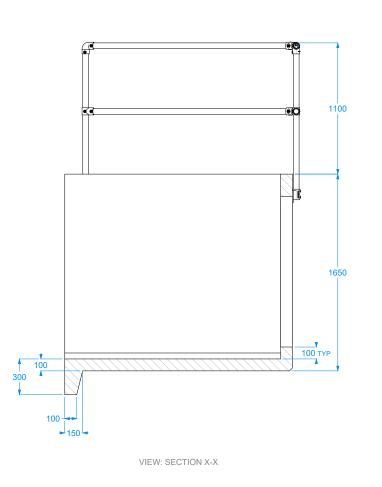
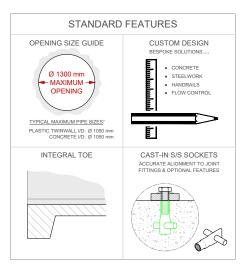


VIEW: FRONT

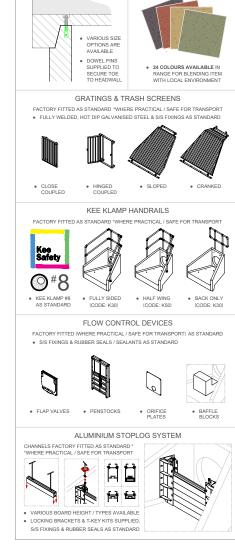




OPTIONAL FEATURES

CONCRETE COLOURS

TOE BEAM RANGE



DRAWING NOTES

- ns in mm U.O.S
- 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).

- 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. Concrete provides Design Chemical Class 4 (DC4) to special Digest 1, Table F2.

- REINFORCEMENT
 A. Reinforcement to BS EN 13369.
 B. 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.

 Top
 Sides
 Rear
 Rear of Backwall

 Class
 A
 A
 Self - Levelled
 Marking, Units shall be indelibly marked to show:

- Mould reference code.
- De-mould date.
- Job reference number & unique product number Unit weight (kg).

DESIGN

- Concrete structure designed to Eurocode 2.

 JKH have designed 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 as table below * (all cover sizes in mm).

Design Life >50 years, 100mm Wall Thickness >100 years, 150mm Wall Thickness

Minimum Block Size Min Size Max Size Block Size Min Size Max Size

	Cover for All Faces	Cover	Cover	Cover			Cover		Cover
		33	28	38	55	5 50		\Box	63
*Design life of >100 years can be extended to >120 years with Bitumen coating application									application
	Exposure Classification	Exposure induced by Carbonation		Corrosion induced by Chloride		Freeze/thaw attack		-	Chemical attack
	All Faces	XC3/4		XD3		XF4		Г	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.
- Holes by punching are permitted with reaming.
 Galvanising process after fabrication to BS EN ISO1461.

HANDRAIL SPECIFICATION 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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DRAWING TITLE:

SERIES 2800 HEADWALL (1650 HIGH) LEVEL WINGWALL STANDARD & OPTIONAL FEATURES

TOTAL WEIGHT (CASTINGS ONLY): 4330 kg

CONCRETE MIX DESIGN:

CO² EMISSION REDUCTION ★ -50%

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

2800-1650-LW