

# DENSOSTRIP

## INSTRUCTIONS FOR USE

### Application

#### (a) Manhole Joints:

Lower the upper unit into position ensuring correct alignment taking care not to damage or dislodge the Densostrip. In cold weather gentle warming of the Densostrip before closing the joint will assist compression. Continue to install the remaining units in a similar manner.

Ensure that the Densostrip is compressed to half its thickness in the joint. If necessary add extra weight to the top unit.

When compression is complete trim off and remove any exudation of Densostrip from inner surfaces to prevent obstruction.

Units may then be filled or pressure tested to a 5m head of water.

### Application

#### (b) Box Culverts: Joints using mechanical compression (e.g. pipe and box culvert joints)

Select the recommended size of Densostrip (see publication 410.4.2012 - Densostrip).

Remove dirt or moisture from the primed surface.

Position the Densostrip as shown in fig 7 H-I.

Apply Densostrip by heating the side opposite the interleaving using a gas torch and pressing it onto the primed surface of the sloping face (fig 5).

Densostrip must be applied all around the joint with no gaps. Mitre Densostrip into corners of right angle joints (fig 6). To join Densostrip, taper the ends by cutting through with a hot knife to provide a 45° bevel, pressing the ends together and smoothing with a hot knife.

### Diagrams of the correct application procedure



Fig 5. Densostrip is heated on one side and pressed firmly into position

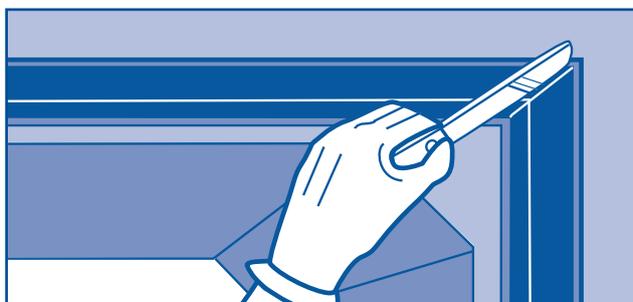


Fig 6. Densostrip should be mitred into corners and right angles

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**(b) Box Culverts:** Place second unit in position and draw the units together until the Densostrip is compressed. Note: Hardboard placed under the units will ensure correct vertical positioning and avoid scoop-up of gravel into the joint. Use of a crane to support the second unit will assist alignment and minimise the compression forces required.

Pipes and box culverts should be jointed using a hydraulic cable puller or Tirfor with pulleys to ensure that Densostrip is compressed to half its original thickness. A force of approx 1 tonne (10kN) per metre of joint run is required to close the joint in 10-20 minutes at normal temperatures. Maintain the force until the required compression is obtained.

With small diameter pipes it is advisable to partially backfill and tamp down as work progresses to avoid the line snaking as further units are pulled into place.

### Diagrams of the correct application procedure

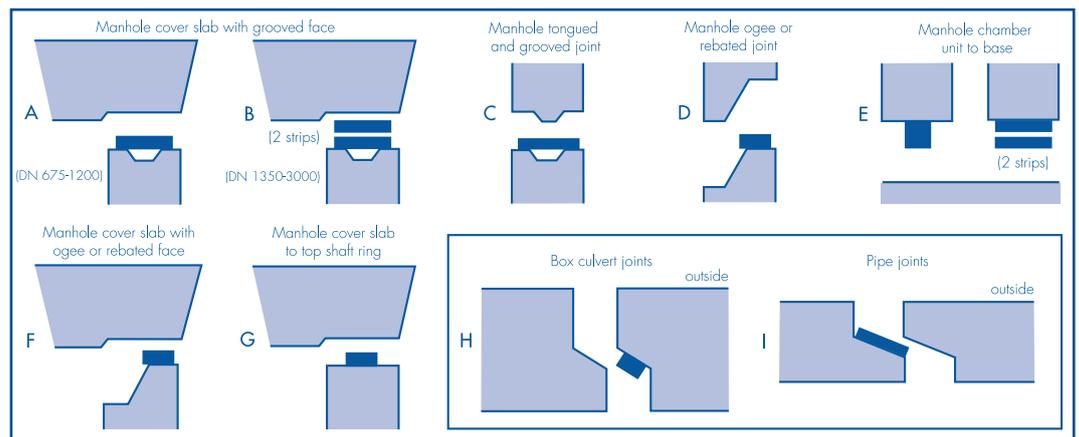


Fig 7. Correct Densostrip position shown in cross section for sealing manhole, box culvert and pipe joints

