

# SURE-STOP® RUBBER WATERSTOP

## PRODUCT DESCRIPTION

CORKJOINT offers a wide range of rubber waterstops designed to be easily integrated into joints in concrete, providing a seal, to prevent the migration of water through the joint.

Designed to withstand long term movement, CORKJOINT's Sure-Stop Rubber Waterstops are ideal for joints in bridges, water retaining and excluding structures and are manufactured to international standards.

Sure-Stop Rubber Waterstops are available in 150mm, 230mm, 305mm and 500mm widths and can be manufactured from natural, neoprene or hypalon rubber to suit your specifications.

A range of factory made and quality controlled intersections can also be provided and they can be factory vulcanized to straight lengths eliminating some of the on site vulcanizing. Hot and cold vulcanizing kits are available for on site joining requirements.

CORKJOINT can provide training to your labour so vulcanizing can be performed without failures (the main cause of water-stop joint leakage). Please refer to our hot vulcanizing and cold bonding procedure instructions.

## ADVANTAGES

- High degree of elasticity to accommodate cyclic thermal movements
- High elongation to cater for subsidence and seismic movement
- Withstands high water pressure
- Hot vulcanised site joins

## AREAS OF APPLICATION

### Water retaining structures:

- Sewage treatment plants
- Water treatment plants
- Swimming pools
- Reservoirs
- Dams and spillways
- Water tank
- Diversion tunnels

### Water excluding structures:

- Basement areas
- Underground car parks
- Tunnels
- Retaining walls
- Suspended slabs
- Pits
- Roof slabs

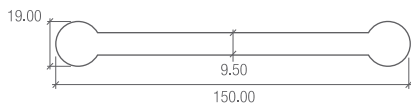
## PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	RESULT
Tensile Strength MPa	BS 903: Part A2: 1995	21.6
Elongation at Break %	BS 903: Part A2: 1995	530
Hardness, IRHD	BS 903: Part A26: 1995	66
Compression Set (22 hrs @ 70°C)	BS 903: Part A6: 1992	44
Immersion in Distilled Water (48 hrs/70°C Volume Change %)	BS 903: Part A16: 1987	1
Ozone Resistance (10 pphm/24 hrs/20% strain/40°C)	BS 903: Part A43: 1990	No Crack
Density, g/cm <sup>3</sup>	BS 903: Part A1: 1996	1.12

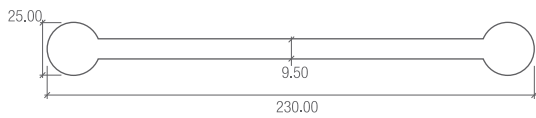
NOTE: The above test results are from an independent laboratory test report dated 29 September 2010, Reference Number QA/2010/0919/1. Project specific material properties can be custom compounded to suit. Material properties can vary between batches.

