Precast Slabs

PRECAST FLOOR AND ROOF SYSTEMS

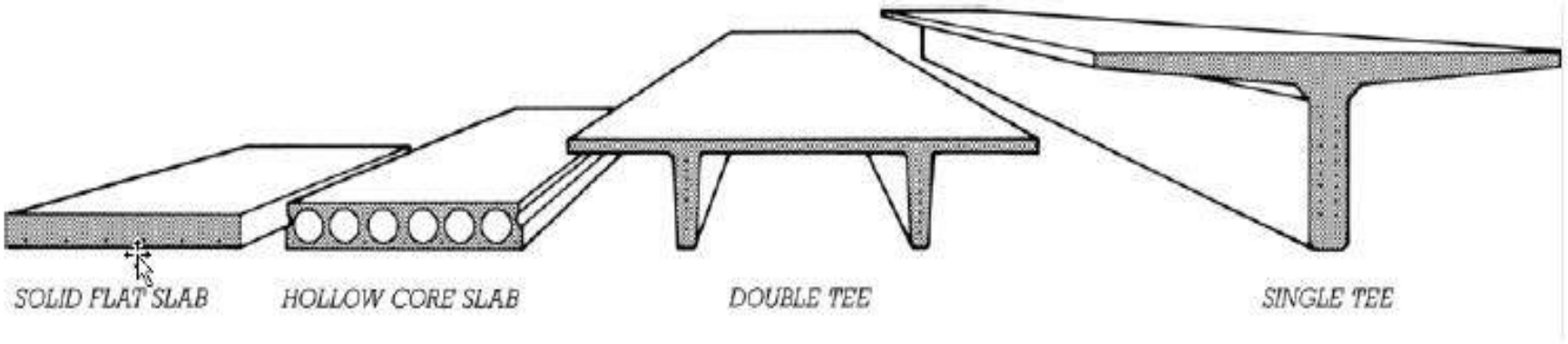
Types of precast units for floor and roof systems include:

solid or ribbed slabs, hollow-core slabs, single and double tees, rectangular beams, L-shaped beams, inverted-T-beams, and I-beams.

Hollow-core slabs are usually available in normal-weight or structural lightweight concrete. Units range from 0.4 to 1.2 m. in width, and from 10 to 30 cm. in depth.

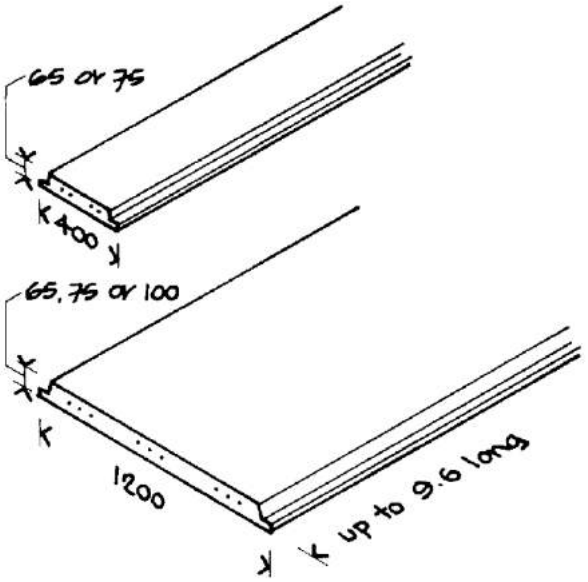
Long-span, precast-concrete floor and roof units are usually prestressed. Short members, 9 more less, are often made with ordinary reinforcement.

1.1 Precast Slabs

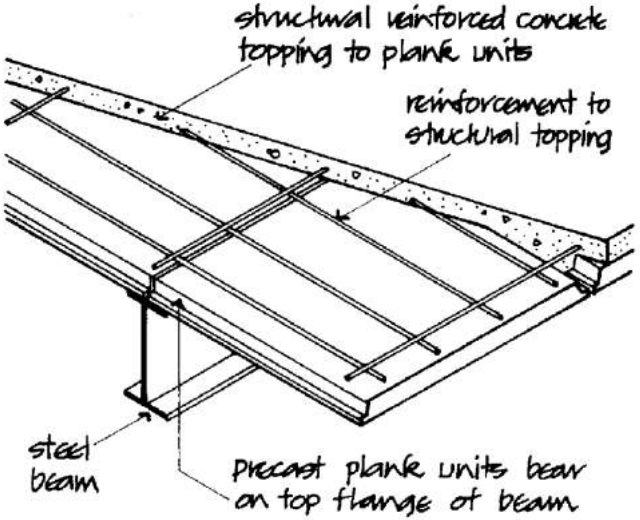


Precast concrete plank floor units

These comparatively thin, prestressed solid plank, concrete floor units are designed as permanent shuttering and for composite action with structural reinforced concrete topping, as illustrated in Fig. 112. The units are 400 or 1200 wide, 65, 75 or 100 thick and up to 9½ metres long for floors and 10 metres for roofs. It may be necessary to provide some temporary propping to the underside of these planks until the concrete topping has gained sufficient strength.



Precast prestressed solid plank floor units

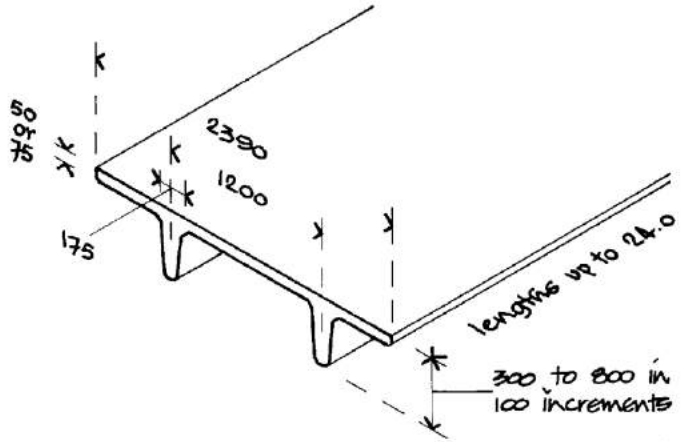


Precast plank floor units for composite construction floor

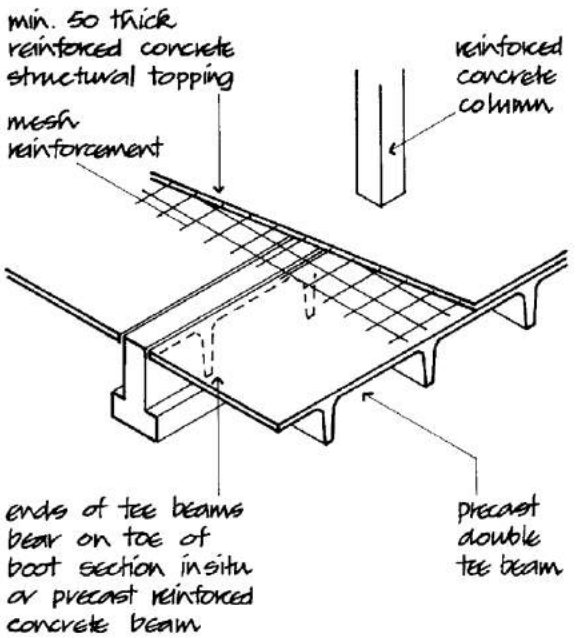
Fig. 112

Precast concrete tee beams

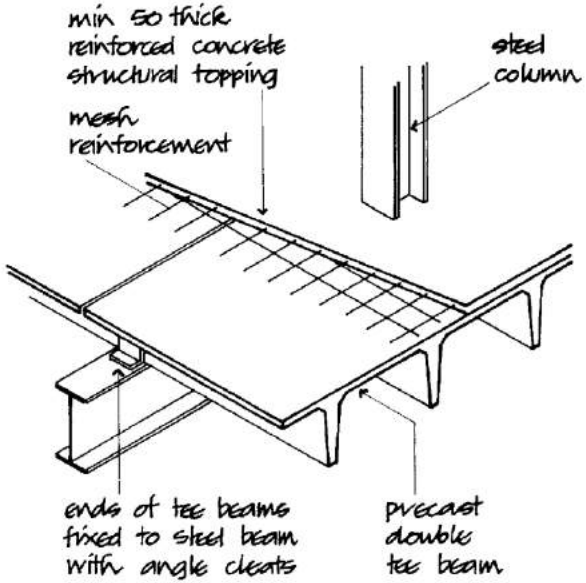
Precast prestressed concrete tee beam floors are mostly used for long span floors in such buildings as stores, supermarkets, swimming pools and multi-storey car parks where there is a need for wide span floors and the depth of this type of floor is not a disadvantage. The floor units are cast in the form of a double tee, as illustrated in Fig. 113. The strength of these units is in the depth of the ribs which support and act with the comparatively thin top web. A structural reinforced concrete topping is cast on top of the floor units.



Precast prestressed reinforced concrete double tee beam



Double tee beam bearing on double boot concrete beam



Double toe beam bearing on top flange of steel beam

Precast prestressed concrete double tee beam

Fig. 113

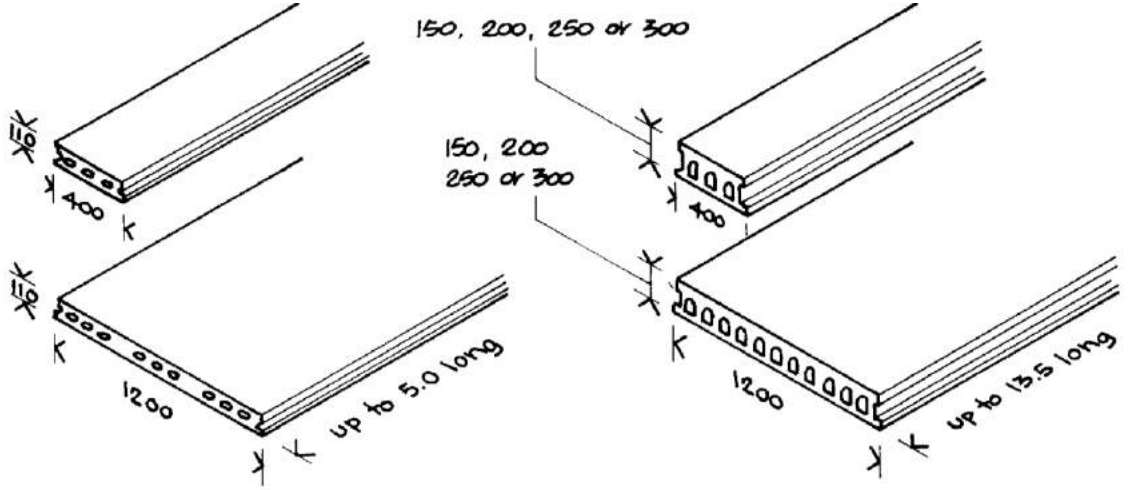

ARKING
2 HOUR PARKIN
2 HOUR PARKING

Precast hollow floor units

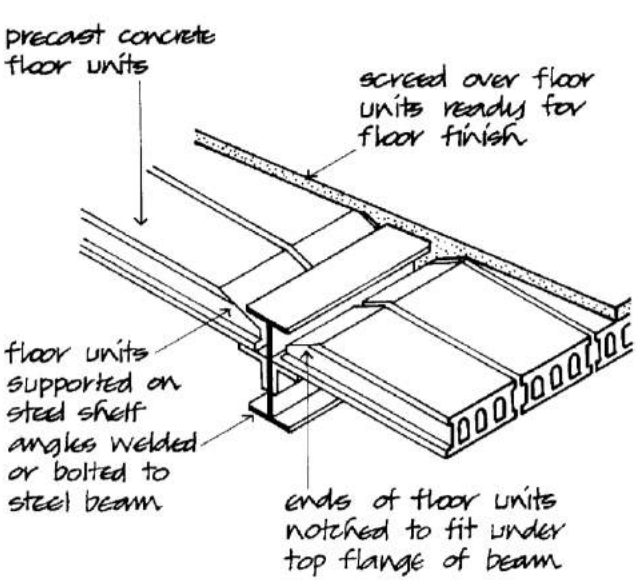
These large precast reinforced concrete, hollow floor units are usually 400 or 1200 wide, 110, 150, 200, 250 or 300 thick and up to ten metres long for floors and thirteen and a half metres long for roofs. The purpose of the voids or hollows in the floor units is to reduce dead weight without affecting strength. The reinforcement is cast into the webs between hollows.

The hollow floor units can be used by themselves as floor slab with a floor screed or they may be used with a structural reinforced concrete topping with tie bars over beams for composite action with the beams. End bearing of these units is a minimum of 75 on steel and concrete beams and 100 on masonry and brick walls. Figure 111 is an illustration of precast hollow floor units.

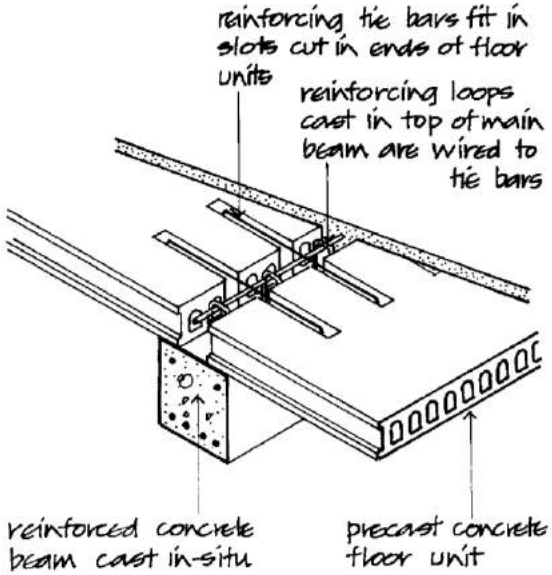
Hollow-core slabs manufacturers should be consulted for load and span data because camber and deflection often control the serviceability of such units, regardless of strength.



