

DRAWING NOTES

All dimens s in mm U.O.S

- All measurements ±1mm. DO NOT SCALE DRAWING
- SPECIFICATION INFORMATION
 Opening in back wall cast to suit outer dimension of pipe.
 Invert level of pipe can be set to your specification.
- HEADWALL INSTALLATION

Units should be bedded on minimum 150mm thick well compacted Class 6N or 6K* well graded granular material with 50mm topping of fine material (Class 6L*) to ensure units are level and stable. *Manual of contract documents for Highway Works: Volume (MCHW1) specification for Highway Works, Series 600 (Nov 09).

СА

HANDLING A. Weight

- 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
- C. 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
- D. Concrete provides Design Chemical Class 4 (DC4) to special Digest 1, Table F2.
- REINFORCEMENT A. Reinforcement to BS EN 13369.
- Scheduling, dimensions, bends & 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 0086-CPR-650448 & BS EN 13369.
- Tolerances to BS EN 13369 clause 4.3.1.1.
- C. Finishing:
- Top
 Sides
 Rear
 Rear of Backwall

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

DESIGN

- 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 10kN/M².
- Weight of soil = 18kN/M². Angle of internal friction = 30 Deg. D
- Design Life as table below * (all cover sizes in mm).

| Design Life | >50 years, 100mm Wall Thickness | | | | >100 years, 150mm Wall Thickness | | | | | |
|--|------------------------------------|-------------------|---|--------------------------------|----------------------------------|--------------------|-------------------|-----|-------------------|--|
| Minimum Cover for All Faces | Block Size Cover | Min Size Cover | | Max Size Cover | Block Size Cover | | Min Size Cover | | Max Size Cover | |
| | 33 | 28 | | 38 | 55 | | 50 | | 63 | |
| esign life of >100 years can be extended to >120 years with Bitumen coating application. | | | | | | | | | | |
| Exposure lassification | Exposure induced by Carbonation | | 0 | Corrosion induc by 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 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. F

- Holes by punching are permitted with reaming. Galvanising process after fabrication to BS EN ISO1461.

- HANDRAIL SPECIFICATION A. Kee Klamp® Galvanised Size 8 Fittings.
- Size 8 48.3mm OD 3.2mm Wall Thickness Galvanised Medium Duty Tube to BS EN 10255.
- 360N/m Design Load as 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 Handrails. Other design loads available on request. GRP/FRP Handrails also available.



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> SERIES 1000 HEADWALL (2130 HIGH) REFLEX WINGWALL STANDARD & OPTIONAL FEATURES

TOTAL WEIGHT (CASTINGS ONLY): 3330 kg



DRAWN: PN ISSUE #: 01 SHEET #: 1 of 1 DATE: 12/2/24 DRAWING #

1000-2130-RW