## PRODUCT DIMENSIONS

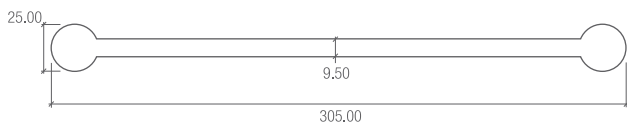
### FOR CONSTRUCTION JOINTS



**150PD**



**230PD**

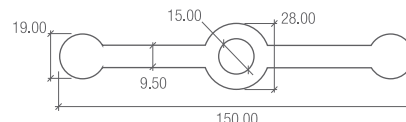


**305PD**

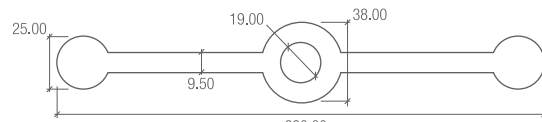


**500PD**

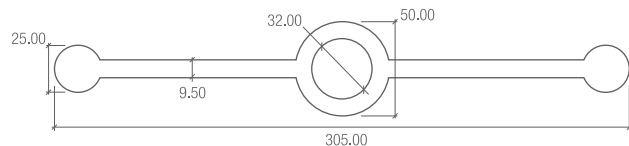
### FOR EXPANSION JOINTS



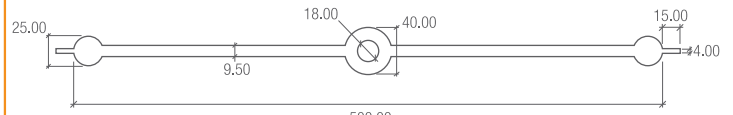
**150CB**



**230CB**



**305CB**



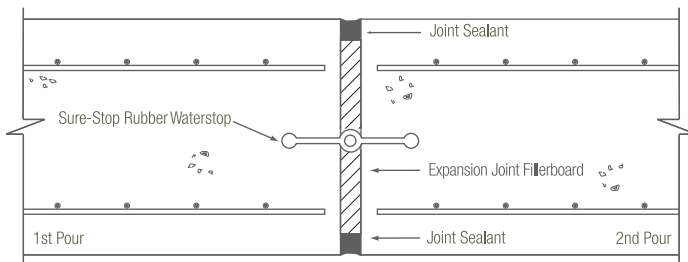
**500CB**

NOTE: Full drawing dimension profiles are available upon request



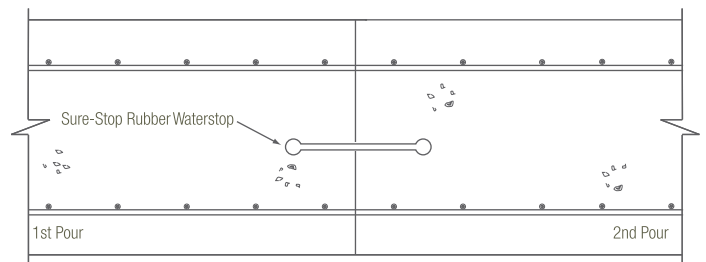
## TYPICAL APPLICATIONS

### EXPANSION JOINT



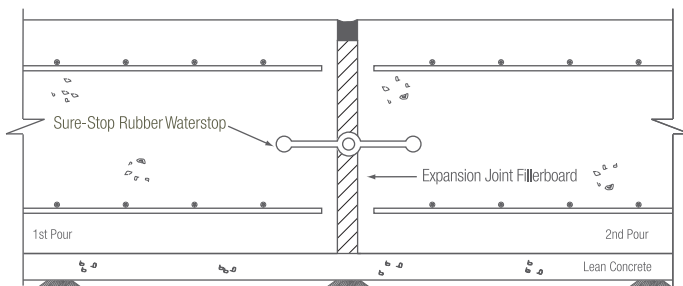
WATER RETAINING / EXCLUDING

### CONSTRUCTION JOINT

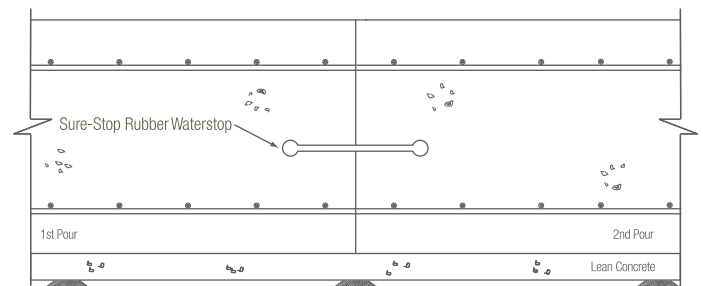


WATER RETAINING / EXCLUDING

### STANDARD DETAIL OF WALL APPLICATIONS



WATER RETAINING / EXCLUDING

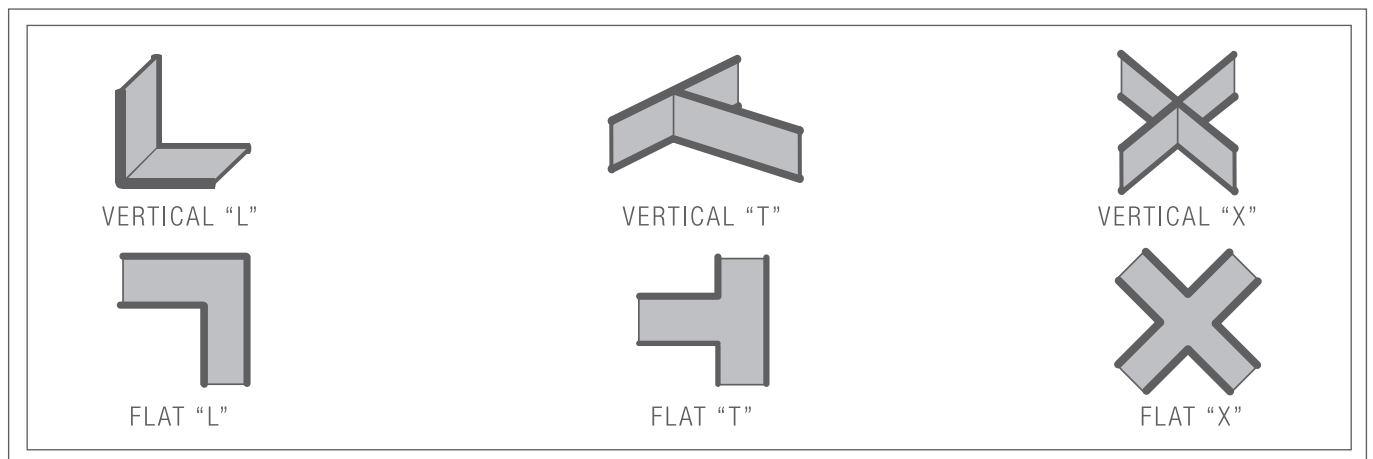


WATER RETAINING / EXCLUDING

### STANDARD DETAIL OF GROUND SLAB APPLICATIONS

## FACTORY MADE INTERSECTIONS

Wide range of standardized prefabricated intersection pieces are available allowing easy site joining.



Other styles are available in range and special types can be manufactured to your requirements.

## SITE JOINING

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### HOT VULCANISING JOINING PROCEDURES

1. Pre-heat the hot vulcaniser unit for approximately 30-45 minutes prior to placement of the Sure-Stop Rubber Waterstop joins into it. The hot vulcaniser must be set at a temperature between 140-150 degree celsius to successfully cure the rubber compounded joint.
2. Cut each end of the Sure-Stop Rubber Waterstop that are to be joined, square and straight.
3. Wire brush up to 2" wide all around the Sure-Stop Rubber Waterstop and on the ends to roughen the surface.
4. Clean the Sure-Stop Rubber Waterstop surface with solvent cleaner using a paint brush. Apply liberally up to 2" around the Sure-Stop Rubber Waterstop and on the ends. Allow drying before the next step.
5. Liberally apply 1 coat of CORKJOINT Rubber Adhesive by brush up to 2" wide all around the waterstop and on the ends. Wait for adhesive to go tacky before the next step.
6. Cut the rubber cover/compound with scissors into 2 pieces 1" wide and in length by the wide of the Sure-Stop Rubber Waterstop. Place these pieces on each end on the rubber waterstop and press firmly into position. Now cut small pieces of compound that are similar sizes to the diameter of the outside dumbbell section of the waterstop and firmly press them into position on each end of the rubber waterstop profile. If there is a centrebulb section to the rubber waterstop, then also cut a piece for each side and fit into position. Once this has been completed, firmly press the 2 pieces of rubber waterstop together at their ends.