Precast concrete floor units



Precast concrete floor units supported by shelf angles and steel beam



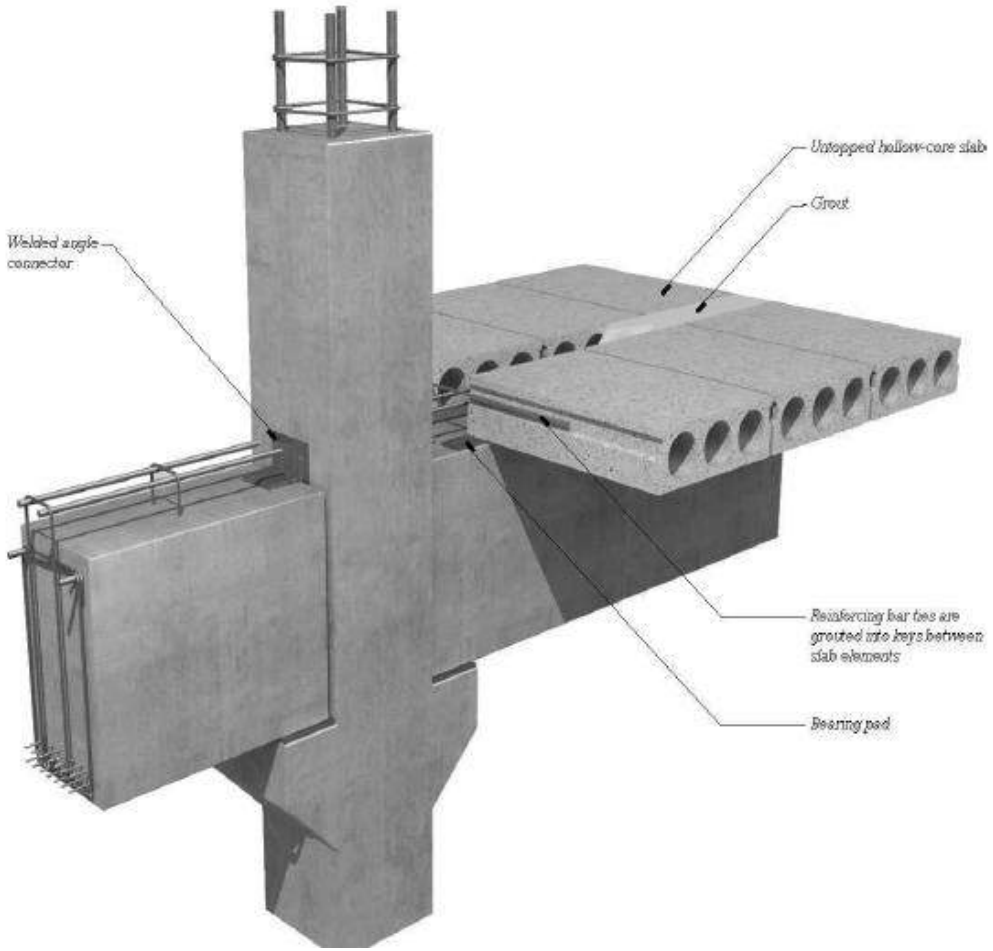
Precast concrete floor units bearing on reinforced concrete beam

Hollow precast reinforced concrete floor units

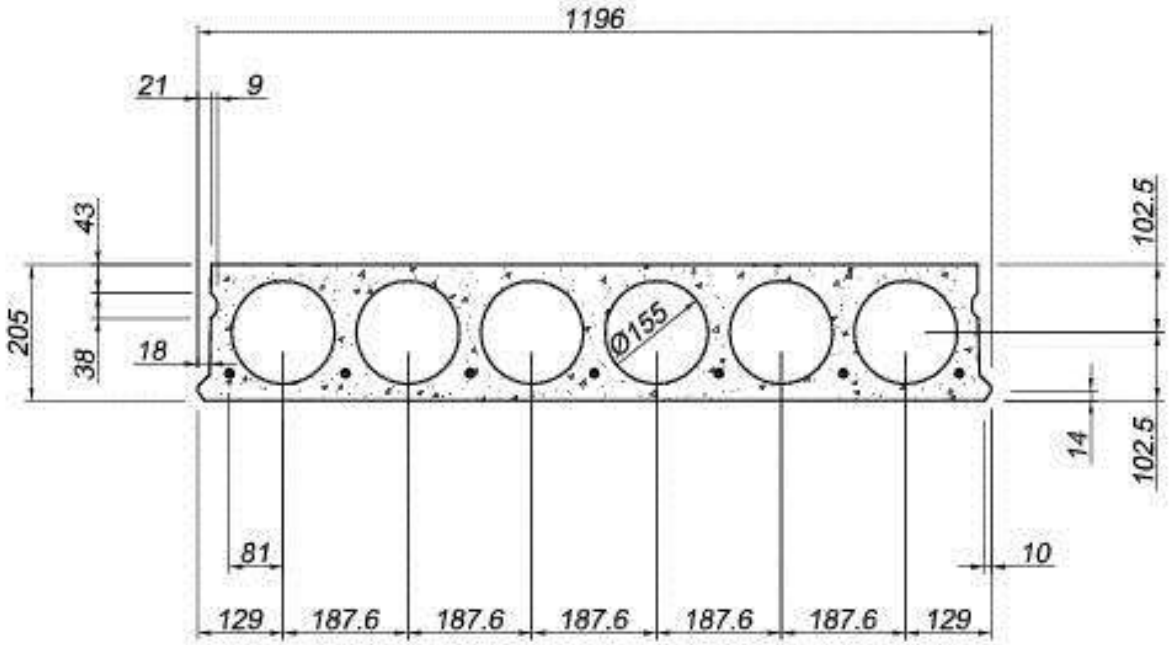
Fig. 111

Technical specification ,sections and connections of

Precast hollow-core slab units



Standards Sections



Slab Code:	Slab Thickness:
HCS6-205	205 mm
Design Width:	Actual Width:
1200 mm	1196 mm
Number of Cores:	Diameter of Cores:
6	155 mm
Number of Bottom Strands:	Number of Top Strands:
4 - 7	0 - 5
Concrete Grade (Zero Slump):	Prestress (12.7ø Strand):
50 MPa	500 - 1000 MPa
Cover to Strand:	Fire Rating:
35 mm	1 ½ Hours
Self Weight of Slab:	Self Weight (Incl. 60mm Screed)
260 kg/m²	426 kg/m²
Cross Sectional Area:	Moment of Inertia (I_{xx}):
124.5×10^3 mm²	666.8×10^6 mm⁴
Distance to N.A. (Y_b):	Distance to N.A. (Y_t):
101.491 mm	103.510 mm
Section Modulus (Z_b):	Section Modulus (Z_t):
6.570×10^6 mm³	6.442×10^6 mm³

HOLLOW CORE CONCRETE PTY. LTD.
A.B.N. 22 005 095 409
Structural Precast Components
12-14 Maria Street
Laverton North
Victoria 3026
Tel. (03) 9369 4944 Fax. (03) 9369 2025
Email: info@hollowcore.com.au
www.hollowcore.com.au

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205 Thick 6 Core HC Slab

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Job No. | Drawing No. | Revision

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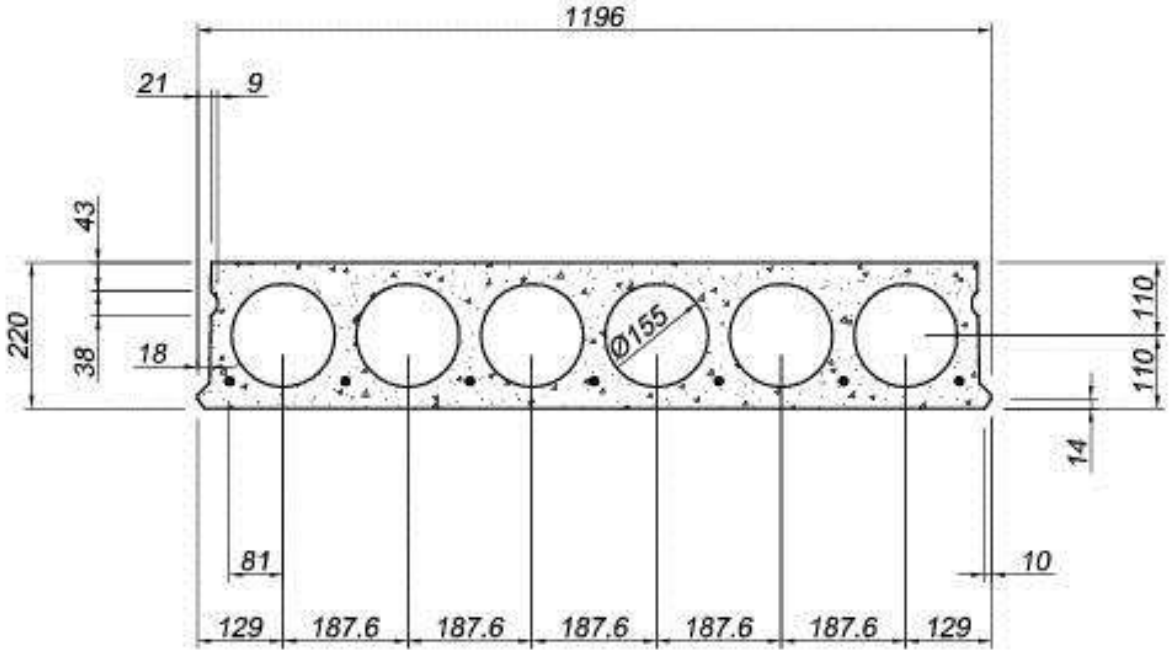

Slab Code:	Slab Thickness:
HCS6-220	220 mm
Design Width:	Actual Width:
1200 mm	1196 mm
Number of Cores:	Diameter of Cores:
6	155 mm
Number of Bottom Strands:	Number of Top Strands:
4 - 7	0 - 5
Concrete Grade (Zero Slump):	Prestress (12.7ø Strand):
50 MPa	500 - 1000 MPa
Cover to Strand:	Fire Rating:
35 - 40 mm	1½ - 2 Hours
Self Weight of Slab:	Self Weight (incl. 60mm Screed)
297 kg/m²	464 kg/m²
Cross Sectional Area:	Moment of Inertia (I_{xx}):
141.8×10^3 mm²	863.8×10^6 mm⁴
Distance to N.A. (Y_b):	Distance to N.A. (Y_t):
109.016 mm	110.985 mm
Section Modulus (Z_b):	Section Modulus (Z_t):
7.923×10^6 mm³	7.783×10^6 mm³

HOLLOW CORE CONCRETE PTY. LTD.
A.B.N. 22 005 896 409
Structural Precast Components
92-14 Maria Street
Laverton North
Victoria 3026
Tel. (03) 9369 4944 Fax. (03) 9369 2025
Email: info@hollowcore.com.au
www.hollowcore.com.au

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220 Thick 6 Core HC Slab

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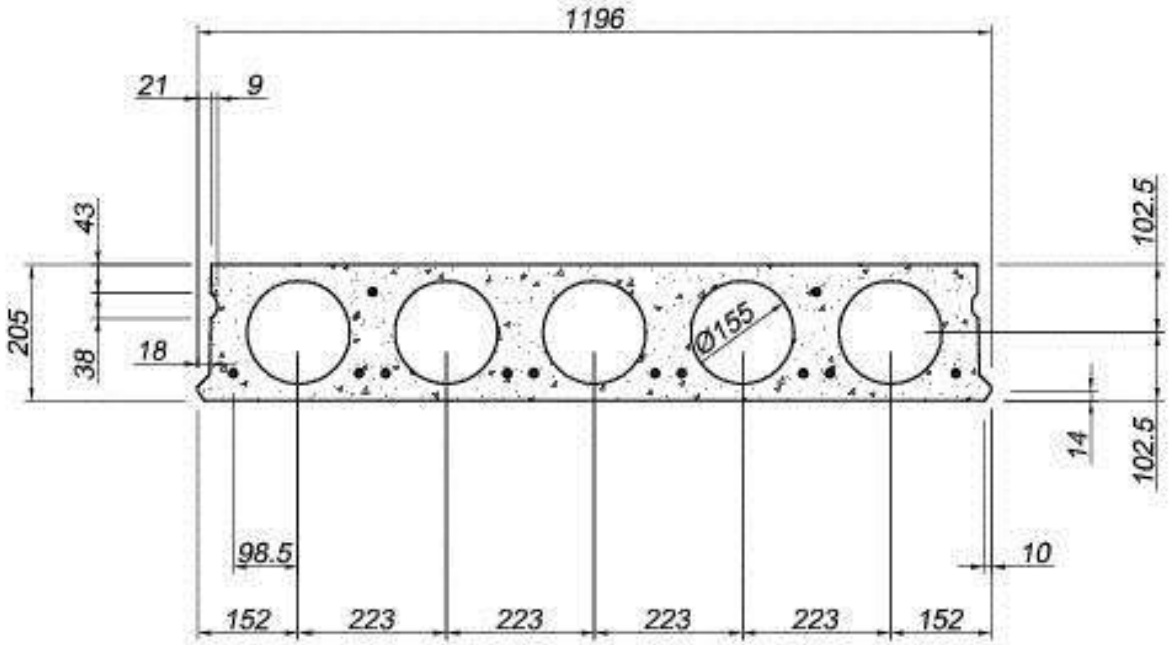

Slab Code:	Slab Thickness:
HCS5-205	205 mm
Design Width:	Actual Width:
1200 mm	1196 mm
Number of Cores:	Diameter of Cores:
5	155 mm
Number of Bottom Strands:	Number of Top Strands:
6 - 10	0 - 4
Concrete Grade (Zero Slump):	Prestress (12.7ø Strand):
50 MPa	500 - 1100 MPa
Cover to Strand:	Fire Rating:
35 -50 mm	1½ - 2 Hours
Self Weight of Slab:	Self Weight (incl. 60mm Screed)
300 kg/m²	466 kg/m²
Cross Sectional Area:	Moment of Inertia (I_{xx}):
143.4×10^3 mm²	695.2×10^6 mm⁴
Distance to N.A. (Y_b):	Distance to N.A. (Y_t):
101.623 mm	103.377 mm
Section Modulus (Z_b):	Section Modulus (Z_t):
6.841×10^6 mm³	6.725×10^6 mm³

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A.B.N. 22 005 095 409
Structural Precast Components
92-14 Maria Street
Laverton North
Victoria 3026
Tel. (03) 9369 4944 Fax. (03) 9369 2025
Email: info@hollowcore.com.au
www.hollowcore.com.au

