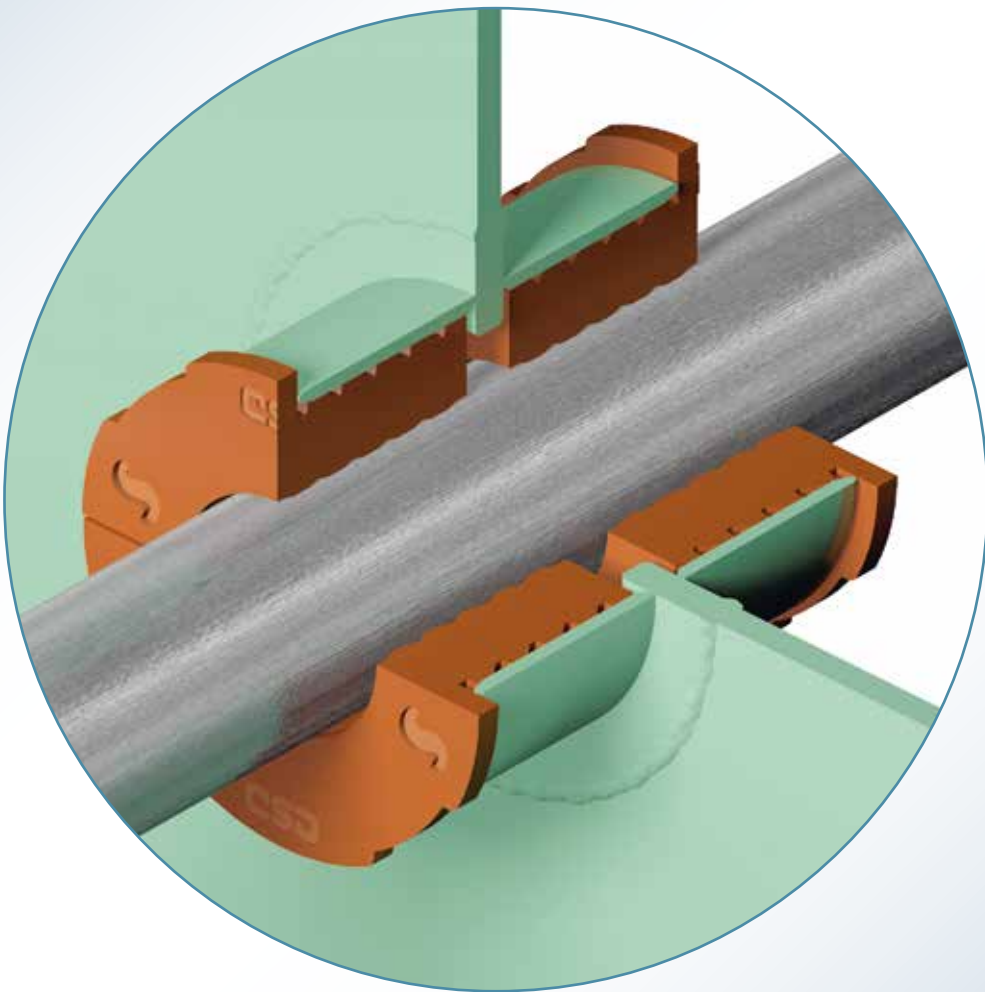




# INSTALLATION INSTRUCTIONS

## SLIPSIL<sup>®</sup> SEALING PLUGS

### FOR PIPE/CABLE DUCTS



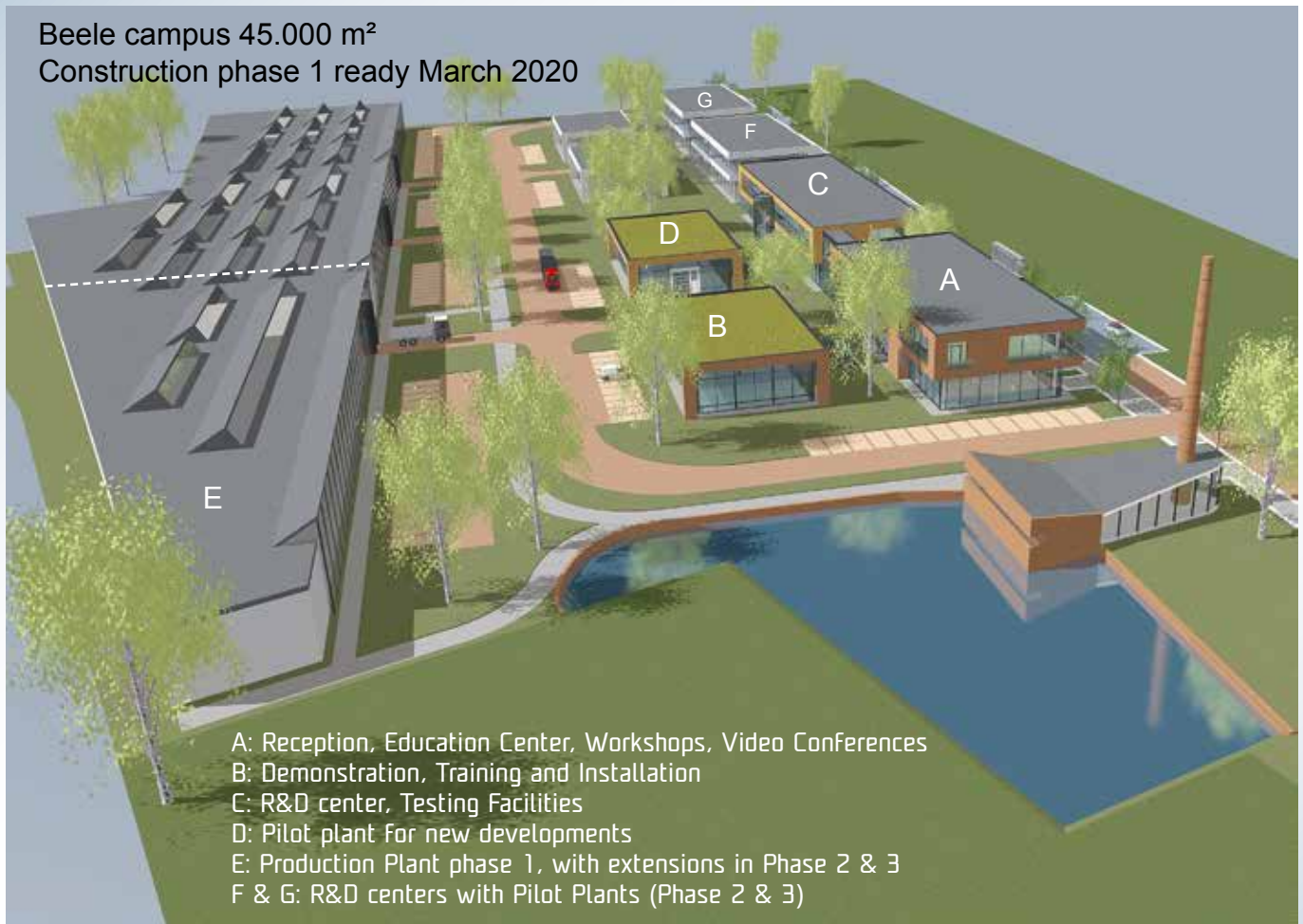
# slipsil<sup>®</sup>



# SEALING VALLEY

KNOWLEDGE TRANSFER, EDUCATION AND TRAINING

Beele campus 45.000 m<sup>2</sup>  
Construction phase 1 ready March 2020



#### Copyright

: BEELE Engineering BV/CSD International BV, Aalten, the Netherlands.  
Proprietary rights on all drawings and technical data released in this brochure. © 1997-2020

#### Edition

: February 2020

#### Note

: No part of this publication may be reproduced without explicit written approval of BEELE Engineering BV.

#### Research & Development

: BEELE Engineering BV, Aalten, the Netherlands.

#### Note

: The manufacturer reserves the right to make dimensional and design modifications without prior notification.

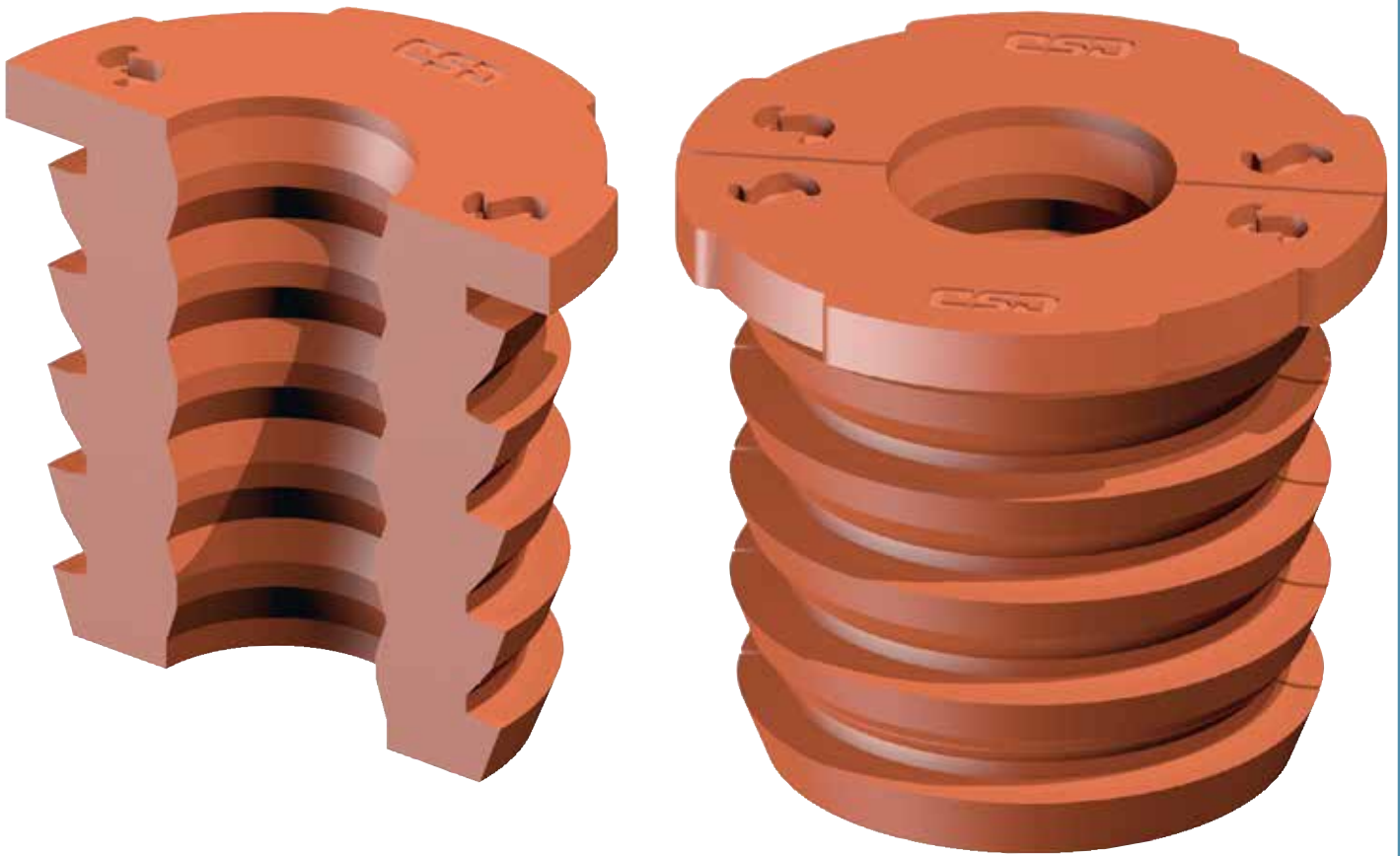
#### ®

: ACTIFOAM, AQUASTOP, BEEBLOCK, BEEBOND, BEELE, BEELE WE CARE, BEESEAL, BEETITE, CONDUCTON, CONTITITE, CONTROFIL, CRUSHER, CRUSHNOF, CSD, CSD THE SIMPLE SEAL SYSTEM, DYNATITE, FIRAQUA, FIREQUAKE, FIRSTO, FISSIC, FIWA, FYLLOFYS, GLANDMOD, LEAXEAL, MULTI-ALL-MIX, NOFIRNO, profiles NOFIRNO gaskets, RAPID TRANSIT SYSTEM, RIACNOF, RISE, RISWAT, SEALING VALLEY, \$, SLIPSIL, flanges SLIPSIL plugs, ULEPSI, XATTAX and YFESTOS are registered trade marks of BEELE Engineering.

#### brochure code

: installation SLIPSIL

## INSTALLATION INSTRUCTIONS SLIPSIL® CONDUIT SLEEVES AND SLIPSIL® SEALING PLUGS



## INSTALLATION INSTRUCTIONS

### SLIPSIL® CONDUIT SLEEVES AND SLIPSIL® SEALING PLUGS

|                                                                                     | PLUG<br>SERIES                                                       | CONDUIT<br>SLEEVE    | PLUG<br>LENGTH | PIPE<br>DIAMETER |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------|----------------------|----------------|------------------|
|    | 25                                                                   | 24.5 - 25.6          | 54 -----       | 5 - 12           |
|                                                                                     | 27                                                                   | 26.5 - 27.6          | 54             | 5 - 15           |
|                                                                                     | 28                                                                   | 27.5 - 28.5          | 54             | 5 - 15           |
|                                                                                     | 30                                                                   | 29.5 - 30.5          | 54             | 5 - 16           |
|                                                                                     | 32                                                                   | 31.5 - 32.5          | 54             | 5 - 16           |
|                                                                                     | 34                                                                   | 33.5 - 34.5          | 54             | 5 - 18           |
|                                                                                     | 35                                                                   | 34.5 - 35.7          | 54             | 5 - 20           |
|                                                                                     | 37                                                                   | 36.5 - 37.7          | 54             | 5 - 20           |
|                                                                                     | 40                                                                   | 39.5 - 40.7          | 54             | 5 - 22           |
|                                                                                     | <b>41</b>                                                            | <b>40.5 - 41.7</b>   | <b>54</b>      | <b>5 - 25</b>    |
|   | 43                                                                   | 42.5 - 43.7          | 54             | 5 - 28           |
|                                                                                     | 50                                                                   | 49.5 - 50.7          | 66             | 6 - 32           |
|                                                                                     | 52                                                                   | 51.0 - 52.2          | 66             | 6 - 34           |
|                                                                                     | 53                                                                   | 52.0 - 53.7          | 66             | 6 - 34           |
|                                                                                     | <b>55</b>                                                            | <b>54.0 - 55.7</b>   | <b>66</b>      | <b>6 - 34</b>    |
|                                                                                     | 57                                                                   | 56.0 - 57.7          | 66             | 14 - 40          |
|                                                                                     | 60                                                                   | 59.0 - 60.7          | 66             | 14 - 40          |
|                                                                                     | <b>62</b>                                                            | <b>61.0 - 62.7</b>   | <b>66</b>      | <b>14 - 40</b>   |
|                                                                                     | 67                                                                   | 66.0 - 67.7          | 66             | 22 - 50          |
|                                                                                     | 68                                                                   | 67.0 - 68.7          | 66             | 20 - 50          |
|  | <b>70</b>                                                            | <b>69.0 - 70.7</b>   | <b>66</b>      | <b>22 - 50</b>   |
|                                                                                     | 75                                                                   | 74.0 - 75.7          | 66             | 22 - 50          |
|                                                                                     | 78                                                                   | 77.0 - 78.7          | 66             | 22 - 50          |
|                                                                                     | 80                                                                   | 79.0 - 80.7          | 66             | 28 - 60          |
|                                                                                     | <b>82</b>                                                            | <b>81.0 - 82.7</b>   | <b>66</b>      | <b>28 - 60</b>   |
|                                                                                     | 90                                                                   | 89.0 - 90.7          | 66             | 40 - 64          |
|                                                                                     | 94                                                                   | 93.0 - 94.7          | 66             | 40 - 64          |
|                                                                                     | 97                                                                   | 96.0 - 97.7          | 66             | 40 - 64          |
|                                                                                     | <b>100</b>                                                           | <b>99.0 - 100.7</b>  | <b>66</b>      | <b>40 - 75</b>   |
|                                                                                     | 102                                                                  | 101.0 - 102.7        | 66             | 40 - 75          |
|  | 103                                                                  | 102.0 - 103.7        | 66             | 26 - 75          |
|                                                                                     | 105                                                                  | 104.0 - 105.7        | 66             | 40 - 75          |
|                                                                                     | <b>107</b>                                                           | <b>106.0 - 107.7</b> | <b>66</b>      | <b>40 - 76</b>   |
|                                                                                     | 110                                                                  | 109.0 - 110.7        | 66             | 48 - 80          |
|                                                                                     | 118                                                                  | 117.5 - 119.2        | 66             | 60 - 90          |
|                                                                                     | 122                                                                  | 121.0 - 122.7        | 66             | 60 - 92          |
|                                                                                     | <b>125</b>                                                           | <b>124.0 - 125.7</b> | <b>66</b>      | <b>60 - 92</b>   |
|                                                                                     | 128                                                                  | 127.0 - 128.7        | 66             | 60 - 92          |
|                                                                                     | <b>131</b>                                                           | <b>130.5 - 132.2</b> | <b>66</b>      | <b>60 - 92</b>   |
|                                                                                     | 146                                                                  | 145.0 - 146.7        | 79 -----       | 88 - 120         |
|  | <b>150</b>                                                           | <b>149.0 - 150.7</b> | <b>79</b>      | <b>88 - 125</b>  |
|                                                                                     | 152                                                                  | 151.0 - 152.7        | 79             | 88 - 125         |
|                                                                                     | 154                                                                  | 153.0 - 154.7        | 79             | 88 - 125         |
|                                                                                     | 156                                                                  | 155.0 - 156.7        | 79             | 88 - 125         |
|                                                                                     | 160                                                                  | 159.0 - 160.7        | 79             | 88 - 125         |
|                                                                                     | 190                                                                  | 189.0 - 190.7        | 79             | 110-160          |
|                                                                                     | 200                                                                  | 199.0 - 200.7        | 79             | 110-160          |
|                                                                                     | 203                                                                  | 202.0 - 203.7        | 79             | 110-168          |
|                                                                                     | <b>207</b>                                                           | <b>206.0 - 207.7</b> | <b>79</b>      | <b>110-168</b>   |
|                                                                                     | 250                                                                  | 249.0 - 250.7        | 91             | 160-200          |
|  | 260                                                                  | 259.0 - 260.7        | 91             | 160-219          |
|                                                                                     | 300                                                                  | 299.0 - 300.7        | 91             | 160-250          |
|                                                                                     | 339                                                                  | 338.5 - 340.2        | 91 -----       | 200-273          |
|                                                                                     | <i>marked series for application in the SLIPSIL® conduit sleeves</i> |                      |                |                  |
|                                                                                     |                                                                      |                      |                |                  |

To select the right type of sealing plug, look for the plug series to be used on the basis of the outer diameter of the service pipe. Then make a choice for the plug type in the table of the selected plug series.

For instance: a copper pipe of 42 mm OD has to be ducted. Select the plug series on the basis of the ID of the conduit sleeve to be used, and the OD of the ducted pipe (67 up to 107 can be your choice). When a conduit sleeve 88.9x3.2 mm (ID = 82.5 mm) will be used a sealing plug 82/42-44 is the right choice. If a 54 mm OD copper pipe has to be ducted through a sleeve with an ID of 107.1 mm, plug type 107/54-56 has to be selected. See the tables of the series 82 and 107 on page 39 and 40.

Note: the sealing plugs with a thin wall (for instance 53/34) are not easy to install in undersized conduit openings. It is advisable to select a larger plug series (for instance 60/34-36).

