

DESCRIPTION

LaMaCo offer a wide range of rubber waterstop 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, LaMaCo **Castjoint E Swellable** are ideal for joints in bridges, water retaining and excluding structures and are manufactured to international standards.

Castjoint E Swellable are available in 200mm, 250mm & 300 and 350mm 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 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 the on site joining requirements.

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

AREA OF APPLICATION

Water retaining

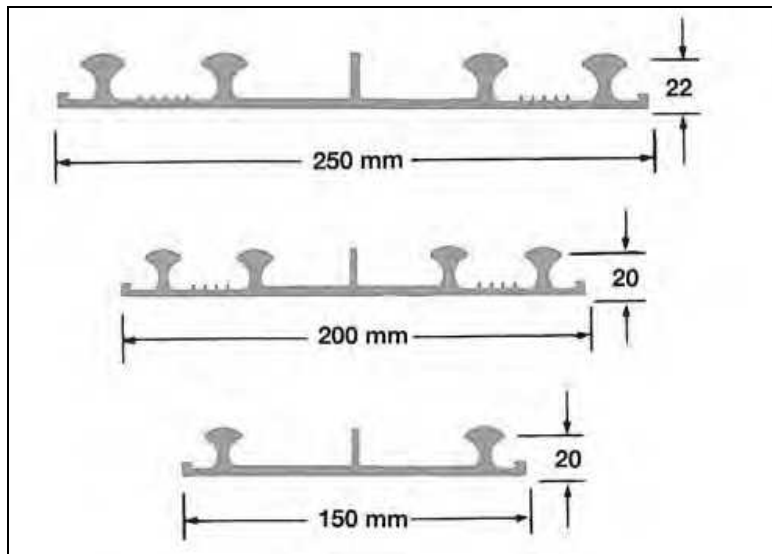
- Sewage treatment plants
- Water treatment plants
- Swimming pools
- Reservoirs
- Dams and spillways
- Water tank
- Diversion tunnels

Water excluding

- Basements area
- Underground car parks
- Tunnels
- Retaining walls
- Suspended slabs
- Pits
- Roof slabs

ADVANTAGES

- High Degree of elasticity to accommodate cyclic thermal movements
- High elongation to clear for subsidence and seismic movement
- Withstands high water pressure
- Hot vulcanized site joints



Model: **Castjoint E Swellable**
 Type of Application System: External Type Swellable Rubber Waterstop For Construction/Construction Joint

Size of Width: 200mm **Castjoint E Swellable 200**
 250mm **Castjoint E Swellable 250**
 300mm **Castjoint E Swellable 300**

Typical Properties

Item		Natural Rubber	Synthetic Rubber	Water Expansion Waterproof Line
Hardness (Shore A)		60±5	60±5	55±10
Tensile Strength (Mpa)	Before expansion	≥ 18	≥ 16	≥ 6
	After expansion	-	-	≥ 6
Elongation at break (%)		≥ 450	≥ 400	≥ 500
Constantly Compression Permanent Deformation(%)		≤ 36	≤ 35	-
		≤ 20	≤ 20	≤ 25
Brittle Temperature (%)		≤ -50	≤ -40	≤ -40
Hot Air Aging Test (70°C*72h)	change of hardness	≤ ±8	≤ ±8	≤ ±10
	reduce rate of breaking strength(%)	≤ 10	≤ 10	≤ 15
	reduce rate of breaking expansion(%)	≤ 20	≤ 20	≤ 25
Water Absorption Rate of Volume Expansion(%)		-	-	≥ 100
Adhesive Strength of Galvanized Sheet and Rubber (Mpa)		-	-	≥ 6

SITE JOINING**Hot Vulcanising Joining Procedures**

- Pre-heat the hot vulcaniser unit for approximately 30-45 minutes prior to placement of the **Castjoint E Swellable** into it. The hot vulcaniser must be set at a temperature between 140-150 degree celcius to successful cure the rubber compounded joint.
- Cut each end of the **Castjoint E Swellable** that are to be joined, square and straight.
- Wire brush up to 2" wide all around the **Castjoint E Swellable** and on the ends to roughen the surface.
- Clean the **Castjoint E Swellable** surface with solvent cleaser using a paint brush. Apply liberally up to 2" around the **Castjoint E Swellable** and on the ends. Allow drying before the next step.
- Liberally apply 1 coat of LaMaCo 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.
- Cut the rubber cover/compound with scissors into 2 pieces 1" wide and in length by the wide of the **Castjoint E Swellable**. 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 trhe diameter of the outside dumbell section of the waterstop and firmly 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.
- Now cut 1" wide section of rubber compound long enough so it can wrap around the **Castjoint E Swellable**. 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.
- 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 **Castjoint E Swellable** 30-40 minutes.
- Once the 30-40 minutes time frame has been achieved, unclamp the **Castjoint E Swellable** 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

LaMaCo **Castjoint E Swellable** can be cold bonded using our special Adhesive Kits but it is only recommended for construction joint applications. Refer to LaMaCo's cold bonding procedures which is available upon request.

Handling Precautions

Mandatory and recommended industrial hygiene procedures should be followed whenever our products are being handled and processed. For additional information please consult the corresponding product safety data sheets and the brochure "Hygienic Precautions for Handling Plastic Products"

The General Term & Conditions

All recommendations for use of our product, whether given by us in writing, verbally, or to be implied from the results of tests carried out by us are based on the current state of our knowledge. Notwithstanding any such recommendations the Buyer shall remain responsible for satisfying himself that the products as supplied by us are suitable for this intended process or purpose. Since we cannot control the application, use or processing of the products, we cannot accept responsibility therefore. The Buyer shall ensure that the intended use of the products will not infringe any third party's intellectual property rights. We warrant that our products are free from defects in accordance with and subject to our general conditions of supply.



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