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205 Thick 5 Core HC Slab

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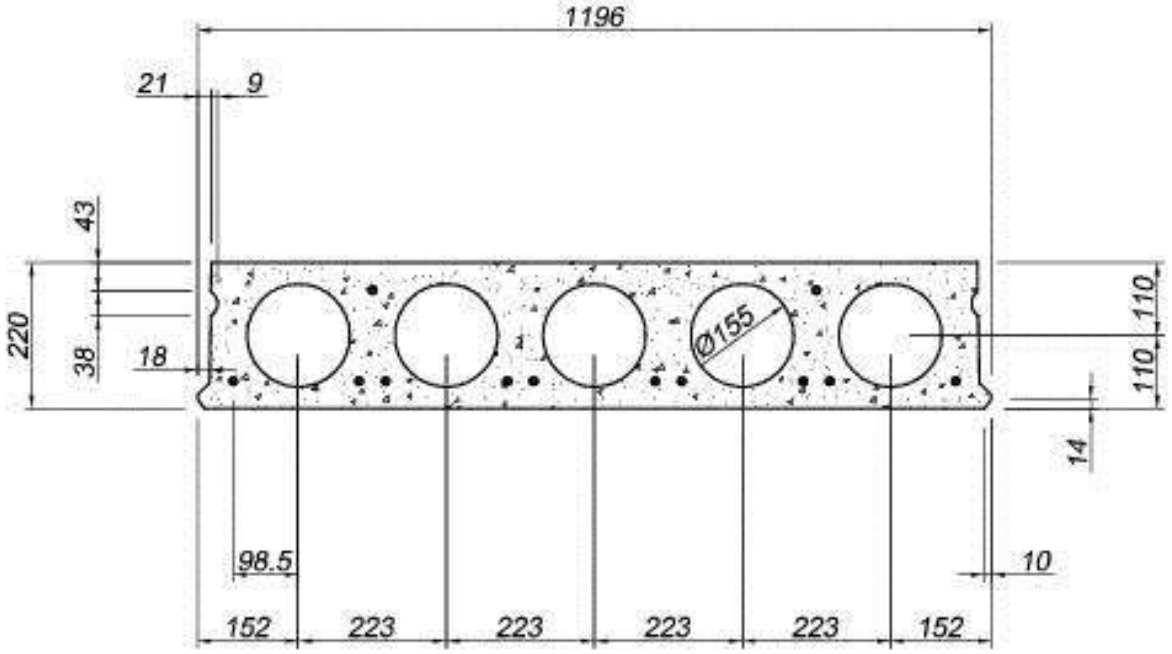

Slab Code:	Slab Thickness:
HCS5-220	220 mm
Design Width:	Actual Width:
1200 mm	1196 mm
Number of Cores:	Diameter of Cores:
5	155 mm
Number of Bottom Strands:	Number of Top Strands:
6 - 10	0 - 4
Concrete Grade (Zero Slump):	Prestress (12.7ø Strand):
50 MPa	500 - 1200 MPa
Cover to Strand:	Fire Rating:
35 -50 mm	1½ - 3 Hours
Self Weight of Slab:	Self Weight (Incl. 60mm Screed)
336 kg/m²	503 kg/m²
Cross Sectional Area:	Moment of Inertia (I_{xx}):
160.7×10^3 mm²	892.1×10^6 mm⁴
Distance to N.A. (Y_b):	Distance to N.A. (Y_t):
109.131 mm	110.869 mm
Section Modulus (Z_b):	Section Modulus (Z_t):
8.175×10^4 mm³	8.047×10^4 mm³

HOLLOW CORE CONCRETE PTY. LTD.
A.B.N. 22 005 095 459
Structural Precast Components
12-14 Maria Street
Laverton North
Victoria 3026
Tel. (03) 9369 4944 Fax. (03) 9369 2025
Email: info@hollowcore.com.au
www.hollowcore.com.au

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220 Thick 5 Core HC Slab

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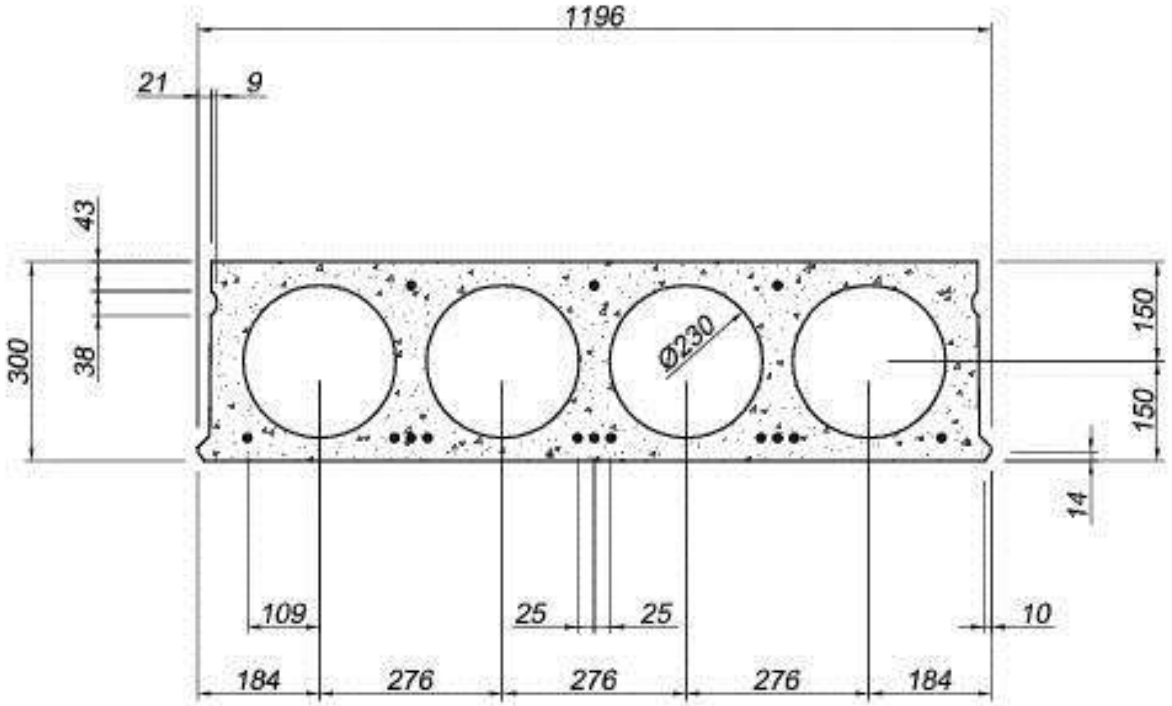

Slab Code:	Slab Thickness:
HCS4-300	300 mm
Design Width:	Actual Width:
1200 mm	1196 mm
Number of Cores:	Diameter of Cores:
4	230 mm
Number of Bottom Strands:	Number of Top Strands:
5 - 11	0 - 3
Concrete Grade (Zero Slump):	Prestress (12.7ø Strand):
50 MPa	500 - 1200 MPa
Cover to Strand:	Fire Rating:
35 -50 mm	1½ - 4 Hours
Self Weight of Slab:	Self Weight (Incl. 60mm Screed)
380 kg/m²	554 kg/m²
Cross Sectional Area:	Moment of Inertia (I_{xx}):
$181.5x10^3$ mm²	$2067.2x10^6$ mm⁴
Distance to N.A. (Y_b):	Distance to N.A. (Y_t):
148.809 mm	151.191 mm
Section Modulus (Z_b):	Section Modulus (Z_t):
$13.891x10^6$ mm³	$13.673x10^6$ mm³

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A.B.N. 22 005 095 409
Structural Precast Components
12-14 Maria Street
Laverton North
Victoria 3026
Tel. (03) 9369 4944 Fax. (03) 9369 2025
Email: info@hollowcore.com.au
www.hollowcore.com.au

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300 Thick 4 Core HC Slab

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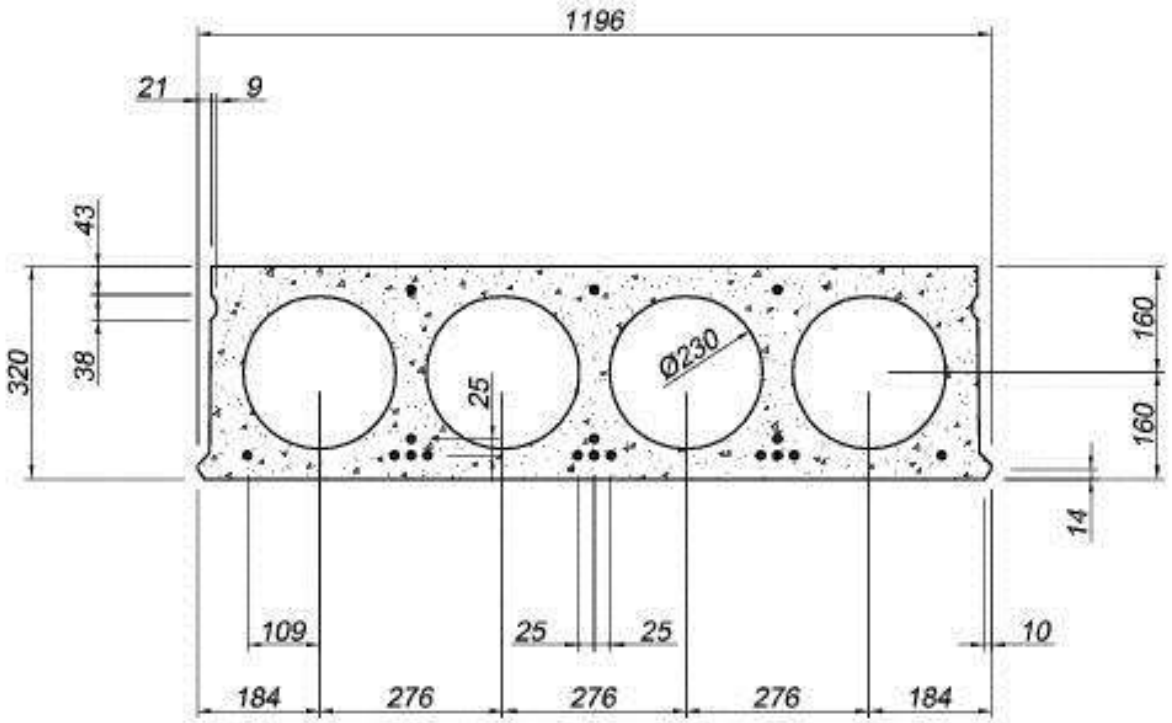

Slab Code:	Slab Thickness:
HCS4-320	320 mm
Design Width:	Actual Width:
1200 mm	1196 mm
Number of Cores:	Diameter of Cores:
4	230 mm
Number of Bottom Strands:	Number of Top Strands:
5 - 14	0 - 3
Concrete Grade (Zero Slump):	Prestress (12.7ø Strand):
50 MPa	500 - 1200 MPa
Cover to Strand:	Fire Rating:
35 -50 mm	1½ - 4 Hours
Self Weight of Slab:	Self Weight (Incl. 60mm Screed)
428 kg/m²	603 kg/m²
Cross Sectional Area:	Moment of Inertia (I_{xx}):
$204.6x10^3$ mm²	$2625.1x10^6$ mm⁴
Distance to N.A. (Y_b):	Distance to N.A. (Y_t):
158.843 mm	161.157 mm
Section Modulus (Z_b):	Section Modulus (Z_t):
$16.526x10^6$ mm³	$16.289x10^6$ mm³

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A.B.N. 22 005 095 409
Structural Precast Components
12-14 Maria Street
Laverton North
Victoria 3026
Tel. (03) 9369 4944 Fax. (03) 9369 2025
Email: info@hollowcore.com.au
www.hollowcore.com.au

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320 Thick 4 Core HC Slab

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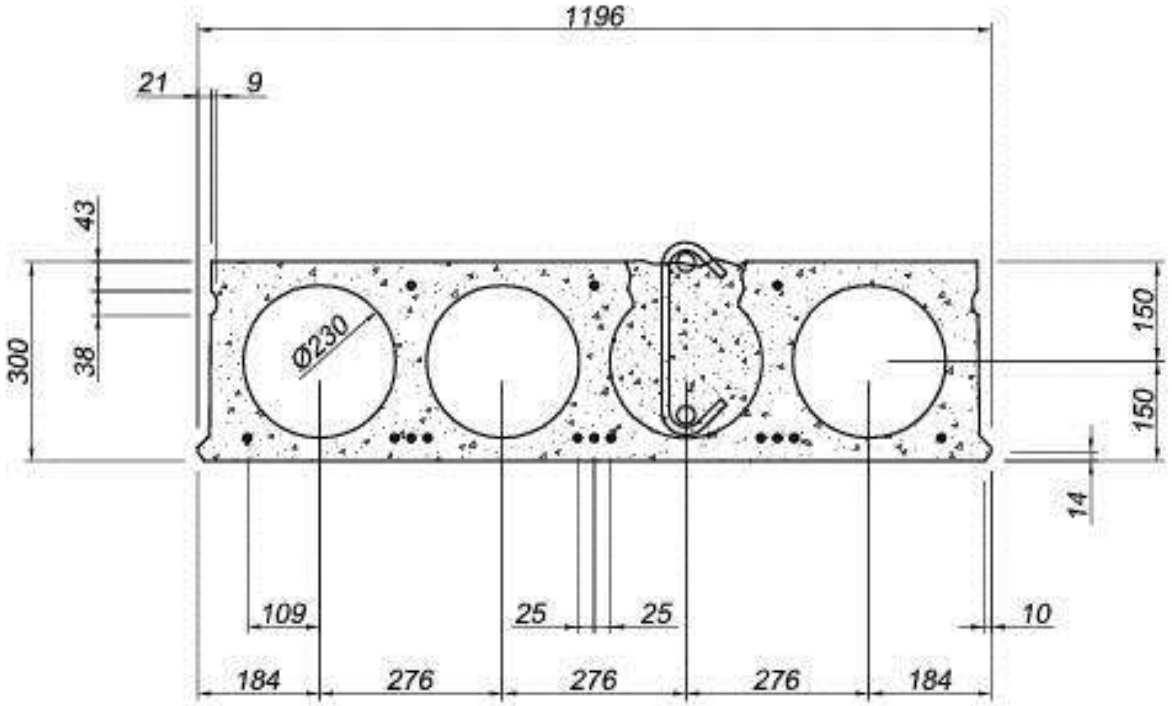

