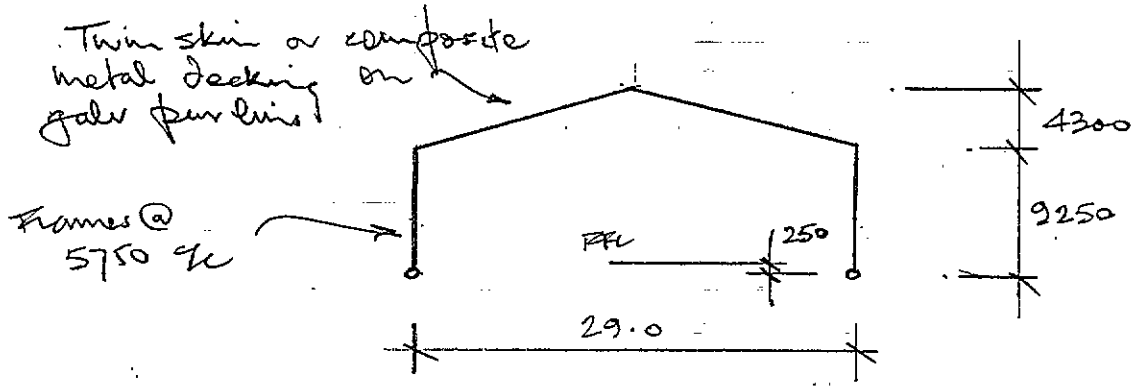
N	7.0M	7.5M	8.0M	8.5M	9.0M	9.5M	10.0M	10.5M	11.0M	11.5M	12.0M	12.5M	13.0M	13.5M	14.0M	14.5M	15.0M	ULT. MOM.	VCD
28	15.4	12.7	10.4	8.5	7.0	5.6	4.5	3.5	2.7	1.7	1.3	0.0	0.0	0.0	0.0	0.0	0.0	251.48	217.75
	-7.8	-8.0	-8.0	-7.5	-6.3	-5.6	-3.7	-1.6	1.3	4.7	9.4	0.0	0.0	0.0	0.0	0.0	0.0		
	1.7	2.8	4.3	5.6	5.9	6.2	6.4	6.5	6.5	6.4	6.1	0.0	0.0	0.0	0.0	0.0	0.0		
29	16.1	13.2	10.9	9.0	7.4	6.0	4.8	3.8	3.0	2.2	1.5	0.7	0.0	0.0	0.0	0.0	0.0	257.37	219.37
	-8.3	-8.6	-8.5	-8.3	-7.6	-6.5	-4.7	-2.7	0.1	3.7	8.0	13.2	0.0	0.0	0.0	0.0	0.0		
	1.4	2.7	4.1	5.7	6.2	6.5	6.8	6.9	6.9	6.8	6.6	6.1	0.0	0.0	0.0	0.0	0.0		
30	16.7	13.8	11.4	9.4	7.8	6.4	5.2	4.1	3.2	2.1	1.8	1.1	0.0	0.0	0.0	0.0	0.0	267.18	221.76
	-8.8	-9.1	-9.2	-9.0	-8.4	-7.3	-5.9	-3.7	-1.0	2.4	6.6	11.7	0.0	0.0	0.0	0.0	0.0		
	1.4	2.5	3.9	5.7	6.3	6.8	7.1	7.3	7.3	7.3	7.1	6.6	0.0	0.0	0.0	0.0	0.0		
31	17.4	14.4	11.9	9.9	8.2	6.7	5.5	4.4	3.5	2.7	2.0	1.3	0.0	0.0	0.0	0.0	0.0	274.67	223.08
	-9.2	-9.6	-9.8	-9.6	-9.1	-8.2	-6.8	-4.8	-2.2	1.2	5.3	10.3	0.0	0.0	0.0	0.0	0.0		
	1.3	2.3	3.7	5.5	6.8	7.1	7.4	7.6	7.7	7.7	7.6	7.1	0.0	0.0	0.0	0.0	0.0		
32	18.0	14.9	12.4	10.3	8.6	7.1	5.8	4.7	3.7	2.7	2.2	1.5	0.8	0.0	0.0	0.0	0.0	282.44	224.17
	-9.7	-10.2	-10.4	-10.3	-9.7	-9.0	-7.7	-5.8	-3.3	-0.1	3.7	8.8	14.6	0.0	0.0	0.0	0.0		
	1.1	2.2	3.6	5.3	7.1	7.5	7.8	8.0	8.1	8.3	8.1	7.6	6.5	0.0	0.0	0.0	0.0		
33	18.7	15.5	12.7	10.8	8.7	7.4	6.1	5.0	4.0	3.2	2.4	1.7	1.0	0.0	0.0	0.0	0.0	290.10	225.28
	-10.2	-10.7	-11.0	-11.0	-10.7	-9.9	-8.7	-6.9	-4.5	-1.3	2.5	7.3	13.0	0.0	0.0	0.0	0.0		
	1.0	2.0	3.4	5.1	7.3	7.8	8.1	8.4	8.6	8.6	8.5	8.1	7.1	0.0	0.0	0.0	0.0		
34	19.3	16.1	13.4	11.2	9.3	7.8	6.4	5.3	4.3	3.4	2.6	1.9	1.1	0.0	0.0	0.0	0.0	297.80	226.32
	-10.6	-11.2	-11.6	-11.7	-11.4	-10.7	-9.6	-7.7	-5.6	-2.6	1.2	5.8	11.4	0.0	0.0	0.0	0.0		
	0.9	1.9	3.2	4.9	7.0	8.1	8.5	8.8	9.0	9.1	9.0	8.7	7.6	0.0	0.0	0.0	0.0		
35	20.0	16.6	13.7	11.5	9.7	8.1	6.8	5.6	4.5	3.6	2.8	2.1	1.3	0.0	0.0	0.0	0.0	305.46	227.48
	-11.1	-11.8	-12.2	-12.4	-12.2	-11.6	-10.5	-8.9	-6.7	-3.8	-0.2	4.4	9.8	0.0	0.0	0.0	0.0		
	0.8	1.7	3.1	4.7	6.8	8.4	8.8	9.1	9.4	9.5	9.5	9.2	8.2	0.0	0.0	0.0	0.0		
36	20.6	17.2	14.4	12.1	10.1	8.5	7.1	5.9	4.8	3.9	3.1	2.3	1.5	0.8	0.0	0.0	0.0	313.05	228.54
	-11.5	-12.3	-12.8	-13.0	-12.9	-12.4	-11.5	-10.0	-7.9	-5.1	-1.5	2.9	8.2	14.6	0.0	0.0	0.0		
	0.6	1.6	2.9	4.5	6.6	8.7	9.1	9.5	9.8	10.0	10.0	9.7	8.7	7.5	0.0	0.0	0.0		

3,000
10,000

①.

Smurfit Corrugated
Walkinstown

Store No 1 Steelwork



Load
Snow 0.75 × 1.6 = 1.2

Cladding, Purlins, Steel } 0.35 × 1.4 = 0.49
1.69 kN/m (Factored load)

Load on frame 1.69 × 5.75 = 9.717 kN/m

Design using Institution Structural Engineers "Manual for Design of Steelwork Building Structures"

L/h = 29 / 9.25 = 3.13

r/L = 4.3 / 29 = 0.148

wL^2 = 9.72 × 29^2 = 8174.52

Horizontal reaction factor = 0.21.

Ha = 0.205 × 9.72 × 29 = 57.78 kN.

Mp ratio for rafter = 0.031

Mpr = 0.031 × 8174.52 = 253.41 kN.m.

M/p ratio for stanchion 0.059

$M_{fs} = 0.059 \times 8174.52 = 482.29$ kN.m.

Plastic Modulus required

Rafter - $\frac{253.41 \times 10^6}{275 \times 10^3} = 921.5\ cm^3$ - Try 533×210×82

Stanchion = $\frac{482.29 \times 10^6}{275 \times 10^3} = 1753.8\ cm^3$

Try 610×229×101.

Sway Stability

Inertia 610×229×101 = 75720 cm^4

— " — 533×210×82 = 47491 cm^4

$$Q = \frac{2 \times 75720}{47491} \times \frac{29}{9.25} = 9.99$$

$L_s = 29 - 2.9 = 26.1$ m

$$L_r = 2\sqrt{4.3^2 + 14.5^2} = 30.24\ m$$

$W_r = 29 \times 9.717 = 281.8$ kN.

$$W_c = \frac{16 \times 2056 \times 10^3 \times 275}{29 \times 10^3 \times 10^3} = 311.94$$

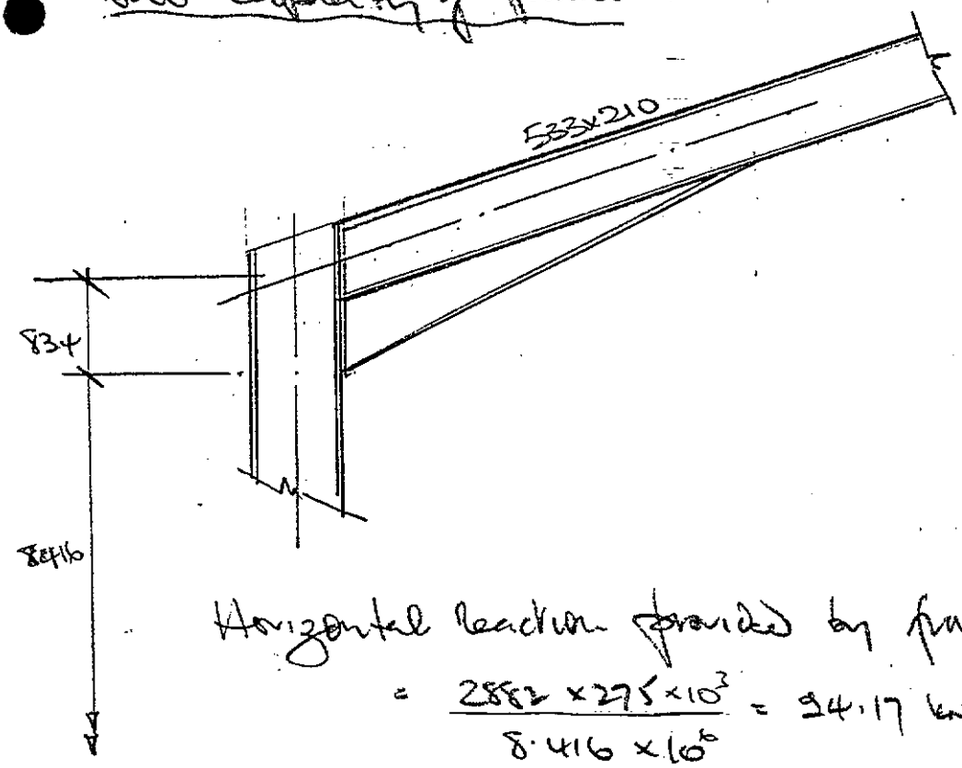
$$S = \frac{281.8}{311.94} = 0.9$$

$$\frac{44}{0.9} \times \frac{29}{9.25} \times \frac{9.99}{\left(4 + \frac{9.99 \times 30.24}{29}\right)} \times \frac{275}{275} = 106.26$$

$$\frac{L_B}{D} = \frac{26.1 \times 10^3}{528} = 49.43 < 106.26$$

Sway satisfactory.