## INSTALLATION INSTRUCTIONS

### SLIPSIL® CONDUIT SLEEVES AND SLIPSIL® SEALING PLUGS

| cable/<br>pipe<br>diameter | plug<br>type | article<br>number | cable/<br>pipe<br>diameter | plug<br>type | article<br>number | cable/<br>pipe<br>diameter      | plug<br>type | article<br>number |
|----------------------------|--------------|-------------------|----------------------------|--------------|-------------------|---------------------------------|--------------|-------------------|
| blind                      | 25/0         | 40.0100           | blind                      | 34/0         | 40.0600           | 18-20                           | 40/18-20     | 40.0915           |
| 5-6                        | 25/5-6       | 40.0105           | 5-6                        | 34/5-6       | 40.0605           | 20-21                           | 40/20-21     | 40.0916           |
| 6-7                        | 25/6-7       | 40.0106           | 6-7                        | 34/6-7       | 40.0606           | 21-22                           | 40/21-22     | 40.0917           |
| 7-8                        | 25/7-8       | 40.0107           | 7-8                        | 34/7-8       | 40.0607           | 22                              | 40/22        | 40.0918           |
| 8-9                        | 25/8-9       | 40.0108           | 8-9                        | 34/8-9       | 40.0608           | 40 multi is max. 2x10, 3x7, 5x7 |              |                   |
| 9-10                       | 25/9-10      | 40.0109           | 9-10                       | 34/9-10      | 40.0609           | blind                           | 41/0         | 40.1000           |
| 10-11                      | 25/10-11     | 40.0110           | 10-11                      | 34/10-11     | 40.0610           | 5-6                             | 41/5-6       | 40.1005           |
| 11-12                      | 25/11-12     | 40.0111           | 11-12                      | 34/11-12     | 40.0611           | 6-7                             | 41/6-7       | 40.1006           |
| 12                         | 25/12        | 40.0112           | 12-13                      | 34/12-13     | 40.0612           | 7-8                             | 41/7-8       | 40.1007           |
| blind                      | 27/0         | 40.0200           | 13-14                      | 34/13-14     | 40.0613           | 8-9                             | 41/8-9       | 40.1008           |
| 5-6                        | 27/5-6       | 40.0205           | 14-15                      | 34/14-15     | 40.0614           | 9-10                            | 41/9-10      | 40.1009           |
| 6-7                        | 27/6-7       | 40.0206           | 15-16                      | 34/15-16     | 40.0615           | 10-11                           | 41/10-11     | 40.1010           |
| 7-8                        | 27/7-8       | 40.0207           | 16-17                      | 34/16-17     | 40.0616           | 11-12                           | 41/11-12     | 40.1011           |
| 8-9                        | 27/8-9       | 40.0208           | 17-18                      | 34/17-18     | 40.0617           | 12-14                           | 41/12-14     | 40.1012           |
| 9-10                       | 27/9-10      | 40.0209           | 18                         | 34/18        | 40.0618           | 14-16                           | 41/14-16     | 40.1013           |
| 10-11                      | 27/10-11     | 40.0210           | blind                      | 35/0         | 40.0700           | 16-18                           | 41/16-18     | 40.1014           |
| 11-12                      | 27/11-12     | 40.0211           | 5-6                        | 35/5-6       | 40.0705           | 18-20                           | 41/18-20     | 40.1015           |
| 12-13                      | 27/12-13     | 40.0212           | 6-7                        | 35/6-7       | 40.0706           | 20-22                           | 41/20-22     | 40.1016           |
| 13-14                      | 27/13-14     | 40.0213           | 7-8                        | 35/7-8       | 40.0707           | 22-23                           | 41/22-23     | 40.1017           |
| 14-15                      | 27/14-15     | 40.0214           | 8-9                        | 35/8-9       | 40.0708           | 23-24                           | 41/23-24     | 40.1018           |
| 15                         | 27/15        | 40.0215           | 9-10                       | 35/9-10      | 40.0709           | 24-25                           | 41/24-25     | 40.1019           |
| blind                      | 28/0         | 40.0300           | 10-11                      | 35/10-11     | 40.0710           | 25                              | 41/25        | 40.1020           |
| 5-6                        | 28/5-6       | 40.0305           | 11-12                      | 35/11-12     | 40.0711           | 41 multi is max. 2x10, 3x7, 5x7 |              |                   |
| 6-7                        | 28/6-7       | 40.0306           | 12-13                      | 35/12-13     | 40.0712           | blind                           | 43/0         | 40.1100           |
| 7-8                        | 28/7-8       | 40.0307           | 13-14                      | 35/13-14     | 40.0713           | 5-6                             | 43/5-6       | 40.1105           |
| 8-9                        | 28/8-9       | 40.0308           | 14-15                      | 35/14-15     | 40.0714           | 6-7                             | 43/6-7       | 40.1106           |
| 9-10                       | 28/9-10      | 40.0309           | 15-16                      | 35/15-16     | 40.0715           | 7-8                             | 43/7-8       | 40.1107           |
| 10-11                      | 28/10-11     | 40.0310           | 16-17                      | 35/16-17     | 40.0716           | 8-9                             | 43/8-9       | 40.1108           |
| 11-12                      | 28/11-12     | 40.0311           | 17-18                      | 35/17-18     | 40.0717           | 9-10                            | 43/9-10      | 40.1109           |
| 12-13                      | 28/12-13     | 40.0312           | 18-19                      | 35/18-19     | 40.0718           | 10-12                           | 43/10-12     | 40.1110           |
| 13-14                      | 28/13-14     | 40.0313           | 19-20                      | 35/19-20     | 40.0719           | 12-14                           | 43/12-14     | 40.1111           |
| 14-15                      | 28/14-15     | 40.0314           | 20                         | 35/20        | 40.0720           | 14-16                           | 43/14-16     | 40.1112           |
| 15                         | 28/15        | 40.0315           | blind                      | 37/0         | 40.0800           | 16-18                           | 43/16-18     | 40.1113           |
| blind                      | 30/0         | 40.0400           | 5-6                        | 37/5-6       | 40.0805           | 18-20                           | 43/18-20     | 40.1114           |
| 5-6                        | 30/5-6       | 40.0405           | 6-7                        | 37/6-7       | 40.0806           | 20-22                           | 43/20-22     | 40.1115           |
| 6-7                        | 30/6-7       | 40.0406           | 7-8                        | 37/7-8       | 40.0807           | 22-24                           | 43/22-24     | 40.1116           |
| 7-8                        | 30/7-8       | 40.0407           | 8-9                        | 37/8-9       | 40.0808           | 24-25                           | 43/24-25     | 40.1117           |
| 8-9                        | 30/8-9       | 40.0408           | 9-10                       | 37/9-10      | 40.0809           | 25-26                           | 43/25-26     | 40.1118           |
| 9-10                       | 30/9-10      | 40.0409           | 10-11                      | 37/10-11     | 40.0810           | 26-27                           | 43/26-27     | 40.1119           |
| 10-11                      | 30/10-11     | 40.0410           | 11-12                      | 37/11-12     | 40.0811           | 27-28                           | 43/27-28     | 40.1120           |
| 11-12                      | 30/11-12     | 40.0411           | 12-13                      | 37/12-13     | 40.0812           | 28                              | 43/28        | 40.1121           |
| 12-13                      | 30/12-13     | 40.0412           | 13-14                      | 37/13-14     | 40.0813           | 43 multi is max. 2x10, 3x7, 5x7 |              |                   |
| 13-14                      | 30/13-14     | 40.0413           | 14-15                      | 37/14-15     | 40.0814           | blind                           | 50/0         | 40.1200           |
| 14-15                      | 30/14-15     | 40.0414           | 15-16                      | 37/15-16     | 40.0815           | 6-7                             | 50/6-7       | 40.1205           |
| 15-16                      | 30/15-16     | 40.0415           | 16-17                      | 37/16-17     | 40.0816           | 7-8                             | 50/7-8       | 40.1206           |
| 16                         | 30/16        | 40.0416           | 17-18                      | 37/17-18     | 40.0817           | 8-9                             | 50/8-9       | 40.1207           |
| blind                      | 32/0         | 40.0500           | 18-19                      | 37/18-19     | 40.0818           | 9-10                            | 50/9-10      | 40.1208           |
| 5-6                        | 32/5-6       | 40.0505           | 19-20                      | 37/19-20     | 40.0819           | 10-12                           | 50/10-12     | 40.1209           |
| 6-7                        | 32/6-7       | 40.0506           | 20                         | 37/20        | 40.0820           | 12-14                           | 50/12-14     | 40.1210           |
| 7-8                        | 32/7-8       | 40.0507           | blind                      | 40/0         | 40.0900           | 14-16                           | 50/14-16     | 40.1211           |
| 8-9                        | 32/8-9       | 40.0508           | 5-6                        | 40/5-6       | 40.0905           | 16-18                           | 50/16-18     | 40.1212           |
| 9-10                       | 32/9-10      | 40.0509           | 6-7                        | 40/6-7       | 40.0906           | 18-20                           | 50/18-20     | 40.1213           |
| 10-11                      | 32/10-11     | 40.0510           | 7-8                        | 40/7-8       | 40.0907           | 20-22                           | 50/20-22     | 40.1214           |
| 11-12                      | 32/11-12     | 40.0511           | 8-9                        | 40/8-9       | 40.0908           | 22-24                           | 50/22-24     | 40.1215           |
| 12-13                      | 32/12-13     | 40.0512           | 9-10                       | 40/9-10      | 40.0909           | 24-26                           | 50/24-26     | 40.1216           |
| 13-14                      | 32/13-14     | 40.0513           | 10-11                      | 40/10-11     | 40.0910           | 26-28                           | 50/26-28     | 40.1217           |
| 14-15                      | 32/14-15     | 40.0514           | 11-12                      | 40/11-12     | 40.0911           | 28-29                           | 50/28-29     | 40.1218           |
| 15-16                      | 32/15-16     | 40.0515           | 12-14                      | 40/12-14     | 40.0912           | 29-30                           | 50/29-30     | 40.1219           |
| 16                         | 32/16        | 40.0516           | 14-16                      | 40/14-16     | 40.0913           | 30-31                           | 50/30-31     | 40.1220           |
|                            |              |                   | 16-18                      | 40/16-18     | 40.0914           | 31-32                           | 50/31-32     | 40.1221           |

## INSTALLATION INSTRUCTIONS

### SLIPSIL® CONDUIT SLEEVES AND SLIPSIL® SEALING PLUGS

| cable/<br>pipe<br>diameter | plug<br>type                      | article<br>number | cable/<br>pipe<br>diameter | plug<br>type                      | article<br>number | cable/<br>pipe<br>diameter | plug<br>type                      | article<br>number |
|----------------------------|-----------------------------------|-------------------|----------------------------|-----------------------------------|-------------------|----------------------------|-----------------------------------|-------------------|
| 32                         | 50/32                             | 40.1222           | 30-31                      | 55/30-31                          | 40.1419           | blind                      | 67/0                              | 40.1800           |
|                            | 50 multi is max. 2x15, 3x8, 5x8   |                   | 31-32                      | 55/31-32                          | 40.1420           | 22-24                      | 67/22-24                          | 40.1815           |
| blind                      | 52/0                              | 40.6000           | 32-33                      | 55/32-33                          | 40.1421           | 24-26                      | 67/24-26                          | 40.1816           |
| 6-7                        | 52/6-7                            | 40.6005           | 33-34                      | 55/33-34                          | 40.1422           | 26-28                      | 67/26-28                          | 40.1817           |
| 7-8                        | 52/7-8                            | 40.6006           | 34                         | 55/34                             | 40.1423           | 28-30                      | 67/28-30                          | 40.1818           |
| 8-9                        | 52/8-9                            | 40.6007           |                            | 55 multi is max. 2x15, 3x10, 5x10 |                   | 30-32                      | 67/30-32                          | 40.1819           |
| 9-10                       | 52/9-10                           | 40.6008           | blind                      | 57/0                              | 40.1500           | 32-34                      | 67/32-34                          | 40.1820           |
| 10-12                      | 52/10-12                          | 40.6009           | 14-16                      | 57/14-16                          | 40.1511           | 34-36                      | 67/34-36                          | 40.1821           |
| 12-14                      | 52/12-14                          | 40.6010           | 16-18                      | 57/16-18                          | 40.1512           | 36-38                      | 67/36-38                          | 40.1822           |
| 14-16                      | 52/14-16                          | 40.6011           | 18-20                      | 57/18-20                          | 40.1513           | 38-40                      | 67/38-40                          | 40.1823           |
| 16-18                      | 52/16-18                          | 40.6012           | 20-22                      | 57/20-22                          | 40.1514           | 40-42                      | 67/40-42                          | 40.1824           |
| 18-20                      | 52/18-20                          | 40.6013           | 22-24                      | 57/22-24                          | 40.1515           | 42-44                      | 67/42-44                          | 40.1825           |
| 20-22                      | 52/20-22                          | 40.6014           | 24-26                      | 57/24-26                          | 40.1516           | 44-46                      | 67/44-46                          | 40.1826           |
| 22-24                      | 52/22-24                          | 40.6015           | 26-28                      | 57/26-28                          | 40.1517           | 46-48                      | 67/46-48                          | 40.1827           |
| 24-26                      | 52/24-26                          | 40.6016           | 28-30                      | 57/28-30                          | 40.1518           | 48-50                      | 67/48-50                          | 40.1828           |
| 26-28                      | 52/26-28                          | 40.6017           | 30-32                      | 57/30-32                          | 40.1519           | 50                         | 67/50                             | 40.1829           |
| 28-30                      | 52/28-30                          | 40.6018           | 32-34                      | 57/32-34                          | 40.1520           | blind                      | 68/0                              | 40.1900           |
| 30-31                      | 52/30-31                          | 40.6019           | 34-36                      | 57/34-36                          | 40.1521           | 20-22                      | 68/20-22                          | 40.1914           |
| 31-32                      | 52/31-32                          | 40.6020           | 36-37                      | 57/36-37                          | 40.1522           | 22-24                      | 68/22-24                          | 40.1915           |
| 32-33                      | 52/32-33                          | 40.6021           | 37-38                      | 57/37-38                          | 40.1523           | 24-26                      | 68/24-26                          | 40.1916           |
| 33-34                      | 52/33-34                          | 40.6022           | 38-39                      | 57/38-39                          | 40.1524           | 26-28                      | 68/26-28                          | 40.1917           |
| 34                         | 52/34                             | 40.6023           | 39-40                      | 57/39-40                          | 40.1525           | 28-30                      | 68/28-30                          | 40.1918           |
|                            | 52 multi is max. 2x15, 3x10, 5x10 |                   | 40                         | 57/40                             | 40.1526           | 30-32                      | 68/30-32                          | 40.1919           |
| blind                      | 53/0                              | 40.1300           | blind                      | 60/0                              | 40.1600           | 32-34                      | 68/32-34                          | 40.1920           |
| 6-7                        | 53/6-7                            | 40.1305           | 14-16                      | 60/14-16                          | 40.1611           | 34-36                      | 68/34-36                          | 40.1921           |
| 7-8                        | 53/7-8                            | 40.1306           | 16-18                      | 60/16-18                          | 40.1612           | 36-38                      | 68/36-38                          | 40.1922           |
| 8-9                        | 53/8-9                            | 40.1307           | 18-20                      | 60/18-20                          | 40.1613           | 38-40                      | 68/38-40                          | 40.1923           |
| 9-10                       | 53/9-10                           | 40.1308           | 20-22                      | 60/20-22                          | 40.1614           | 40-42                      | 68/40-42                          | 40.1924           |
| 10-12                      | 53/10-12                          | 40.1309           | 22-24                      | 60/22-24                          | 40.1615           | 42-44                      | 68/42-44                          | 40.1925           |
| 12-14                      | 53/12-14                          | 40.1310           | 24-26                      | 60/24-26                          | 40.1616           | 44-46                      | 68/44-46                          | 40.1926           |
| 14-16                      | 53/14-16                          | 40.1311           | 26-28                      | 60/26-28                          | 40.1617           | 46-48                      | 68/46-48                          | 40.1927           |
| 16-18                      | 53/16-18                          | 40.1312           | 28-30                      | 60/28-30                          | 40.1618           | 48-50                      | 68/48-50                          | 40.1928           |
| 18-20                      | 53/18-20                          | 40.1313           | 30-32                      | 60/30-32                          | 40.1619           | 50                         | 68/50                             | 40.1929           |
| 20-22                      | 53/20-22                          | 40.1314           | 32-34                      | 60/32-34                          | 40.1620           |                            | 68 multi is max. 2x22, 3x12, 5x12 |                   |
| 22-24                      | 53/22-24                          | 40.1315           | 34-36                      | 60/34-36                          | 40.1621           | blind                      | 70/0                              | 40.2000           |
| 24-26                      | 53/24-26                          | 40.1316           | 36-37                      | 60/36-37                          | 40.1622           | 20-22                      | 70/20-22                          | 40.2014           |
| 26-28                      | 53/26-28                          | 40.1317           | 37-38                      | 60/37-38                          | 40.1623           | 22-24                      | 70/22-24                          | 40.2015           |
| 28-30                      | 53/28-30                          | 40.1318           | 38-39                      | 60/38-39                          | 40.1624           | 24-26                      | 70/24-26                          | 40.2016           |
| 30-31                      | 53/30-31                          | 40.1319           | 39-40                      | 60/39-40                          | 40.1625           | 26-28                      | 70/26-28                          | 40.2017           |
| 31-32                      | 53/31-32                          | 40.1320           | 40                         | 60/40                             | 40.1626           | 28-30                      | 70/28-30                          | 40.2018           |
| 32-33                      | 53/32-33                          | 40.1321           |                            | 60 multi is max. 2x15, 3x10       |                   | 30-32                      | 70/30-32                          | 40.2019           |
| 33-34                      | 53/33-34                          | 40.1322           | blind                      | 62/0                              | 40.1700           | 32-34                      | 70/32-34                          | 40.2020           |
| 34                         | 53/34                             | 40.1323           | 14-16                      | 62/14-16                          | 40.1711           | 34-36                      | 70/34-36                          | 40.2021           |
|                            | 53 multi is max. 2x15, 3x10, 5x10 |                   | 16-18                      | 62/16-18                          | 40.1712           | 36-38                      | 70/36-38                          | 40.2022           |
| blind                      | 55/0                              | 40.1400           | 18-20                      | 62/18-20                          | 40.1713           | 38-40                      | 70/38-40                          | 40.2023           |
| 6-7                        | 55/6-7                            | 40.1405           | 20-22                      | 62/20-22                          | 40.1714           | 40-42                      | 70/40-42                          | 40.2024           |
| 7-8                        | 55/7-8                            | 40.1406           | 22-24                      | 62/22-24                          | 40.1715           | 42-44                      | 70/42-44                          | 40.2025           |
| 8-9                        | 55/8-9                            | 40.1407           | 24-26                      | 62/24-26                          | 40.1716           | 44-46                      | 70/44-46                          | 40.2026           |
| 9-10                       | 55/9-10                           | 40.1408           | 26-28                      | 62/26-28                          | 40.1717           | 46-48                      | 70/46-48                          | 40.2027           |
| 10-12                      | 55/10-12                          | 40.1409           | 28-30                      | 62/28-30                          | 40.1718           | 48-50                      | 70/48-50                          | 40.2028           |
| 12-14                      | 55/12-14                          | 40.1410           | 30-32                      | 62/30-32                          | 40.1719           | 50                         | 70/50                             | 40.2029           |
| 14-16                      | 55/14-16                          | 40.1411           | 32-34                      | 62/32-34                          | 40.1720           |                            | 70 multi is max. 2x22, 3x12       |                   |
| 16-18                      | 55/16-18                          | 40.1412           | 34-36                      | 62/34-36                          | 40.1721           | blind                      | 75/0                              | 40.2100           |
| 18-20                      | 55/18-20                          | 40.1413           | 36-37                      | 62/36-37                          | 40.1722           | 22-24                      | 75/22-24                          | 40.2115           |
| 20-22                      | 55/20-22                          | 40.1414           | 37-38                      | 62/37-38                          | 40.1723           | 24-26                      | 75/24-26                          | 40.2116           |
| 22-24                      | 55/22-24                          | 40.1415           | 38-39                      | 62/38-39                          | 40.1724           | 26-28                      | 75/26-28                          | 40.2117           |
| 24-26                      | 55/24-26                          | 40.1416           | 39-40                      | 62/39-40                          | 40.1725           | 28-30                      | 75/28-30                          | 40.2118           |
| 26-28                      | 55/26-28                          | 40.1417           | 40                         | 62/40                             | 40.1726           | 30-32                      | 75/30-32                          | 40.2119           |
| 28-30                      | 55/28-30                          | 40.1418           |                            | 62 multi is max. 2x15, 3x10       |                   | 32-34                      | 75/32-34                          | 40.2120           |
|                            |                                   |                   |                            |                                   |                   | 34-36                      | 75/34-36                          | 40.2121           |