Slab Code:	Slab Thickness:
HCS3-300	300 mm
Design Width:	Actual Width:
1200 mm	1196 mm
Number of Cores:	Diameter of Cores:
3	230 mm
Number of Bottom Strands:	Number of Top Strands:
5 - 11	0 - 3
Concrete Grade (Zero Slump):	Prestress (12.7ø Strand):
50 MPa	500 - 1200 MPa
Cover to Strand:	Fire Rating:
35 -50 mm	1½ - 4 Hours
Self Weight of Slab:	Self Weight (Incl. 60mm Screed)
466 kg/m²	640 kg/m²
Cross Sectional Area:	Moment of Inertia (I_{xx}):
223.0×10^3 mm²	2204.6×10^6 mm⁴
Distance to N.A. (Y_b):	Distance to N.A. (Y_t):
149.031 mm	150.969 mm
Section Modulus (Z_b):	Section Modulus (Z_t):
14.793×10^6 mm³	14.603×10^6 mm³

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A.B.N. 22 005 696 409
Structural Precast Components
92-14 Maria Street
Laverton North
Victoria 3026
Tel. (03) 9369 4944 Fax. (03) 9369 2025
Email: info@hollowcore.com.au
www.hollowcore.com.au

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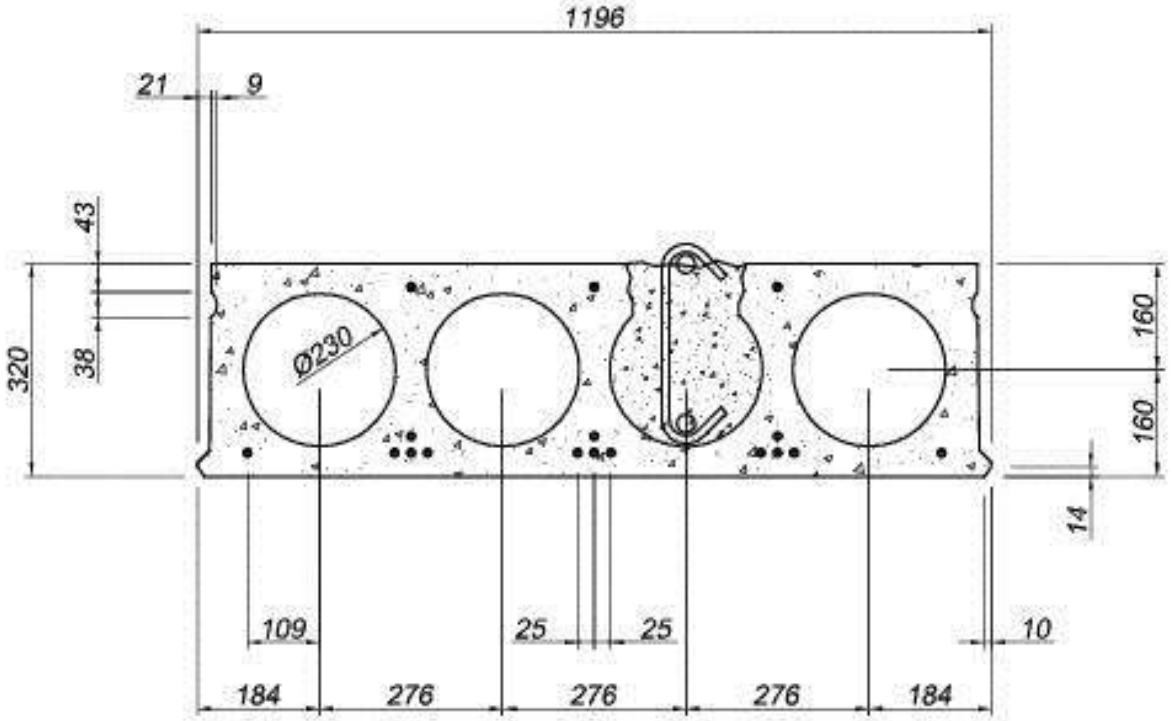

Slab Code:	Slab Thickness:
HCS3-320	320 mm
Design Width:	Actual Width:
1200 mm	1196 mm
Number of Cores:	Diameter of Cores:
3	230 mm
Number of Bottom Strands:	Number of Top Strands:
5 - 14	0 - 3
Concrete Grade (Zero Slump):	Prestress (12.7ø Strand):
50 MPa	500 - 1200 MPa
Cover to Strand:	Fire Rating:
35 -50 mm	1½ - 4 Hours
Self Weight of Slab:	Self Weight (Incl. 60mm Screed)
515 kg/m²	690 kg/m²
Cross Sectional Area:	Moment of Inertia (I_{xx}):
$246.2x10^3$ mm²	$2762.5x10^6$ mm⁴
Distance to N.A. (Y_b):	Distance to N.A. (Y_t):
159.038 mm	160.962 mm
Section Modulus (Z_b):	Section Modulus (Z_t):
$17.370x10^6$ mm³	$17.162x10^6$ mm³

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A.B.N. 22 005 896 458
Structural Precast Components
92-14 Maria Street
Laverton North
Victoria 3026
Tel. (03) 9369 4944 Fax. (03) 9369 2025
Email: info@hollowcore.com.au
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320 Thick 3 Core HC Slab

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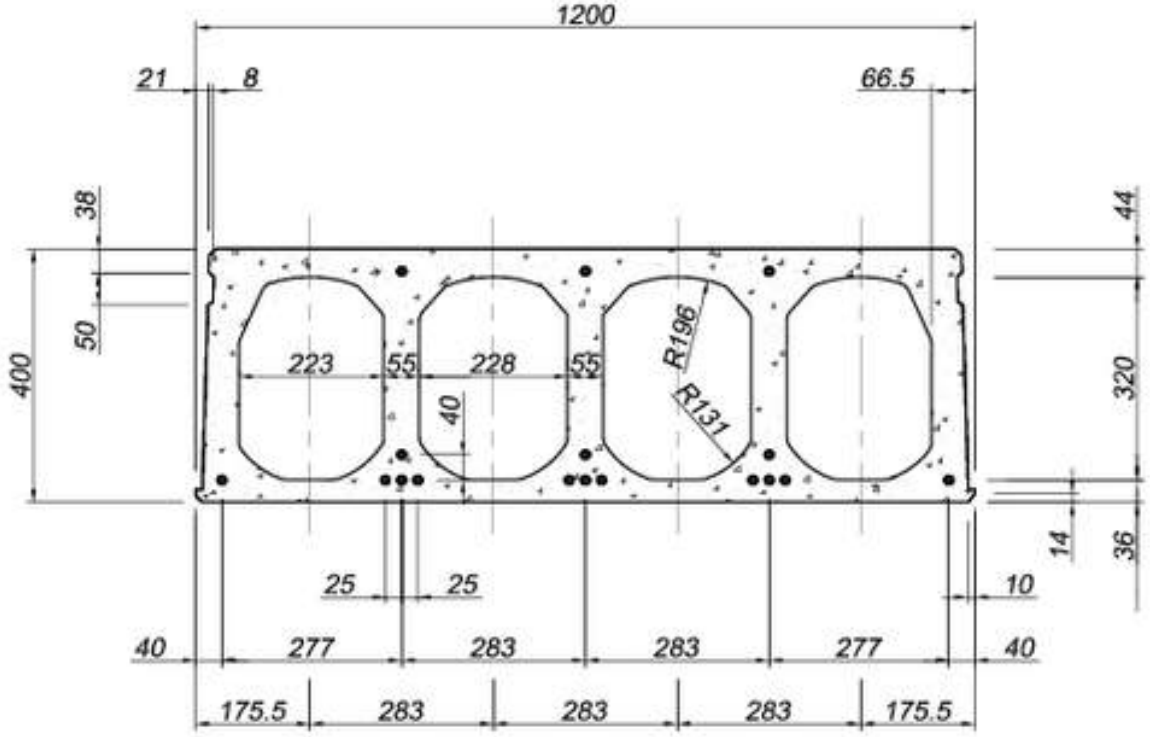

Slab Code:	Slab Thickness:
HCS4-400	400 mm
Design Width:	Actual Width:
1200 mm	1196 mm
Number of Cores:	Area of Cores:
4	$260.0x10^3$ mm^2
Number of Bottom Strands:	Number of Top Strands:
5 - 14	0 - 3
Concrete Grade (Zero Slump):	Prestress (12.7ø Strand):
50 MPa	500 - 1200 MPa
Cover to Strand:	Fire Rating:
35 -50 mm	1½ - 4 Hours
Self Weight of Slab:	Self Weight (Incl. 60mm Screed)
428 kg/m^2	608 kg/m^2
Cross Sectional Area:	Moment of Inertia (I_{xx}):
$207.3x10^3$ mm^2	$4324.4x10^6$ mm^4
Distance to N.A. (Y_b):	Distance to N.A. (Y_t):
204.952 mm	195.048 mm
Section Modulus (Z_b):	Section Modulus (Z_t):
$21.100x10^6$ mm^3	$22.171x10^6$ mm^3

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A.B.N. 22 006 505 469
Structural Precast Components
12-14 Maria Street
Laverton North
Victoria 3026
Tel. (03) 9369 4944 Fax. (03) 9369 2025
Email: info@hollowcore.com.au
www.hollowcore.com.au

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400 Thick 4 Core HC Slab

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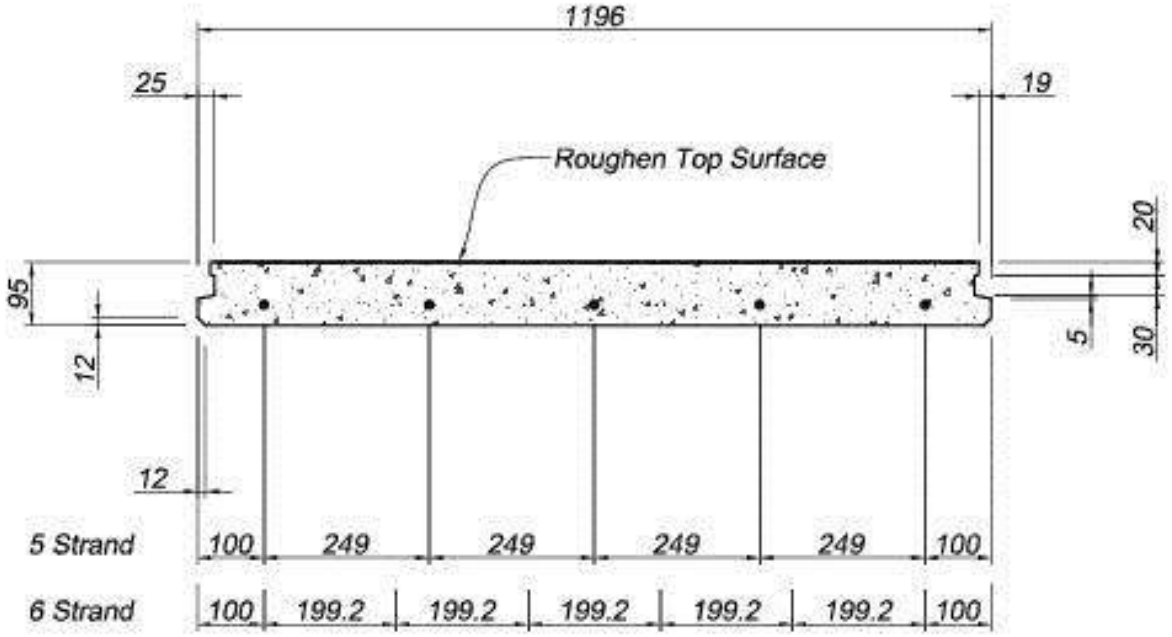

Slab Code:	Slab Thickness:
MS-95	95 mm
Design Width:	Actual Width:
1200 mm	1196 mm
Concrete Grade:	Strand Diameter:
50 MPa	12.7 ø mm
Number of Bottom Strands:	Prestress:
4 - 7	500 - 1200 MPa
Cover to Strand:	Fire Rating:
25 - 35 mm	1 - 1½ Hours
Self Weight of Slab:	Self Weight (incl. 60mm Screed)
232 kg/m²	375 kg/m²
Cross Sectional Area:	Moment of Inertia (I_{NA}):
$111.1x10^3$ mm²	$83.71x10^6$ mm⁴
Distance to N.A. (Y_b):	Distance to N.A. (Y_t):
47.134 mm	47.866 mm
Section Modulus (Z_b):	Section Modulus (Z_t):
$1.776x10^3$ mm³	$1.749x10^3$ mm³

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A.B.N. 22 005 096 459
Structural Precast Components
12-14 Maria Street
Laverton North
Victoria 3026
Tel. (03) 9369 4944 Fax. (03) 9369 2025
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95 Thick Mini Slab

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Scale: Date:

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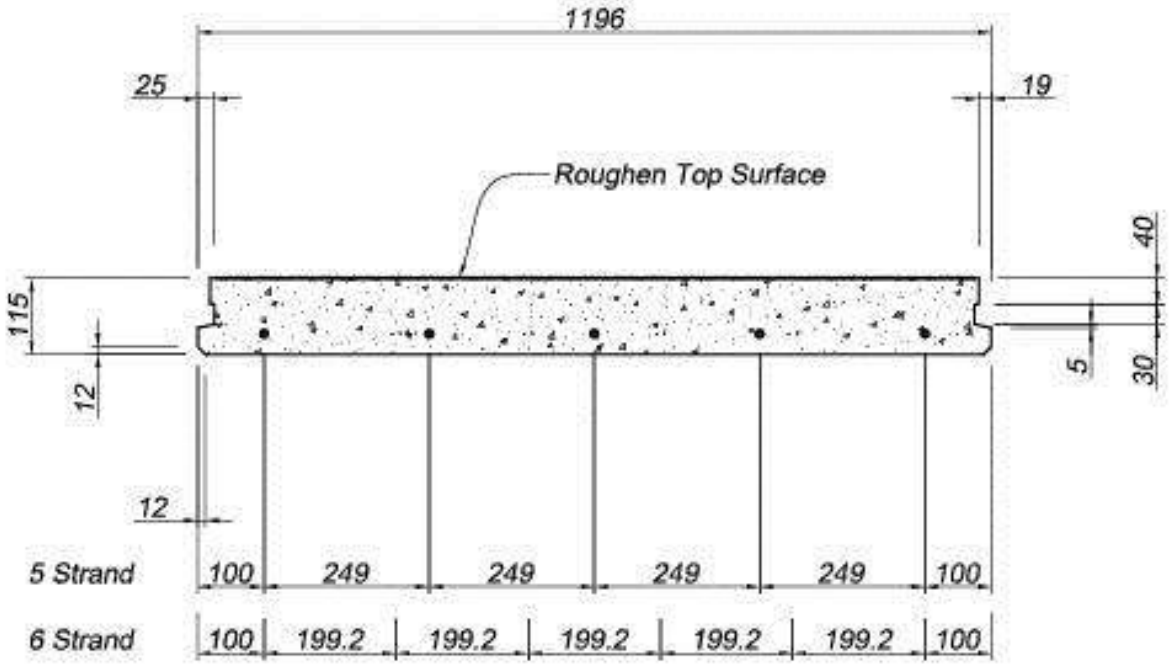


