

VIEW: SECTION B-B

INVERT

VIEW: SECTION F-F

1000

DETAIL A

00

M20 TURNBUCKLE

150

M20 TURNBUCKLES SET INTO RECESSES

ALONG JOINT EDGE.

CAST-IN M20 FIXING SOCKETS, SECURED

VIEW: SECTION X-X

WITH S/S BOLTS.

INVERT

GENERAL DRAWING NOTES

- C. DO NOT SCALE DRAWING.



SPECIFICATION INFORMATION

Openings sized to suit outer dimension of pipe.
 Invert level of pipe can be set to your specification

PRECAST UNIT INSTALLATION
Units should be bedded on minimum 100mm thick layer GEN1 concrete base to ensure units are level and stable.

Weight of concrete is based on 2.4 tonne/m³, +5% is recommended for sizing appropriate lifting equipment.
 Unit to be lifted as per drawing / available lifting guide.

- MATERIAL Self-compacting Reinforced Cement Concrete DC4/DS4. B. Lifting strength based on 2 cubes = 20N/mm².
 C. Characteristic 28 day cube strength = 50N/mm².
- D. Concrete provides Design Chemical Class 4 (DC4) to special Digest 1, Table F2.

- REINFORCEMENT
 A. Reinforcement Wire structure to BS EN 13369.
 B. Scheduling, dimensions, bends & cutting to BS8666. C. Reinforcing Wire structure to be machine tied with steel wire

- MANUFACTURE

 A. Manufacture to BS EN 15258:2008 precast concrete products retaining wall elements, factory production control certificate 0086-CPR-650448 & BS EN 13369.
- Tolerances to BS EN 13369 clause 4.3.1.1.

	-					
	Top	Sides	Rear	Rear of Backwall		
ss	A	A	A	Self-Levelled		

- Class Marking, units shall be indelibly marked to show:
 Mould reference code.
 De-mould date.
- Job reference number & unique product number
- Unit weight (kg).

- DESIGN
 A. Concrete structure designed to Eurocode 2.
 B. JKH have designed concrete units only, the site conditions should be assessed for suitability by the scheme designer.
- C. Units are designed to withstand a vertical live load surcharge of 10kM/M².

 D. Weight of soil = 18kN/M².

 E. Angle of internal friction = 30 Deg.

- Design Life as table below * (all cover sizes in mm).

Design Life	e >50 yrs, 100mm Thickness		>100 yrs, 150mm+ Thickness				
Minimum Cover for	Block Size Cover	Min Size Cover	Max Size Cover	Block S Cove		Min Size Cover	Max Size Cover
All Faces	33	28	38	55		50	63
Design life of	>100 yrs car	n be extend	ed to >120 y	rs with B	Bitum	en coating a	application.
Exposure Class	Exposure induced by Carbonation C		Corrosion induced by Chloride XD3			eze/thaw attack	Chemical attack
All Faces					XF4		XA3

- FABRICATION SPECIFICATION

 A. Manufacture IAW EN 1090-2 EXC CLASS 1.

 B. Material grade is to be: BS EN 10025 S275.
- Welding to IAW EN 1090-2 PARA 7.5.4 7.5.18.
- All fillet & butt welds to have minimum throat thickness of 6mm and joints fully welded where possible.

 Ensure vertical flats fully welded both sides where possible.
- All sharp edges and burrs are to be removed.
- Remove all weld splatter.
 Holes by punching are permitted with reaming.
 Galvanising process after fabrication to BS EN ISO1461.

D400 CLASS LOADING SPECIFICATION

- Unit designed to D400 class loading specification for heavy duty site applications (400kN / 40 ton load rating). Design limitations in place to meet D400 specification as following; Secondary side hole diameter is limited to maximum of 50% size of primary side hole diameter, as indicated on drawing.
- C Unit must be installed between the specified cover depth range detailed as follows, with the top of the cover slab set below the site surface level as indicated on drawing view.



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DRAWING TITLE:

1450

150

−B1

V CHAMBER 225mm WALL THICKNESS. 1000x1000x1000mm +PCC COVER SLAB D400 CLASS LOADING SPECIFICATION STANDARD & OPTIONAL FEATURES

CONCRETE MIX DESIGN, NAME / CODE #: ECO1 / DS4 CONCRETE CO² EMISSION (ESTIMATE) kg: -

WEIGHT BREAKDOWN BY TYPE - All FIGURES IN kg UNITS:

			0	0
CHA	MBER, N	MULTIPLE-PIE	0	
F1:	1865	0	0	0
B1:	1865	0	0	0
C1:	1340	0	0	0
	0	0	0	0
	0	0	0	0
TOE BEAM: 0		0	TOTAL WEIGHT: 5070	

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