load capacity of frame

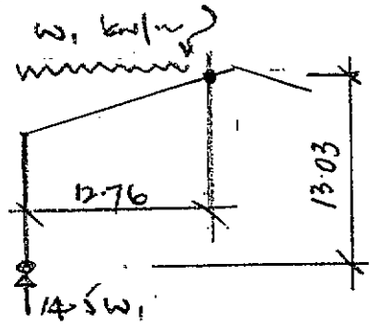


Horizontal reaction provided by frame

$$= \frac{2552 \times 275 \times 10^3}{8.416 \times 10^6} = 94.17 \text{ kN}$$

location of rafter hinge

$0.44 \times 29 = 12.76$ m



$$M_p \text{ rafter} = \frac{2056 \times 10^3 \times 275}{10^6} = 565.4 \text{ kN.m.}$$

$$14.5w_1 - 94.17 \times 13.03 - \frac{12.76^2 w_1}{2} = 565.4$$

$$w_1 = 26.79 \text{ kN/m} > 9.717 \text{ kN/m}$$

Plastic hinge restraint.

Rafter $\quad f_c = \frac{59.19 \times 10^3}{104.4 \times 10^2} = 5.67 \text{ N/mm}^2$

$$L_m = \frac{38 \times 4.38 \times 10}{\sqrt{\frac{5.67}{130} + 1 \times \left(\frac{41.6}{36}\right)^2}} = 1417 \text{ mm}$$

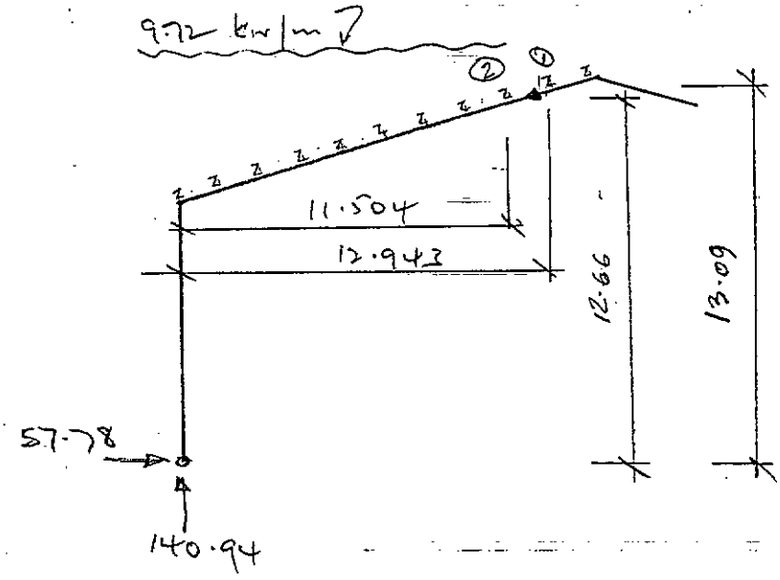
Stanchion $f_c = \frac{9.717 \times 14.5 \times 10^3}{129 \times 10^2} \times 10.92 \text{ N/mm}^2$

$$l_m = \frac{38 \times 4.75 \times 10}{\sqrt{\frac{10.92}{130} + 1 \times \left(\frac{43}{36}\right)^2}} = 1469$$

Rafter Design

Purlins assumed at 1500 c/c

$$l_e/r = \frac{1500}{4.38 \times 10} = 34.24$$



$M_① = 140.94 \times 12.943 - 57.78 \times 13.09 - 9.72 \times \frac{12.943^2}{2} = 253.69$

$M_② = 140.94 \times 11.504 - 57.78 \times 12.66 - 9.72 \times \frac{11.504^2}{2} = 246.7 \text{ kN.m}$

$\beta = \frac{246.7}{253.69} = 0.97 \qquad m = 0.98$

$M_m = 0.98 \times 253.69 = 248.61 \text{ kN.m}$

$\lambda = 38.24 \quad p_b = 272$

$M_b = \frac{272 \times 2060 \times 10^3}{1000} = 560.32 > 248.61$

Stanchion -

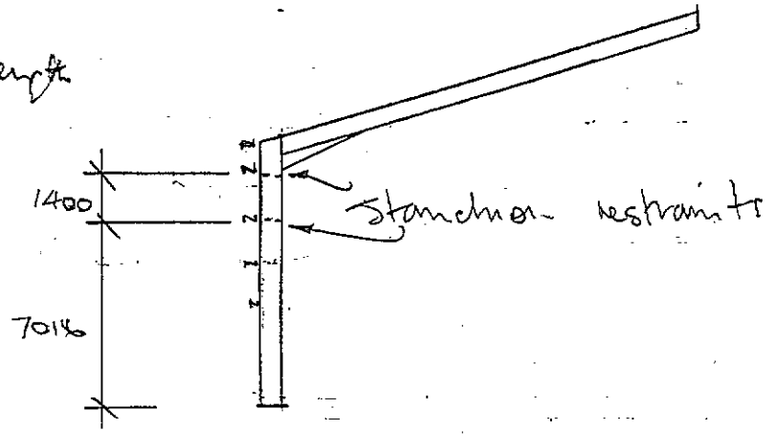
$l/r_y = \frac{1500}{4.75 \times 10} = 31.57$

$l/r_x = \frac{9250}{24.2 \times 10} = 38.2$ $\quad p_c = 250$ N/mm²

l/r_y for lower length

$= \frac{7016}{4.75 \times 10} = 147$

$p_c = 76$ N/mm²



Moment at lower restraint = $57.78 \times 7.016 = 405.38$ kN.m.

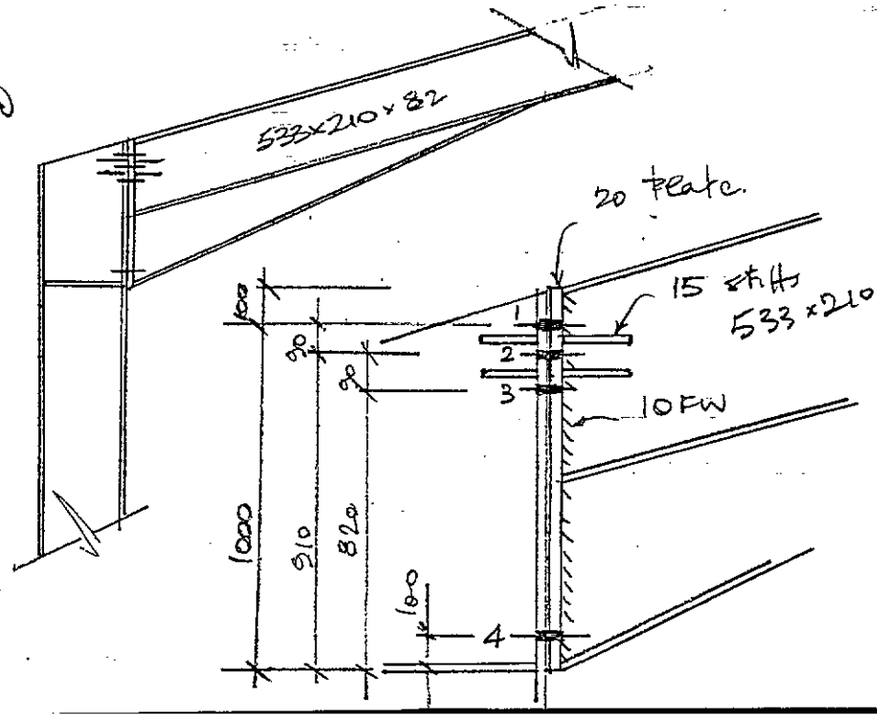
$M_b = 300$ kN.m $\quad m = 0.57$

load on stanchion = $9.72 \times 14.5 = 140.94$ kN.

$$\frac{140.94 \times 10^3}{129 \times 10^2 \times 76} + \frac{0.57 \times 405.38}{300} = 0.914 \not> 1.0$$

Beam Connection -

Connection formed with M20 8.8 Grade bolts.
10 Fillet weld.
15 mm Stiffeners



Max Force on bolt = 110 kN.

Row 1 = 110 kN.

Row 2 = $\frac{910}{1000} \times 110 = 100.1$ kN.

Row 3 = $\frac{820}{1000} \times 110 = 90.2$ kN.

Resistance of Group

$2(110 \times 1.0 + 100.1 \times 0.91 + 90.2 \times 0.82)$

$= 550.1$ kN.m > 482.29 kN.m.

Shear: Shear to be taken on bolts at row 4.

Shear Strength M20 bolt = 92.0 kN

Shear capacity - 2 bolts

$2 \times 92 = 184$ kN. > 140.94 kN.

Gable Posts.

Wind load

Wind Speed 46m/s

$S_1 = 1.0$, $S_2(38) = 0.81$, $S_3 = 1.0$

Design Speed $0.81 \times 46 = 37.26$ m/s.

