

# Forsheda 140

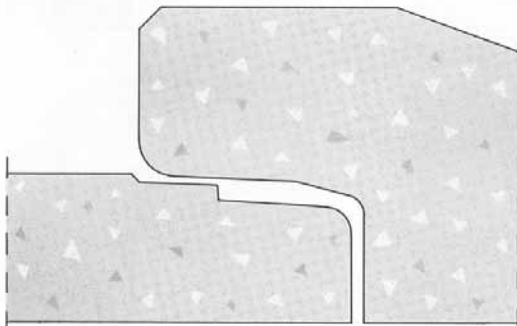
## Lamell

### General application

Forsheda 140 is a prelubricated sliding seal for use on the spigots of concrete pipes, primarily intended for concrete sewers.

### Joint design

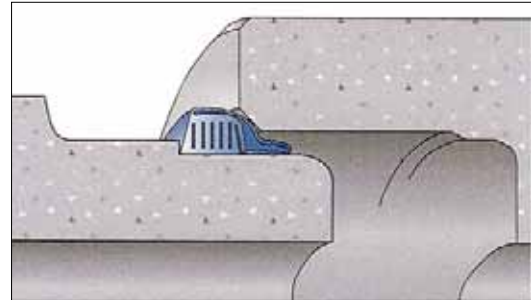
The joint construction shown in the figure is designed so that the prelubricated skin slides into the small gap during installation. This prevents concrete to concrete contact in the joint.



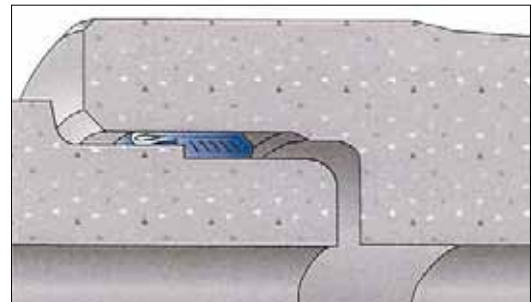
**Joint without Forsheda 140 seal**

### Seal design and Function

The seal is designed as a sliding seal that is placed on the spigot end of the pipe. Forsheda 140 is easy to handle as the lubricant is enclosed in the sliding skin. The patented construction permits installation with very little force as there is no friction between the rubber and concrete. The sliding mantle of the seal includes a built-in locking system which guarantees that the joint will be locked whenever the pipes have been joined. The rectangular cross section of the laminated sealing body makes the seal very flexible and permits it to tolerate certain irregularities in the concrete surface. The sliding mantle locates itself in the small gap between the socket and spigot and thereby becomes an active part of the seal construction.



**Before assembly**



**After assembly**

### Seal performance

Forsheda 140 meets all relevant current European standards. Joint performance is dependent on dimensional accuracy and surface finish of socket and spigot.

Test reports are available from Trelleborg Pipe Seals Lelystad bv on request.

### Material

- Synthetic SBR or EPDM rubber
- Hardness 40±5 IRHD
- Approved in accordance with SS-EN 681-1
- Protected against ozone
- Oil resistant grades are available on request

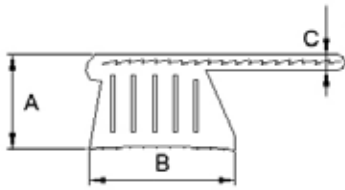
Detailed material specification is available from Trelleborg Pipe Seals Lelystad bv on request.

### Quality assurance

- SS-EN ISO 9001:2000
- British Standard "Kitemark"
- CE-marking

### Seal marking and Box labels

Each seal is marked with seal dimension and the date of manufacture. The box is labelled with the corresponding data.



### Example of sizes

A, mm	B, mm	C, mm
13,5	17,5	2,7
16,5	24,0	2,5
18,5	26,0	3,3
20,0	28,0	2,8
24,5	32,0	3,5
28,0	35,0	5,0
32,0	40,0	5,2

Please contact Trelleborg Pipe Seals for technical advice and joint design recommendations to meet your performance requirements.

Manholes and pipes with Forsheda 140 shall always be laid in accordance with applicable standards and regulations.



### Assembly

a) Stretch the seal onto the spigot, picture 1.



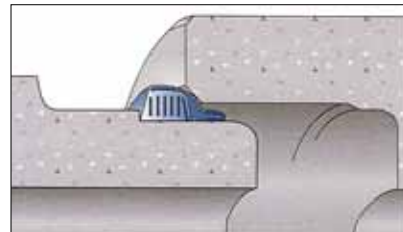
Picture 1

Equalize the stress in the seal by lifting it at a few points, picture 2. It is vital that the seal seats against the shoulder around the whole circumference of the manhole.



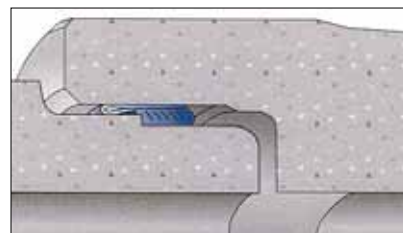
Picture 2

Check that the socket is clean. Centre the spigot in the socket and slide the pipes together, picture 3.



Picture 3

The position of the seal in an assembled pipe is shown in picture 4.



Picture 4

Example of authorities Trelleborg Pipe Seals cooperates with:



Trelleborg Pipe Seals Lelystad B.V.

P.O.Box 62, 8200 AB Lelystad, the Netherlands. Visiting address: Pascallaan 80, 8218 NJ Lelystad, the Netherlands.

Tel: +31(0)320267979, Fax: +31(0)320267980.

www.trelleborg.com/pipeseals