

**TYPICAL INSTALLATION WITH GUARD RAIL** 



## ALTHON 2PHDST A SILT TRAP



NOTES:

2PHDST Specification Information

Dpening in back wall cast to suit outside diameter of the pipework
2PHDST A suitable for pipework up to 600mm ID Twinwall or Concrete

Althon 2PHDST Silt Trap Installation

Units should be bedded on minimum 100mm of semi-dry concrete. Sit the headwall level or with a slight fall 1:50 from pipe to spill mouth. Material: Reinforced Concrete Weight approximately 1350kg All dimensions in mm

**HEADWALL S35** 







Althon ALTHON SFA 10C HEADWALL 500x500 TOE WITH 525 OUTFALL SAFETY GRILLE AND 3 SIDED KEE KLAMP



NOTES •All dimensions in mm •All measurements ± 1mm

Specification Information •Opening in back wall cast to suit outside diameter of the pipework •Invert level of pipe can be set to your specification 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/m<sup>3</sup>+5% is recommended for sizing lifting equipment. B. All lifting points shall be used as specified below C.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/mm<sup>2</sup> C.Characteristic 28 day cube strength = 50N/mm<sup>2</sup> D.Concrete provides Design Chemical Class 4 (DC4) to special Digest 1, Table F2.

Reinforcement A.Reinforcement to BS EN 13369 B.Scheduling, dimensioning, bending & cutting to BS8666 C.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 EN 13369 B. Tolerances to BS EN 13369 clause 4.3.1.1 C.Finishing:

 
 Top
 Sides
 Base
 Rear of back wall

 Class
 A
 A
 A
 Self - Levelled
 D.Marking: Units shall be indelibly marked to show: •Mould reference code •De-mould date •Job reference number & unique product number •Unit weight (kg)

 Online 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

 C.Units are designed to withstand a vertical live load surcharge of 10kN/M<sup>2</sup>

 D. Weight of soil = 18kN/M<sup>2</sup>

 E. Angle of internal friction = 30 Deg.

 F.Design Life: > 100 years

 Min Gover Block Min Cover Max Cover Sale (mm) Sale (mm)

 Al Faces
 55

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 Corrosen Induced Freeze/Thave Chemical Al Faces

 Lassification
 XD3

 Al Faces
 XD3

 Fabrication Specification
 XD3

 Lal Faces
 XC3/4
 XC3
 XF4
 XA3

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

 Br.Material grade is to be: BS EN 10025 S275

 C.Welding carried out IAW EN 1090-2 PARA 7.5.4 - 7.5.18

 D.All fillet and butt welds to have a minimum throat thickness of 6mm & joints to be fully welded where possible.

 E.Ensure vertical flats are fully welded both sides where possible.

 F.All sharp edges and burrs are to be removed.

 G.Remove all weld splatter.

 H.Holes by punching are permitted with reaming.

 I.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 C. 360N/m Design Load at stated in BS 8118, BS 6180, BS 6399 & BS 7818, Civil Engineering Specification for the Water Industry (CESW1) 7th Edition Clause 2.60 Handrails & Balusters & The Engineering Equipment and Materials Users' Association (EEMUA) Publication 105 7th Edition Factory Stairways, Ladders and Handrails D.Other design loads available on request E.GRP/FRP Handrails also available

Outfall Safety Grille Material Grade is to be: BS EN 10025 S275 1.All mild steel to be hot dipped galvanized after fabrication 2.Galvanizing to BS EN: 1461 3.Welding to BS EN 1011-2:2001 4.Hinged on one side with padlock facility 5.Weight Approx: 70kg

HEADWALL S18 and S34

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## NOTE

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## NOTES:

GENERAL NOTES

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH BECKWITH AND HANLON DRG. 24-011-200 SERIES DRAWINGS

| P1   | FIRST ISSUE      |    |    |               | JM               | MH  | 26/06/24 |  |  |
|--|------------------|----|----|---------------|------------------|-----|----------|--|--|
| REV  | REV AMENDMENT BY |    |    |               |                  |     | DATE     |  |  |
| NIGEL KAY HOMES LTD.   |                  |    |    |               |                  |     |          |  |  |
| PROJECT<br>DALZELL STREET<br>MOOR ROW  |                  |    |    |               |                  |     |          |  |  |
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| DRAWING TITLE  |                  |    |    |               |                  |     |          |  |  |
| SUDS DETAILS<br>SHEET 2  |                  |    |    |               |                  |     |          |  |  |
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