Slab Code:	Slab Thickness:
MS-115	115 mm
Design Width:	Actual Width:
1200 mm	1196 mm
Concrete Grade:	Strand Diameter:
50 MPa	12.7 ø mm
Number of Bottom Strands:	Prestress:
4 - 7	500 - 1200 MPa
Cover to Strand:	Fire Rating:
25 - 45 mm	1 - 2 Hours
Self Weight of Slab:	Self Weight (incl. 60mm Screed)
281 kg/m^2	425 kg/m^2
Cross Sectional Area:	Moment of Inertia (I_{xx}):
134.2x10^3 mm^2	148.7x10^6 mm^4
Distance to N.A. (Y_b):	Distance to N.A. (Y_t):
57.117 mm	57.883 mm
Section Modulus (Z_b):	Section Modulus (Z_t):
2.603x10^6 mm^3	2.568x10^6 mm^3

HOLLOW CORE CONCRETE PTY. LTD.
A.B.N. 22 005 886 409
Structural Precast Components
92-14 Maria Street
Laverton North
Victoria 3026
Tel. (03) 9369 4944 Fax. (03) 9369 2025
Email: info@hollowcore.com.au
www.hollowcore.com.au

Project

Client

Title

115 Thick Mini Slab

Drawn By | Checked By

Scale | Date

Job No. | Drawing No. | Revision

3.04

Comments / Notes:

Units Span Specifications

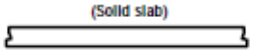
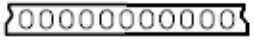
LOAD SPAN TABLES

Coltman Hollow Core Slabs

These tables are for guidance purposes only. Where deflections natural frequency etc require consideration please contact our Technical Department.
(The design includes for self weight and an allowance of 1.75 Kn/m² for finishes, but does not include for any partition allowance or the effect of any service holes)

Maximum Permissible Spans In Metres

Live Loading (Kn/m²)

Unit Cross Section Depth - Self Weight	0.75	1.50	2.00	2.50	3.00	3.50	4.00	5.00	7.50	10.00	12.50	15.00
 (Solid slab) 100mm Deep - 2.36 Kn/m2	5.00	5.00	5.00	5.00	4.88	4.70	4.55	4.27	3.76	3.40	3.12	2.91
 150mm Deep - 2.35 Kn/m2	7.50	7.50	7.50	7.50	7.26	7.00	6.77	6.36	5.60	5.06	4.65	4.32
 (Sound slab - 300 kg/m2) 150mm Deep - 2.94 Kn/m2	7.50	7.50	7.50	7.35	7.08	6.85	6.63	6.26	5.54	5.03	4.63	4.32
 200mm Deep - 2.94 Kn/m2	10.00	10.00	9.86	9.48	9.14	8.84	8.56	8.07	7.15	6.49	5.98	5.57
 250mm Deep - 3.66 Kn/m2	12.50	12.05	11.64	11.24	10.87	10.53	10.23	9.69	8.64	7.87	7.28	6.80

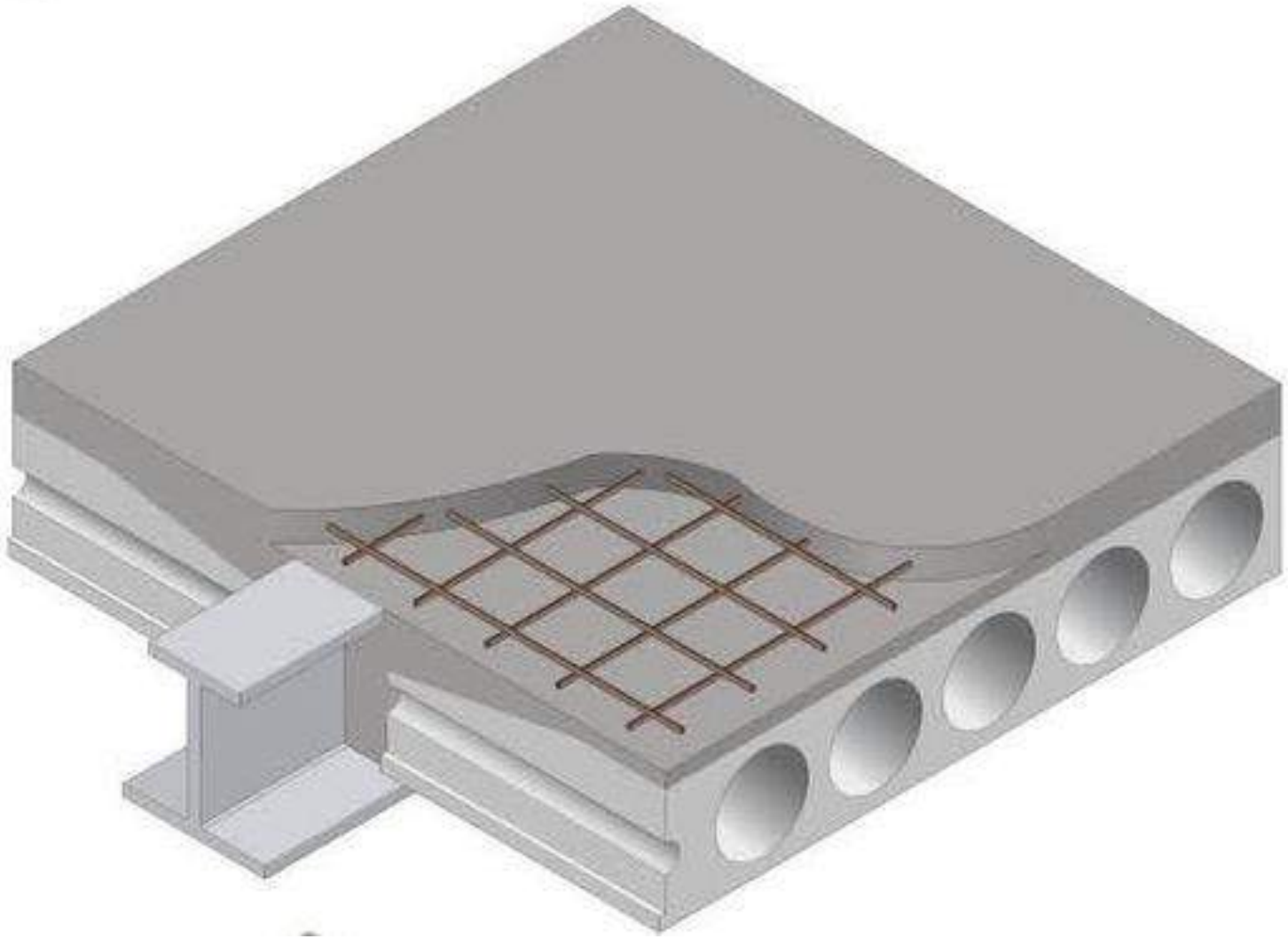
Maximum Permissible (Unpropped) Spans In Metres

Live Loading (Kn/m^2)

Depth of P.C unit (mm)	Depth of topping (mm)	Total Struct depth (mm)	Total self weight (Kn/m^2)	0.75	1.50	2.00	2.50	3.00	3.50	4.00	5.00	7.50	10.00	12.50	15.00
75	75	150	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.73	3.57	3.43
75	125	200	4.95	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.67	3.59
100	50	150	3.79	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	4.69	4.36	4.04	3.54
100	100	200	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	4.89	4.70	4.52	4.37
150	50	200	3.83	7.50	7.50	7.50	7.50	7.50	7.40	7.25	6.98	6.40	5.86	5.43	4.95
150	75	225	4.43	7.50	7.50	7.50	7.50	7.50	7.39	7.27	7.04	6.56	6.16	5.82	5.54
200	50	250	4.49	10.0	9.80	9.58	9.37	9.18	9.00	8.82	8.50	7.82	7.22	6.71	6.06
200	75	275	5.09	9.90	9.61	9.44	9.27	9.10	8.95	8.80	8.53	7.94	7.46	7.05	6.70
250	50	300	5.25	11.42	11.06	10.82	10.61	10.41	10.21	10.03	9.68	8.93	8.23	7.68	7.22
250	75	325	5.85	11.15	10.84	10.65	10.47	10.29	10.13	9.97	9.67	9.03	8.50	8.05	7.62

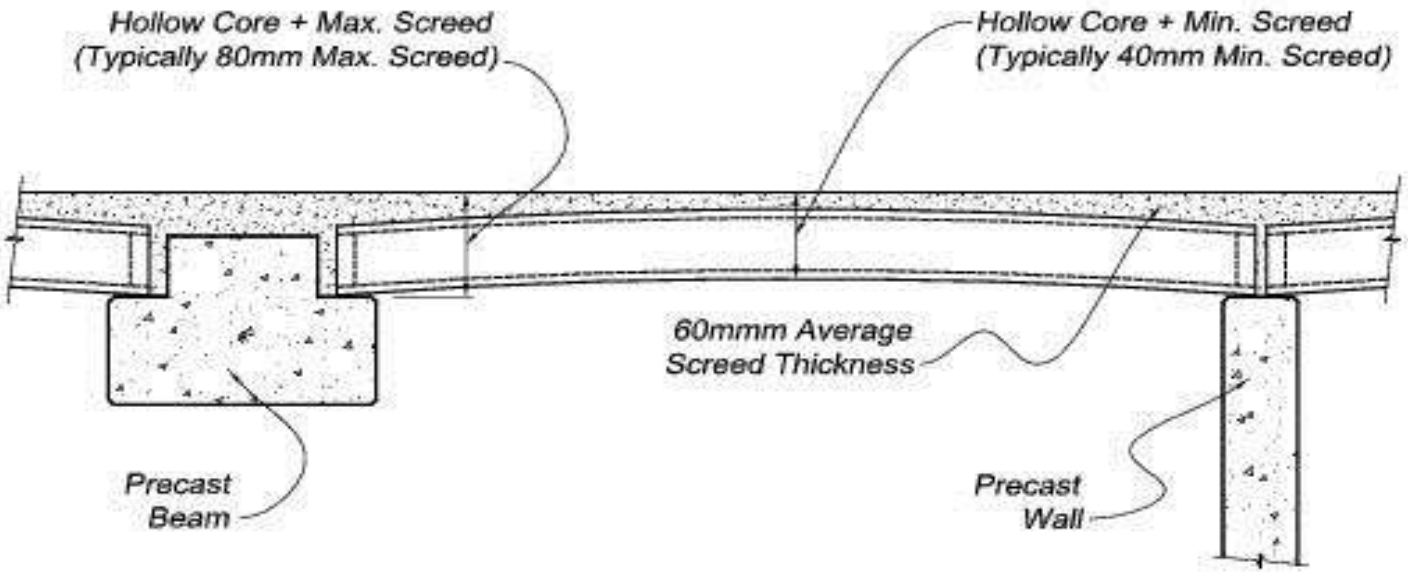
Partition loadings should be determined in accordance with clause 5.2.2.2 of BS 8110. Line loads should be converted to imposed blanket loads for preliminary design purposes. Minimum topping depths are taken at centre of span therefore due allowance should be made for camber when determining overall floor depth.

Screed construction



Screed

A non-structural sand and cement or grano screed is normally laid by the Principal Contractor over the floor (before plastering the soffit) to provide a level surface for finishes. A minimum screed thickness of 40mm is suggested, with due allowance being made for the camber of units. It is strongly recommended that a light two-way reinforcing fabric is incorporated in the screed. Anti-crack reinforcement in the screed should always be provided by the Principal Contractor over supporting beams and walls.



Screed Geometrey

(Not to Scale)

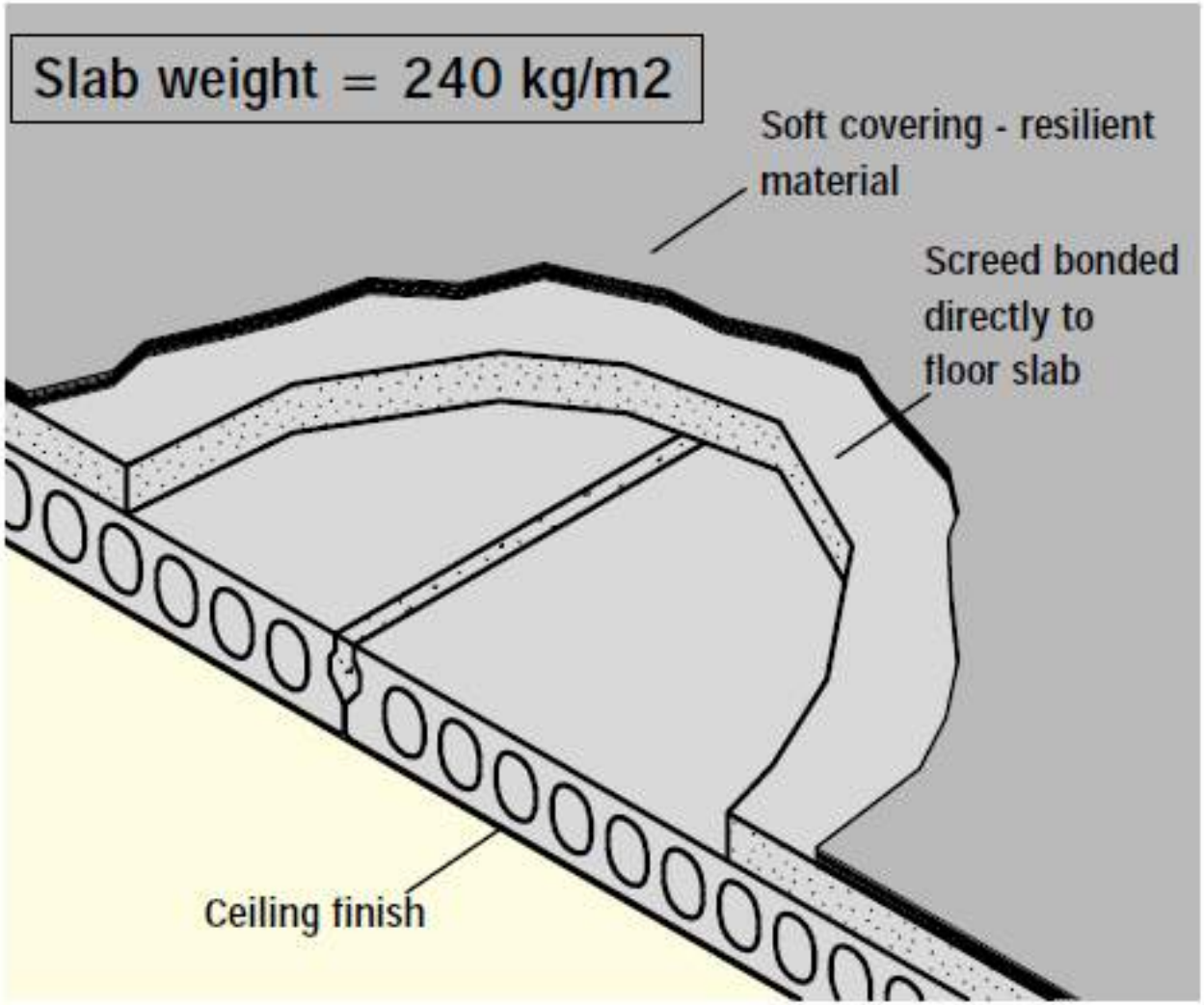
Note:

1. Screed Concrete to be low shrinkage mix and if necessary superplasticised to facilitate placing.

2. Provide construction joints or sawcut joints in screed at approximately 8000 maximum centers in each direction. Saw cuts to be performed within 18 hours of pouring.