## INSTALLATION INSTRUCTIONS

### SLIPSIL® CONDUIT SLEEVES AND SLIPSIL® SEALING PLUGS

| cable/<br>pipe<br>diameter | plug<br>type | article<br>number | cable/<br>pipe<br>diameter | plug<br>type                      | article<br>number | cable/<br>pipe<br>diameter | plug<br>type | article<br>number |
|----------------------------|--------------|-------------------|----------------------------|-----------------------------------|-------------------|----------------------------|--------------|-------------------|
| 36-38                      | 75/36-38     | 40.2122           | 52-54                      | 82/52-54                          | 40.2430           | 60-62                      | 100/60-62    | 40.2830           |
| 38-40                      | 75/38-40     | 40.2123           | 54-56                      | 82/54-56                          | 40.2431           | 62-64                      | 100/62-64    | 40.2831           |
| 40-42                      | 75/40-42     | 40.2124           | 56-58                      | 82/56-58                          | 40.2432           | 64-66                      | 100/64-66    | 40.2832           |
| 42-44                      | 75/42-44     | 40.2125           | 58-60                      | 82/58-60                          | 40.2433           | 66-68                      | 100/66-68    | 40.2833           |
| 44-46                      | 75/44-46     | 40.2126           | 60                         | 82/60                             | 40.2434           | 68-70                      | 100/68-70    | 40.2834           |
| 46-48                      | 75/46-48     | 40.2127           |                            | 82 multi is max. 2x22, 3x15, 5x15 |                   | 70-72                      | 100/70-72    | 40.2835           |
| 48-50                      | 75/48-50     | 40.2128           | blind                      | 90/0                              | 40.2500           | 72-74                      | 100/72-74    | 40.2836           |
| 50                         | 75/50        | 40.2129           | 40-42                      | 90/40-42                          | 40.2520           | 74-75                      | 100/74-75    | 40.2837           |
|                            |              |                   | 42-44                      | 90/42-44                          | 40.2521           | 75                         | 100/75       | 40.2838           |
| blind                      | 78/0         | 40.2200           | 44-46                      | 90/44-46                          | 40.2522           |                            |              |                   |
| 22-24                      | 78/22-24     | 40.2215           | 46-48                      | 90/46-48                          | 40.2523           | blind                      | 102/0        | 40.2900           |
| 24-26                      | 78/24-26     | 40.2216           | 48-50                      | 90/48-50                          | 40.2524           | 40-42                      | 102/40-42    | 40.2920           |
| 26-28                      | 78/26-28     | 40.2217           | 50-52                      | 90/50-52                          | 40.2525           | 42-44                      | 102/42-44    | 40.2921           |
| 28-30                      | 78/28-30     | 40.2218           | 52-54                      | 90/52-54                          | 40.2526           | 44-46                      | 102/44-46    | 40.2922           |
| 30-32                      | 78/30-32     | 40.2219           | 54-56                      | 90/54-56                          | 40.2527           | 46-48                      | 102/46-48    | 40.2923           |
| 32-34                      | 78/32-34     | 40.2220           | 56-58                      | 90/56-58                          | 40.2528           | 48-50                      | 102/48-50    | 40.2924           |
| 34-36                      | 78/34-36     | 40.2221           | 58-60                      | 90/58-60                          | 40.2529           | 50-52                      | 102/50-52    | 40.2925           |
| 36-38                      | 78/36-38     | 40.2222           | 60-62                      | 90/60-62                          | 40.2530           | 52-54                      | 102/52-54    | 40.2926           |
| 38-40                      | 78/38-40     | 40.2223           | 62-64                      | 90/62-64                          | 40.2531           | 54-56                      | 102/54-56    | 40.2927           |
| 40-42                      | 78/40-42     | 40.2224           | 64                         | 90/64                             | 40.2532           | 56-58                      | 102/56-58    | 40.2928           |
| 42-44                      | 78/42-44     | 40.2225           |                            |                                   |                   | 58-60                      | 102/58-60    | 40.2929           |
| 44-46                      | 78/44-46     | 40.2226           |                            |                                   |                   | 60-62                      | 102/60-62    | 40.2930           |
| 46-48                      | 78/46-48     | 40.2227           | blind                      | 90 multi is max. 2x25, 3x15       |                   | 62-64                      | 102/62-64    | 40.2931           |
| 48-50                      | 78/48-50     | 40.2228           | 40-42                      | 94/0                              | 40.2600           | 64-66                      | 102/64-66    | 40.2932           |
| 50-52                      | 78/50-52     | 40.2229           | 42-44                      | 94/40-42                          | 40.2620           | 66-68                      | 102/66-68    | 40.2933           |
| 52-53                      | 78/52-53     | 40.2230           | 44-46                      | 94/42-44                          | 40.2621           | 68-70                      | 102/68-70    | 40.2934           |
| 53-54                      | 78/53-54     | 40.2231           | 46-48                      | 94/44-46                          | 40.2622           | 70-72                      | 102/70-72    | 40.2935           |
| 54                         | 78/54        | 40.2232           | 48-50                      | 94/46-48                          | 40.2623           | 72-74                      | 102/72-74    | 40.2936           |
|                            |              |                   | 50-52                      | 94/48-50                          | 40.2624           | 74-75                      | 102/74-75    | 40.2937           |
|                            |              |                   | 52-54                      | 94/50-52                          | 40.2625           | 75                         | 102/75       | 40.2938           |
|                            |              |                   | 54-56                      | 94/52-54                          | 40.2626           |                            |              |                   |
|                            |              |                   | 56-58                      | 94/54-56                          | 40.2627           | blind                      | 103/0        | 40.3000           |
|                            |              |                   | 58-60                      | 94/56-58                          | 40.2628           | 26-28                      | 103/26-28    | 40.3013           |
|                            |              |                   | 60-62                      | 94/58-60                          | 40.2629           | 28-30                      | 103/28-30    | 40.3014           |
|                            |              |                   | 62-64                      | 94/60-62                          | 40.2630           | 32-34                      | 103/32-34    | 40.3016           |
|                            |              |                   | 64                         | 94/62-64                          | 40.2631           | 40-42                      | 103/40-42    | 40.3020           |
|                            |              |                   |                            | 94/64                             | 40.2632           | 42-44                      | 103/42-44    | 40.3021           |
|                            |              |                   | blind                      | 97/0                              | 40.2700           | 44-46                      | 103/44-46    | 40.3022           |
|                            |              |                   | 40-42                      | 97/40-42                          | 40.2720           | 46-48                      | 103/46-48    | 40.3023           |
|                            |              |                   | 42-44                      | 97/42-44                          | 40.2721           | 48-50                      | 103/48-50    | 40.3024           |
|                            |              |                   | 44-46                      | 97/44-46                          | 40.2722           | 50-52                      | 103/50-52    | 40.3025           |
|                            |              |                   | 46-48                      | 97/46-48                          | 40.2723           | 52-54                      | 103/52-54    | 40.3026           |
|                            |              |                   | 48-50                      | 97/48-50                          | 40.2724           | 54-56                      | 103/54-56    | 40.3027           |
|                            |              |                   | 50-52                      | 97/50-52                          | 40.2725           | 56-58                      | 103/56-58    | 40.3028           |
|                            |              |                   | 52-54                      | 97/52-54                          | 40.2726           | 58-60                      | 103/58-60    | 40.3029           |
|                            |              |                   | 54-56                      | 97/54-56                          | 40.2727           | 60-62                      | 103/60-62    | 40.3030           |
|                            |              |                   | 56-58                      | 97/56-58                          | 40.2728           | 62-64                      | 103/62-64    | 40.3031           |
|                            |              |                   | 58-60                      | 97/58-60                          | 40.2729           | 64-66                      | 103/64-66    | 40.3032           |
|                            |              |                   | 60-62                      | 97/60-62                          | 40.2730           | 66-68                      | 103/66-68    | 40.3033           |
|                            |              |                   | 62-64                      | 97/62-64                          | 40.2731           | 68-70                      | 103/68-70    | 40.3034           |
|                            |              |                   | 64                         | 97/64                             | 40.2732           | 70-72                      | 103/70-72    | 40.3035           |
|                            |              |                   |                            |                                   |                   | 72-74                      | 103/72-74    | 40.3036           |
|                            |              |                   | blind                      | 100/0                             | 40.2800           | 74-75                      | 103/74-75    | 40.3037           |
|                            |              |                   | 40-42                      | 100/40-42                         | 40.2820           | 75                         | 103/75       | 40.3038           |
|                            |              |                   | 42-44                      | 100/42-44                         | 40.2821           |                            |              |                   |
|                            |              |                   | 44-46                      | 100/44-46                         | 40.2822           | blind                      | 105/0        | 40.3100           |
|                            |              |                   | 46-48                      | 100/46-48                         | 40.2823           | 40-42                      | 105/40-42    | 40.3120           |
|                            |              |                   | 48-50                      | 100/48-50                         | 40.2824           | 42-44                      | 105/42-44    | 40.3121           |
|                            |              |                   | 50-52                      | 100/50-52                         | 40.2825           | 44-46                      | 105/44-46    | 40.3122           |
|                            |              |                   | 52-54                      | 100/52-54                         | 40.2826           | 46-48                      | 105/46-48    | 40.3123           |
|                            |              |                   | 54-56                      | 100/54-56                         | 40.2827           | 48-50                      | 105/48-50    | 40.3124           |
|                            |              |                   | 56-58                      | 100/56-58                         | 40.2828           | 50-52                      | 105/50-52    | 40.3125           |
|                            |              |                   | 58-60                      | 100/58-60                         | 40.2829           | 52-54                      | 105/52-54    | 40.3126           |

## INSTALLATION INSTRUCTIONS

### SLIPSIL® CONDUIT SLEEVES AND SLIPSIL® SEALING PLUGS

| cable/<br>pipe<br>diameter | plug<br>type | article<br>number | cable/<br>pipe<br>diameter | plug<br>type | article<br>number | cable/<br>pipe<br>diameter | plug<br>type | article<br>number |
|----------------------------|--------------|-------------------|----------------------------|--------------|-------------------|----------------------------|--------------|-------------------|
| 54-56                      | 105/54-56    | 40.3127           | 76-78                      | 118/76-78    | 40.3438           | 88-90                      | 128/88-90    | 40.3744           |
| 56-58                      | 105/56-58    | 40.3128           | 78-80                      | 118/78-80    | 40.3439           | 90-92                      | 128/90-92    | 40.3745           |
| 58-60                      | 105/58-60    | 40.3129           | 80-82                      | 118/80-82    | 40.3440           | 92                         | 128/92       | 40.3746           |
| 60-62                      | 105/60-62    | 40.3130           | 82-84                      | 118/82-84    | 40.3441           | blind                      | 131/0        | 40.3800           |
| 62-64                      | 105/62-64    | 40.3131           | 84-86                      | 118/84-86    | 40.3442           | 60-62                      | 131/60-62    | 40.3830           |
| 64-66                      | 105/64-66    | 40.3132           | 86-88                      | 118/86-88    | 40.3443           | 62-64                      | 131/62-64    | 40.3831           |
| 66-68                      | 105/66-68    | 40.3133           | 88-90                      | 118/88-90    | 40.3444           | 64-66                      | 131/64-66    | 40.3832           |
| 68-70                      | 105/68-70    | 40.3134           | 90                         | 118/90       | 40.3445           | 66-68                      | 131/66-68    | 40.3833           |
| 70-72                      | 105/70-72    | 40.3135           | blind                      | 122/0        | 40.3500           | 68-70                      | 131/68-70    | 40.3834           |
| 72-74                      | 105/72-74    | 40.3136           | 60-62                      | 122/60-62    | 40.3530           | 70-72                      | 131/70-72    | 40.3835           |
| 74-75                      | 105/74-75    | 40.3137           | 62-64                      | 122/62-64    | 40.3531           | 72-74                      | 131/72-74    | 40.3836           |
| 75                         | 105/75       | 40.3138           | 64-66                      | 122/64-66    | 40.3532           | 74-76                      | 131/74-76    | 40.3837           |
| blind                      | 107/0        | 40.3200           | 66-68                      | 122/66-68    | 40.3533           | 76-78                      | 131/76-78    | 40.3838           |
| 40-42                      | 107/40-42    | 40.3220           | 68-70                      | 122/68-70    | 40.3534           | 78-80                      | 131/78-80    | 40.3839           |
| 42-44                      | 107/42-44    | 40.3221           | 70-72                      | 122/70-72    | 40.3535           | 80-82                      | 131/80-82    | 40.3840           |
| 44-46                      | 107/44-46    | 40.3222           | 72-74                      | 122/72-74    | 40.3536           | 82-84                      | 131/82-84    | 40.3841           |
| 46-48                      | 107/46-48    | 40.3223           | 74-76                      | 122/74-76    | 40.3537           | 84-86                      | 131/84-86    | 40.3842           |
| 48-50                      | 107/48-50    | 40.3224           | 76-78                      | 122/76-78    | 40.3538           | 86-88                      | 131/86-88    | 40.3843           |
| 50-52                      | 107/50-52    | 40.3225           | 78-80                      | 122/78-80    | 40.3539           | 88-90                      | 131/88-90    | 40.3844           |
| 52-54                      | 107/52-54    | 40.3226           | 80-82                      | 122/80-82    | 40.3540           | 90-92                      | 131/90-92    | 40.3845           |
| 54-56                      | 107/54-56    | 40.3227           | 82-84                      | 122/82-84    | 40.3541           | 92                         | 131/92       | 40.3846           |
| 56-58                      | 107/56-58    | 40.3228           | 84-86                      | 122/84-86    | 40.3542           | blind                      | 146/0        | 40.3900           |
| 58-60                      | 107/58-60    | 40.3229           | 86-88                      | 122/86-88    | 40.3543           | 88-90                      | 146/88-90    | 40.3920           |
| 60-62                      | 107/60-62    | 40.3230           | 88-90                      | 122/88-90    | 40.3544           | 90-92                      | 146/90-92    | 40.3921           |
| 62-64                      | 107/62-64    | 40.3231           | 90-92                      | 122/90-92    | 40.3545           | 92-94                      | 146/92-94    | 40.3922           |
| 64-66                      | 107/64-66    | 40.3232           | 92                         | 122/92       | 40.3546           | 94-96                      | 146/94-96    | 40.3923           |
| 66-68                      | 107/66-68    | 40.3233           | blind                      | 125/0        | 40.3600           | 96-98                      | 146/96-98    | 40.3924           |
| 68-70                      | 107/68-70    | 40.3234           | 60-62                      | 125/60-62    | 40.3630           | 98-100                     | 146/98-100   | 40.3925           |
| 70-72                      | 107/70-72    | 40.3235           | 62-64                      | 125/62-64    | 40.3631           | 100-102                    | 146/100-102  | 40.3926           |
| 72-74                      | 107/72-74    | 40.3236           | 64-66                      | 125/64-66    | 40.3632           | 102-104                    | 146/102-104  | 40.3927           |
| 74-75                      | 107/74-75    | 40.3237           | 66-68                      | 125/66-68    | 40.3633           | 104-106                    | 146/104-106  | 40.3928           |
| 75-76                      | 107/75-76    | 40.3238           | 68-70                      | 125/68-70    | 40.3634           | 106-108                    | 146/106-108  | 40.3929           |
| 76                         | 107/76       | 40.3239           | 70-72                      | 125/70-72    | 40.3635           | 108-110                    | 146/108-110  | 40.3930           |
| blind                      | 110/0        | 40.3300           | 72-74                      | 125/72-74    | 40.3636           | 110-112                    | 146/110-112  | 40.3931           |
| 48-50                      | 110/48-50    | 40.3324           | 74-76                      | 125/74-76    | 40.3637           | 112-114                    | 146/112-114  | 40.3932           |
| 50-52                      | 110/50-52    | 40.3325           | 76-78                      | 125/76-78    | 40.3638           | 114-116                    | 146/114-116  | 40.3933           |
| 52-54                      | 110/52-54    | 40.3326           | 78-80                      | 125/78-80    | 40.3639           | 116-118                    | 146/116-118  | 40.3934           |
| 54-56                      | 110/54-56    | 40.3327           | 80-82                      | 125/80-82    | 40.3640           | 118-120                    | 146/118-120  | 40.3935           |
| 56-58                      | 110/56-58    | 40.3328           | 82-84                      | 125/82-84    | 40.3641           | 120                        | 146/120      | 40.3936           |
| 58-60                      | 110/58-60    | 40.3329           | 84-86                      | 125/84-86    | 40.3642           | blind                      | 150/0        | 40.4000           |
| 60-62                      | 110/60-62    | 40.3330           | 86-88                      | 125/86-88    | 40.3643           | 88-90                      | 150/88-90    | 40.4020           |
| 62-64                      | 110/62-64    | 40.3331           | 88-90                      | 125/88-90    | 40.3644           | 90-92                      | 150/90-92    | 40.4021           |
| 64-66                      | 110/64-66    | 40.3332           | 90-92                      | 125/90-92    | 40.3645           | 92-94                      | 150/92-94    | 40.4022           |
| 66-68                      | 110/66-68    | 40.3333           | 92                         | 125/92       | 40.3646           | 94-96                      | 150/94-96    | 40.4023           |
| 68-70                      | 110/68-70    | 40.3334           | 100                        | 125/100      | 40.3650           | 96-98                      | 150/96-98    | 40.4024           |
| 70-72                      | 110/70-72    | 40.3335           | blind                      | 128/0        | 40.3700           | 98-100                     | 150/98-100   | 40.4025           |
| 72-74                      | 110/72-74    | 40.3336           | 60-62                      | 128/60-62    | 40.3730           | 100-102                    | 150/100-102  | 40.4026           |
| 74-76                      | 110/74-76    | 40.3337           | 62-64                      | 128/62-64    | 40.3731           | 102-104                    | 150/102-104  | 40.4027           |
| 76-78                      | 110/76-78    | 40.3338           | 64-66                      | 128/64-66    | 40.3732           | 104-106                    | 150/104-106  | 40.4028           |
| 78-80                      | 110/78-80    | 40.3339           | 66-68                      | 128/66-68    | 40.3733           | 106-108                    | 150/106-108  | 40.4029           |
| 80                         | 110/80       | 40.3340           | 68-70                      | 128/68-70    | 40.3734           | 108-110                    | 150/108-110  | 40.4030           |
| blind                      | 118/0        | 40.3400           | 70-72                      | 128/70-72    | 40.3735           | 110-112                    | 150/110-112  | 40.4031           |
| 60-62                      | 118/60-62    | 40.3430           | 72-74                      | 128/72-74    | 40.3736           | 112-114                    | 150/112-114  | 40.4032           |
| 62-64                      | 118/62-64    | 40.3431           | 74-76                      | 128/74-76    | 40.3737           | 114-116                    | 150/114-116  | 40.4033           |
| 64-66                      | 118/64-66    | 40.3432           | 76-78                      | 128/76-78    | 40.3738           | 116-118                    | 150/116-118  | 40.4034           |
| 66-68                      | 118/66-68    | 40.3433           | 78-80                      | 128/78-80    | 40.3739           | 118-120                    | 150/118-120  | 40.4035           |
| 68-70                      | 118/68-70    | 40.3434           | 80-82                      | 128/80-82    | 40.3740           | 120-122                    | 150/120-122  | 40.4036           |
| 70-72                      | 118/70-72    | 40.3435           | 82-84                      | 128/82-84    | 40.3741           | 122-124                    | 150/122-124  | 40.4037           |
| 72-74                      | 118/72-74    | 40.3436           | 84-86                      | 128/84-86    | 40.3742           | 124-125                    | 150/124-125  | 40.4038           |
| 74-76                      | 118/74-76    | 40.3437           | 86-88                      | 128/86-88    | 40.3743           | 125                        | 150/125      | 40.4039           |