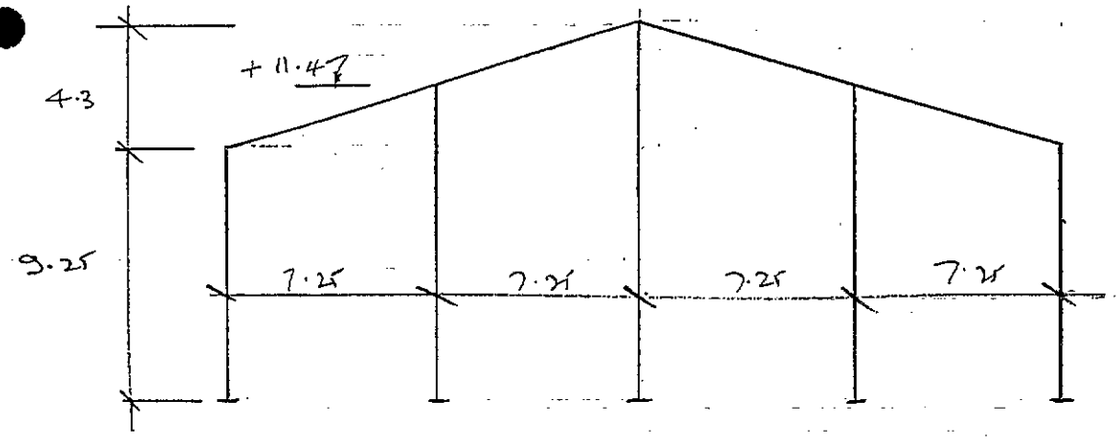
$q = \frac{0.613 \times 37.26}{10^3} = 0.851$ kN/m^2

$h/w = \frac{9.25}{29} = 0.32$ $\quad C_{pe} = 0.7$

$l/w = \frac{34.5}{29} = 1.19$

Wind load $= 0.7 \times 0.851 = 0.595$

Say 0.6 kN/m^2



Load on Gable post = $0.6 \times 7.25 = 4.35$ kN/m

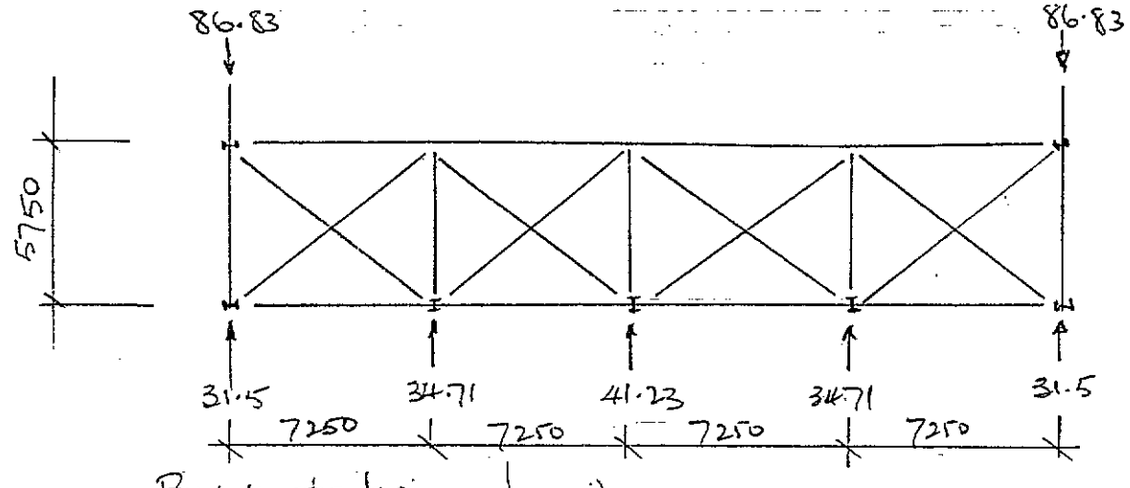
Design load $4.35 \times 1.4 = 6.09$ kN/m

$M_c = \frac{6.09 \times 11.4^2}{8} = 98.93$ kN.m

Post restrained by wall & cladding rails. For purpose of design assume fully restrained

Use 305x127x37 ($M_c = 148$ kN.m)

Roof Beams



By inspection provide

Eaves Tie beam	254x146x31 UB
Struts in Truss	152x152x23 UC

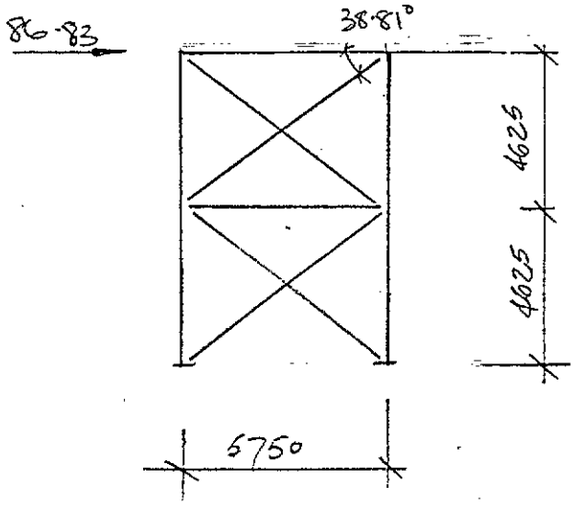
Force in diagonal tie

= 86·83 − 31·5 = 55·33 kN.

Force in tie $\frac{55·33}{\cos 51·58}$ = 89 kN.

Use 60×60×6 Clipped to purlins.

Wall Bracing



Force in tie = $\frac{86·83}{\cos 38·81}$ = 111·4 kN.

Use 60×60×6 L

Strut force = 86·83 — Use 254×146×31.

Foundations.

Stanchion Base

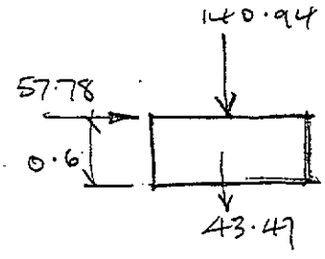
Vertical load from stanchion = 140.94 kN.

Horizontal force = 57.78 kN

Try base size 1.5 x 1.5 x 600 deep

Wt base = 1.5 x 1.5 x 0.6 x 23 x 1.4 = 43.47 kN.

$$Z = \frac{1.5 \times 1.5^2}{6} = 0.56$$

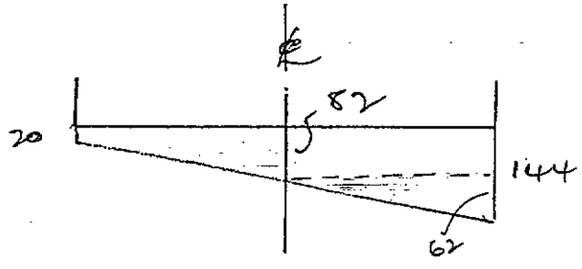


$$e = \frac{57.78 \times 0.6}{184.41} = 0.188$$

$$\frac{184.41}{1.5 \times 1.5} \pm \frac{184.41 \times 0.188}{0.56}$$

$$81.96 \pm 61.9$$

$$+143.86 \& +20 \text{ kN/m}^2$$



$$\text{Moment} = 82 \times \frac{0.75^2}{2} + \frac{62 \times 0.75}{2} \times \frac{0.75}{3} = 28.875 \text{ kN.m}$$

$$\text{Shear at } \mathcal{L} = 144 \times 0.75 \times 1.5 + \frac{62 \times 0.75^2}{2} \times 1.5 = 196.87 \text{ kN}$$

$$\frac{M}{bd^2 f_{cu}} = \frac{28.875 \times 10^6}{1500 \times 550^2 \times 25} = 0.002$$

$$A_s = \frac{28.875 \times 10^6}{0.87 \times 460 \times 0.95 \times 550} = 138 \text{ mm}^2 \text{ - nominal}$$

Min $\%_0 = 0.13$

$$0.13 \times \frac{1500 \times 600}{100} = 1170 \text{ mm}^2$$

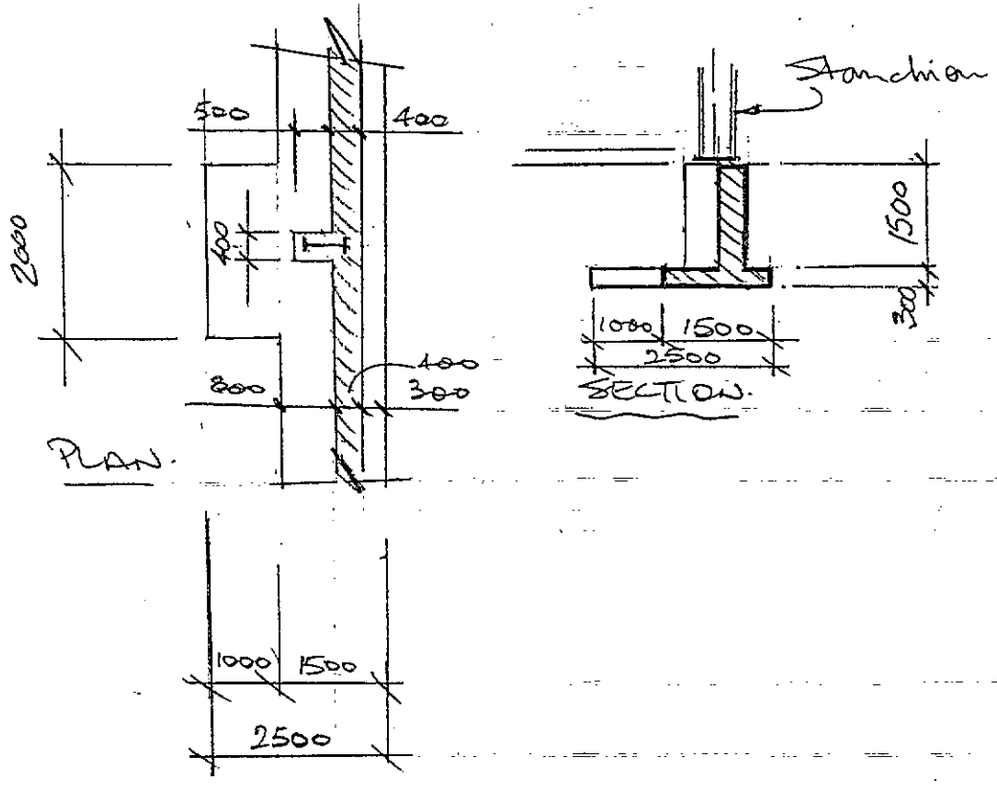
Use 6 T16 (1206)

Shear

@ f. base $\frac{127.12 \times 10^3}{1500 \times 550} = 0.15 \text{ N/mm}^2$ — nominal

$$v_c = \frac{100 \times 1206}{1500 \times 550} = 0.42 > 0.11$$

Stanchion at retaining wall.