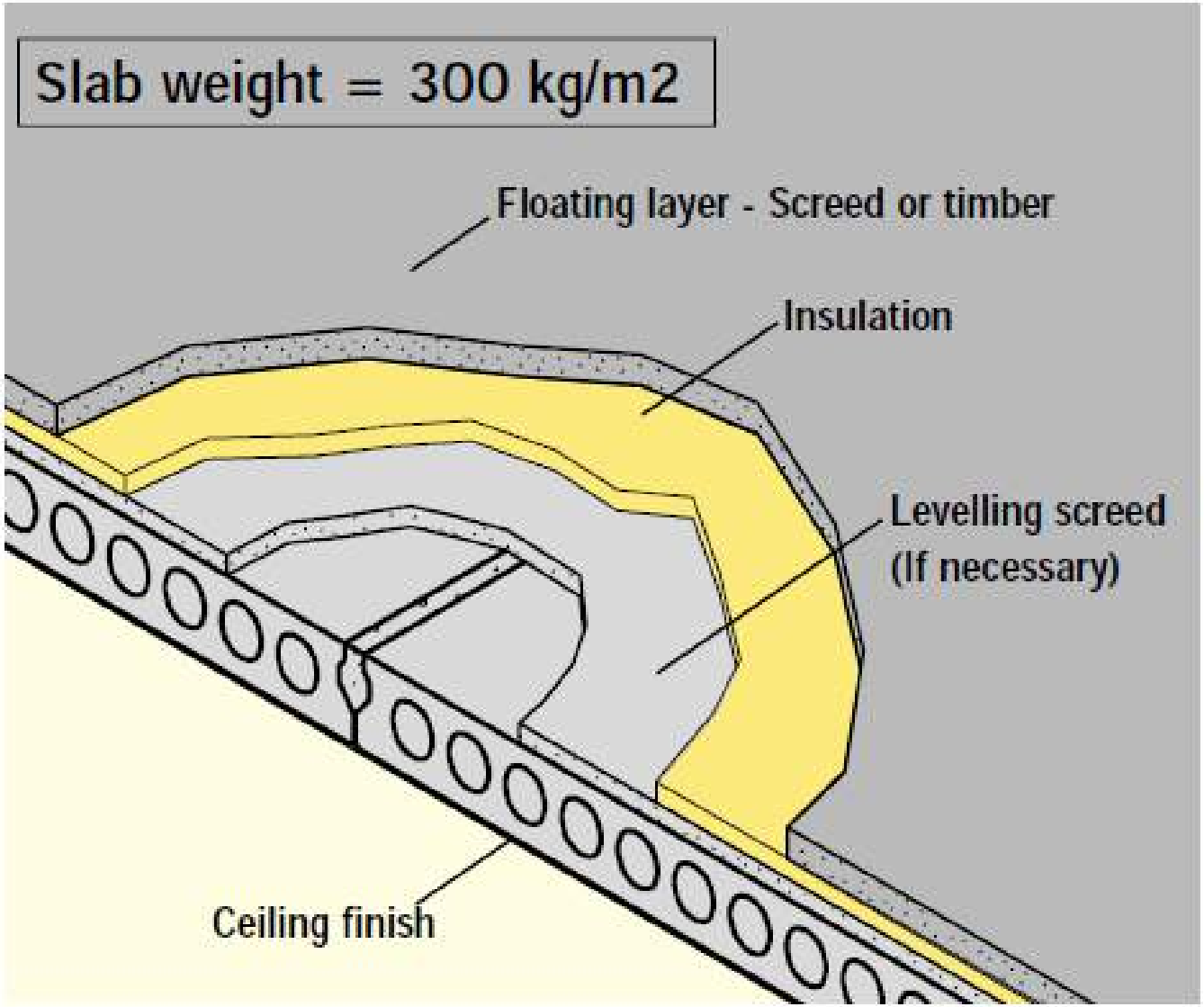
Floor Type1

Concrete base with soft covering. Mass of floor base including any screed and/or ceiling finish should not be less than 365 kg/m2

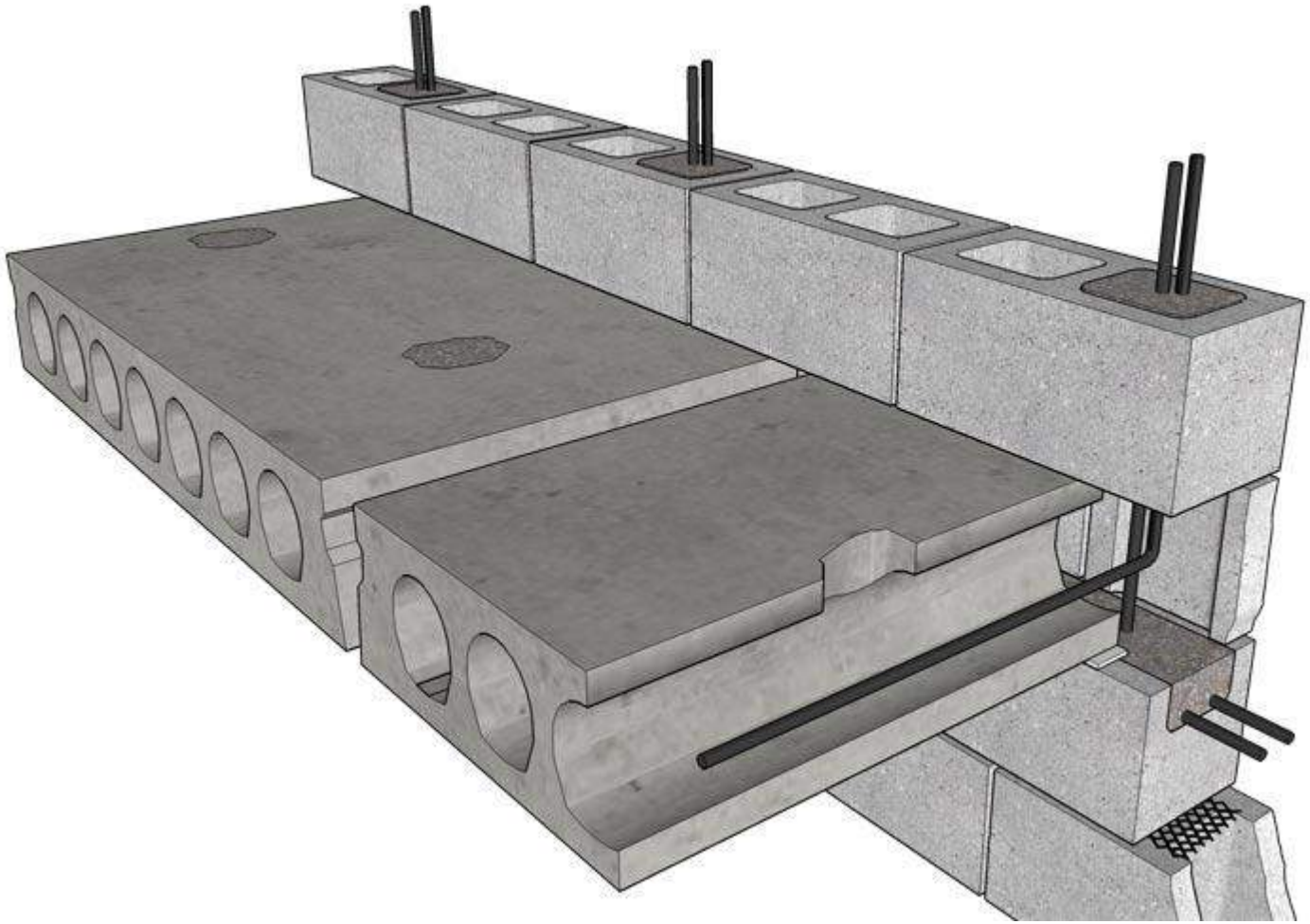


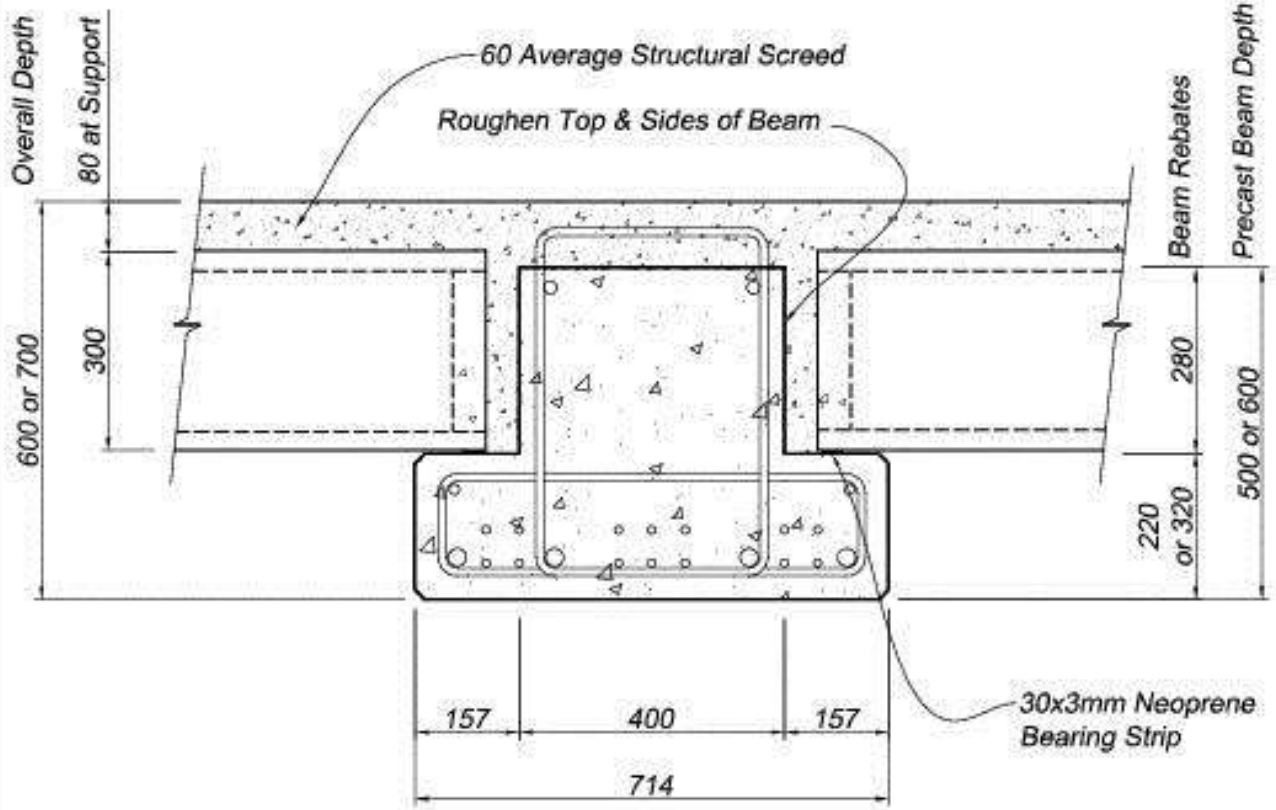
Floor Type2

Concrete base with floating layer. Mass of floor base including any localised levelling screed and/or ceiling finish should not be less than 300 kg/m2



Connection Details





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HOLLOW CORE CONCRETE PTY. LTD.
A.B.N. 22 060 895 468
Structural Precast Components
12-14 Maria Street
Laverton North
Victoria 3026
Tel.: (03) 9369 4944 Fax: (03) 9369 2026
Email: info@hollowcore.com.au
www.hollowcore.com.au

Project

Client

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Beam to Hollow Core Connection

