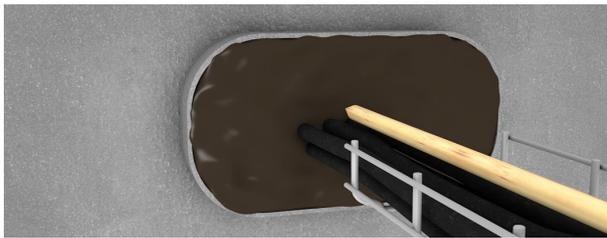


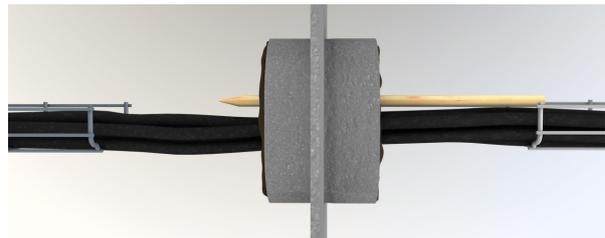
RETROFIT GUIDE, WHEN ADDING OR REMOVING CABLES OR PIPES

MARINE FLEX SYSTEM

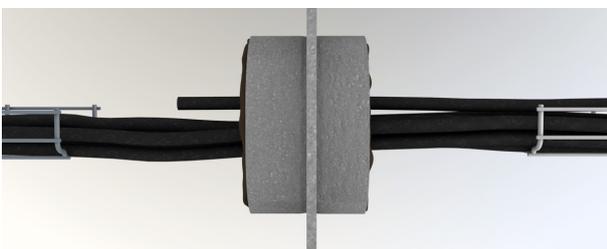
This is a step by step installation guide developed to ensure that maintenance and repair are carried out correctly when adding or removing cables & pipes. (Adding step 1,0. Removing step 2,0)

ADDING CABLE OR PIPE**STEP 1,0**

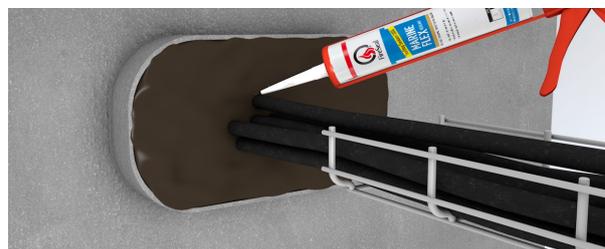
- Distribute the cables / pipes evenly and keep in mind to make room for future new cables / pipes.
- Distance between cable and sleeve must always be minimum 5mm (0,2").
- Distance between pipe and sleeve must always be minimum 10mm (0,4").
- For watertight installations, cables must be separated with minimum 5mm (0,2") of Marine Blanket.

STEP 1,1

- Penetrate the first layer of Marine Flex sealant, the Marine Blanket and the second layer of Marine Flex Sealant
- Use a pointed stick of wood in the appropriate thickness.
- The hole should be as tight as possible against the cable / pipe to avoid extra work later with insulation.

STEP 1,2

- Insert the cable / pipe through the sleeve.
- Fill cavities with Marine Blanket from both sides of the sleeve.

STEP 1,3

- Seal and fill around the cable with Marine Flex Sealant.
- Let the Marine Flex Sealant flow out on the cable / pipe.
- Smooth the surface of the Marine Flex Sealant using a sponge with soapy water or a piece of Marine Blanket.

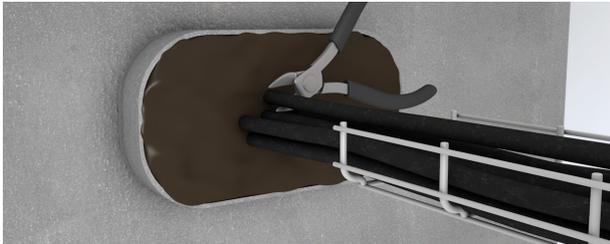
FIRESEAL RETROFIT GUIDE, WHEN ADDING OR REMOVING CABLES OR PIPES



MARINE FLEX SYSTEM

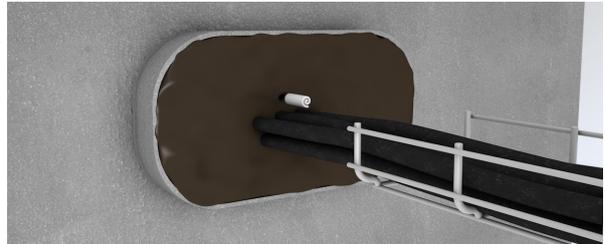
REMOVING CABLE OR PIPE

STEP 2,0



- Cut the cable / pipe off and cut it loose from the Marine Flex Sealant
- Pull out the cable / pipe from sleeve

STEP 2,1



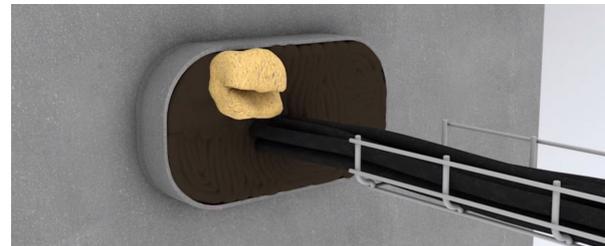
- Fill the entire hole with Marine Blanket. In some cases, it can be easier to fill from both sides
- Use a wooden stick or similar to push in the Marine Blanket

STEP 2,2



- Fill the surface of the hole with approx. 15mm thickness of Marine Flex Sealant.
- Apply in the same way from both sides of the penetration.

STEP 2,3



- Smooth out the surface of the Marine Flex Sealant using a sponge with soapy water or a piece of Marine Blanket.

Verification method of tightness [FS-QP2010-04]:

Application	Method
Non watertight installation	Visual examination [FS-QP2010-04]
Watertight installation	Leak test [FS-QP2010-04]