Load on filso = 25 kN/m²

Density soil = 16 kN/m³

$\phi = 30°$

Stanchion loads:

	Factored	Service
Vertical	140.94	91.71
Horizontal	58.78	40.53

Overturning moment from stanchion horizontal force will be taken over 2.0m.

Otm.

$$M_e = \left(\frac{16 \times 1.8^2}{2} \times 0.5 \times \frac{1.8}{3}\right)2 = 15.55$$

$$M_s = \left(25 \times 1.8 \times 0.5 \times \frac{1.8}{2}\right)2 = 40.50$$

Horiz. From stanchion $40.53 \times 1.8 = 72.96$

129.01 kN.m

Rm Moments about toe

	Wt.	Arm.	Moment.
Wall	27.6	0.5	13.8
Pier	6.9	0.95	6.55
Base	34.5	1.25	43.12
Soil	2x34.56	1.6	110.6
-"-	12.48	1.85	23.09
Super	90	1.6	144.0
Partial	91.71	0.8	73.37
	332.31		414.53

$$CG = \frac{414.53}{332.31} = 1.247 \text{ from toe}$$

Factor Safety overturning $= \frac{414.53}{129.01} = 3.2$

Sliding $\mu = 0.4$

Horizontal force

$$2\left(\frac{16 \times 1.8^2}{2} \times 0.5 + 25 \times 1.8 \times 0.5\right) + 40.53 = 111.45 \text{ kN.}$$

Resistance $= 332.31 \times 0.4 = 132.92$

Factor Safety $= \frac{132.29}{111.45} = 1.2$ + Existing concrete yard Slab ∴ OK

$$Z = \frac{2 \times 2.5^2}{6} = 2.08 \qquad e = \frac{129.01}{332.31} = 0.388$$

$$\frac{P}{A} = \frac{332.31}{2 \times 2.5} \pm \frac{332.31 \times 0.388}{2.08}$$

66.46 ± 62 $\quad +128.46 \text{ & } +4.46$ kN/m².

Check Stability of wall without pier.

OTM

$M_e = \frac{16 \times 1.8^2}{2} \times 0.5 \times \frac{1.8}{3} = 7.77$

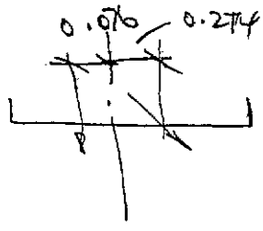
$M_s = 25 \times 1.8 \times 0.5 \times \frac{1.8}{2} = 20.25$

28.02

Item	WV.	Arm	Moment
Wall	13.8	0.5	6.9
Base	10.35	0.75	7.76
Soil	19.2	1.1	21.12
Surch	20.0	1.1	22.0
S/Wall	16.5	0.5	8.25
	79.85		66.03

$CG = \frac{66.03}{79.85} = 0.826$ m from toe

FoS overturning $= \frac{79.85}{28.02} = 2.85$



$Z = \frac{1 \times 1.5^2}{6} = 0.375$ $e = \frac{28.02}{79.85} = 0.35$

$\frac{79.85}{1.5 \times 1} \pm \frac{79.85 \times 0.274}{0.375}$

53.23 ± 58.34

$+111.57$ & -5.11 kN/m²

Wall Design.

$M_e = 7.77 \times 1.4 = 10.88$

$M_s = 20.25 \times 1.6 = 32.40$

43.28 kN.m.

$\frac{M}{bd^2 f_{cu}} = \frac{43.28 \times 10^6}{10^3 \times 350^2 \times 35} = 0.01$ $q_1 = 0.94$

$A_s = \frac{43.28 \times 10^6}{0.87 \times 460 \times 0.94 \times 350} = 328$ mm²

Min As = 0.13%

$\frac{0.13 \times 400 \times 10^3}{100} = 520$

$\underline{\text{Use T12 @ 200 c/c}}$

Base

at Stanchion

Item	Wt.	Moment
Wall	27.6×1.4	19.32
Fin	6.9×1.4	9.17
Base	34.5×1.4	60.37
Soil	69.12×1.4	154.84
– " –	12.48×1.4	32.33
	90×1.6	230.4
Super Portal	140.94	112.75
	495.78 kN.	619.18 kN.m

$CG = \frac{619.18}{495.78} = 1.249$

OTM
$M_e = 15.55 \times 1.4 = 21.77$

$M_s = 40.5 \times 1.6 = 64.8$

Horiz Force $58.78 \times 1.8 = 105.8$

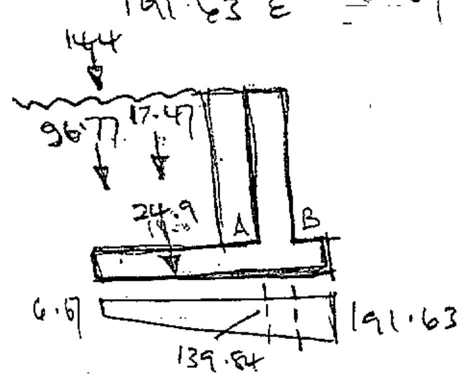
192.37 kN-m

$e = \frac{192.37}{495.78} = 0.388$

Factored G.P.
$\frac{495.78}{2 \times 2.5} \pm \frac{495.78 \times 0.388}{2.08}$

99.15 92.48

191.63 & 6.67



$$2\left(6.67\times\frac{1.8^2}{2}+\frac{133.17\times1.8\times\frac{1.8}{3}}{2}\right)-96.77\times0.9-17.47\times1.15-1.44\times0.9-24.9\times0.9$$

M @ A = 93.76 kN.m.

M @ B = $\frac{191.63\times0.3^2}{2}$ = 8.62 kN.m

$$\frac{M}{bd^2f_{cu}}=\frac{93.76\times10^6}{10^3\times250^2\times35}=0.04 \qquad q=.94$$

$$A_s=\frac{93.76\times10^6}{0.87\times460\times0.94\times250}=996.9$$

Use T16 @ 200 c/c

Column under transition.

By inspection the loads and moments applied to the column are nominal ∴ provide minimum reinforcement = 0.4%.

$$\frac{900\times400\times0.4}{100}=1440$$

Use 3T25 each face.

Blockwork

Blockwork panels 5.75 × 3.0 high

Two panels with 150 inner skin & 100 Outer Skin

Block strength 5 N/mm² 1:1:6 Mortar

Effective thickness = 2/3 (150+100) = 216

Limiting Dimensions $\frac{13.50\times216^2}{10^6}=62.98$

Area of panel 5.75 × 3 = 17.25 < 62.98

Panel provided with mesh band beam

∴ Wall simply supported on 4 sides

$\mu = \frac{0.25}{0.51} = 0.49$

$h/L = \frac{3}{5.75} = 0.52$ $\quad \alpha = 0.028$

band load $= 0.6$ kN/m²

M perp $= 0.028 \times 0.6 \times 1.2 \times 5.75^2 = 0.666$ kN.m

M par $= 0.49 \times 0.666 = 0.327$ kN.m

Z inner skin $= \frac{10^3 \times 150^2}{6} = 3.75 \times 10^6$

Z outer skin $= \frac{10^3 \times 100^2}{6} = \frac{1.67 \times 10^6}{5.42 \times 10^6}$

Proportion of moment on inner skin $= \frac{3.75}{5.42} = 0.69$

Moment on inner skin

M perp $= 0.666 \times 0.69 = 0.459$ kN.m.

M par $= 0.327 \times 0.69 = 0.225$

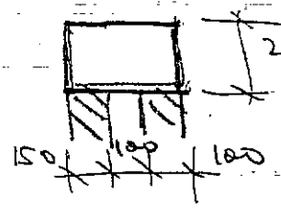
Moment Resistance provided (inner skin)

f_{kx} par $= 0.25$ f_{kx} perp $= 0.51$ $\quad \gamma_m = 3.1$

M_r perp $= \frac{0.51 \times 3.75 \times 10^6}{3.1} = 0.617 > 0.459$

M_r par $= \frac{0.25 \times 3.75 \times 10^6}{3.1} = 0.302 > 0.225$

Band Beam.



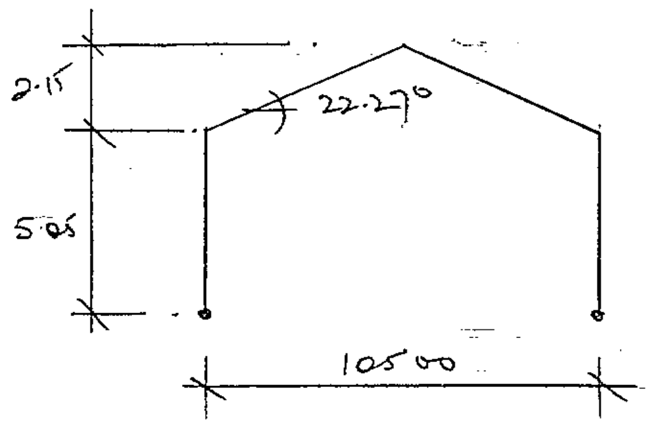
load $= 0.6 \times 1.2 \times \frac{3}{2} = 1.08$ kN/m

$M = \frac{1.08 \times 5.75^2}{8} = 4.46$ kN.m nominal

provide min reinf

4 T12 & R10 links @ 250 c/c

Access Store Steelwork.



Frames @ 6300c/c

Load
Super $0.75 \times 1.6 = 1.2$

Cladding / Purlins / Steel } $0.35 \times 1.4 = 0.49$

1.69 kN/m²

Load on frame

$1.69 \times 6.3 = 10.65$ kN/m.

$L/h = \frac{10.5}{5.05} = 2.08$

$r/L = \frac{2.15}{10.5} = 0.2$

$WL^2 = 10.65 \times 10.5^2 \sim 1174$

Horiz reaction factor = 0.14

$H_A = 0.14 \times 10.65 \times 10.5 = 15.65$ kN.