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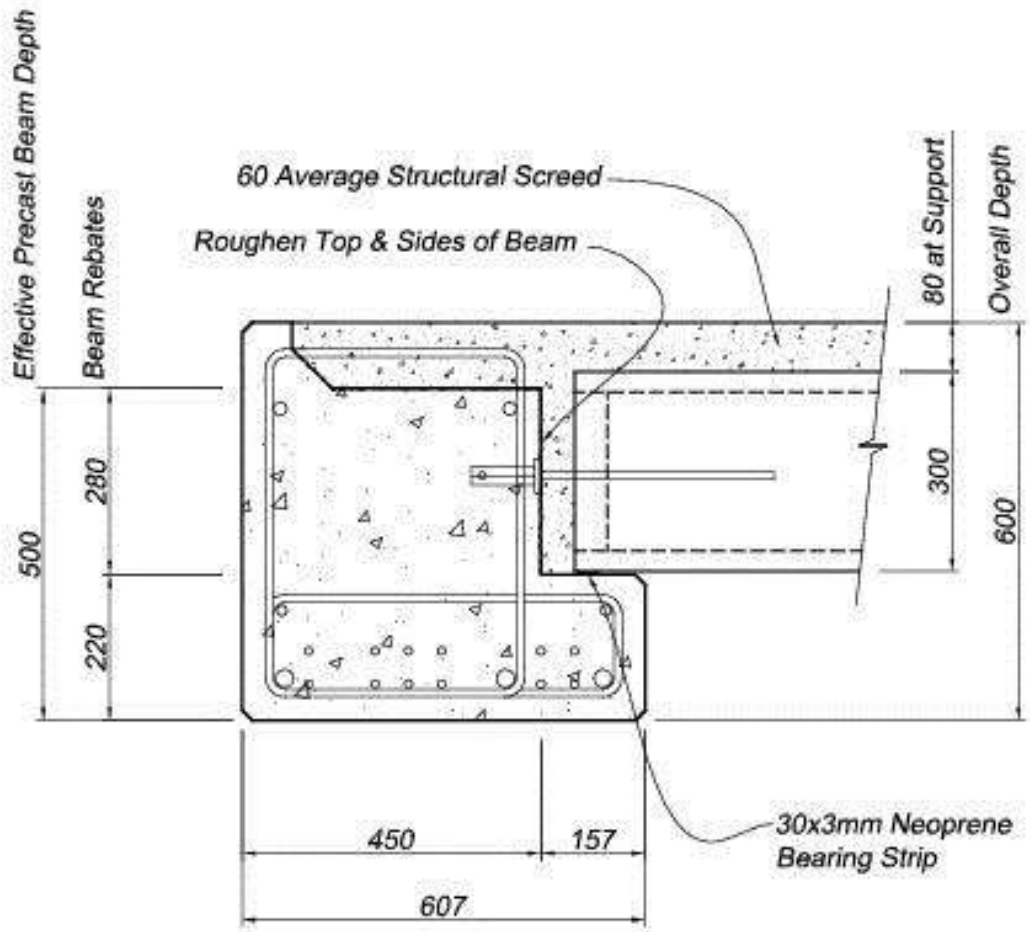
Scale | Date

Job No. | Drawing No. | Revision

4.01



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A.B.N. 22 060 895 468
Structural Precast Components
12-14 Maria Street
Laverton North
Victoria 3026
Tel.: (03) 9369 4944 Fax.: (03) 9369 2026
Email: info@hollowcore.com.au
www.hollowcore.com.au

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Edge Beam to Hollow Core

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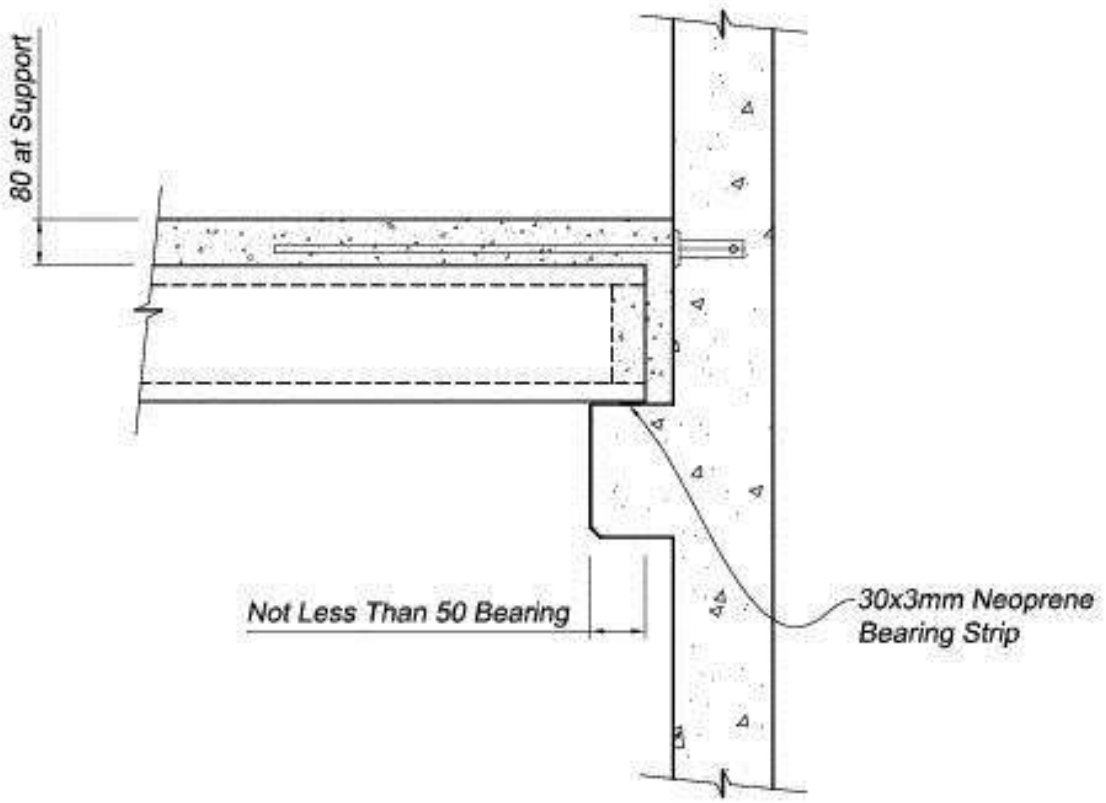
4.03



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A.B.N. 22 060 895 468
Structural Precast Components
12-14 Maria Street
Laverton North
Victoria 3026
Tel. (03) 9369 4944 Fax. (03) 9369 2026
Email: info@hollowcore.com.au
www.hollowcore.com.au

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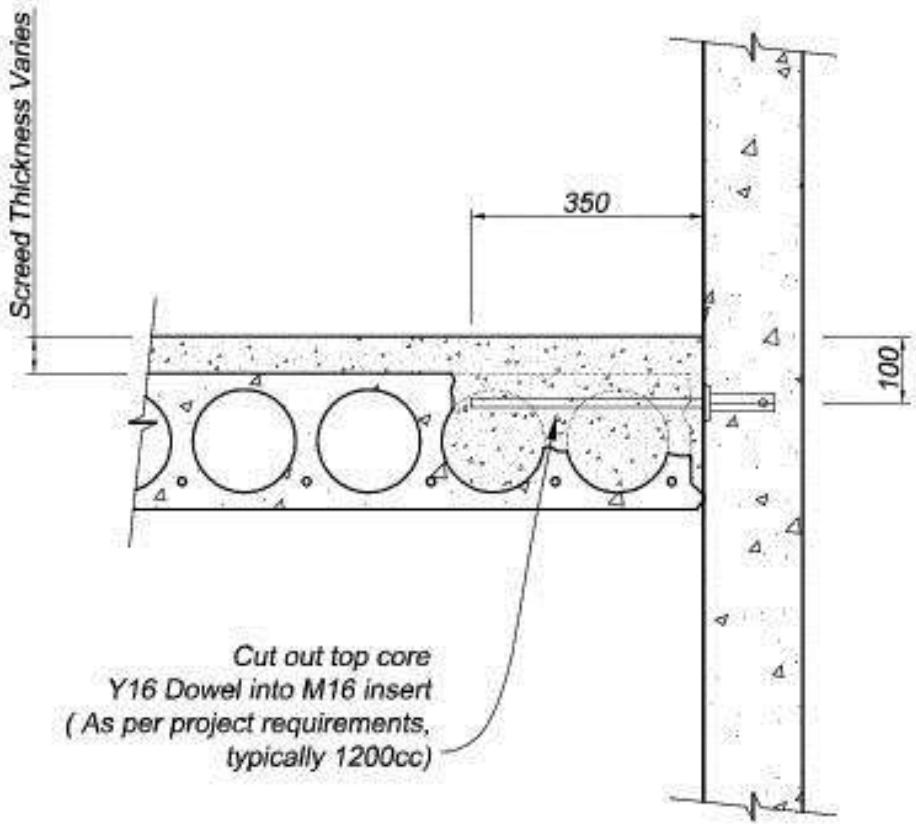
4.04



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HOLLOW CORE CONCRETE PTY. LTD.
A.B.N. 22 060 836 468
Structural Precast Components
12-14 Maria Street
Laverton North
Victoria 3026
Tel.: (03) 9369 4944 Fax.: (03) 9369 2026
Email: info@hollowcore.com.au
www.hollowcore.com.au

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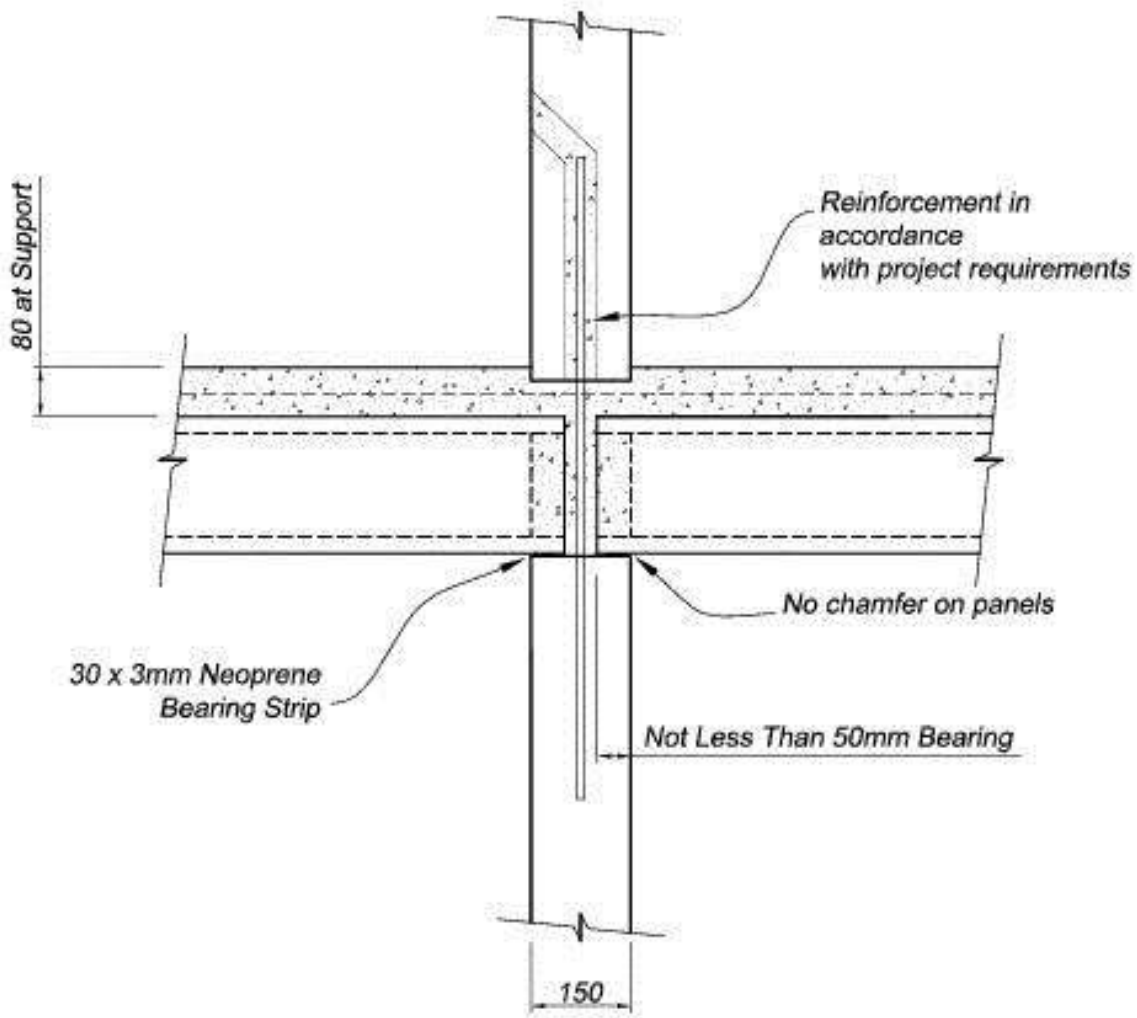
4.05



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A.B.N. 22 095 835 468
Structural Precast Components
12-14 Maria Street
Laverton North
Victoria 3026
Tel. (03) 9369 4944 Fax. (03) 9369 2025
Email: info@hollowcore.com.au
www.hollowcore.com.au

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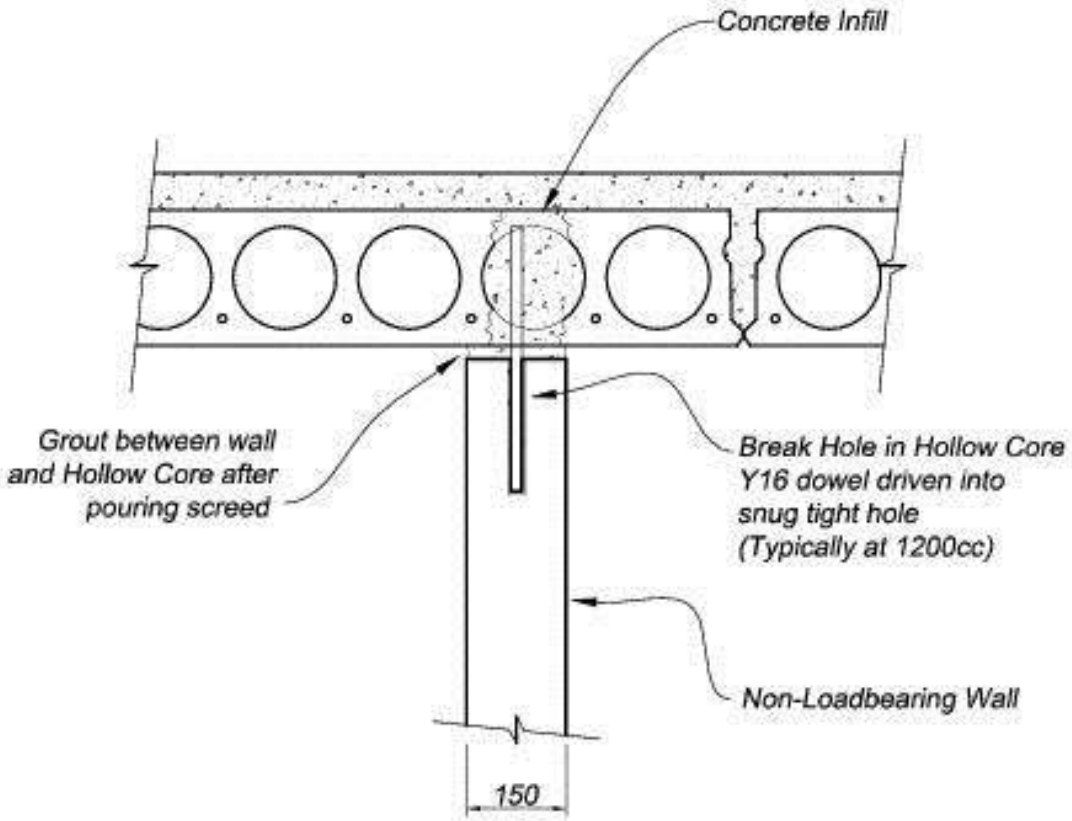
4.06



