



SAINT-GOBAIN

## **durajoint rubber waterstops**

**WATERSTOPS FOR JOINTS WHERE HIGH MOVEMENT AND/OR HIGH HYDROSTATIC HEAD OF WATER IS ANTICIPATED**

### **DESCRIPTION**

**durajoint** rubber waterstops are produced in straight lengths and factory moulded intersections from natural rubber to give a product that has a very long life span whilst remaining flexible to accommodate high movements.

### **USES**

- In joints where the expected movement exceeds 10 mm
- As a grout check in concrete, double curvature, arch dams
- In areas where the head of water exceeds 10 m

### **ADVANTAGES**

- Natural product that has a long life span
- Rubber product that has a 'memory' – will return to its natural profile after long periods of extension or deflection and/or rapid repeated movement
- Can withstand 50 m - 70 m head of water
- Available in a range of profiles

### **PROFILE RANGE**

- Center bulb profiles for expansion joints
- Dumbell profiles for contraction joints with no shear movement

See table for dimensions.

### **PHYSICAL PROPERTIES**

Form	Black rubber			
Hydrostatic pressure resistance (ASTM D5385)	690 kPa / 70 m maximum			
Joint movement capability	Up to 50 mm with center bulb			
Tensile strength (ASTM D573 for 14 days @ 70 °C)	13.40 MPa			
Elongation at break (ASTM D573 - 14 days @ 70 °C)	751%			
Compression Set (ASTM D395 - @70 °C for 22 hrs, 25% compression employed)	14.2%			
Shore A Hardness (ASTM D2240 - 14 days @ 70 °C)	A/74/1 (+4)			
Water absorption (ASTM D570)	0.07%			
Abrasion (ISO 4649:2017)	<220 mm <sup>3</sup>			
Tear growth resistance (ISO 34:2004)	>5.0 N/mm			
Rebound Resilience (ISO 4662:2009)	>20 %			
Rubber water-stop	Type	Section width in mm	Minimum radius	
			On flat m	On edge mm
Center bulb	K	355	8.75	230
	A	230	8.00	150
	C	150	7.00	150
Plain web	L	230	8.00	150
	B	150	7.00	150

### **APPLICATION**

**durajoint** rubber waterstop with correctly welded intersections are positioned as per the engineer's drawing and mechanically fixed in place to shutters and reinforcing to prevent movement when casting concrete. The waterstops are encapsulated by the concrete and to ensure effectiveness of the waterstop it is important that the fresh concrete be thoroughly vibrated to release any air.

#### Vulcanising instructions

See Methodology: Cold Bonding Rubber.

### **MODEL SPECIFICATIONS**

#### **durajoint rubber center bulb waterstop**

High performance waterstops for expansion joints.

The waterstop will be **durajoint** rubber center bulb waterstop, an extruded high-grade rubber applied in accordance with the recommendations of **a.b.e.**®

#### **durajoint rubber dumbell waterstop**

High performance waterstops for contraction joints with no shear movement.

The waterstop will be **durajoint** rubber dumbell waterstop, an extruded high-grade rubber applied in accordance with the recommendations of **a.b.e.**®

## STORAGE

Should be stored protected from extreme weather conditions.

## HEALTH & SAFETY

Product safety information required for safe use is not included. Before handling, read product and safety data sheets and container labels for safe use, physical and health hazard information. The safety data sheet is available from your local **a.b.e.**® sales representative.

## IMPORTANT NOTE

This data sheet is issued as a guide to the use of the product(s) concerned. Whilst **a.b.e.**® endeavours to ensure that any advice, recommendation, specification or information is accurate and correct, the company cannot accept any liability for application – because **a.b.e.**® has no direct or continuous control over where and how **a.b.e.**® products are applied.

