

## NOTES:

All dimensions in mm

<u>Headwall Installation</u>
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
- Lifting strength based on 2 cubes = 20N/mm
- 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

Finishin	ıg:	
	Top	Sides

- Top
   Sides
   Base
   Rear of back wall

   Class
   A
   A
   A
   Self Levelled
- Marking: Units shall be indelibly marked to show
- Job reference number & unique product number
- Unit weight (kg)

- 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	Exposure induced by Carbonation			ion induced Chloride	Freeze/thaw attack	Chemical attack
All Faces	XC3/4		XD3		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

- Kee Klamp® Galvanised Size 8 Fittings Size 8 48.3mm OD 3.2mm Wall Thickness Galvanised Medium Duty Tube to BS 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

DESCRIPTION REV NO

The information contained in this drawing is the sole property of Althon Limited. Any reproduction in part or as a whole without the written permission of Althon Limited is strictly prohibited.

# DRAWING TITLE / PROJECT:

SFA15B Headwall SFA1 750 Outfall Safety Grille

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

CE

Weight Approx: 110kg