Mp ratio for rafter 0.032

$M_{pr} = 0.032 \times 1174 = 37.56$ kN.m

Mp ratio for stanchion = 0.063

$M_{ps} = 0.063 \times 1174 = 73.96$ kN.m

Plastic Modulus required

Rafter $= \frac{37.56 \times 10^6}{275 \times 10^3} = 136.6$ Try 178x102x19

Stanchion $= \frac{73.96 \times 10^6}{275 \times 10^3} = 268.94$ Try 254x146x31

Sway Stability

I 254×146×31 = 44440 cm⁴

I 178×102×19 = 13600 cm⁴

$$C_Q = \frac{2 \times 44440}{13600} \times \frac{10.5}{5.05} = 13.57$$

$$L_B = 10.5 - 1.05 = 9.45$$

$$L_r = 2\sqrt{2.15^2 + 5.25^2} = 11.34$$

$$W_r = 10.5 \times 10.65 = 111.82 \text{ kN}$$

$$W_o = \frac{16 \times 171 \times 10^3 \times 275}{10.5 \times 10^3 \times 10^3} = 71.65$$

$$S_L = \frac{111.82}{71.65} = 1.56$$

$$\frac{44}{1.56} \times \frac{10.5}{2.15} \times \frac{13.57}{\left(4 + \frac{13.57 \times 11.34}{10.5}\right)} \times \frac{275}{275} = 100.19$$

$$\frac{L_B}{D} = \frac{9.45 \times 10^3}{178} = 53 < 100.19$$

Sway satisfactory

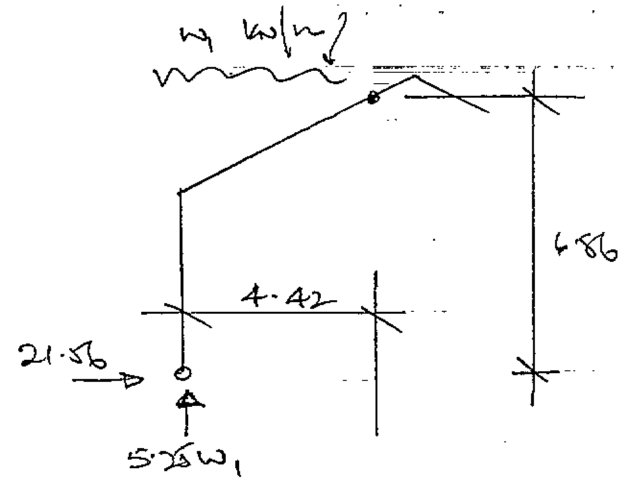
Load capacity of frame

Horizontal reaction provided by frame

$$= \frac{396 \times 275 \times 10^3}{5.05 \times 10^6} = 21.56 \text{ kN}.$$

location of rafter hinge $0.44 \times 10.05 = 4.42$

$$M_p \text{ rafter} = \frac{171 \times 275 \times 10^3}{10^6} = 47.02 \text{ kN.m}.$$



$$5.25w_1 - 21.56\times 6.86 - \frac{4.42^2 w_1}{2} - -47.08 = 0$$

$$-4.51w_1 - 194.92 = 0$$

$$w_1 = \frac{194.92}{4.51} = 43.21 > 10.65$$

Plastic hinge restraint

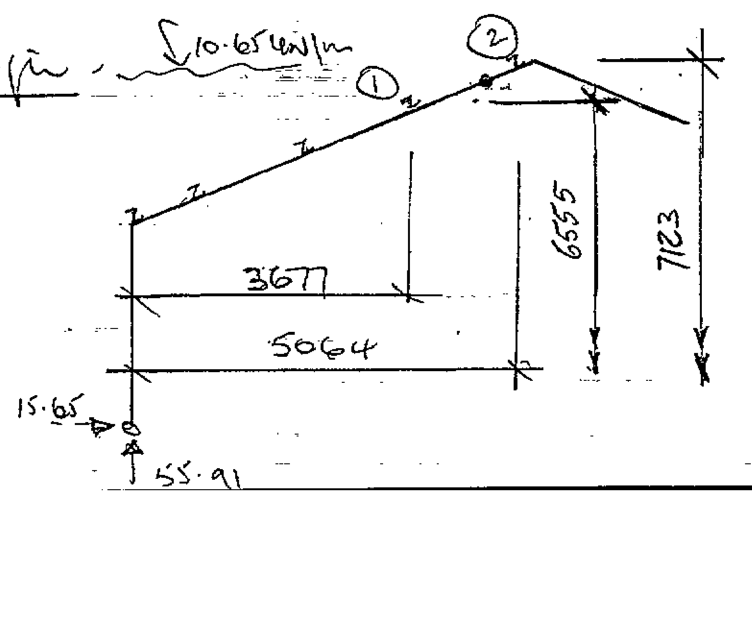
Rafter $f_c = \frac{15.65\times 10^3}{24.2\times 10^2} = 6.47\ \text{N/mm}^2$

$$L_m = \frac{38\times 2.39\times 10}{\sqrt{\frac{6.47}{130} + (1)^2\times\left(\frac{22.6}{36}\right)^2}} = 1368$$

Stanchion $f_c = \frac{55.91\times 10^3}{40\times 10^2} = 13.97$

$$L_m = \frac{38\times 3.35\times 10}{\sqrt{\frac{13.97}{130} + (1)^2\times\left(\frac{29.4}{36}\right)^2}} = 1446$$

Rafter Design.



$M_D = 55.91 \times 3.677 - 15.65 \times 6.555 - 10.65 \times 3.677^2 = 30.99$

$M_B = 55.91 \times 5.064 - 15.65 \times 7.133 - 10.65 \times 5.064^2 = 35.1$

$\beta = \frac{30.99}{35.1} = 0.88 \qquad m = 0.95$

$m = 0.95 \times 35.1 = 33.34$

$\lambda = \frac{1500}{239 \times 10} = 62.76 \qquad p_b = 234 \text{ N/mm}^2$

$M_b = \frac{234 \times 171 \times 10^3}{10^6} = 40.01 > 33.34$

Use 178 x 102 x 19 UB

Stanchion. - Cased in concrete full height

Nominal load

∴ 254 x 146 x 31 UC.

Foundation.

Load = 55.91 kN

Wind = 15.65 kN.

Nominal load:

Use base 1500 x 1000 x 600 deep

Office Block Foundation.

Load from RC column (see concrete calcs.)

Ultimate loads = 701.4 kN

Service loads = 480.82 kN

Try base 2.0 × 2.0 × .975 deep

Wt base $2 \times 2 \times 0.975 \times 23 = 89.7$ kN.

∴ Total service load = 480.82 + 89.7 = 570.52 kN.

GP $\frac{570.52}{2 \times 2} = 142.63$ kN/m².

Base Design.

Ultimate GP $\frac{701.4}{2 \times 2} = 175.35$ kN/m²

Moment at column face

$\frac{175.35 \times 1^2}{2} \times 2 = 175.3$ kN.m

$\frac{M}{bd^2 f_{cu}} = \frac{175.3 \times 10^6}{2000 \times 900^2 \times 35} = 0.0031$ $q = 0.94$

$A_s = \frac{175.3 \times 10^6}{0.87 \times 460 \times 0.94 \times 900} = 517$ mm²

Min $A_s = \frac{0.13 \times 975 \times 2000}{100} = 2340$

Use 8 T20 bottom (2513 mm²)

Shear $v = \frac{701.4 \times 10^3 \times 0.5}{2000 \times 900} = 0.194$ N/mm²

$\frac{100 A_s}{bd} = \frac{100 \times 2513}{2000 \times 900} = 0.14$. $v_c = 0.34 > 0.194$

Punching shear Taken on depth below column

$\frac{701.4 \times 10^3}{4 \times 300 \times 300} = 1.94$ N/mm² $< 0.8\sqrt{35} = 4.73$.

Store N°2.

Round roof structure to match existing.

Load

Snow 0.75 x 1.6 x 1.2

Cladding, Purlins, Steel = 0.45 x 1.4 = 0.63

1.83 kN/m²

Frames at 4.57 x 1.83 = 8.36 kN/m

Load at node points on truss = 8.36 x 7.4 = 20.07 kN.

Standard

Load = 8.36 x 15.25 = 63.74 kN.

Height = 5900.

Structure restrained by cladding rails on weak axis at 1500c/c. Unrestrained on major axis

Try 203x133x25

$l/r_y = \frac{1500}{3.1 \times 10} = 49$ $p_c = 238$ N/mm²

$l/r_x = \frac{5900}{8.54 \times 10} = 69$ $p_c = 225$ N/mm²

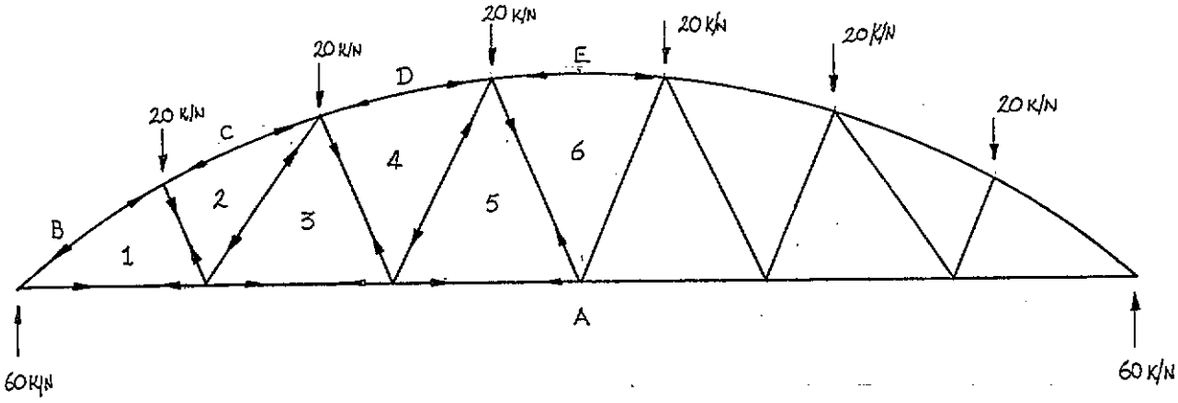
$W/A = \frac{63.74 \times 10^3}{32.3 \times 10^2} = 19.73 < 225$ N/mm²

