

NOTES:

All dimensions in mm

<u>Specification Information</u>

Opening in back wall cast to suit outside diameter of the pipework Invert level of pipe can be set to your specification

Units should be bedded on minimum 150mm of semi-dry concrete.

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

All lifting points shall be used as specified below - Anchor points & loops - Total

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

 C. 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 to BS EN 15258:2008 precast concrete products - Retaining wall elements, Factory Production Control certificate number: 0086-CPR-650448 & BS EN 13369

Tolerances to BS EN 13369 clause 4.3.1.1

Marking: Units shall be indelibly marked to show Mould reference code

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

Concrete design to EC2
Althon have designed the concrete units only, the site conditions should be assessed for suitability by the scheme designer assessed for surfamily 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: >50 years

Min Cover	Size (mm)		Size (mm)	
All Faces	33	28	38]
Exposure	Exposure ind		ion induced	Freeze/ti

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.

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

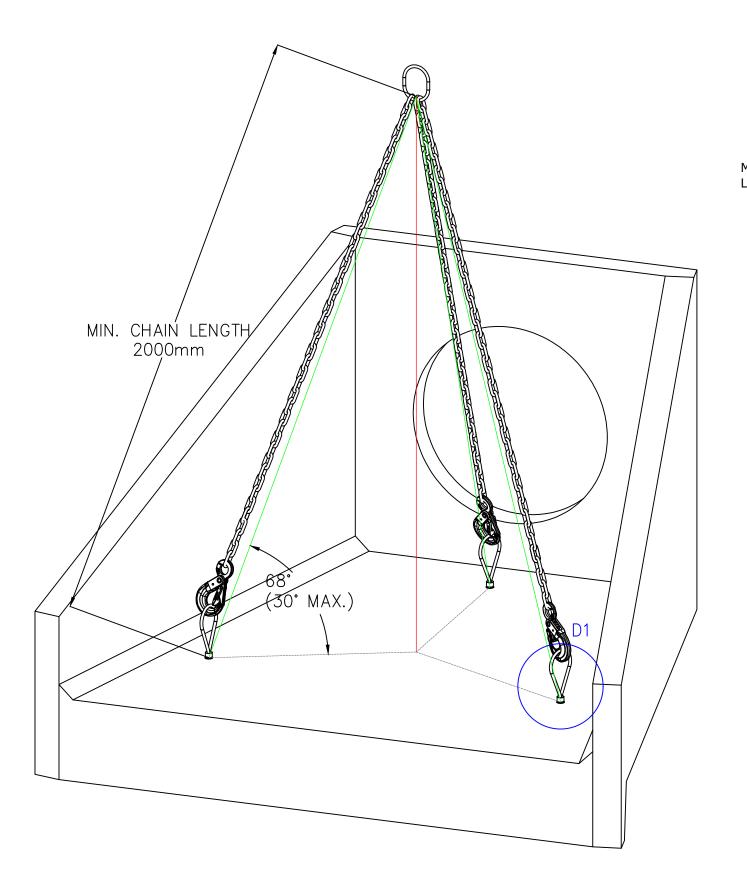
<u>หาสเ รายะแนะสนเกา</u> Kee Klamp® Galvanised Size 8 Fittings Size 8 48.3mm OD 3.2mm Wall Thickness Galvanised Medium Duty Tube to BS EN 10255 360N/m Design Load at stated in BS 8118, BS 6180, BS 6399 & BS 7818, Civil

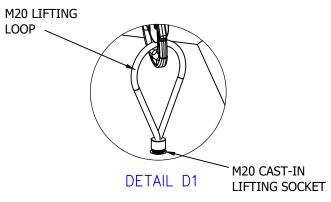
Engineering Specification for the Water Industry (CESWI) 7th Edition Clause 2.60 Handrails & Balusters & The Engineering Equipment and Materials Users' Association (EEMUA) Publication 105 7th Edition Factory Stairways, Ladders and

Other design loads available on request GRP/FRP Handrails also available



01 OF 02 01 - 06 - 18 2000kg N/A PRODUCT NAME H10CA





RD20 Threaded Lifting Loop Safe Working Load: 2000kg each

Manufactured from zinc plated steel wire rope with a precision bright steel threaded portion. Threaded lifting loops are ideally suited to axial lifting procedures but can be used up to and including angled lifts of 30 degrees.

Use and Operation

The threaded lifting loop must be fully threaded into the lifting socket prior to commencing a lifting operation. It is imperative that the two mating surfaces are parallel to each other.

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All lifting points shall be used as specified below - Anchor points & loops - Total

Unit to be lifted as per lifting diagram

Mix ref: Self-compacting DC4/DS4 Mix 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 to BS EN 15258:2008 precast concrete products - Retaining wall elements, Factory Production Control certificate number: 0086-CPR-650448 & BS EN 13369

Tolerances to BS EN 13369 clause 4.3.1.1

 Top
 Sides
 Base
 Rear of back wall

 Class
 A
 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)

Concrete design to EC2
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: >50 years

Min Cover	Size (mm)		(mm)	Size (mm)		
All Faces 33			28	38		
Exposure Classification	Exposure induced by Carbonation		Corrosion induced by Chloride		Freeze/thaw attack	Chemical attack
All Faces XC3/4		XD2		XF3	XA2	

Fabrication Specification

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

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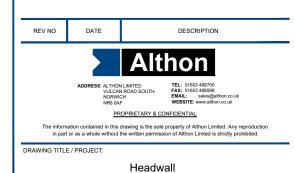
Ensure vertical flats are fully welded both sides where possible.
All sharp edges and burrs are to be removed.
Remove all weld splatter.

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

18 1025 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



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Lifting Diagram