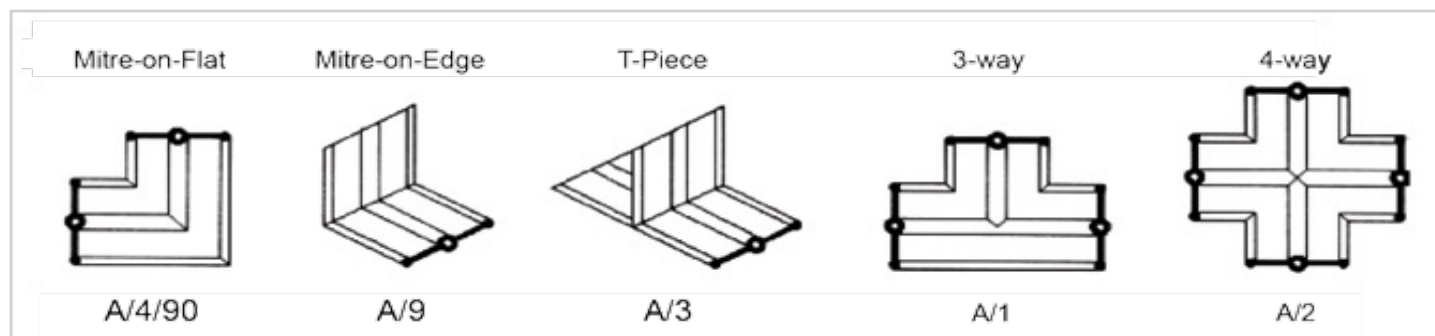
## FURTHER INFORMATION

Where other products are to be used in conjunction with this material, the relevant technical data sheets should be consulted to determine total requirements.

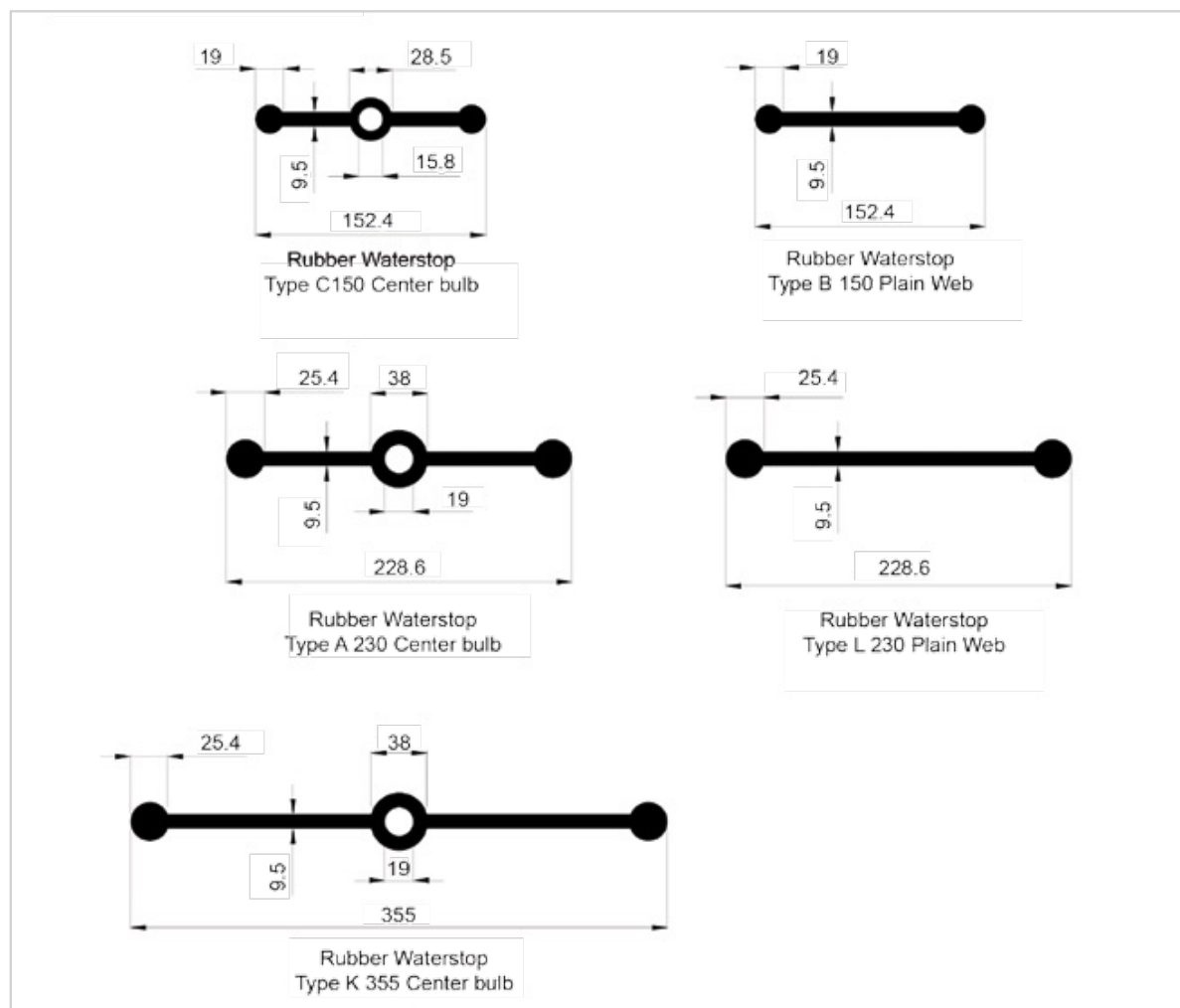
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## STANDARD INTERSECTIONS



## STANDARD PROFILES



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