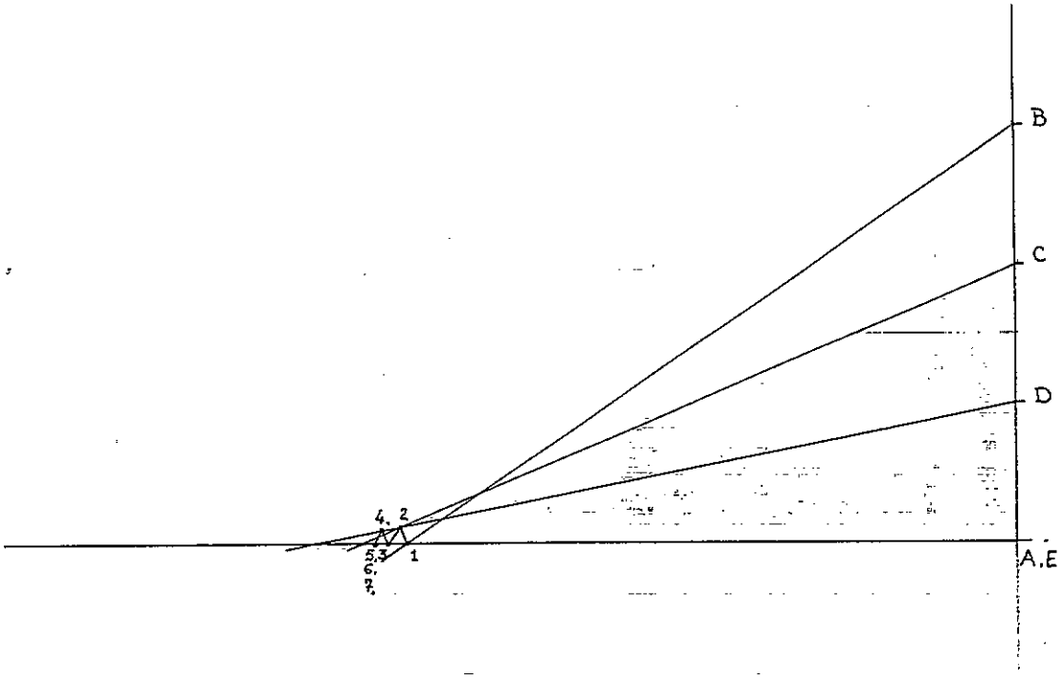
Use 203x133x25.

Foundation.

63.74 kN load. — nominal

Provide 1.0 x 1.0 x 0.6 deep





FORCES	TENSION/COMPRESSION	LENGTH	MEMBER SIZE
1/B	+ 99	2400	100×100×8 L
2/C	+ 88	2400	"
4/D	+ 85	2400	"
6/E	+ 84	2400	"
1/A	- 79	2500	70×70×6 L
3/A	- 82	2600	"
5/A	- 84	2500	"
1/2	- 4	1600	80×80×6 L
3/4	- 2	2600	"
5/6	- 0	3200	"
2/3	+ 4	2900	80×80×6 L
4/5	+ 2	3200	"

DUBLIN COUNTY COUNCIL

Tel. 724755 (ext. 262/264)

PLANNING DEPARTMENT,
BLOCK 2,
IRISH LIFE CENTRE,
LR. ABBEY STREET,
DUBLIN 1.

Notification of Decision to Grant Permission/[redacted]

Local Government (Planning and Development) Acts, 1963-1983

Smurfit Corrigated Ireland, — Decision Order Number and Date: P/4384/91 — 03.10.1991

To: c/o D. J. Lunn,

2 Paramount Arcade, Main St., — Register Reference No.: 91A/1304

Arklow, Co. Wicklow. — Planning Control No.

Application Received on: 07.08.1991

Smurfit Corrigated Ireland

Applicant

In pursuance of its functions under the above-mentioned Acts, the Dublin County Council, being the Planning Authority for the County Health District of Dublin, did by Order dated as above make a decision to grant Permission/[redacted] for:-

construct a single storey area and to extend existing buildings at Ballymount Road, Walkinstown.

SUBJECT TO THE FOLLOWING CONDITIONS

CONDITIONS	REASONS FOR CONDITIONS
1. The development to be carried out in its entirety in accordance with the plans, particulars and specifications lodged with the application, save as may be required by the other conditions attached hereto.	1. To ensure that the development shall be in accordance with the permission and that effective control be maintained.
2. That before development commences, approval under the Building Bye-Laws be obtained, and all conditions of that approval be observed in the development.	2. In order to comply with the Sanitary Services Acts, 1878-1964.
3. That the requirements of the Supervising Environmental Health Officer be ascertained and strictly adhered to in the development.	3. In the interest of health.

- Contd../

Signed on behalf of the Dublin County Council ..... For Principal Officer

3rd October, 1991.
Date

IMPORTANT: Turn overleaf for further information

CONDITIONS	REASONS FOR CONDITIONS
4. That a financial contribution in the sum of £9962. be paid by the proposer to the Dublin County Council towards the cost of provision of public services in the area of the proposed development and which facilitate this development; this contribution to be paid before the commencement of development on the site.	4. The provision of such services in the area by the Council will facilitate the proposed development. It is considered reasonable that the developer should contribute towards the cost of providing the services.
5. That the colour of the proposed metal cladding and corrugated asbestos shall harmonise with that of the roof of the existing premises and shall be agreed with the Planning Authority before development commences.	5. In the interest of visual amenity.
6. That the water supply and drainage arrangements, including the disposal of surface water, be in accordance with the requirements of the County Council.	6. In order to comply with the Sanitary Services Acts 1878-1964.
7. That off street car parking be provided in accordance with the requirement of the Dublin County Development Plan, 1983.	7. In the interest of the proper planning and development of the area.

NOTE:

If there is no appeal to An Bord Pleanala against this decision PERMISSION/APPROVAL will be granted by the Council as soon as may be after the expiration of the period for the taking of such appeal. If every appeal made in accordance with the Acts has been withdrawn, the Council will grant the PERMISSION/APPROVAL after the withdrawal.

An appeal against the decision may be made to An Bord Pleanala. The applicant may appeal within one month from the date of receipt by him of this notification. ANY OTHER PERSON may appeal within twenty-one days beginning on the date of the decision.

An appeal shall be in writing and shall state the subject matter and grounds of the appeal. It should be addressed to:— An Bord Pleanala, Blocks 6 and 7, Irish Life Centre, Lower Abbey Street, Dublin 1.

(1) An appeal lodged by an applicant or his agent with An Bord Pleanala will be invalid unless accompanied by a fee of £36 (Thirty-six Pounds). (2) A party to an appeal making a request to An Bord Pleanala for an Oral Hearing of an appeal must, *in addition* to (1) above, pay to An Bord Pleanala a fee of £36 (Thirty-six Pounds). (3) A person who is not a party to an appeal must pay a fee of £10 (Ten Pounds) to An Bord Pleanala when making submissions or observations to An Bord Pleanala in relation to an appeal.

Approval of the Council under Building Bye-Laws must be obtained and the terms of the approval must be complied with in the carrying out of the work before any development which may be permitted is commenced.

FUTURE PRINT LTD.

Dublin County Council Comhairle Chontae Atha Cliath **Planning Department**

Building Control Department,
Liffey House,
Tara Street,
Dublin 1.
Telephone:773066

Bloc 2, Ionad Bheatha na hEireann,
Block 2, Irish Life Centre,
Sraid na Mainistreach Iacht,
Lower Abbey Street,
Baile Atha Cliath 1.
Dublin 1.
Telephone. (01)724755
Fax. (01)724896

Register Reference : 91A/1304

Date : 8th August 1991

LOCAL GOVERNMENT (PLANNING AND DEVELOPMENT) ACTS, 1963 TO 1990

Dear Sir/Madam,

DEVELOPMENT : Construct a single storey storage area and to extend existing buildings

LOCATION : Ballymount Road, Walkinstown

APPLICANT : Smurfit Corrigated Ireland

APP. TYPE : PERMISSION

With reference to the above, I acknowledge receipt of your application received on 7th August 1991.

Yours faithfully,

.....

for PRINCIPAL OFFICER

Smurfit Corrigated Ireland,
C/o D.J. Lunn,
2 Paramount Arcade,
Main Street,
Arklow, Co. Wicklow.

Dublin County Council
Comhairle Chontae Átha Cliath

Planning Application Form/ Bye - Law Application Form

PLEASE READ INSTRUCTIONS AT BACK BEFORE COMPLETING FORM. ALL QUESTIONS MUST BE ANSWERED.

1. Application for Permission [✓] Outline Permission [ ] Approval [ ] Place ✓ in appropriate box.
Approval should be sought only where an outline permission was previously granted. Outline permission may not be sought for the retention of structures or continuances of uses.

2. Postal address of site or building (If none, give description sufficient to identify) BALLYMOUNT ROAD WALKINSTOWN DUBLIN 12.

3. Name of applicant (Principal not Agent) SMURFIT CORRUGATED IRELAND
Address BALLYMOUNT RD DUBLIN 12 Tel. No. 505196

4. Name and address of person or firm responsible for preparation of drawings D.J. LUNN CONSULTING ENGINEER 2 PARAMOUNT ARCADE MAIN ST. ARKLOW Tel. No 0402 39377

5. Name and address to which notifications should be sent SMURFIT CORRUGATED IRELAND c/o D.J. LUNN 2 PARAMOUNT ARCADE MAIN ST. ARKLOW CO. WICKLOW

6. Brief description of proposed development SINGLE STOREY DEVELOPMENT FOR STORAGE PURPOSES.

7. Method of drainage MAINS 8. Source of Water Supply MAINS

9. In the case of any building or buildings to be retained on site, please state:-
(a) Present use of each floor or use when last used. N/A
(b) Proposed use of each floor

2422 7/8
A 49448

10 Does the proposal involve demolition, partial demolition or change of use of any habitable house or part thereof? NO

J. Press 2/8/91

11. (a) Area of Site 44390 Sq. m.
(b) Floor area of proposed development 1384 Sq. m.
(c) Floor area of buildings proposed to be retained within site 16573 Sq. m.

07 AUG 91

12. State applicant's legal interest or estate in site (i.e. freehold, leasehold, etc.) OWNER

13. Are you now applying also for an approval under the Building Bye Laws?
Yes [ ] No [✓] Place ✓ in appropriate box.

14. Please state the extent to which the Draft Building Regulations have been taken in account in your proposal:
CONSIDERED TO COMPLY

15. List of documents enclosed with application. 4 Copies drawing. 1838/10, 11 & 12 Newspaper Advertisement

CO. DUBLIN We are applying for permission to construct a single storey storage area and to extend existing buildings at Ballymount Road, Walkinstown. Signed Smurfit Corrigated Ireland.