## INSTALLATION INSTRUCTIONS

### SLIPSIL® CONDUIT SLEEVES AND SLIPSIL® SEALING PLUGS

| cable/<br>pipe<br>diameter | plug<br>type | article<br>number | cable/<br>pipe<br>diameter | plug<br>type | article<br>number | cable/<br>pipe<br>diameter | plug<br>type | article<br>number |
|----------------------------|--------------|-------------------|----------------------------|--------------|-------------------|----------------------------|--------------|-------------------|
| blind                      | 152/0        | 40.4100           | 125                        | 156/125      | 40.4339           | 141-143                    | 207/141      | 40.4834           |
| 88-90                      | 152/88-90    | 40.4120           | blind                      | 160/0        | 40.4400           | 156-158                    | 207/156      | 40.4842           |
| 90-92                      | 152/90-92    | 40.4121           | 88-90                      | 160/88-90    | 40.4420           | 159-161                    | 207/159      | 40.4843           |
| 92-94                      | 152/92-94    | 40.4122           | 90-92                      | 160/90-92    | 40.4421           | 168-170                    | 207/168      | 40.4848           |
| 94-96                      | 152/94-96    | 40.4123           | 92-94                      | 160/92-94    | 40.4422           | 160                        | 250/160      | 40.5010           |
| 96-98                      | 152/96-98    | 40.4124           | 94-96                      | 160/94-96    | 40.4423           | 168                        | 250/168      | 40.5014           |
| 98-100                     | 152/98-100   | 40.4125           | 96-98                      | 160/96-98    | 40.4424           | 171                        | 250/171      | 40.5015           |
| 100-102                    | 152/100-102  | 40.4126           | 98-100                     | 160/98-100   | 40.4425           | 180                        | 250/180      | 40.5020           |
| 102-104                    | 152/102-104  | 40.4127           | 100-102                    | 160/100-102  | 40.4426           | 200                        | 250/200      | 40.5030           |
| 104-106                    | 152/104-106  | 40.4128           | 102-104                    | 160/102-104  | 40.4427           | 160                        | 260/160      | 40.5210           |
| 106-108                    | 152/106-108  | 40.4129           | 104-106                    | 160/104-106  | 40.4428           | 164                        | 260/168      | 40.5212           |
| 108-110                    | 152/108-110  | 40.4130           | 106-108                    | 160/106-108  | 40.4429           | 168                        | 260/168      | 40.5214           |
| 110-112                    | 152/110-112  | 40.4131           | 108-110                    | 160/108-110  | 40.4430           | 200                        | 260/200      | 40.5230           |
| 112-114                    | 152/112-114  | 40.4132           | 110-112                    | 160/110-112  | 40.4431           | 204                        | 260/204      | 40.5232           |
| 114-116                    | 152/114-116  | 40.4133           | 112-114                    | 160/112-114  | 40.4432           | 219                        | 260/219      | 40.5239           |
| 116-118                    | 152/116-118  | 40.4134           | 114-116                    | 160/114-116  | 40.4433           | 200                        | 300/200      | 40.5321           |
| 118-120                    | 152/118-120  | 40.4135           | 116-118                    | 160/116-118  | 40.4434           | 219                        | 300/219      | 40.5330           |
| 120-122                    | 152/120-122  | 40.4136           | 118-120                    | 160/118-120  | 40.4435           | 225                        | 300/225      | 40.5333           |
| 122-124                    | 152/122-124  | 40.4137           | 120-122                    | 160/120-122  | 40.4436           | 250                        | 300/250      | 40.5346           |
| 124-125                    | 152/124-125  | 40.4138           | 122-124                    | 160/122-124  | 40.4437           | 219                        | 339/219      | 40.5518           |
| 125                        | 152/125      | 40.4139           | 124-125                    | 160/124-125  | 40.4438           | 273                        | 339/273      | 40.5545           |
| blind                      | 154/0        | 40.4200           | 125                        | 160/125      | 40.4439           |                            |              |                   |
| 88-90                      | 154/88-90    | 40.4220           | blind                      | 190/0        | 40.4500           |                            |              |                   |
| 90-92                      | 154/90-92    | 40.4221           | 110-112                    | 190/110      | 40.4520           |                            |              |                   |
| 92-94                      | 154/92-94    | 40.4222           | 114-116                    | 190/114      | 40.4523           |                            |              |                   |
| 94-96                      | 154/94-96    | 40.4223           | 125-127                    | 190/125      | 40.4528           |                            |              |                   |
| 96-98                      | 154/96-98    | 40.4224           | 139-141                    | 190/139      | 40.4533           |                            |              |                   |
| 98-100                     | 154/98-100   | 40.4225           | 142-144                    | 190/142      | 40.4534           |                            |              |                   |
| 100-102                    | 154/100-102  | 40.4226           | 150-152                    | 190/150      | 40.4538           |                            |              |                   |
| 102-104                    | 154/102-104  | 40.4227           | 153-155                    | 190/153      | 40.4541           |                            |              |                   |
| 104-106                    | 154/104-106  | 40.4228           | 159-161                    | 190/159      | 40.4543           |                            |              |                   |
| 106-108                    | 154/106-108  | 40.4229           | blind                      | 200/0        | 40.4600           |                            |              |                   |
| 108-110                    | 154/108-110  | 40.4230           | 110-112                    | 200/110      | 40.4620           |                            |              |                   |
| 110-112                    | 154/110-112  | 40.4231           | 114-116                    | 200/114      | 40.4623           |                            |              |                   |
| 112-114                    | 154/112-114  | 40.4232           | 120-122                    | 200/120      | 40.4626           |                            |              |                   |
| 114-116                    | 154/114-116  | 40.4233           | 122-124                    | 200/122      | 40.4627           |                            |              |                   |
| 116-118                    | 154/116-118  | 40.4234           | 125-127                    | 200/125      | 40.4628           |                            |              |                   |
| 118-120                    | 154/118-120  | 40.4235           | 133-135                    | 200/133      | 40.4631           |                            |              |                   |
| 120-122                    | 154/120-122  | 40.4236           | 135-137                    | 200/135      | 40.4632           |                            |              |                   |
| 122-124                    | 154/122-124  | 40.4237           | 139-141                    | 200/139      | 40.4633           |                            |              |                   |
| 124-125                    | 154/124-125  | 40.4238           | 141-143                    | 200/141      | 40.4634           |                            |              |                   |
| 125                        | 154/125      | 40.4239           | 159-160                    | 200/159      | 40.4643           |                            |              |                   |
| blind                      | 156/0        | 40.4300           | 160                        | 200/160      | 40.4644           |                            |              |                   |
| 88-90                      | 156/88-90    | 40.4320           | blind                      | 203/0        | 40.4700           |                            |              |                   |
| 90-92                      | 156/90-92    | 40.4321           | 110-112                    | 203/110      | 40.4720           |                            |              |                   |
| 92-94                      | 156/92-94    | 40.4322           | 114-116                    | 203/114      | 40.4723           |                            |              |                   |
| 94-96                      | 156/94-96    | 40.4323           | 125-127                    | 203/125      | 40.4728           |                            |              |                   |
| 96-98                      | 156/96-98    | 40.4324           | 133-135                    | 203/133      | 40.4731           |                            |              |                   |
| 98-100                     | 156/98-100   | 40.4325           | 139-141                    | 203/139      | 40.4733           |                            |              |                   |
| 100-102                    | 156/100-102  | 40.4326           | 141-143                    | 203/141      | 40.4734           |                            |              |                   |
| 102-104                    | 156/102-104  | 40.4327           | 159-161                    | 203/159      | 40.4743           |                            |              |                   |
| 104-106                    | 156/104-106  | 40.4328           | 162-164                    | 200/162      | 40.4744           |                            |              |                   |
| 106-108                    | 156/106-108  | 40.4329           | 168-170                    | 203/168      | 40.4748           |                            |              |                   |
| 108-110                    | 156/108-110  | 40.4330           | blind                      | 207/0        | 40.4800           |                            |              |                   |
| 110-112                    | 156/110-112  | 40.4331           | 110-112                    | 207/110      | 40.4820           |                            |              |                   |
| 112-114                    | 156/112-114  | 40.4332           | 114-116                    | 207/114      | 40.4823           |                            |              |                   |
| 114-116                    | 156/114-116  | 40.4333           | 125-127                    | 207/125      | 40.4828           |                            |              |                   |
| 116-118                    | 156/116-118  | 40.4334           | 129-131                    | 207/129      | 40.4829           |                            |              |                   |
| 118-120                    | 156/118-120  | 40.4335           | 133-135                    | 207/133      | 40.4831           |                            |              |                   |
| 120-122                    | 156/120-122  | 40.4336           | 139-141                    | 207/139      | 40.4833           |                            |              |                   |
| 122-124                    | 156/122-124  | 40.4337           |                            |              |                   |                            |              |                   |
| 124-125                    | 156/124-125  | 40.4338           |                            |              |                   |                            |              |                   |



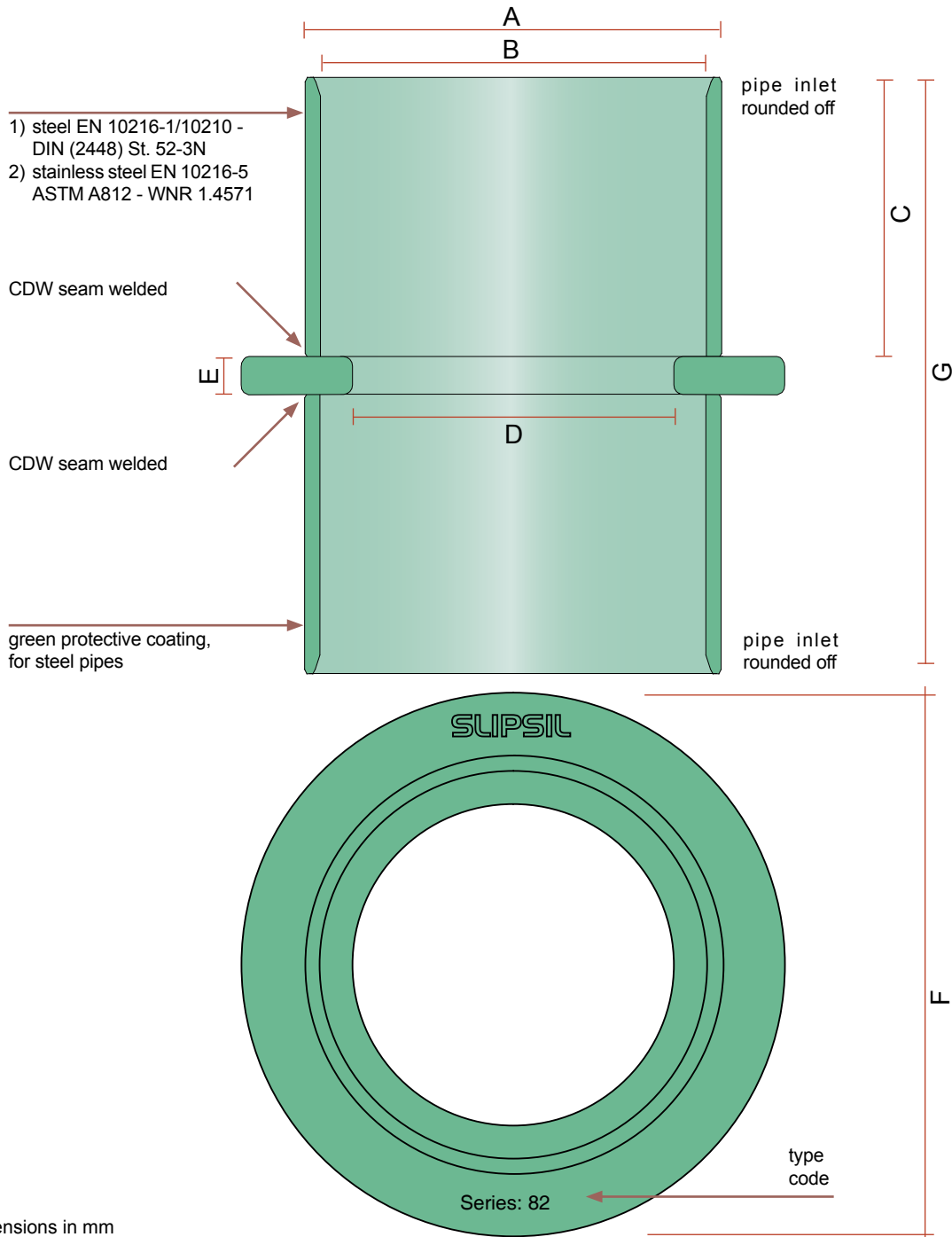
drinking water approval

**kiwa**



## INSTALLATION INSTRUCTIONS

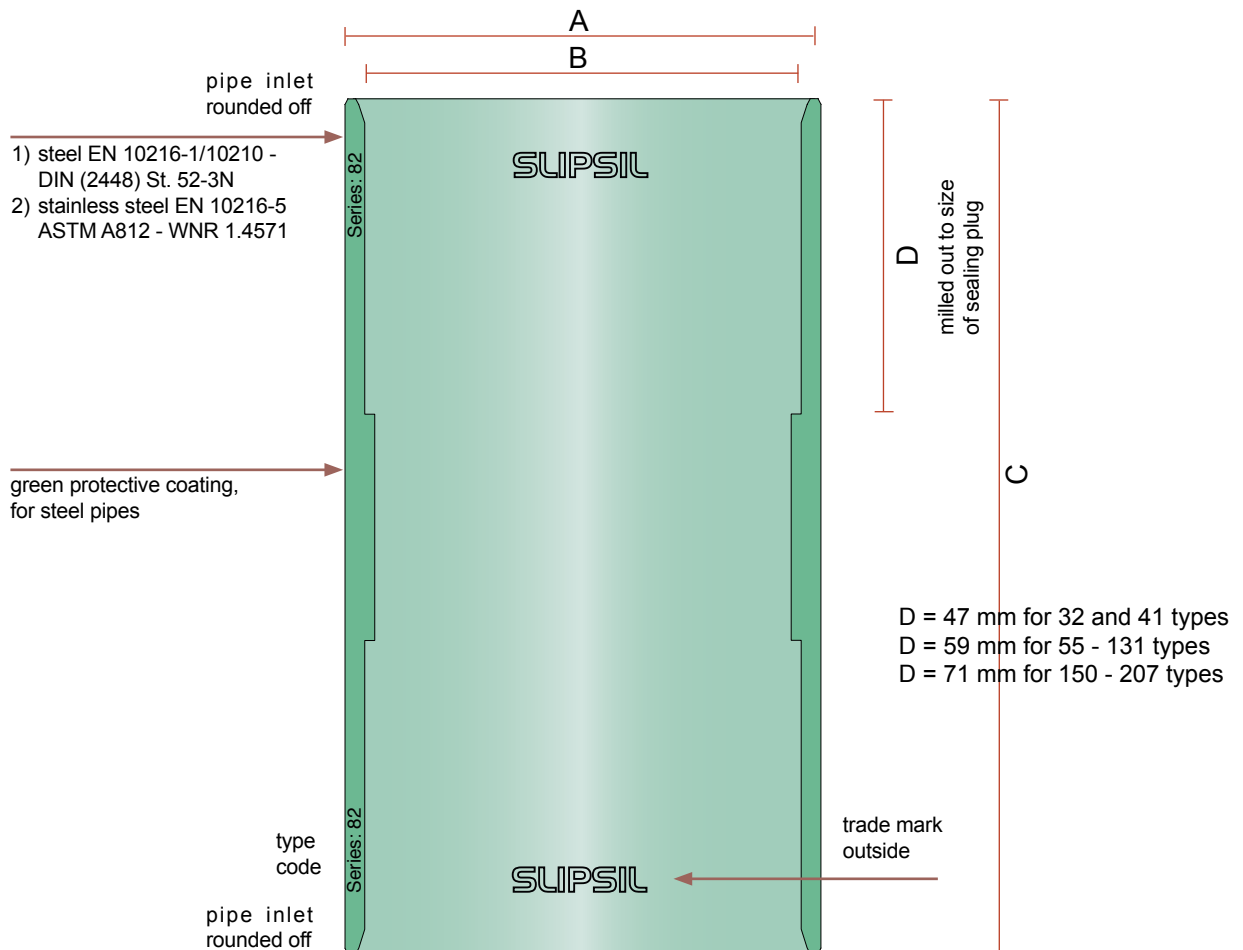
### SLIPSIL® CONDUIT SLEEVES AND SLIPSIL® SEALING PLUGS



| type       | A    | B   | C  | D   | E  | F   | G   | art. no. steel | art. no. stainless |
|------------|------|-----|----|-----|----|-----|-----|----------------|--------------------|
| CSD 41 WD  | 48.5 | 41  | 47 | 25  | 10 | 75  | 104 | 60.8042        | 60.8062            |
| CSD 55 WD  | 62.5 | 55  | 59 | 34  | 10 | 90  | 128 | 60.8043        | 60.8063            |
| CSD 70 WD  | 78   | 70  | 59 | 50  | 10 | 105 | 128 | 60.8044        | 60.8064            |
| CSD 82 WD  | 90   | 82  | 59 | 60  | 10 | 115 | 128 | 60.8045        | 60.8065            |
| CSD 100 WD | 108  | 100 | 59 | 75  | 10 | 135 | 128 | 60.8046        | 60.8066            |
| CSD 125 WD | 134  | 125 | 59 | 100 | 10 | 160 | 128 | 60.8047        | 60.8067            |
| CSD 150 WD | 159  | 150 | 72 | 125 | 10 | 185 | 154 | 60.8048        | 60.8068            |

## INSTALLATION INSTRUCTIONS

### SLIPSIL® CONDUIT SLEEVES AND SLIPSIL® SEALING PLUGS

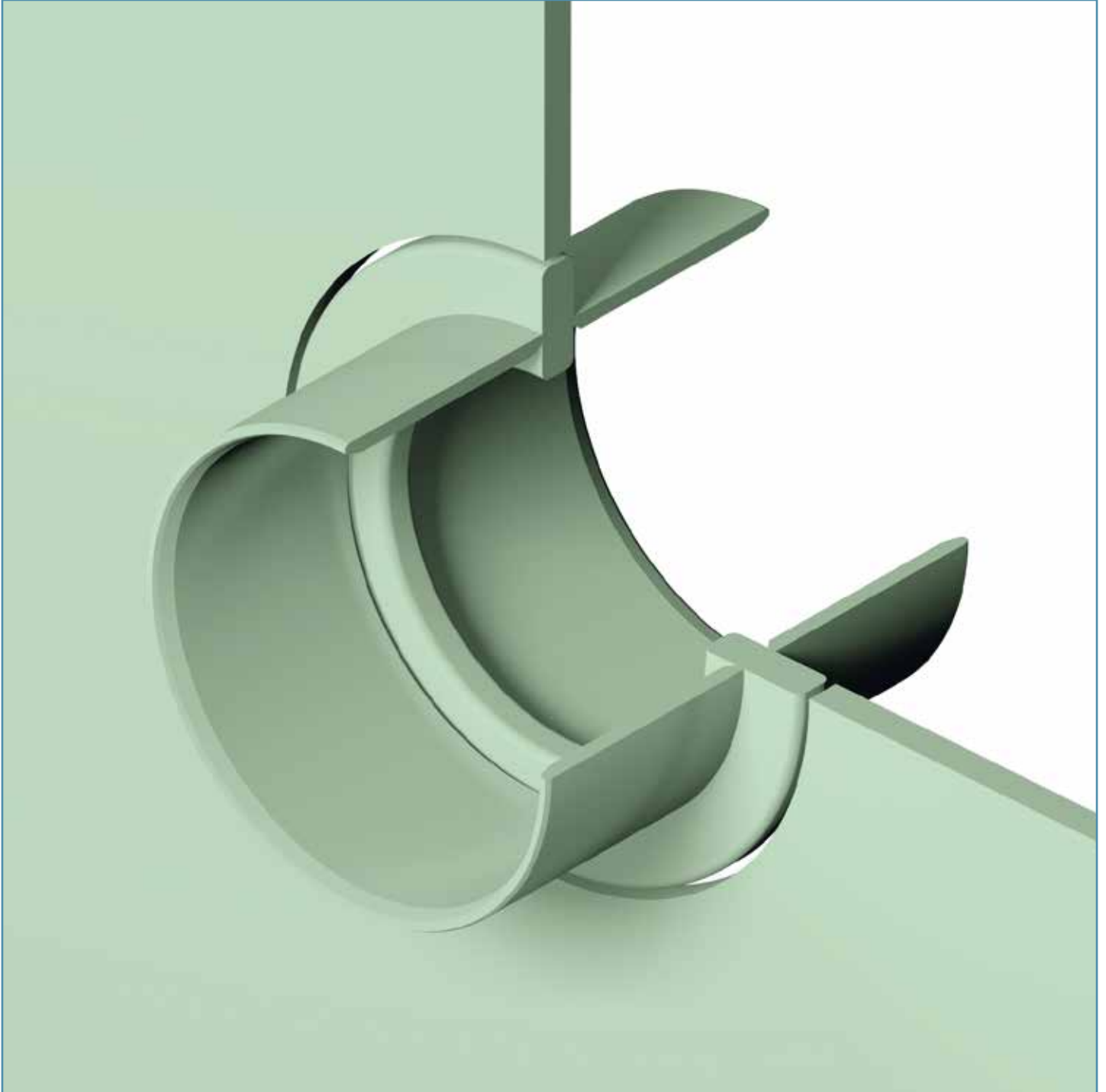


All dimensions in mm

| type      | A    | B   | C   | art. no. steel | art. no. stainless | type      | A    | B   | C   | art. no. steel | art. no. stainless |
|-----------|------|-----|-----|----------------|--------------------|-----------|------|-----|-----|----------------|--------------------|
| SL 41 WS  | 48.5 | 41  | 120 | 60.8201        | 60.8246            | SL 41 WS  | 48.5 | 41  | 250 | 60.8231        | 60.8276            |
| SL 55 WS  | 62.5 | 55  | 160 | 60.8202        | 60.8247            | SL 55 WS  | 62.5 | 55  | 250 | 60.8232        | 60.8277            |
| SL 62 WS  | 70   | 62  | 160 | 60.8203        | 60.8248            | SL 62 WS  | 70   | 62  | 250 | 60.8233        | 60.8278            |
| SL 70 WS  | 78   | 70  | 160 | 60.8204        | 60.8249            | SL 70 WS  | 78   | 70  | 250 | 60.8234        | 60.8279            |
| SL 82 WS  | 90   | 82  | 160 | 60.8205        | 60.8250            | SL 82 WS  | 90   | 82  | 250 | 60.8235        | 60.8280            |
| SL 100 WS | 108  | 100 | 160 | 60.8206        | 60.8251            | SL 100 WS | 108  | 100 | 250 | 60.8236        | 60.8281            |
| SL 107 WS | 115  | 107 | 160 | 60.8207        | 60.8252            | SL 107 WS | 114  | 107 | 250 | 60.8237        | 60.8282            |
| SL 131 WS | 140  | 131 | 160 | 60.8208        | 60.8253            | SL 131 WS | 139  | 131 | 250 | 60.8238        | 60.8283            |
| SL 150 WS | 159  | 150 | 180 | 60.8209        | 60.8254            | SL 150 WS | 159  | 150 | 250 | 60.8239        | 60.8284            |
| SL 207 WS | 220  | 207 | 180 | 60.8210        | 60.8255            | SL 207 WS | 212  | 203 | 250 | 60.8240        | 60.8285            |

## INSTALLATION INSTRUCTIONS

### SLIPSIL® CONDUIT SLEEVES AND SLIPSIL® SEALING PLUGS



The SLIPSIL® sealing system consists of SLIPSIL® sealing plugs and fitting SLIPSIL® conduit sleeves. The fitting SLIPSIL® conduit sleeves are vital for an optimum functionality with regard to gas and water tightness. The inner dimensions of the sleeves are exactly milled for a perfect fit of the sealing plugs. This means that the plugs have to cope only with the tolerances of the ducted pipe/cable.