Section

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HOLLOW CORE CONCRETE PTY. LTD.
A.B.N. 22 060 835 403
Structural Precast Components
12-14 Maria Street
Laverton North
Victoria 3026
Tel. (03) 9369 4944 Fax. (03) 9369 2026
Email: info@hollowcore.com.au
www.hollowcore.com.au

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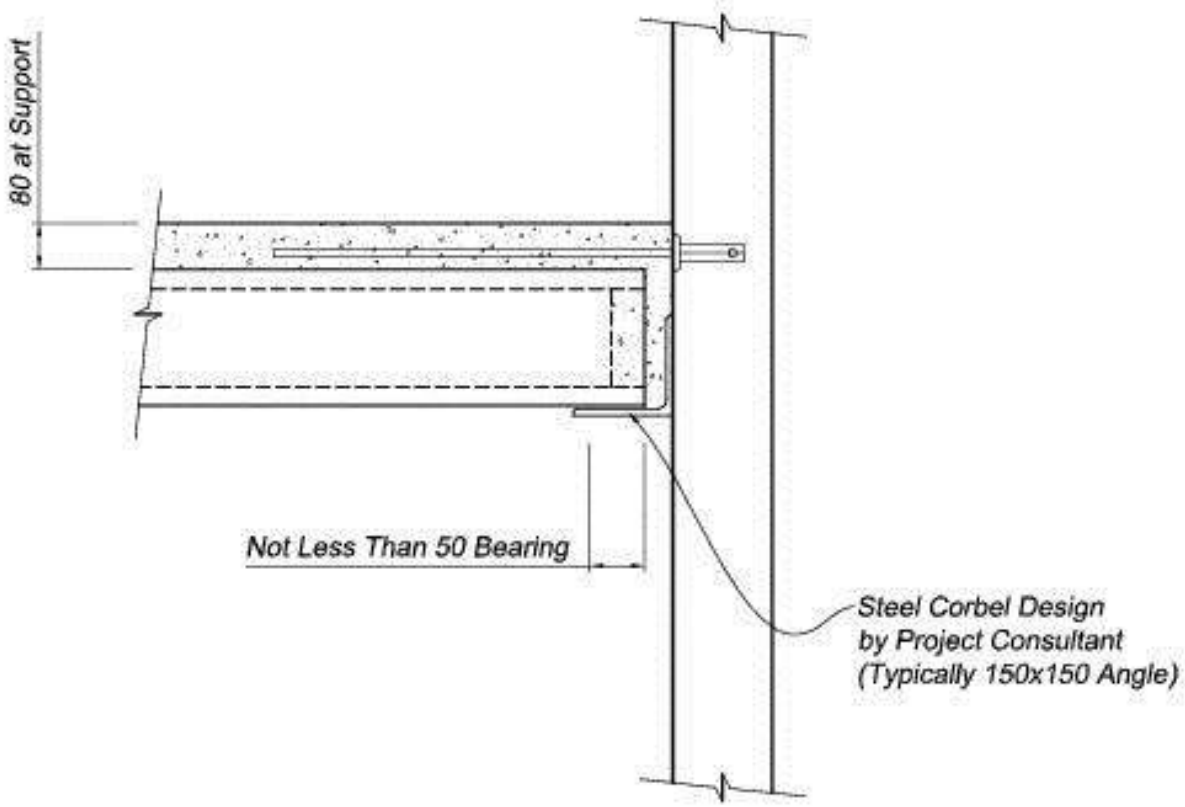
4.07



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A.B.N. 22 060 895 468
Structural Precast Components
12-14 Maria Street
Laverton North
Victoria 3026
Tel. (03) 9369 4944 Fax. (03) 9369 2026
Email: info@hollowcore.com.au
www.hollowcore.com.au

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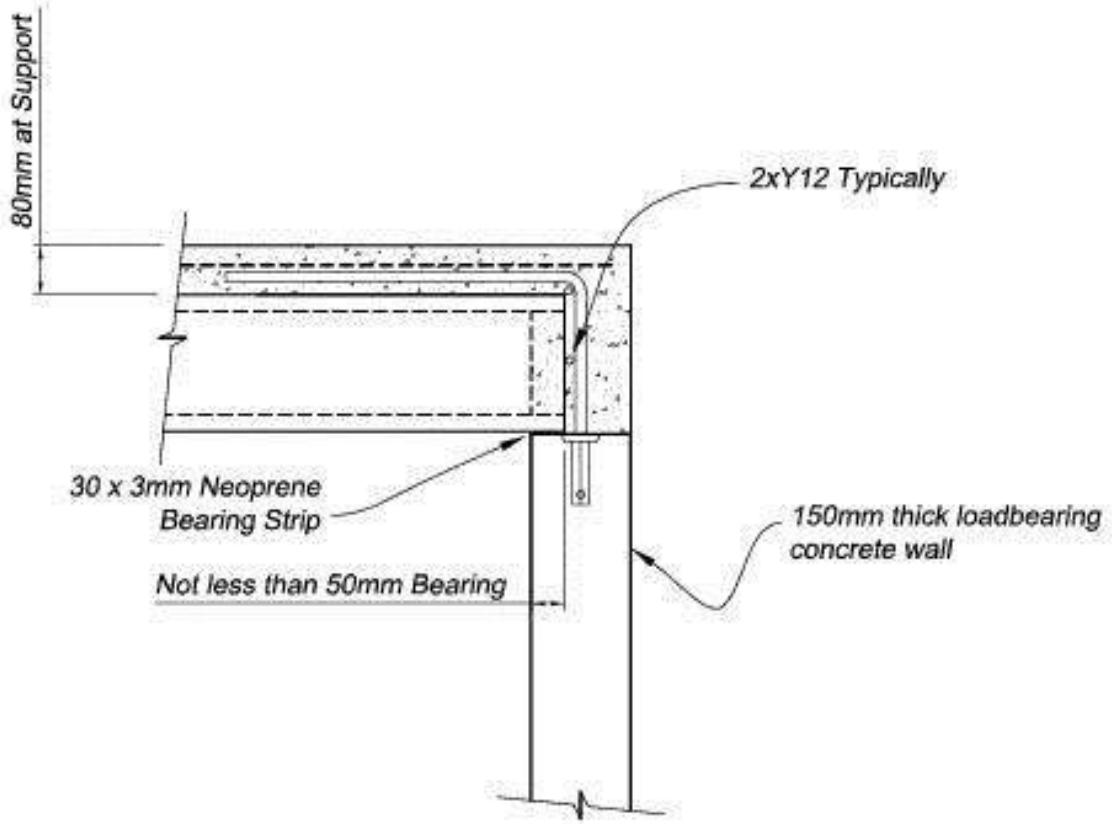
4.08



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HOLLOW CORE CONCRETE PTY. LTD.
A.B.N. 22 095 895 468
Structural Precast Components
12-14 Maria Street
Laverton North
Victoria 3026
Tel.: (03) 9369 4944 Fax.: (03) 9369 2026
Email: info@hollowcore.com.au
www.hollowcore.com.au

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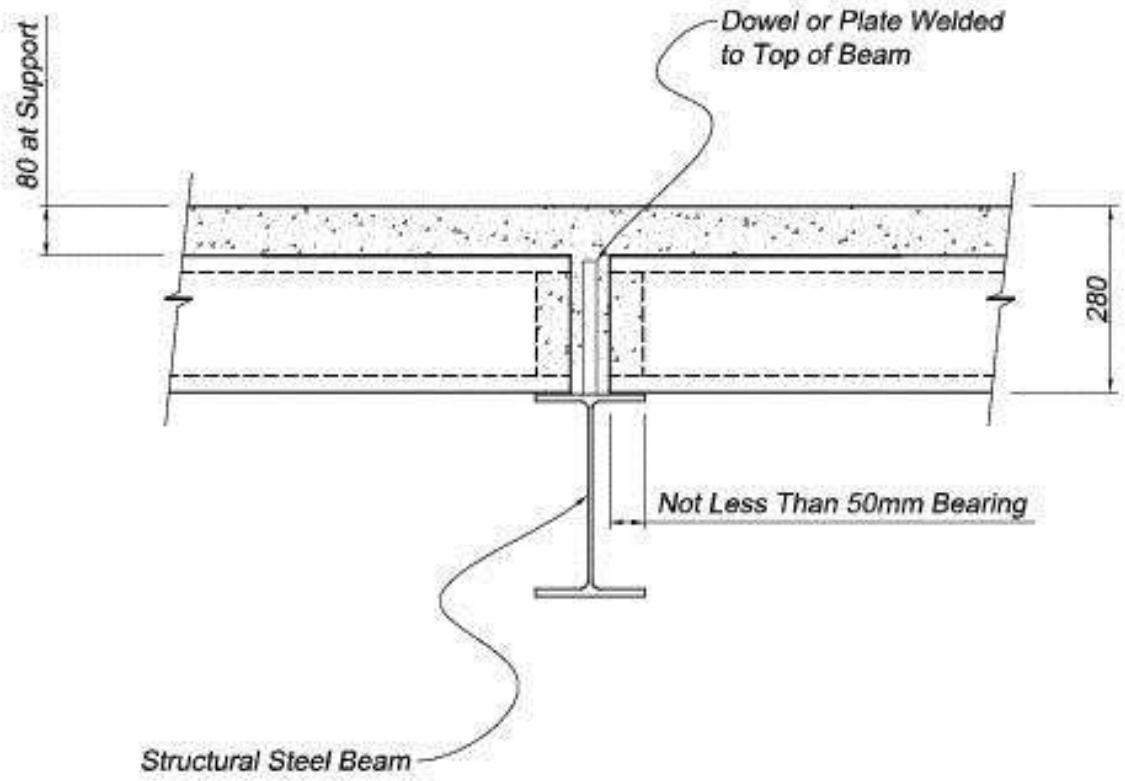
4.09



Note:
Project Consultant to check stability of beam for erection case.

Section

Comments / Notes:

HOLLOW CORE CONCRETE PTY. LTD.
A.B.N. 22 060 895 468
Structural Precast Components
12-14 Maria Street
Laverton North
Victoria 3026
Tel. (03) 9369 4944 Fax. (03) 9369 2026
Email: info@hollowcore.com.au
www.hollowcore.com.au

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Steel to Hollow Core Connection

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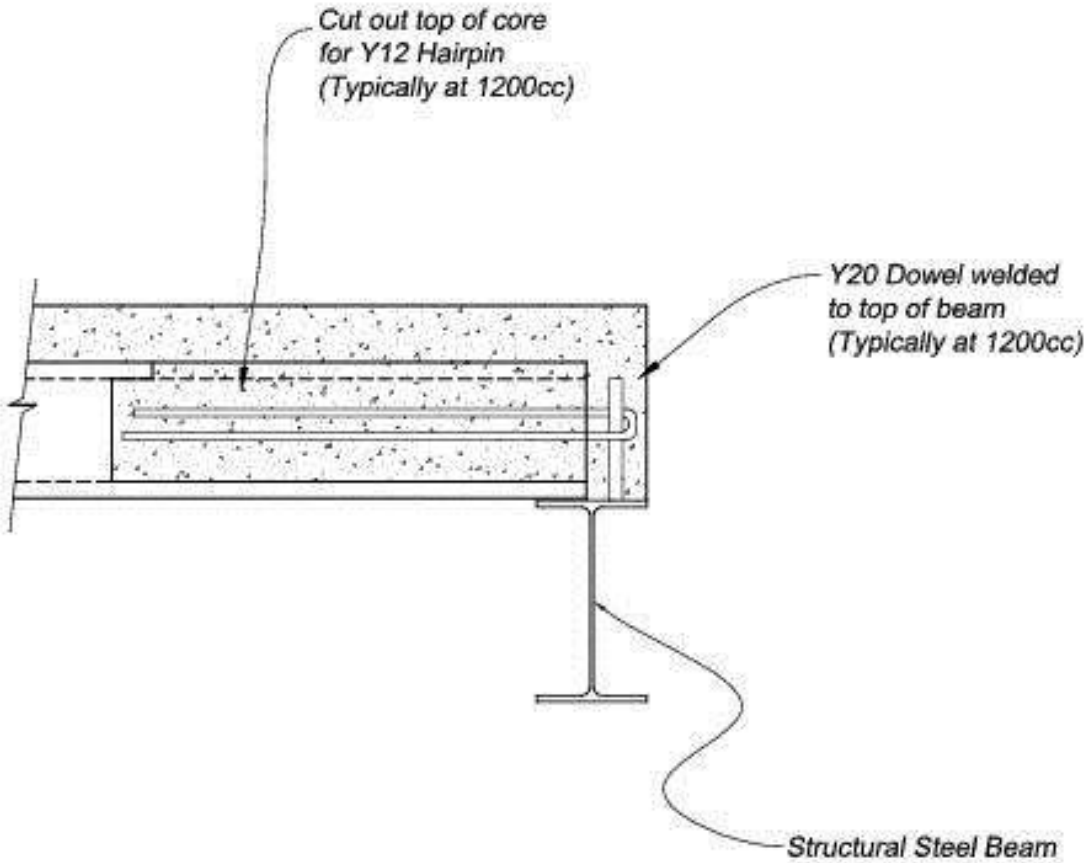
4.11



Note:
Project Consultant to check stability of beam for erection case.

Section

Comments / Notes:

HOLLOW CORE CONCRETE PTY. LTD.
A.B.N. 22 060 835 468
Structural Precast Components
12-14 Maria Street
Laverton North
Victoria 3026
Tel. (03) 9369 4944 Fax. (03) 9369 2026
Email: info@hollowcore.com.au
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4.12