16. Gross floor space of proposed development (See back) 1384 Sq. m.
No of dwellings proposed (if any) NIL Class(es) of Development 4
Fee Payable £ 2422 Basis of Calculation @ £1.75 m²
If a reduced fee is tendered details of previous relevant payment should be given

Signature of ~~Applicant~~ (or his Agent) [signature] Date 2 August 1991

FOR OFFICE USE ONLY

Application Type P.
Register Reference 91A/1304
Amount Received £
Receipt No
Date 22/1

1.12.0

LOCAL GOVERNMENT (PLANNING & DEVELOPMENT) REGULATIONS 1977 to 1984.

Outline of requirements for applications for permission or Approval under the Local Government (Planning & Development) Acts 1963 to 1983. The Planning Acts and Regulations made thereunder may be purchased from the Government Publications Sales Office. Sun Alliance House, Molesworth Street, Dublin 2.

1. Name and Address of applicant.

2. Particulars of the interest held in the land or structure, i.e. whether freehold, leasehold, etc.

3. The page of a newspaper, circulating in the area in which the land or structure is situate, containing the required statutory notice. The newspaper advertisement should state after the heading Co. Dublin.

   (a) The address of the structure or the location of the land.
   (b) The nature and extent of the development proposed. If retention of development is involved, the notice should be worded accordingly. Any demolition of habitable accommodation should be indicated.
   (c) The name of the applicant.

   NB. Applications must be received within 2 weeks from date of publication of the notice.

4. Four (4) sets of drawings to a stated scale must be submitted. Each set to include a layout or block plan, proposed and existing services to be shown on this drawing, location map, and drawings of relevant floor plans, elevations, sections, details of type and location of septic tank (if applicable) and such other particulars as are necessary to identify the land and to describe the works or structure to which the application relates (new work to be coloured or otherwise distinguished from any retained structures). Buildings, roads, boundaries and other features bounding the structure or other land to which the application relates shall be shown on site plans or layout plans. The location map should be of scale not less than 1: 2500 and should indicate the north point. The site of the proposed development must be outlined in red. Plans and drawings should indicate the name and address of the person by whom they were prepared. Any adjoining lands in which the applicant has an interest must be outlined in blue.

5. In the case of a proposed change of use of any structure or land, requirements in addition to 1, 2, & 3 are:
   (a) a statement of the existing use and the proposed use, or, where appropriate, the former use and the use proposed.

   (b) (i) Four (4) sets of the drawings to a stated scale must be submitted. Each set to consist of a plan or location map (marked or coloured in red so as to identify the structure or land to which the application relates) to a scale of not less than 1:2500 and to indicate the North point. Any adjoining lands in which the application has an interest must be outlined in blue.

   (ii) A layout and a survey plan of each floor of any structure to which the application relates.

   (c) Plans and drawings should indicate the name and address of the person by whom they were prepared.

6. Applications should be addressed to: Dublin County Council, Planning Department, Irish Life Centre, Lr. Abbey Street, Dublin 1, Tel. 724755.

SEPTIC TANK DRAINAGE: Where drainage by means of a septic tank is proposed, before a planning application is considered, the applicant may be required to arrange for a trial hole to be inspected and declared suitable for the satisfactory percolation of septic tank effluent. The trial hole to be dug seven feet deep at or about the site of the septic tank. Septic tanks are to be in accordence with I.I.R.S. S.R. 6:75.

INDUSTRIAL DEVELOPMENT:

The proposed use of an industrial premises should, where possible, be stated together with the estimated number of employees, (male and female). Details of trade effluents, if any, should be submitted.

Applicants to comply in full with the requirements of the Local Government (Water Pollution) Act,1977 in particular the licencing provisions of Sections 4 and 16.

PLANNING APPLICATIONS

CLASS NO.	DESCRIPTION	FEE
1.	Provision of dwelling — House/Flat.	£32.00 each
2.	Domestic extensions/other improvements.	£16.00
3.	Provision of agricultural buildings (See Regs.)	£40.00 minimum
4.	Other buildings (i.e. offices, commercial, etc.)	£1.75 per sq. metre (Min. £40.00)
5.	Use of land (Mining, deposit or waste)	£25.00 per 0.1 ha (Min £250.00)
6.	Use of land (Camping, parking, storage)	£25.00 per 0.1 ha (Min. £40.00)
7.	Provision of plant/machinery/tank or other structure for storage purposes.	£25.00 per 0.1 ha (Min. £100.00)
8.	Petrol Filling Station.	£100.00
9.	Advertising Structures.	£10.00 per m^2 (min £40.00)
10.	Electricity transmission lines.	£25.00 per 1,000m (Min. £40.00)
11.	Any other development.	£5.00 per 0.1 ha (Min. £40.00)

BUILDING BYE-LAW APPLICATIONS

CLASS NO.	DESCRIPTION	FEE
A	Dwelling (House/Flat)	£55.00 each
B	Domestic Extension (improvement/alteration)	£30.00 each
C	Building — Office/ Commercial Purposes	£3.50 per m^2 (min. £70.00)
D	Agricultural Buildings/Structures	£1.00 per m^2 in excess of 300 sq. metres (min. - £70.00) (Max. - £300.00)
E	Petrol Filling Station	£200.00
F	Development or Proposals not coming within any of the foregoing classes.	£9.00 per 0.1 ha (£70.00 min.) Min. Fee £30.00 Max. Fee £20,000

Cheques etc. should be made payable to: Dublin County Council.

Gross Floor space is to be taken as the total floor space on each floor measured from the inside of the external walls.

For full details of Fees and Exemptions see Local Government (Planning and Development) (Fees) Regulations 1984.

RECEIPT CODE

COMHAIRLE CHONTAE ATHA CLIATH

PAID BY

CASH

CHEQUE ✓

P.O.

B.L.

I.T.

DUBLIN COUNTY COUNCIL
46/49 UPPER O'CONNELL STREET
DUBLIN 1.

Issue of this receipt is not an acknowledgement that the fee tendered is the prescribed application fee.

N 47448

£ 2422-00

Received this 7th day of August 19 91

from Cedar Building Co Ltd

the sum of two thousand four hundred & twenty two — Pounds

— Pence, being fee for

planning application at Ballymount Rd

Noeleen Doane Cashier

S. CAREY
Principal Officer

BYE LAW APPLICATION FEES

REF. NO.: 91A/1304 CERTIFICATE NO.: 164513

PROPOSAL: Dev. of storage

LOCATION: Ballymount Rd.

APPLICANT: Smurfit Corrugated Ire.

	1	2	3	4	5	6	7
CLASS	DWELLINGS/AREA LENGTH/STRUCTURE	RATE	AMT. OF FEE REQUIRED	AMT. LODGED	BALANCE DUE	RED. FEE APPL.	AMT. OF RED. FEE
A	Dwelling (Houses/Flats)	@ £55					
B	Domestic Ext. (Improvement/ Alts.)	@ £30					
C See 26285	Building for office or other comm. purpose 1384 m²	@ £3.50 per M² or £70	4844.00 4844		—		
D	Building or other structure for purposes of agriculture	@ £1.00 per M² in excess of 300 M² Min. £70					
E	Petrol Filling Station	@ £200					
F	Dev. of prop. not coming within any of the forgoing classes	£70 or £9 per .1 hect. whichever is the greater					

Column 1 Certified: Signed: _____ Grade: _____ Date: _____

Column 1 Endorsed: Signed: _____ Grade: _____ Date: _____

Columns 2,3,4,5,6 & 7 Certified: Signed: N.O.e Grade: III Date: 4/10/91

Columns 2,3,4,5,6 & 7 Endorsed: Signed: _____ Grade: _____ Date: _____

PLANNING APPLICATION FEES

Reg. Ref. 91A/1304 Cert. No. 26285

PROPOSAL Extension to new Style Storey Storage area

LOCATION Ballymount Road, Walkinstown D12

APPLICANT Smurfit Corrugated Ireland

CLASS	DWELLINGS/AREA LENGTH/STRUCT.	RATE	AMT. OF FEE REC.	AMOUNT LODGED	BALANCE DUE	BALANCE PAID
1	Dwellings	@£32				
2	Domestic,	@£16				
3	Agriculture	@50p per m2 in excess of 300m2. Min. £40				
4	Metres 1384 m (1300)	@£1.75 per m2 or £40	£2422	£2422		
5	x .1 hect.	@£25 per .1 hect. or £250				
6	x .1 hect.	@£25 per .1 hect. or £40				
7	x .1 hect.	@£25 per .1 hect. or £100				
8		@£100				
9	x metres	@£10 per m2 or £40				
10	x 1,000m	@£25 per £1000m or £40				
11	x .1 hect.	@£5 per .1 hect. or £40				

Column 1 Certified:Signed: ..... Grade S.E.O. Date 13-8-91

Column 1 Endorsed:Signed: ..... Grade ..... Date .....

Columns 2,3,4,5,6 & 7 Certified:Signed: ..... Grade S.E. Date 12/8/91

Columns 2,3,4,5,6 & 7 Endorsed:Signed: ..... Grade ..... Date .....

LOCATION GOVERNMENT (PLANNING AND DEVELOPMENT) ACTS, 1963 TO 1982

ASSESSMENT OF FINANCIAL CONTRIBUTION

REG. REF.: 91A/1304

CONT. REG.:

SERVICES INVOLVED: WATER/FOUL SEWER/SURFACE WATER

AREA OF SITE:

FLOOR AREA OF PRESENT PROPOSAL: 14,897 Sq.ft.

MEASURED BY:

CHECKED BY:

METHOD OF ASSESSMENT:

TOTAL ASSESSMENT

MANAGER'S ORDERED NO: P/ /
DATED

ENTERED IN CONTRIBUTIONS REGISTER:

DEVELOPMENT CONTROL ASSISTANT GRADE

Existing to be demolished = 150 m² = 1614 Sq.ft.

Existing to be relocated = 324 m² = 3487 Sq.ft.