Furthermore, the inlet of the conduit sleeve is rounded, which allows a smooth insertion of the plugs, and also prevents damage to the plugs. A shoulder inside the conduit sleeves prevents the plugs from being inserted too deep or unequally. The flange makes positioning and welding in the sleeves correctly and easier as well.

## INSTALLATION INSTRUCTIONS

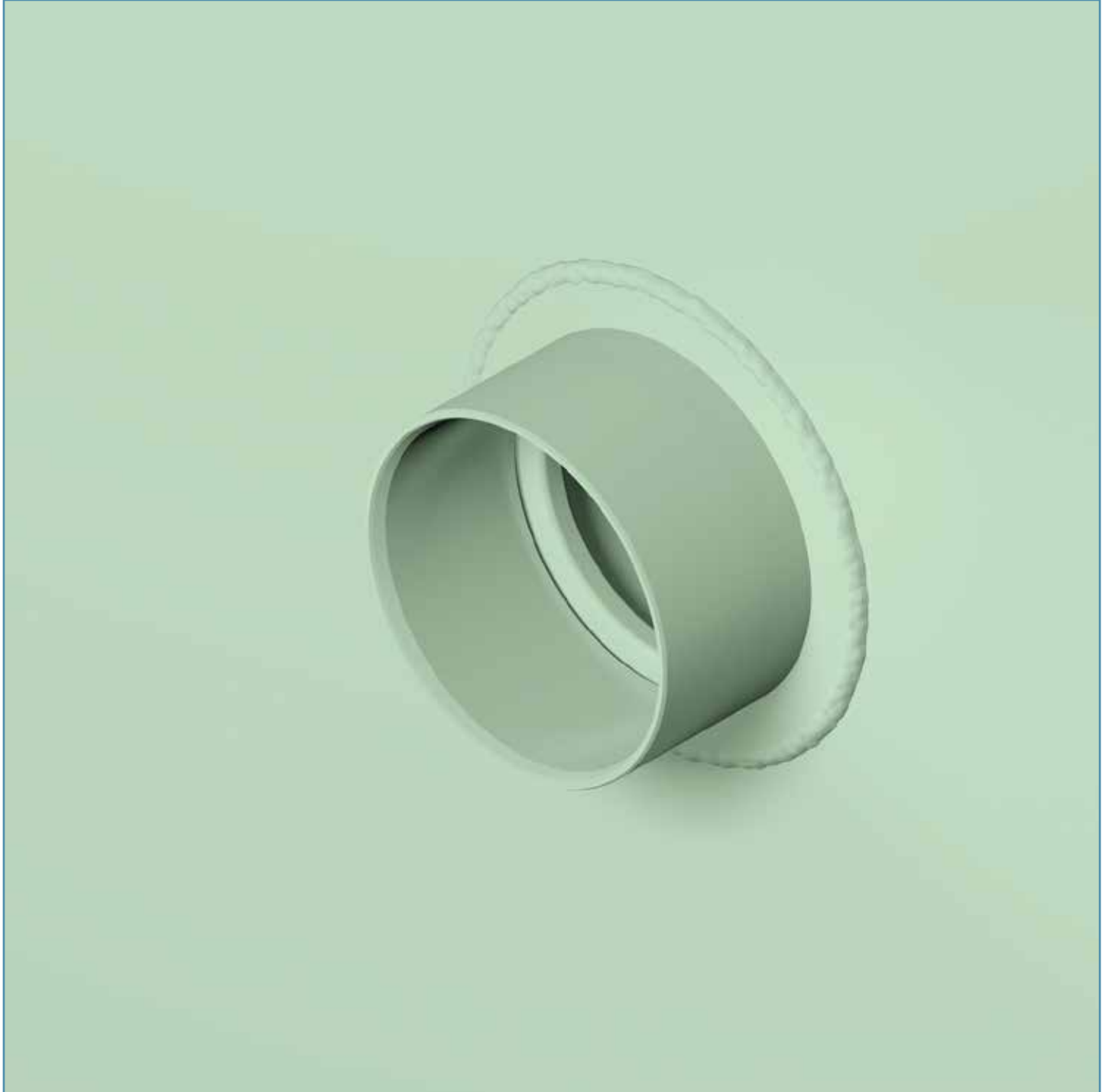
### SLIPSIL® CONDUIT SLEEVES AND SLIPSIL® SEALING PLUGS



The thickness of the welding flange is 10 mm to prevent tilting of the conduit sleeve or destroying the thinner wall conduit sleeves during welding. The SLIPSIL® conduit sleeves are made from steel or stainless steel. Flange and sleeve are welded together by capacitive discharge welding. This means connecting same material with a view to prevent crevice corrosion. The stainless steel SLIPSIL® conduit sleeves (1.4571) are passivated and have been tested with a salt fog test for 20 years sea water resistance. The steel sleeves are made from steel EN 10216-1/10210 St. 52-3N. With the SLIPSIL® conduit sleeves water tightness is improved. Maximum size is 150 mm ID.

## INSTALLATION INSTRUCTIONS

### SLIPSIL® CONDUIT SLEEVES AND SLIPSIL® SEALING PLUGS



The SLIPSIL® conduit sleeve is welded into the construction. The length of the sleeve part to adopt the plug is equal to the length of the part of the SLIPSIL® sealing plug inserted into the conduit sleeve. The shoulder inside the conduit sleeve prevents the plug from being inserted too far, preventing the flange of the SLIPSIL® sealing plug from being damaged. The front side of the conduit sleeve is milled off and smoothed to prevent the serrated profiles of the SLIPSIL® sealing plug from being damaged. Damaging the serrated profiles at the outside of the sealing plug could easily lead to leaking. A coating is applied to prevent corrosion to the inside of the sleeve, which also makes installation easier and optimizes tightness ratings.

## INSTALLATION INSTRUCTIONS

### SLIPSIL® CONDUIT SLEEVES AND SLIPSIL® SEALING PLUGS



The pipe/cable has to be ducted straight and centrically through the SLIPSIL® conduit sleeve. The shoulder inside the conduit sleeve prevents ducting of a pipe that is too large for the proper plug series.

For larger pipe sizes and longer conduits, SLIPSIL® conduit sleeves are supplied as well. However these pipes are not manufactured by capacitive discharge welding.

For optimum performance of the sealing system, the SLIPSIL® sealing system should be regarded as a system, not as single components. The design of the SLIPSIL® plugs and the SLIPSIL® conduit sleeves optimizes performance and ease of installation.

## INSTALLATION INSTRUCTIONS

### SLIPSIL® CONDUIT SLEEVES AND SLIPSIL® SEALING PLUGS



ARTICLE NUMBER 60.0900

Before starting the installation procedure, any dirt, oil residues or corrosion should be removed from the conduit sleeve and the surface of the ducted pipe. SLIPSIL® sealing plugs are made from the high grade NOFIRNO® rubber. The rubber forms a very smooth outer surface during vulcanization. Nevertheless, the engineered design of the serrated profiles is building up resistance during insertion of the SLIPSIL® sealing plugs. The rubber is very flexible with an optimized hardness. It is absolutely important to lubricate the conduit sleeve at the inside before inserting the sealing plug. Treat the inside of the conduit sleeve over its full length and all around with CSD® lubricant.

## INSTALLATION INSTRUCTIONS SLIPSIL® CONDUIT SLEEVES AND SLIPSIL® SEALING PLUGS



Before installation of the sealing plug, check to ensure that the conduit sleeve is correct for the plug series being applied, and also if the outer dimension of the ducted pipe is within the tolerances of the sealing plug. The inside surfaces of both segments of the SLIPSIL® sealing plug are treated with CSD® lubricant. Also the flat surfaces on the plug should be treated with the lubricant. Always use sufficient lubricant. It contributes to the ease of installation of the plugs.

CSD® lubricant is an acid free, pharmaceutical petroleum jelly and will disappear after installation.

## INSTALLATION INSTRUCTIONS

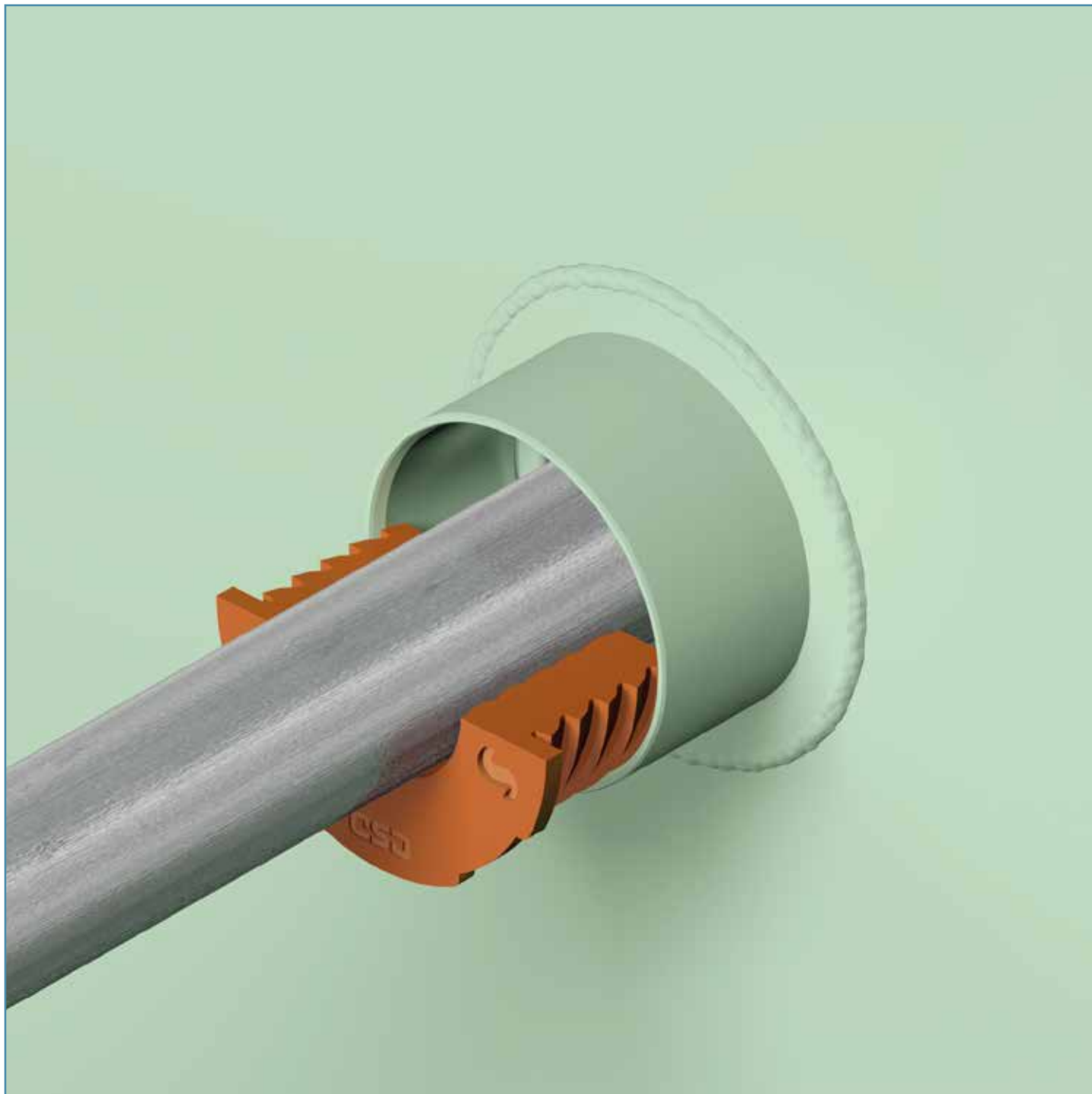
### SLIPSIL® CONDUIT SLEEVES AND SLIPSIL® SEALING PLUGS



The segments of the SLIPSIL® sealing plug are also treated with CSD® lubricant on the outside. Please refer to the Safety Data Sheet of the CSD® lubricant for more information.

## INSTALLATION INSTRUCTIONS

### SLIPSIL® CONDUIT SLEEVES AND SLIPSIL® SEALING PLUGS



One segment of the SLIPSIL® sealing plug is positioned inside the conduit sleeve.

Note: don't insert this segment too deep into the conduit sleeves. It will only make insertion of the other segment more difficult.

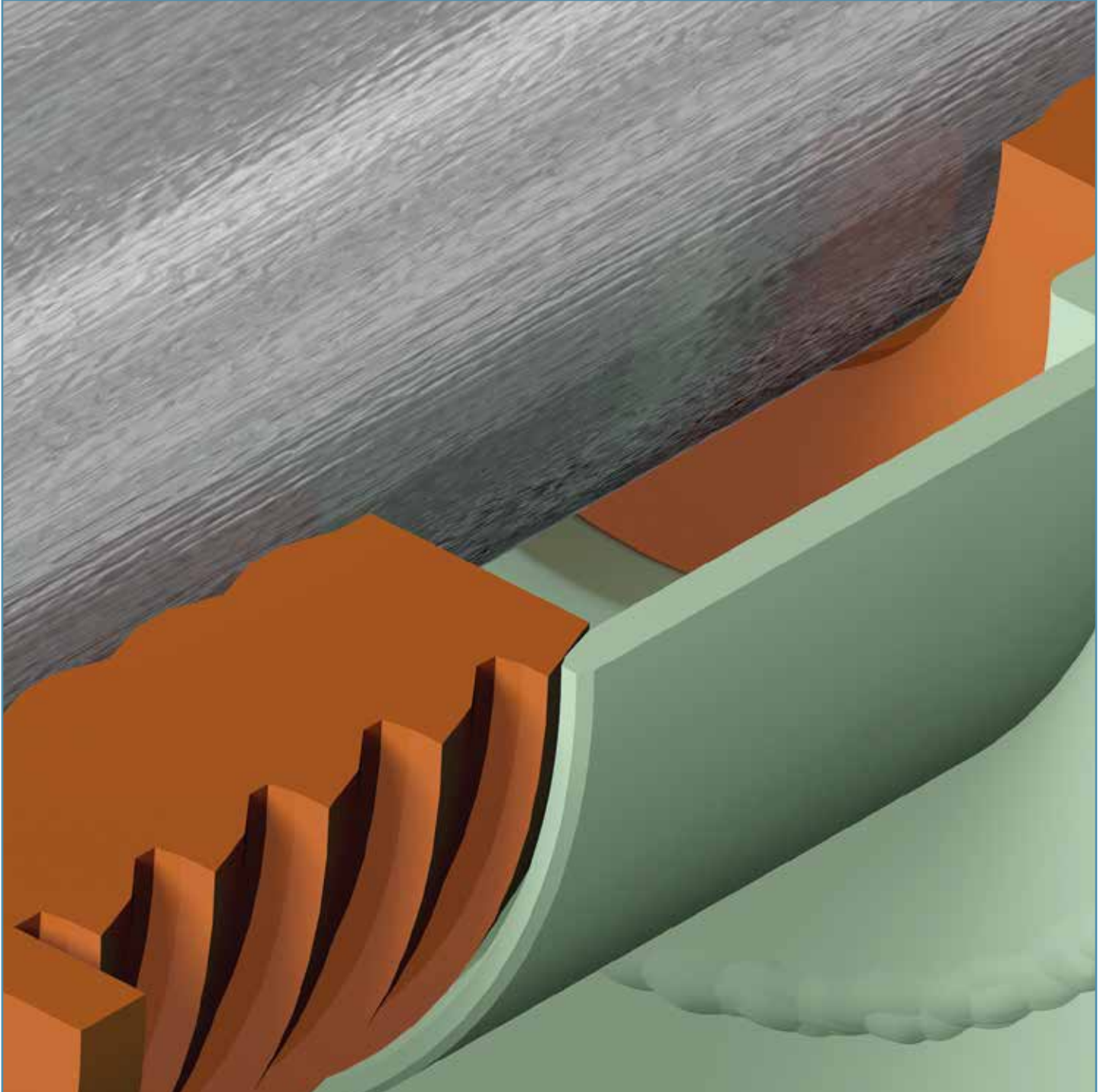
## INSTALLATION INSTRUCTIONS SLIPSIL® CONDUIT SLEEVES AND SLIPSIL® SEALING PLUGS



Both segments of the SLIPSIL® sealing plug are placed around the ducted pipe and then pushed into the conduit sleeve as far as the first serration. The first serration is smaller than the other serrations to make this procedure very easy.

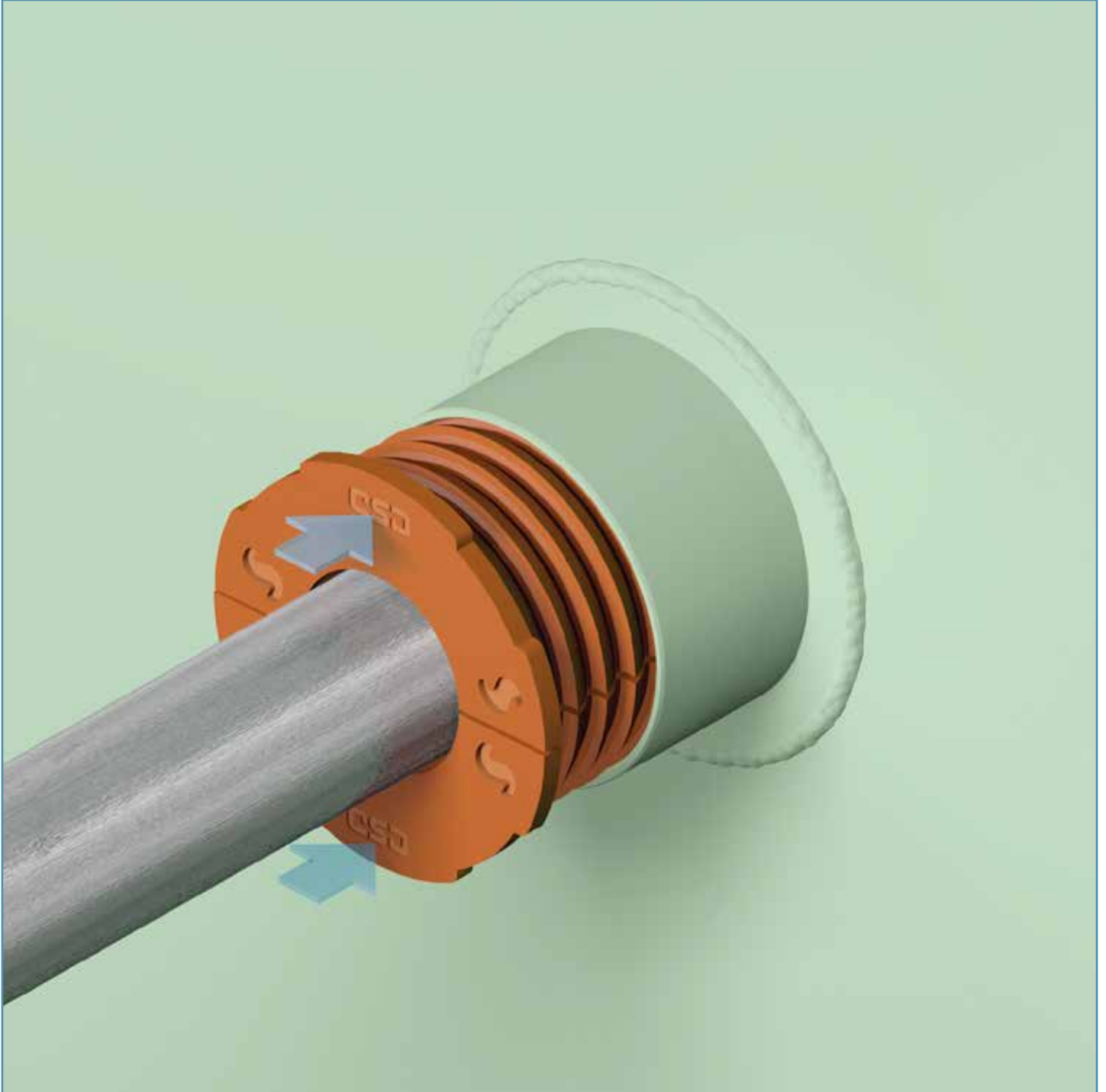
## INSTALLATION INSTRUCTIONS

### SLIPSIL® CONDUIT SLEEVES AND SLIPSIL® SEALING PLUGS



The front side of the conduit sleeve is milled to allow for a perfect gliding of the profiles during further insertion. In addition, it is designed for positioning the segments inside the conduit sleeve. The serration at the back of the plugs has a smaller diameter than the other serrations. For ease of installation, it is advisable to select SLIPSIL® sealing plugs with sufficient wall thickness. Plugs with a very thin wall thickness are less easy to install.

