

R10C Headwall Range

Up to 750mm Pipework 1025mm - 1275mm Backwall Height

300 and 500mm Thick Toe

The R10C can acommodate twinwall, uPVC or clay pipes up to 750mm ID. or concrete pipes up to 675mm ID.

Openings in our rectangular concrete headwalls are cast to suit the pipe material and diameter being used on site. We can also cast the opening to a specified invert level if required. Our rectangular precast headwalls can be factory fitted with a range of accessories such as flap valves, penstocks, Kee Klamp® handrails as well as trash screens and outfall safety grilles.

Rectangular headwalls have the wingwalls projecting at 90 degrees to the backwall. We offer a range of different wingwall profiles with our rectangular headwalls to suit the bank profile on your project. We offer toe extensions for our rectangular precast headwalls either 300 or 500mm thick and up to 1000mm deep.



R10CA

1025mm Backwall

R10CF

1025mm Backwall

R10CB 1275mm Backwall



R10CH 1275mm Backwall

Optional Kee Klamp Handrail

Headwall Ref	Max Pipe Opening Plastic/C'ware	Max Pipe Opening PCC	A	B	C	Approx Weight	Weight with 300mm thick toe			Weight with 500mm thick toe		
							400mm	650mm	950mm	500mm	750mm	1000mm
R10C A	600	525	1025	850	100	2000	2375	2610	2890	2780	3170	3560
R10C B	750	675	1275	1100	350	2400	2775	3010	3290	3180	3570	3960
R10C F	600	525	1025	850	850	2440	2815	3050	3330	3220	3610	4000
R10C H	750	675	1275	1100	1100	2870	3245	3480	3760	3650	4040	4430





- ⁸ If flap valve or grating is supplied, this will need to be removed before the pipe is inserted and sealed into place. Then reinstall using stainless steel fixing bolts into cast in sockets. (When bolting flap valves against headwall, use a good quality sealant but do not over tighten bolts or distortion may occur resulting in the valve not seating correctly.
- Backfill pipe section first then backfill all around Headwall with as dug material. Make good at front of toe with as dug material ensuring river bank is returned to its original profile. It may be necessary to provide protection in front of the toe, please refer to engineers' recommendation.

*Manual of Contract Documents for Highway Works: Volume 1 (MCHW1), Specification for Highway Works, Series 600 (Nov 09)



Rapid-Lift Lifting Anchors

All Althon SFA Headwalls and Toes are fitted with Rapid-Lift lifting anchors. The Althon Rapid-Lift system allows the SFA Headwalls & Toes to be offloaded, transported and located in their final position without the need for any specialised lifting equipment. Standard lifting hooks and chains can be used with the three lifting points (two lifting points on Toes). The minimum chain leg length for all units is 1500mm.

Althon Precast Concrete SFA Headwall Safety Sheet

Althon Limited manufacture pre-cast concrete SFA Headwalls using :-

6 - 14mm aggregate · 0/4mm Sharp sand · Portland cement BS EN 197-1- Cem 1 52.5 · Cryso Fluid Premia 205 Varit Superplasticiser

When units have been manufactured and cured they are in a chemically inert state. But the following information should be considered.

- It is advisable to wear toe cap safety footwear when handling any concrete products. Please refer to your company Safety Policy for specific details on manual handling.
- When cutting with masonry grinding discs or drilling with masonry drill bits it is necessary to wear eye protection and a dust mask. It is also recommended to wear ear protection during either of these two processes.
- Due to some units having sharp edges it is advisable to wear protective gloves when handling Althon products.
- When fitting or removing some of the larger accessories it is necessary to use a mechanical system to prevent risk of back injury.

Maintenance of SFA Headwalls

With respect to the maintenance of any exposed surfaces of concrete components, only routine (Annual) cleaning may be necessary with a Power Washer and possibly some mild detergent to any exposed surfaces to maintain appearance; however all sites are unique and environmental impact of cleaning should be taken into account. Where cleaning is required and environmental conditions prevent mild detergent, using clean water and a power washer/stiff brush should suffice. Concrete units are often expected to "weather" and some coverage will help them to blend into their environment.

If damage to the structure of any pre-cast concrete components occurs we recommend their replacement not repair. If there is minor damage to corners during their normal life by grass cutting equipment etc. then repair with an epoxy compound such as 'Mason Mate 0868PR380 Polyester Resin'.

To dispose of any Pre-Cast concrete components the preferred method is to recycle the material by crushing and grading, but if the quantity is too small to be cost effective then disposal in conventional landfill is acceptable as all the concrete components are inert with regard to having any environmental impact.

Maintenance of Galvanised Grates & Handrails.

Annual/bi-annual visual checks are basic recommendations. If gratings are in a water course subject to a higher level of debris/weed, then more regular checks may be required. Clearing of debris/weeds from the grate will ensure no disruption to the flow, or backing up of the water course. Handrails should also only require a visual inspection – annually or at the same time as the headwall & grates.

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