3/10/91

14897 Proposal
1614 Demolition
13,283

@ 750
= 9962.25
9962

3/10/91

14897
1000 @ 750
= 11,172.75
11173

37244
11172.4

2/10/91

Mary Galvin

5

PLANNING DEPARTMENT BOOK FOLIO

(1) Date Lodged 1.10.91

LOCATION: Ballymount Road, Walkinstown

APPLICANT: Smurfit Corrugated Ireland

PROPOSAL: Office Development

DUBLIN COUNTY COUNCIL
9 DEC 1991
ENVIRONMENTAL HEALTH OFFICERS
91A/1304
91A/1098

DUBLIN
1991
ENVIRONMENTAL HEALTH
OFFICERS

(2) Date referred

Chief Medical Officer, Eastern Health Board

(3) Rec'd San. Services

✓ No objections provided
Compliance with Office Premises Act 1958 and Regulations thereunder
a) Canteen / tea room facilities are not indicated on plans. These must be provided within reasonable access for workers.
b) Drinking water facilities must be provided within reasonable access for workers.

Jackie Kelly
EHO 11/12/91

(4) Dispatched by San. Ser. to C.M.O.:

PLANNING DEPT.
DEVELOPMENT CONTROL SECT
Date 13.12.91
Time 3.30

(5) Rec'd Planning:

(6) Date to Planner:

(7) D.P.O. Report to be submitted before:

(9) Decision due:

(8) DPO Report submitted to S.A.O.:

ENDORSED: Ita Devine for John O'Reilly SEHO DATE: 12-12-91

Niall O'Byrne.

55700 3

PLANNING DEPARTMENT BOOK FOLIO

REG.REF. ~~91A/1304~~ 91A/1096

(1) Date Lodged 1.10.91

LOCATION: Ballymount Road, Walkinstown

APPLICANT: Smurfit Corrugated Ireland

PROPOSAL: Office Development

(2) Date referred: 11/10

Reports received from Sanitary Services - EHO

FOUL SEWER

Available to existing system.
Drainage details relating to the particular extension should be submitted before work commences.

DUBLIN Co. COUNCIL
(3) Rec'd San. Ser. 15 OCT 1991

(4) Returned by San. Services:
DUBLIN COUNTY COUNCIL SANITARY SERVICES -6 DEC 1991 Returned.

SURFACE WATER

Insufficient information.
Before any permission or approval could issue as a result of this submission, the applicant must demonstrate that they have complied with all Dublin County Council Engineering Services requirements in respect of the Water Pollution Act currently the subject of correspondence.
Surface Water run off is subject to the provision of the Water Pollution Act.

5.12.91

(5) Date to Planning

PLANNING DEPT. DEVELOPMENT CONTROL SECT. Date 9.12.91 Time 4.00

(6) Date to Planner

Await Gary O'Briens report.

(7) D.P.O. report to be submitted before:

8.11.91

(8) D.P.O. report submitted to S.A.O.:

11/11/91

(9) Decision due:

10/10/91

ENDORSED DATE

CHCD 10/10

PLANNING DEPARTMENT BOOK FOLIO

(1) Date Lodged
1.10.91

LOCATION: Ballymount Road, Walkinstown

REG.REF. 91A/1504 91A/1005

APPLICANT: Smurfit Corrugated Ireland

PROPOSAL: Office Development

WATER SUPPLY

Applicant to submit details of existing watermains on site, and details of how they are affected by the proposed extensions. Refer to C.F.O.'s
L. J. Span
18 Oct 91

18/10/91

PLANNING DEPT.
DEVELOPMENT CONTROL SECT
Date 9.12.91.
Time 4.00

ENDORSED: _____ DATE 6 Dec '91

P/4384/91

COMHAIRLE CHONTAE ÁTHA CLIATH

Record of Executive Business and Manager's Orders

Register Reference : 91A/1304 Date Received : 7th August 1991

Correspondence Name and Address : Smurfit Corrigated Ireland,
C/o D.J. Lunn,
2 Paramount Arcade,
Main Street,
Arklow, Co. Wicklow.

Development : Construct a single storey storage area and to extend existing buildings

Location : Ballymount Road, Walkinstown

Applicant : Smurfit Corrigated Ireland

App. Type : Permission

Zoning :

Floor Area : Sq.metres

CONTRIBUTION:
Standard: ~~£1,123~~
Roads: £ 9962
S. Sers:
Open Space:
Other:
SECURITY:
Bond / C.I.F.:
Cash:

(NOB/BB)

Report of Dublin Planning Officer dated 12th September, 1991.

This is an application for PERMISSION to construct a single storey STORAGE area and to extend existing buildings at the Smurfit premises at Ballymount Road.

The site is located in an area subject to the zoning objective "to provide for industrial and related uses".

Reg. Ref. 85A/363 refers to a decision to grant permission for a factory extension. This permission was not implemented and has expired.

Reg. Ref. 85A/1678 refers to a decision to grant permission for a new ~~boundary~~ BALE LOADING shed.

Reg. Ref. 88A/901 refers to a decision to grant permission for a replacement water storage tank.

Reg. Ref. 91A/1096 refers to a current application for permission for a 2 storey office block and a single storey area.

The current application is for extensions to the factory area. An additional 1384 sq. metre of new floor space is proposed with 170 sq. metres of buildings being demolished. The site of the proposed development is mostly an open concrete apron used for the storage and manoevring of large vehicles.

The external finish proposed is pebble dash to match the existing buildings and asbestos and metal cladding on a steel frame.

COMHAIRLE CHONTAE ÁTHA CLIATH

Record of Executive Business and Manager's Orders

Reg.Ref: 91A/1304

Page No: 0002

Location: Ballymount Road, Walkinstown

The proposed colour of the metal cladding has not been indicated. Existing finish colour is grey or natural.

The 9 metre height of the extension to the rear is required for vertical storage of large paper reems.

Alterations are also proposed to waste treatment and drainage on the site.

Sanitary Services report not available as yet

C.M.O. reports that the proposal is acceptable subject to compliance with the Safety in Industry Act 1955/80 and the Health Safety and Welfare at Work Act 1974

The proposed extension to this existing industrial enterprise is acceptable.

I recommend that a decision to GRANT PERMISSION be made under the Local Government (Planning and Development) Acts, 1963-1990 subject to the following (7) conditions:-

C O N D I T I O N S / R E A S O N S

01 The development to be carried out in its entirety in accordance with the plans, particulars and specifications lodged with the application save as may be required by the other conditions attached hereto.
REASON:To ensure that the development shall be in accordance with the permission and that effective control be maintained.

02 That before development commences, approval under the Building Bye- Laws be obtained and all conditions of that approval be observed in the development.
REASON:In order to comply with the Sanitary Services Acts, 1878-1964.

03 That the requirements of the Supervising Environmental Health Officer be ascertained and strictly adhered to in the development.
REASON: In the interest of health.

04 That a financial contribution in the sum of £ 9962 ~~4473~~ be paid by the proposer to the Dublin County Council towards the cost of provision of public services in the area of the proposed development and which facilitate this development; this contribution to be paid before the

£9962

COMHAIRLE CHONTAE ÁTHA CLIATH

Record of Executive Business and Manager's Orders

Reg.Ref: 91A/1304

Page No: 0003

Location: Ballymount Road, Walkinstown

commencement of development on the site.
REASON: The provision of such services in the area by the Council will facilitate the proposed development. It is considered reasonable that the developer should contribute towards the cost of providing the services.

05 That the colour of the proposed metal cladding and corrugated asbestos shall harmonise with that of the roof of the existing premises and shall be agreed with the Planning Authority before development commences.
REASON: In the interest of visual amenity.

06 That the water supply and drainage arrangements, including the disposal of surface water, be in accordance with the requirements of the County Council.
REASON: In order to comply with the Sanitary Services Acts, 1878-1964.

7. That off street car parking be provided in accordance with the requirements of the Dublin County Development Plan, 1983.
Reason: In the interest of the proper planning & development of the area.

COMHAIRLE CHONTAE ÁTHA CLIATH

Record of Executive Business and Manager's Orders

Reg.Ref: 91A/1304

Page No: 0004

Location: Ballymount Road, Walkinstown

Endorsed:-.....
for Principal officer

.....
for Dublin Planning officer

Order: A decision pursuant to Section 26(1) of the Local Government (Planning and Development) Acts, 1963-1990 to GRANT PERMISSION for the above proposal subject to the (7) conditions set out above is hereby made.

Dated : 3/10/91 .....
~~ASSISTANT CITY & COUNTY MANAGER~~ Approved Officer

to whom the appropriate powers have been delegated by order of the Dublin City and County Manager dated 4 ~~September, 1991.~~

Register Reference : 91A-1304 Date : 13/8/91

Development : Single Storage area + extend Bldgs.

LOCATION : Ballymount Rd, Clondalkin

Applicant : Smurfit

App. Type : (P)

Planning officer : N. O'Byrne

Date Recd. : 7/8/91.

Attached is a copy of the application for the above development .Your report would be appreciated within the next 28 days.

Yours faithfully,

cc Paul Dolan

PRINCIPAL OFFICER

The proposal is acceptable subject to

1. Compliance with the Safety in Industries Act 1955/80
2. Compliance with the Health, Safety + Welfare at Work Act 1989.

DUBLIN COUNTY CO.
16 AUG 1991
ENVIRONMENTAL HEALTH

PLANNING DEPT.
DEVELOPMENT CONTROL SECT
Date 26.8.91
Time 4.15

for Ita Devine
John O'Reilly
SUPER.ENVIRON. HEALTH OFFICER,
33 GARDINER PLACE,
DUBLIN 1.

21/8/91

N.O.B.

Register Reference : 91A-1304 Date : 13/8/91

Development : Single S storage area + extend Bldgs.

LOCATION : Badgemount Rd, Clondalkin

Applicant : Smurfit

App. Type : (P)

Planning officer : N o' Byrne

Date Recd. : 7/8/91.

Attached is a copy of the application for the above development .Your report would be appreciated within the next 28 days.

Yours faithfully,

cc Paul Dolan

PRINCIPAL OFFICER

The proposal is acceptable subject to

(1) Compliance with the Safety, Industries act 1955/80

DUBLIN COUNTY CO.
16 AUG 1991
ENVIRONMENTAL HEALTH

(2) Compliance with the Health, Safety + Welfare at Work Act 1989.

PLANNING DEPT.
DEVELOPMENT CONTROL SECT
Date 26.08.91
Time 10.30

for Ita Devine
John O' Reilly
SUPER. ENVIRON. HEALTH OFFICER,
33 GARDINER PLACE,
DUBLIN 1.

21/8/91