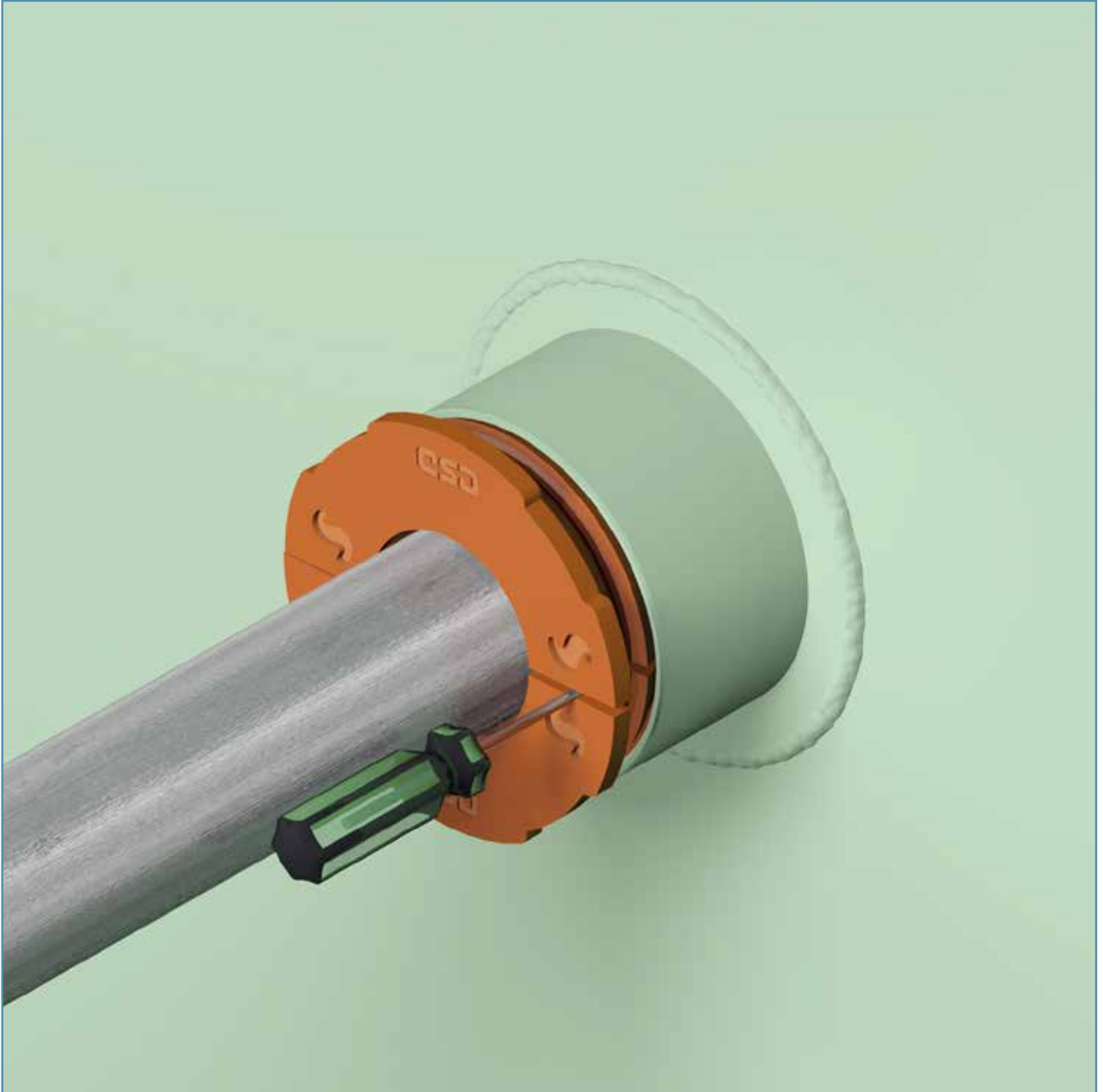
## INSTALLATION INSTRUCTIONS SLIPSIL® CONDUIT SLEEVES AND SLIPSIL® SEALING PLUGS



Both segments of the SLIPSIL® sealing plug are pushed by hand evenly, serration by serration, further into the conduit sleeve. Push the plug in as far as possible in one try. When the insertion is stopped, the serrated profiles will settle themselves immediately against the wall of the conduit sleeve. The resistance for further insertion will then be increased substantially.

## INSTALLATION INSTRUCTIONS

### SLIPSIL® CONDUIT SLEEVES AND SLIPSIL® SEALING PLUGS



SLIPSIL® sealing plugs are already tight when the first serrations are inside the conduit sleeve. This means that during insertion of the second sealing plug, the air in between both plugs will be compressed. The pressure can get so high that it will be impossible to insert the second plug fully. For this reason, from time to time the compressed air has to be released by inserting a flat screwdriver in between both plugs halves. Be careful not to damage the sealing plug. It is advisable to treat the screwdriver with CSD® lubricant before inserting.

## INSTALLATION INSTRUCTIONS

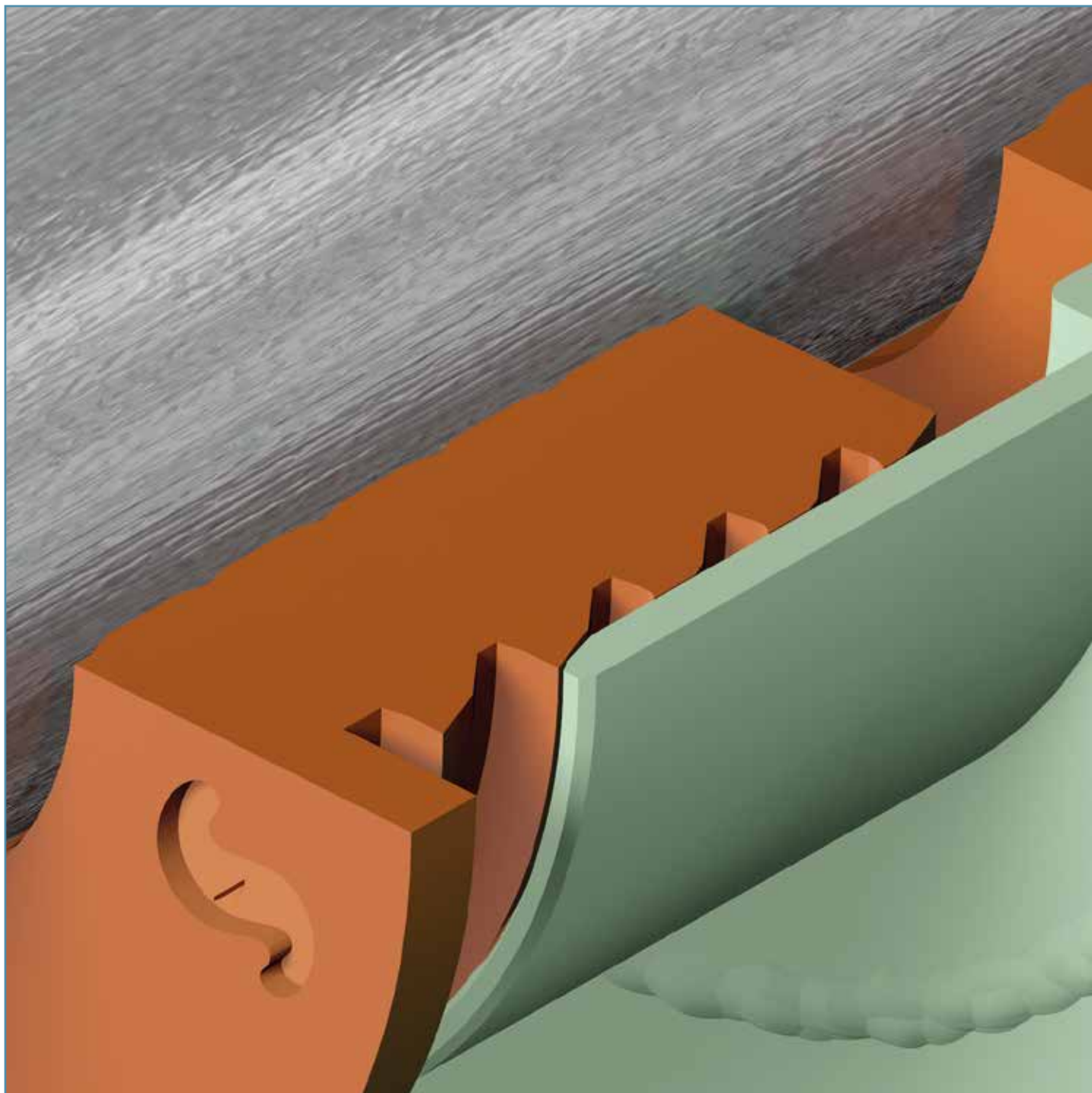
### SLIPSIL® CONDUIT SLEEVES AND SLIPSIL® SEALING PLUGS



The larger plugs might not be inserted completely by hand. The resistance built up by the serrated profiles can be too high to be able to do this. The circumference of the larger plugs creates a substantial contact surface of the rubber against the wall of the conduit sleeve.

## INSTALLATION INSTRUCTIONS

### SLIPSIL® CONDUIT SLEEVES AND SLIPSIL® SEALING PLUGS



The serrated profiles on the outside of the SLIPSIL® sealing plugs are bent during insertion and flattened against the wall of the conduit sleeve. This creates surface resistance. The inner ribs at the inside of the plugs are also reshaped during insertion and will obtain also a larger contact surface.

## INSTALLATION INSTRUCTIONS

### SLIPSIL® CONDUIT SLEEVES AND SLIPSIL® SEALING PLUGS



In such a case, the SLIPSIL® sealing plug can be tapped in using a hammer and a piece of wood. Use a flat piece of wood to prevent the flange of the plug from damage. Also, tapping in further has to be done equally on both segments.

## INSTALLATION INSTRUCTIONS

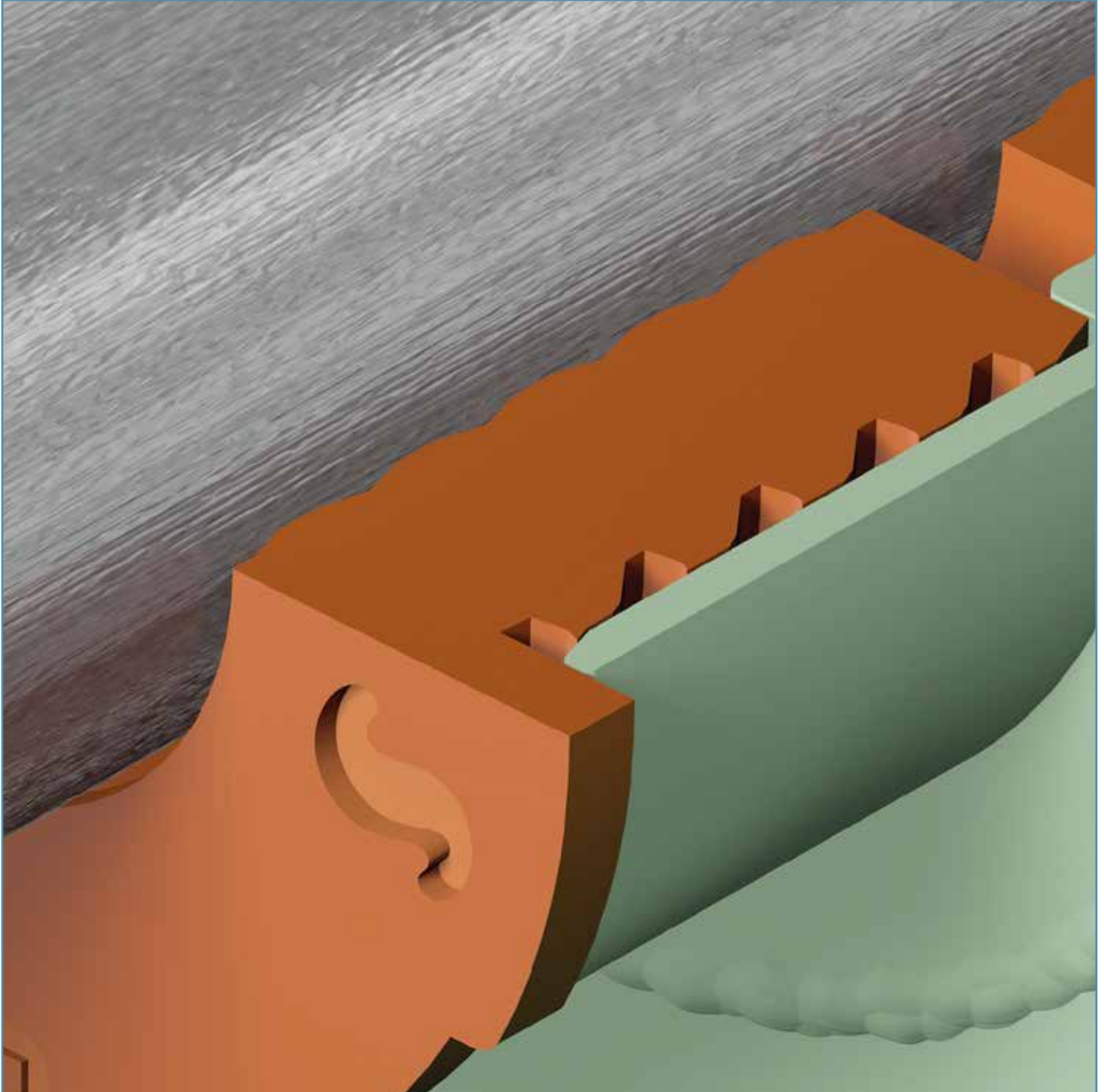
### SLIPSIL® CONDUIT SLEEVES AND SLIPSIL® SEALING PLUGS



The flanged edge of the sealing plug must be flush against the front side of the conduit sleeve. This is automatically guaranteed when the SLIPSIL® sealing plugs are inserted in the SLIPSIL® conduit sleeves with a shoulder inside. The flange has a distinctive design and is clearly marked with the CSD® and **slipsil**® logo.

## INSTALLATION INSTRUCTIONS

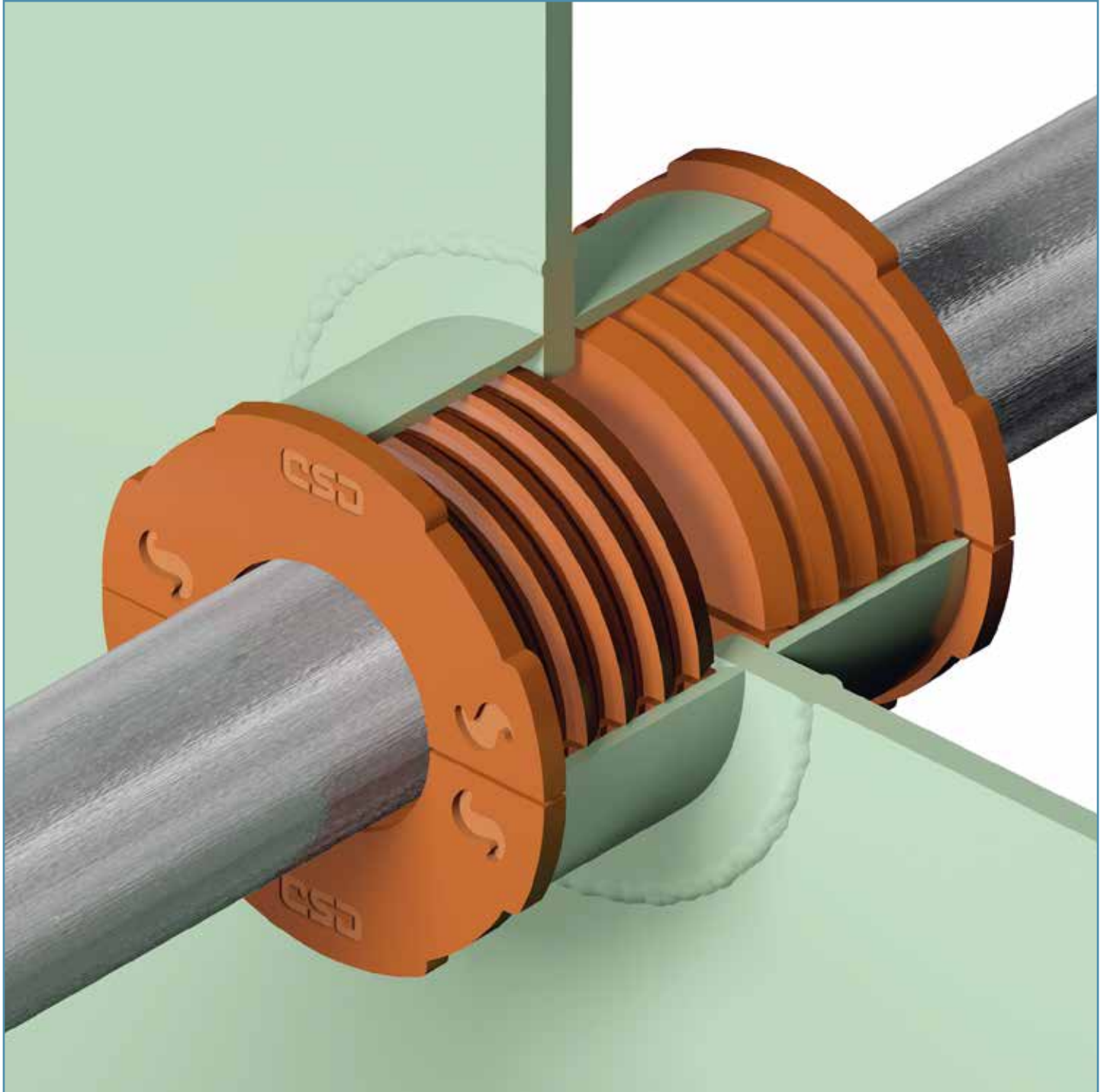
### SLIPSIL® CONDUIT SLEEVES AND SLIPSIL® SEALING PLUGS



The SLIPSIL® sealing plug fully inserted in the SLIPSIL® conduit sleeve with a shoulder inside. The shoulder makes further insertion impossible. The flange of the plug is flush with the front side of the conduit sleeve. For fire rated conduits, but also for installations with higher pressure ratings, the plugs have to be applied at both sides. Another advantage of the SLIPSIL® sealing system is the reduced conduit depth, compared to the non-SLIPSIL® conduit sleeves.

The engineered design of the profiles ensures that the rubber is hardly exposed to any compressive loads and will therefore maintain the tightness ratings over a long service life.

## INSTALLATION INSTRUCTIONS SLIPSIL® CONDUIT SLEEVES AND SLIPSIL® SEALING PLUGS



For certified applications, the SLIPSIL® sealing plugs are to be inserted into the SLIPSIL® conduit sleeves from both sides. The air enclosure between both sealing plugs is limited to the thickness of the shoulder inside the SLIPSIL® conduit sleeve. The enclosed air offers sufficient thermal insulation and sound damping properties.