7. Now cut 1" wide section of rubber compound long enough so it can wrap around the Sure-Stop Rubber Waterstop. This section must be centrally placed over the join and wrap fully around the rubber waterstop. The rubber waterstop join is now ready to be placed into the hot vulcaniser.
8. Once the correct temperature has been achieved, then the joint is placed into position and the lid of the hot vulcaniser is clamped over the top of the Sure-Stop Rubber Waterstop for approximately 30-40 minutes.
9. Once the 30-40 minutes time frame has been achieved, unclamp the Sure-Stop Rubber Waterstop and remove it from the hot vulcaniser. Allow the rubber waterstop to cool for about 20 minutes before any excessive movement is placed on the join.

### COLD BONDING JOINING PROCEDURES

CORKJOINT Sure-Stop Rubber Waterstop can be cold bonded using our special Adhesive Kits but it is only recommended for construction joint applications. Refer to CORKJOINT'S cold bonding procedures which is available upon request.

## HEALTH AND SAFETY INFORMATION

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Do not apply highly flammable adhesive near smoke or naked flame. In case of fire, extinguish with carbon dioxide, dry chemical or foam fire extinguisher.

As with all construction chemical products caution should be exercised. Protective clothing such as gloves and goggles should be worn. Treat any splashes to the skin or eyes with fresh water immediately. Should any of the products be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately.

For further information or advice on health and safety precautions, safe handling, storage and correct disposal of products, please refer to the most recent product Material Safety Data Sheet (MSDS), which is available upon request.

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The information and the recommendations relating to the application and end use of this product are given in good faith and are based on the information provided by the manufacturer of the product and / or the Company's current knowledge and experience in connection with the product when properly stored, handled and applied under normal conditions and no liability of final function at the job site is assumed. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability of or fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written and / or oral recommendations, or from any other advice offered by the Company. No responsibility or liability by the Company will be accepted for misuse, misreading or derivation from the recommended guidelines in respect of this product and the user shall determine the suitability of the product for his intended use and assume all risks and liability in connection therewith. The information contained in this brochure may change at any time without notice.

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