

NOTES:

All dimensions in mm

Headwall Installation
Units should be bedded on minimum 200mm thick well compacted Class 6A* selected

well graded granular material.
*Manual of contract documents for Highway Works: Volume (MCHW1) specification for Highway Works, Series 600 (Nov.09).

Sit the headwall level or with a slight fall 1:50 from pipe to spill mouth.

- Handling
 A. Weight of concrete is based on 2.4 tonne/m³+5% is recommended for sizing lifting equipment.
 All lifting points shall be used as specified below

Unit to be lifted as per lifting diagram

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

Reinforcement
A. Reinforcement to BS EN 13369

- Scheduling, dimensioning, bending & cutting to BS8666 Cage 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 number: 0086-CPR-650448 & BS
- Tolerances to BS EN 13369 clause 4.3.1.1

٠.	Finishing:								
		Top	Sides	Base	Rear of back				
	Close	Α	Λ	Λ	0-16 1-1-1				

- Class A A A Self Levelled

 Marking: Units shall be indelibly marked to show:
- Job reference number & unique product number

- Design

 A. Concrete design to EC2

 B. Althon have designed the concrete units only, the site conditions should be
- assessed for suitability by the scheme designer
 Units are designed to withstand a vertical live load surcharge of 10kN/M²
 Weight of soil = 18kN/M²
- Angle of internal friction = 30 Deg. Design Life: >100 years

Min Cover	Cover Block Size (mm)		Cover (mm)	Max Cover Size (mm)		
All Faces	55		50	60		
Exposure Classification			Corrosion induced by Chloride XD3		Freeze/thaw attack	Chemica attack
All Faces					XF4	XA3

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

- Material grade is to be: BS EN 10025 S275
 Welding carried out IAW EN 1090-2 PARA 7.5.4 7.5.18
 All fillet and butt welds to have a minimum throat thickness of 6mm & joints to be fully welded where possible.
- luly welded where possible. Ensure vertical flats are 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 is carried out after fabrication to BS EN:ISO 1461

- Handrail Specification

 A. Kee Klamp®_Galvanised Size 8 Fittings

 B. Size 8 48.3mm OD 3.2mm Wall Thickness Galvanised Medium Duty Tube to BS
- EN 10255
 360N/m Design Load at stated in BS 8118, BS 6180, BS 6399 & BS 7818, Civil
 Engineering Specification for the Water Industry (CESWI) 7th Edition Clause 2.60
 Handrails & Balusters & The Engineering Equipment and Materials Users'
 Association (EEMUA) Publication 105 7th Edition Factory Stairways, Ladders and
- Other design loads available on request GRP/FRP Handrails also available

REV NO

Althon

DESCRIPTION

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DRAWING TITLE / PROJECT:

SFA15B Headwall SFA1 675 Outfall Safety Grille

NTS 01 OF 01 25 - 09 - 18 N/A 5210ka PRODUCT NAME SFA15B