### General Notes:

1. Handle concrete units with proper equipment and prevent damage to joint faces.
2. Where there is a risk of over compression the specified joint width can be maintained by positioning hardwood or plywood spacers at intervals around the joint away from Densostrip.
3. Densostrip develops the adhesion required to provide a flexible watertight seal as it is compressed in the joint. Joints should not be made without adequate compression or by chaulking.
4. In cold weather, store Densostrip in a warm place prior to use. Gentle warming of the Densostrip with a gas will assist compression of the joint in cold weather.

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### Safety Data

- Storage:** In cold weather, store Densostrip in a warm place prior to use. Gentle warming of the Densostrip with a gas will assist compression of the joint in cold weather.
- Handling:** Wear gloves to minimise skin contact and to protect against burns when heating Densostrip.

### Action in case of

- Fire:** Extinguish with dry powder, carbon dioxide or chemical foam.  
Air breathing equipment may be necessary in case of a large fire.
- Skin contact:** Wash with soap and water.
- Eye Contact:** Irrigate eyes thoroughly with clean water.
- Skin burns:** Douse area in cold water. Seek medical advice.
- Inhalation:** Remove to fresh air. Seek medical attention if symptoms persist.
- Swallowing:** Seek medical advice.
- Spillage:** Not applicable.
- Disposal:** Incineration or approved dumping.

Safety Data Sheets giving full information are available.



[www.denso.net](http://www.denso.net)



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## INSTRUCTIONS FOR USE

**Use:** Densostrip, is a flexible jointing compound supplied as a preformed strip for making joints between precast concrete units such as manholes, house inspection chambers, pipes, culverts, pedestrian subways, tunnels, shafts and segmental tanks.

**Surface Preparation:** Damaged joints must be properly repaired. Joint surfaces must be clean and dry. When damp, dry by use of gas torch. Brush to remove dust, dirt and loose material (fig 1).

**Priming:** Brush apply one coat of Densostrip Primer to each surface and allow to dry (fig 2). Primed surfaces which have been exposed and have become dull should be re-primed before use.

### Diagrams of the correct application procedure



Fig 1. Joint surfaces should be sound, clean and dry before priming

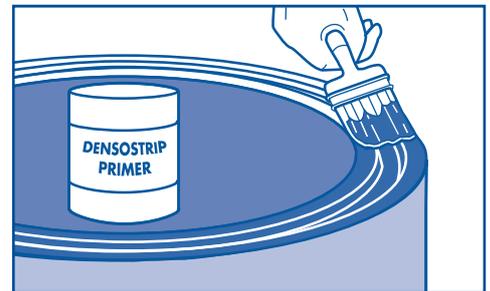


Fig 2. Prime both joint surfaces and allow to dry

### Application

#### (a) Manhole Joints:

**Joints compressed under weight of upper unit (e.g. manhole and house inspection chamber joints).**

Select the recommended size of Densostrip (see publication 410.4.2012 - Densostrip). Remove dirt or moisture from the primed surface. Position the Densostrip according to the type of joint as shown in fig 7 A-G. Apply the Densostrip as shown in fig 3, press into place and remove the interleaving.

Densostrip must be positioned all around the joint with no gaps. To join Densostrip, taper the ends by cutting through with a hot knife to provide a 45° bevel, pressing the ends together and smoothing with a hot knife (fig 4).



Fig 3. Apply Densostrip across the groove and remove the interleaving

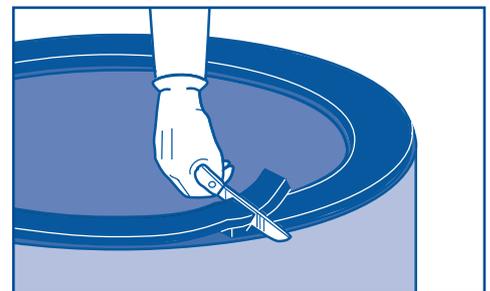


Fig 4. Join Densostrip by tapering the ends 45° with a hot knife