

## MULTI WATERSTOP

### Watertight Joints in Concrete Structures

#### Description

##### P.V.C. Waterstop

Extruded PVC waterstop manufactured from high grade polymer chloride resins and first quality plasticizers to the requirements of CKS 389-1973. Internal Waterstop: Integrally cast water barriers for construction and expansion joints in water retaining and other structures.

External Waterstop: Flexible water barriers used to prevent water entry from the outside face of expansion and construction joints in below ground structures.

##### Rubber Waterstop

High quality rubber waterstop manufactured to the requirements of CKS 388-1973. Rubber waterstop has been developed for use where positive protection against hydrostatic pressure is required in joints subject to contraction expansion and shear movements.

#### Factory manufactured Intersections and Joints

The provision of an absolutely continuous and unbroken seal to all joints in a structure is essential to the performance of a waterstop system. To promote this end, MCC LIMPOPO provides factory produced intersections and joints, manufactured to the specific requirements for a given application.

#### Design

The choice of waterstop size is dependent upon the thickness of the concrete wall or slab to be cast and the size of the aggregate used.

#### Construction

Flat dumbbell sections should be used in internal wall applications and external heavy duty sections in external ground slab applications where construction or contraction joints are encountered.

#### Expansion Joints

Centre bulb sections should be used in internal wall applications where expansion, contraction or deflection movement is anticipated. External expansion waterstop sections should be used in ground slab expansion joints where settlements of up to 100mm are expected. Where high shear deflection is anticipated, Rubber Waterstop should be used.

#### Secura Clips

Specially manufactured spring steel clips are available to facilitate simple securing of waterstop to reinforcing bars, etc. and to minimize the risk of damage to the product.

#### PRODUCT RANGE: INTERNAL & EXTERNAL WATERSTOP Type and Dimensions (mm)

A	B	C	D
<b>Multi PVC Flat Dumbell</b>			
100	3	12	N/A
150	4	12	N/A
200	4	12	N/A
225	4	12	N/A
<b>Multi PVC</b>			
150	4	12	18
200	4	12	20
225	4	15	27
<b>Multi PVC Heavy Duty</b>			
150	4	15	N/A
200	4	20	N/A
230	5	24	N/A
<b>Multi PVC Expansion</b>			
150	4	15	15
200	4	20	18
230	5	25	20

#### Note

Recommendations, suggestions or statements made in these bulletins are intended for the assistance of our customers. They are based upon our experience and judgment but must not be regarded as amounting to a legal warranty or as involving any liability on our part and further must be read in conjunction with and subject to our Conditions of Sale which apply to all goods supplied by us.

#### Recommended Specification

Waterstop of the size and type shown on the drawings shall be supplied by MCC LIMPOPO. Waterstop must be located in the position detailed, and firmly supported by split-end shutters to avoid displacement during concreting.

Where waterstop is fixed horizontally the web shall be lifted while concrete is being thoroughly compacted in the lower section of the slabs preventing formation of air voids. The complete installation must provide an unbroken network of waterstop through all construction and expansion joints. Site butt joining shall only be permitted using approved jointing equipment, factory manufactured intersections or preformed integrally moulded junction pieces as supplied by MCC LIMPOPO and used strictly in accordance with their instructions.



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#### **Quality Assurance**

MCC LIMPOPO's production and testing programmes comply with local and international testing standards. These stringent testing requirements must also comply with CKS 389-1973 (P.V.C.) and CKS 388-1973 (Rubber) Specifications for Waterstop.

#### **Updates**

This data sheet supersedes all previous issues prior to this date:  
31/05/97