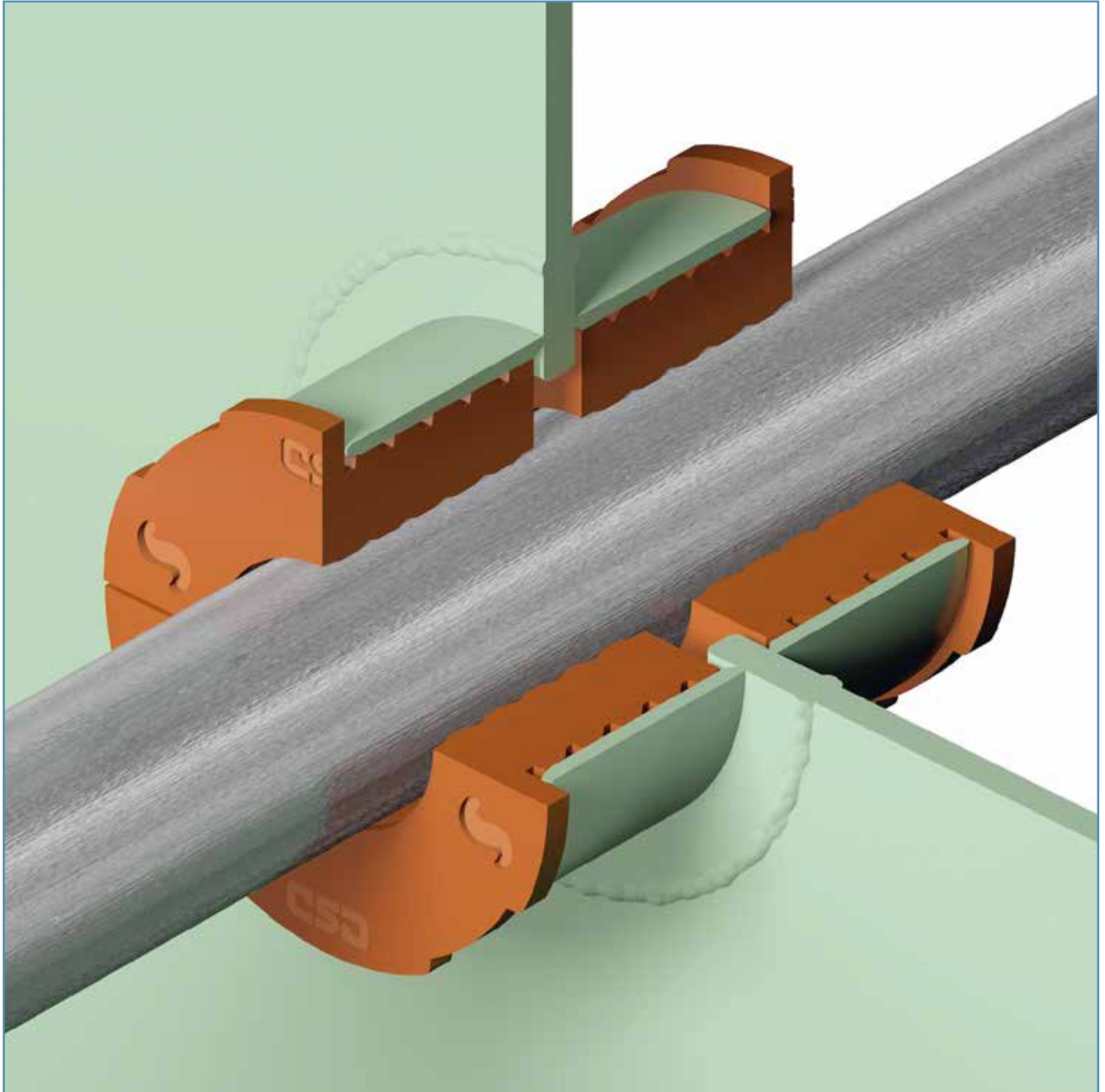
## INSTALLATION INSTRUCTIONS

### SLIPSIL® CONDUIT SLEEVES AND SLIPSIL® SEALING PLUGS



For horizontal ducts of heavy pipes/cables, it is extremely important to support the pipes properly at both sides of the conduit. The SLIPSIL® sealing plugs allow only for limited movement both in radial and axial direction. The use of SLIPSIL® sealing plugs allows ducting of a variety of metallic pipes. They prevent galvanic corrosion and absorb vibrations. The NOFIRNO® rubber, from which the SLIPSIL® sealing plugs are made, allows for application in a wide temperature range from -60 up to +180 °C. The SLIPSIL® sealing system offers excellent durability. NOFIRNO® rubber has very good UV, Ozone and weathering resistance. NOFIRNO® rubber is very endothermic and forms a protective ceramic shield under fire load.

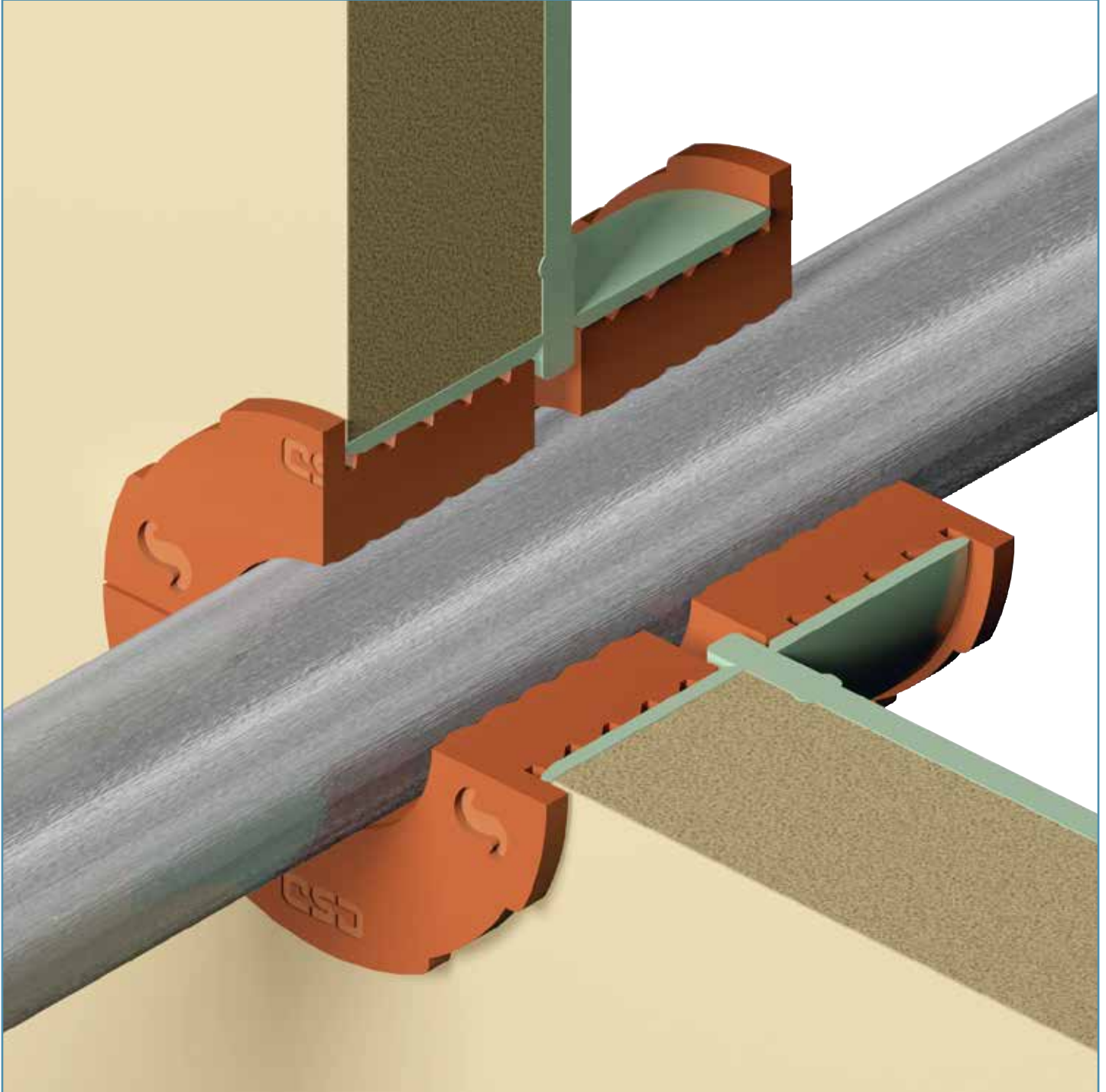
## INSTALLATION INSTRUCTIONS SLIPSIL® CONDUIT SLEEVES AND SLIPSIL® SEALING PLUGS



No metal parts are incorporated in the sealing system. No corrosion of the sealing system itself can take place. The conduit sleeves cannot corrode inside as well due to the tight sealing plugs at both sides of the transit. Invisible CUI - corrosion underneath insulation - will not occur with the SLIPSIL® sealing system.

## INSTALLATION INSTRUCTIONS

### SLIPSIL® CONDUIT SLEEVES AND SLIPSIL® SEALING PLUGS



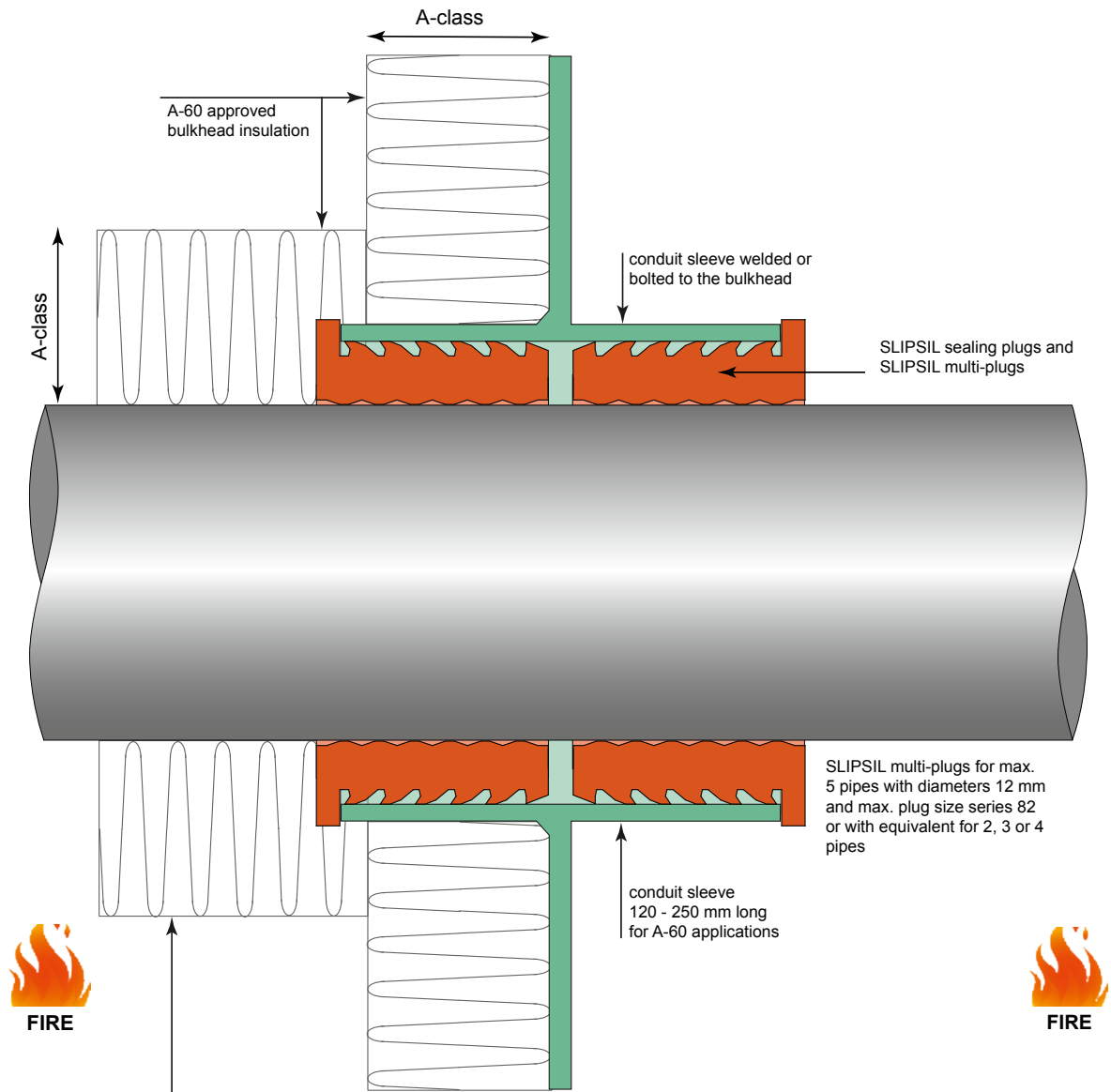
For A-class penetrations, the conduit sleeve needs to be insulated only at the insulated side of the bulkhead or at the lower side of the deck. The ducted pipe has to be insulated according to the specifications on the certified drawings.  
Alternatively the conduit and the ducted metallic pipe (max. 8" NPS) can be insulated with the non-combustible FYLLOFYS® insulation (Efectis test report EFR-17-OMI-003574).  
MED certificate 192130008AA00 issued by KIWA Netherlands.

## INSTALLATION INSTRUCTIONS

### SLIPSIL® CONDUIT SLEEVES AND SLIPSIL® SEALING PLUGS

**direction of exposure:  
fire from either side**

**SLIPSIL PLUG SEALING SYSTEM for  
steel/ss/CuNi pipes min. 1/16" - max. 8" NPS**



length of Insulation around ducted pipe:

steel/ss/CuNi pipes

|              |        |
|--------------|--------|
| up to 1"     | none   |
| >1" up to 3" | 300 mm |
| >3" up to 6" | 450 mm |
| >6" up to 8" | 550 mm |
| 8"           | 650 mm |

**conduit sleeve positioned:**

- symmetrically
- or
- non-symmetrically with longest length on unexposed side



Description: SLIPSIL plug sealing system for A-60 class bulkheads

Mat.: NOFIRNO rubber

Ref.: JAB

Date:

28-09-2018

Scale:

No part of this document may be reproduced by photocopy, print, microfilm or any means without the written permission of BEELE Engineering bv of The Netherlands

Rev. 1

Rev. 2

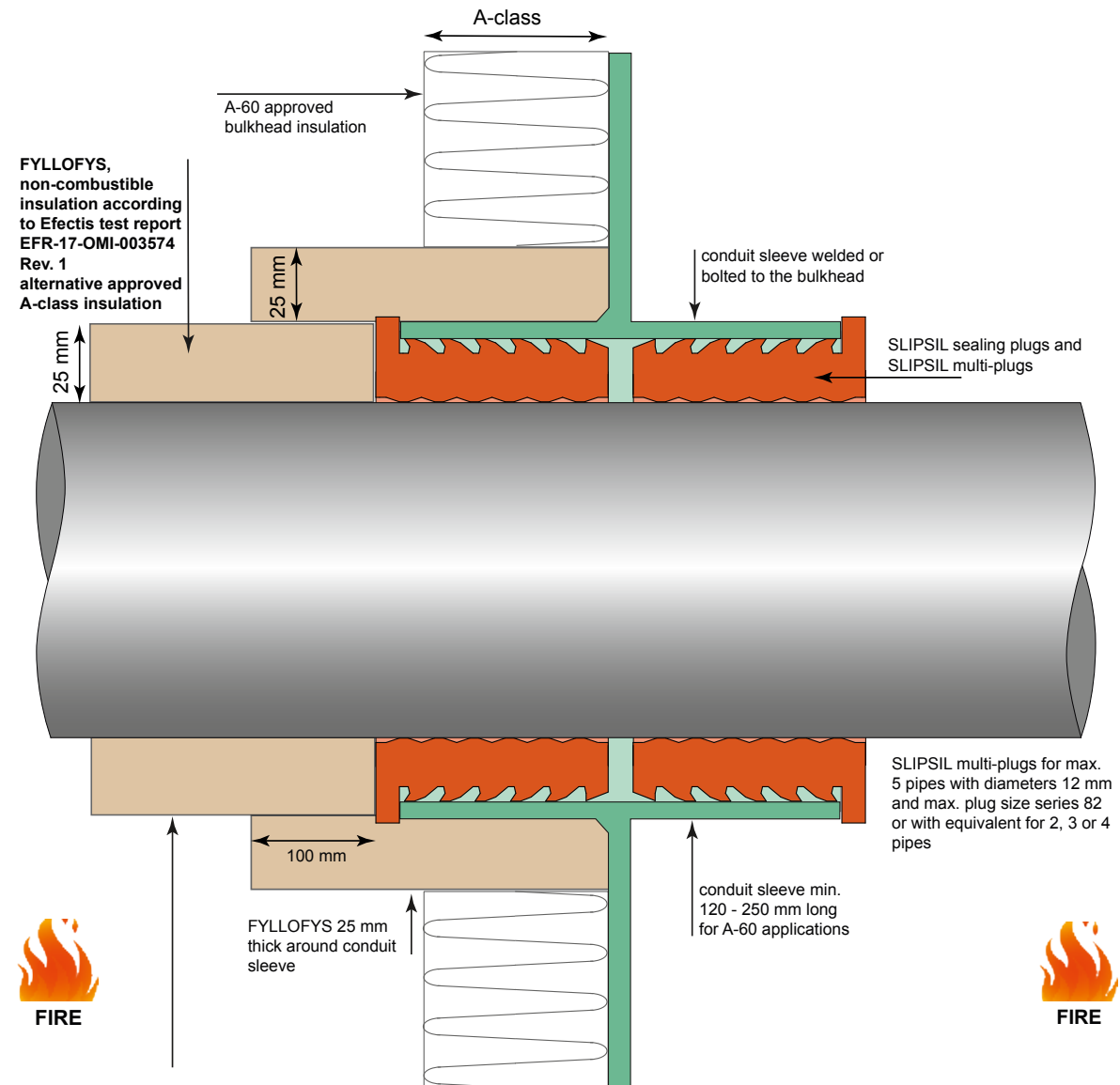
**SL 071E**

## INSTALLATION INSTRUCTIONS

### SLIPSIL® CONDUIT SLEEVES AND SLIPSIL® SEALING PLUGS

**direction of exposure:  
fire from either side**

**SLIPSIL PLUG SEALING SYSTEM for  
steel/ss/CuNi pipes min. 1/16" - max. 8" NPS**



length of FYLLOFYS insulation around ducted pipe:

steel/ssCuNi pipes

|              |        |
|--------------|--------|
| up to 1"     | none   |
| >1" up to 3" | 300 mm |
| >3" up to 6" | 450 mm |
| >6" up to 8" | 550 mm |
| 8"           | 650 mm |

**conduit sleeve positioned:**

- symmetrically
- or
- non-symmetrically with longest length on unexposed side



Description: SLIPSIL plug sealing system for A-60 class bulkheads

Mat.: NOFIRNO rubber/FYLLOFYS insulation

Ref.: JAB

Date:

28-09-2018

Scale:

No part of this document may be reproduced by photocopy, print, microfilm or any means without the written permission of BEELE Engineering bv of The Netherlands

Rev. 1

Rev. 2

**SL 075E**

## INSTALLATION INSTRUCTIONS

### SLIPSIL® CONDUIT SLEEVES AND SLIPSIL® SEALING PLUGS

**SLIPSIL PLUG SEALING SYSTEM for copper pipes min. 1/16" - max. 4" NPS**

SLIPSIL multi-plugs for max. 5 pipes with diameters 8 mm and max. plug size series 55 or with equivalent for 2, 3 or 4 pipes

A-60 approved deck insulation

A-class

SLIPSIL sealing plugs and SLIPSIL multi-plugs

conduit sleeve welded or bolted to the deck

conduit sleeve 120 - 250 mm long for A-60 applications

**FIRE**

**FIRE**

A-class

length of Insulation around ducted pipe:

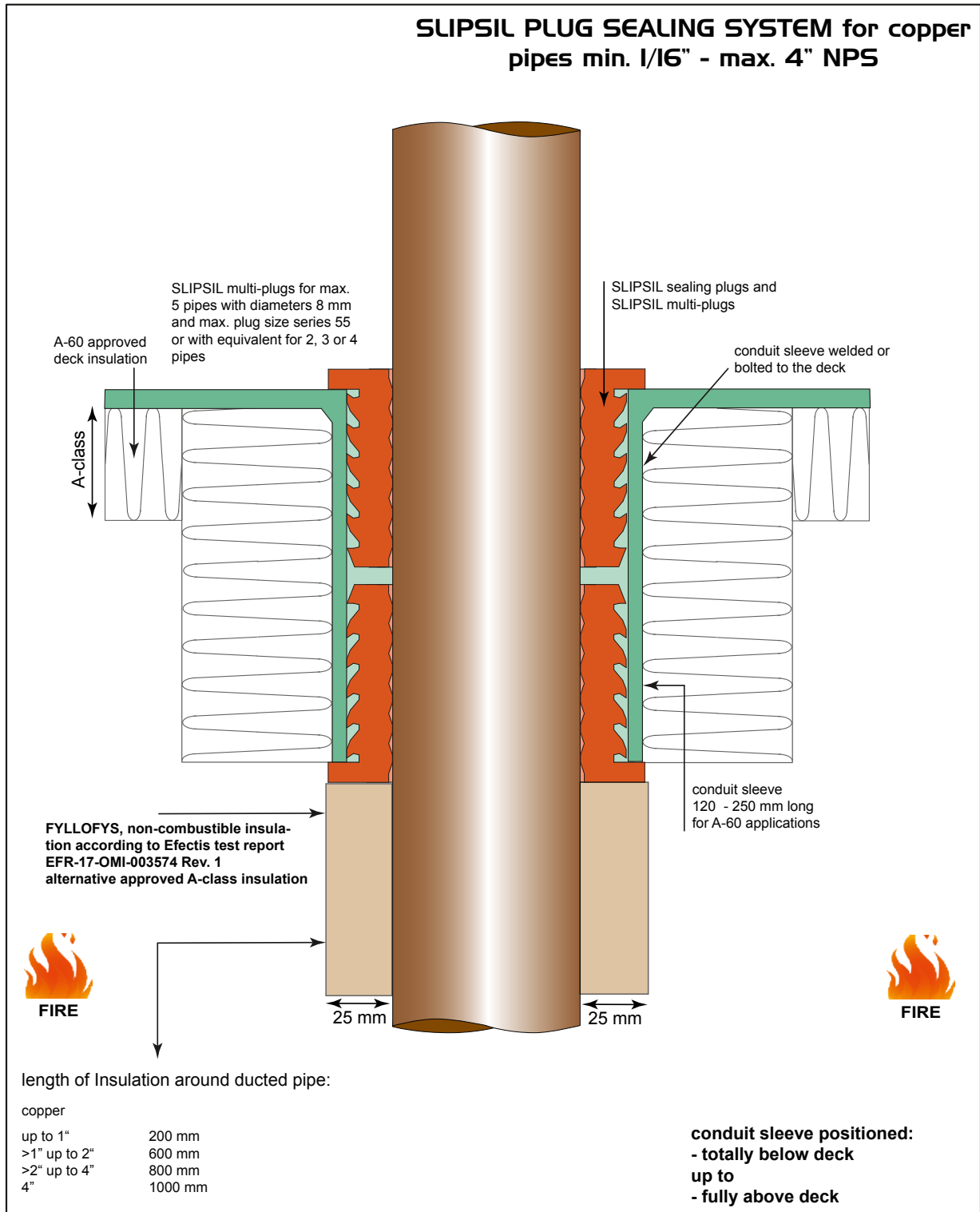
| copper       |         |
|--------------|---------|
| up to 1"     | 200 mm  |
| >1" up to 2" | 600 mm  |
| >2" up to 4" | 800 mm  |
| 4"           | 1000 mm |

conduit sleeve positioned:  
- totally below deck  
up to  
- fully above deck

|                                                                                                                                                                  |                                                               |            |                |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|------------|----------------|--|
|                                                                                                                                                                  | Description: SLIPSIL plug sealing system for A-60 class decks |            |                |  |
|                                                                                                                                                                  | Mat.: NOFIRNO rubber                                          |            |                |  |
| Ref.: JAB                                                                                                                                                        | Date:                                                         | 28-09-2018 | Scale:         |  |
| No part of this document may be reproduced by photocopy, print, microfilm or any means without the written permission of BEELE Engineering bv of The Netherlands | Rev. 1                                                        |            | <b>SL 074E</b> |  |
|                                                                                                                                                                  | Rev. 2                                                        |            |                |  |

## INSTALLATION INSTRUCTIONS

### SLIPSIL® CONDUIT SLEEVES AND SLIPSIL® SEALING PLUGS



Description: SLIPSIL plug sealing system for A-60 class decks

Mat.: NOFIRNO rubber

Ref.: JAB

Date:

28-09-2018

Scale:

No part of this document may be reproduced by photocopy, print, microfilm or any means without the written permission of BEELE Engineering bv of The Netherlands

Rev. 1

Rev. 2

**SL 078E**

## INSTALLATION INSTRUCTIONS

### SLIPSIL® CONDUIT SLEEVES AND SLIPSIL® SEALING PLUGS

#### PRODUCT INFORMATION

##### FYLLOFYS® THERMAL INSULATION

|                                |                                                                                                                            |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| 01) material base              | hydrous phyllosilicate                                                                                                     |
| 02) finishing                  | FISSIC® non-combustible coating                                                                                            |
| 02) specific gravity           | 500 ± 50 kg/m <sup>3</sup>                                                                                                 |
| 03) application limit          | 1100 °C                                                                                                                    |
| 04) cold compressive strength  | 1.5 N/mm <sup>2</sup> (DIN-EN 1094-5)                                                                                      |
| 05) thermal expansion (linear) | 0.6% (750 °C)                                                                                                              |
| 06) permanent linear change    | < 1% (1000 °C)                                                                                                             |
| 07) thermal conductivity       | 0.15 W/mK (200 °C)<br>0.17 W/mK (400 °C)<br>0.19 W/mK (600 °C) ASTM C 1113                                                 |
| 08) non-combustible            | test report Efectis No. EFR-17-OMI-003574 rev.1<br>according to FTP code 2010 - Part 1: non-combustibility test (ISO 1182) |

#### PRODUCT INFORMATION

##### FISSIC® PROTECTIVE COATING

- FISSIC®** is a fire retardant coating on the basis of an APEO-free water-based polymer emulsion without the addition of VOC containing solvents.
- FISSIC®** has been tested successfully on flame spread characteristics and toxicity and is classed as "not capable of producing excessive quantity of smoke or toxic product". MED certificate 39278/B0 EC issued by Bureau Veritas.
- FISSIC®** is fire proof and salt water resistance (even after fire). KIWA Netherlands report 20150421HN01.
- FISSIC®** is gas tight 30 mBar.
- FISSIC®** is water impermeable. KIWA Netherlands report 20160203TW01
- FISSIC®** resistance to diesel & petrol. KIWA Netherlands report 20160224TW01
- FISSIC®** prevents "CUI - corrosion underneath insulation"
- FISSIC®** successfully SBI tested according to EN 13823:2010 for B-s1-d0 class rating.
- FISSIC®** successfully tested according to ISO 1716 for A2-s1-d0. Warrington report 18250B
- FISSIC®** adhesion 3.84 MPa according to ISO 4624:08-2003. KIWA report P 10498a
- FISSIC®** successfully tested on wear resistance according to EN 660-1:1999 - no mass reduction after 2000 double-strokes with a load of 17 kg. KIWA Polymer Institute report P 11035-E

#### PRODUCT INFORMATION

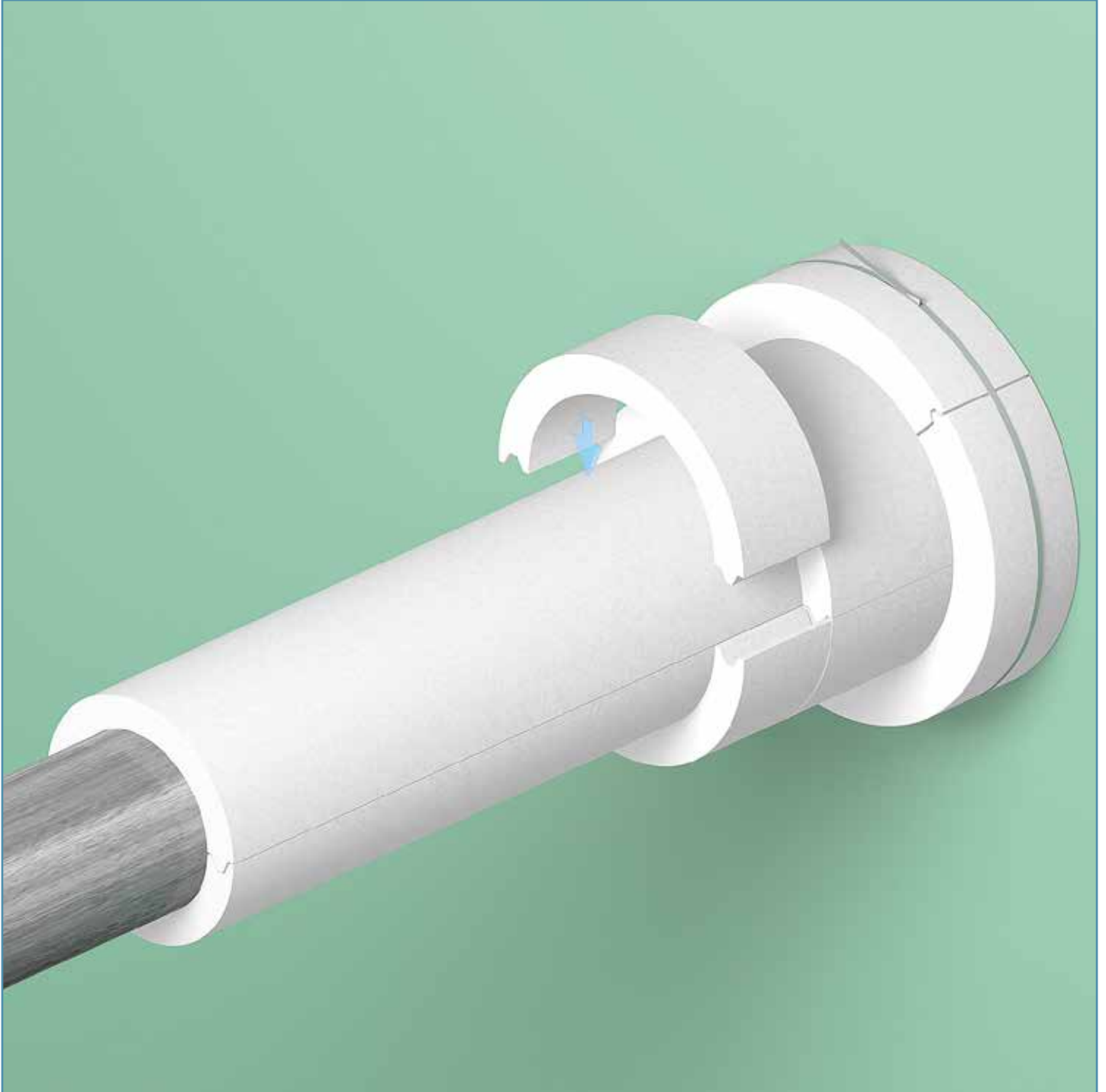
##### FYLLOFYS®/FISSIC® THERMAL INSULATION PRODUCTS

|                          |                                                                                                                                        |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| 01) temperature cycling  | -50 °C to + 100 °C - no changes                                                                                                        |
| 02) QUV weathering       | 96 hours + 336 hours exposure acc. to ISO 11507 method A -<br>no changes with a 0.5 mm thick FISSIC® coating                           |
| 03) seawater resistance  | 96 hours + 336 hours exposure acc. to ISO 9227 - with 0.5 mm thick<br>coating - limited water absorption                               |
| 04) mechanical stability | FYLLOFYS® with FISSIC® coating - 3 point bending test - improvement<br>of Fmax (N) and DLbreak (%) with coating thickness 0.5 - 1.5 mm |

IN-HOUSE TESTING NO. BBV\_0042 - MARCH-MAY 2018

## INSTALLATION INSTRUCTIONS

### SLIPSIL® CONDUIT SLEEVES AND SLIPSIL® SEALING PLUGS



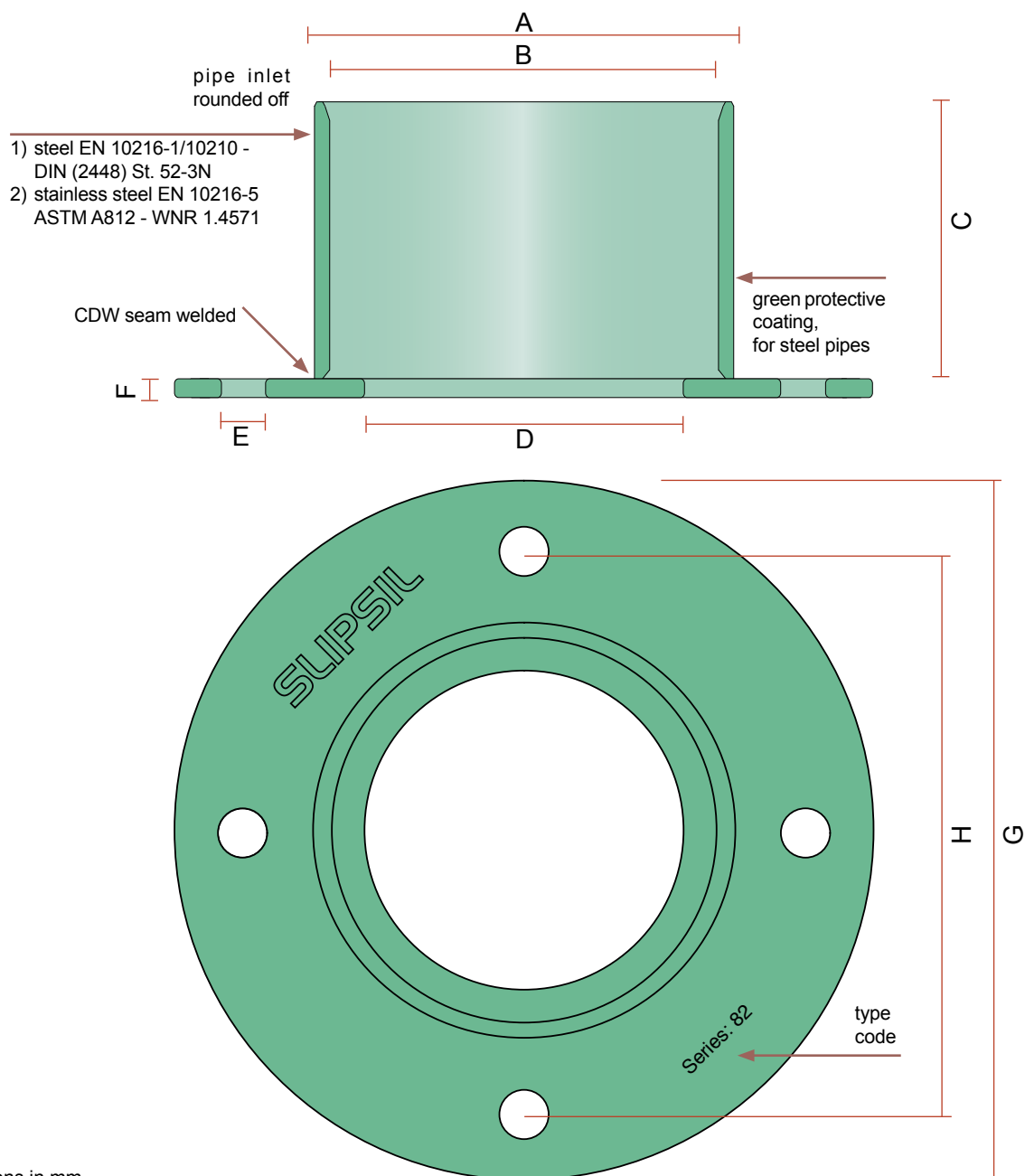
The FYLLOFYS® thermal insulation shells are coated with FISSIC® coating to prevent moisture or vapour absorption of the insulation and to improve overall mechanical strength. FISSIC® coating is also non-combustible (successfully SBI tested according to EN 13823:201 and ISO 1716:2010 for A-class rating - A2-s1-d0 (not significantly contributing to the fire load and fire growth, no smoke/flames, no droplets). Warrington Report 18250B.

MED certificate 39278B-0 EC issued by Bureau Veritas for low flame spread characteristics.

## INSTALLATION INSTRUCTIONS SLIPSIL® FLANGED CONDUIT SLEEVES AND SLIPSIL® SEALING PLUGS



## INSTALLATION INSTRUCTIONS SLIPSIL® FLANGED CONDUIT SLEEVES AND SLIPSIL® SEALING PLUGS



| type      | A    | B   | C  | D   | E    | F | G   | H   | plug series | art. no. steel | art. no. stainless | art. no. gasket |
|-----------|------|-----|----|-----|------|---|-----|-----|-------------|----------------|--------------------|-----------------|
| SL 41 FB  | 48.5 | 41  | 47 | 25  | 10.5 | 6 | 108 | 79  | 41          | 60.8002        | 60.8022            | 51.9002         |
| SL 55 FB  | 62.5 | 55  | 59 | 34  | 10.5 | 6 | 122 | 93  | 55          | 60.8003        | 60.8023            | 51.9003         |
| SL 70 FB  | 78   | 70  | 59 | 50  | 10.5 | 6 | 137 | 108 | 70          | 60.8004        | 60.8024            | 51.9004         |
| SL 82 FB  | 90   | 82  | 59 | 60  | 10.5 | 6 | 149 | 120 | 82          | 60.8005        | 60.8025            | 51.9005         |
| SL 100 FB | 108  | 100 | 59 | 75  | 10.5 | 8 | 167 | 138 | 100         | 60.8006        | 60.8026            | 51.9006         |
| SL 125 FB | 134  | 125 | 59 | 100 | 10.5 | 8 | 192 | 163 | 125         | 60.8007        | 60.8027            | 51.9007         |
| SL 150 FB | 159  | 150 | 71 | 125 | 10.5 | 8 | 217 | 188 | 150         | 60.8008        | 60.8028            | 51.9008         |

## INSTALLATION INSTRUCTIONS SLIPSIL® FLANGED CONDUIT SLEEVES AND SLIPSIL® SEALING PLUGS



When SLIPSIL® flanged conduit sleeves are going to be used, threaded ends have to be welded to the partition in accordance with the hole configuration of the flange of the conduit sleeve.

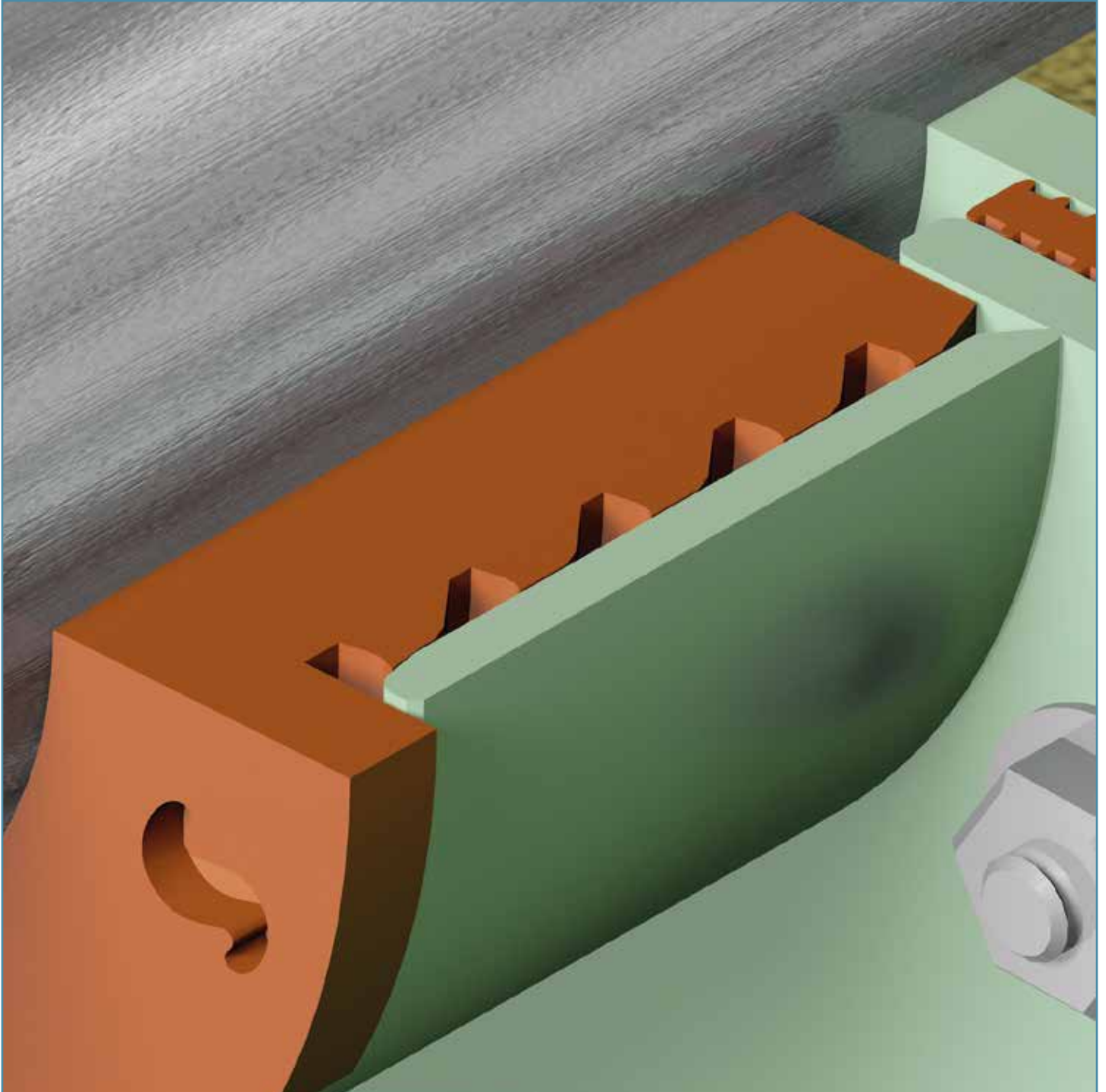
A fitting NOFIRNO® gasket is placed over the threaded ends against the partition. The NOFIRNO® gaskets have a special profiling to exclude the need for excessive compression and the need for retightening from time to time.

## INSTALLATION INSTRUCTIONS SLIPSIL® FLANGED CONDUIT SLEEVES AND SLIPSIL® SEALING PLUGS



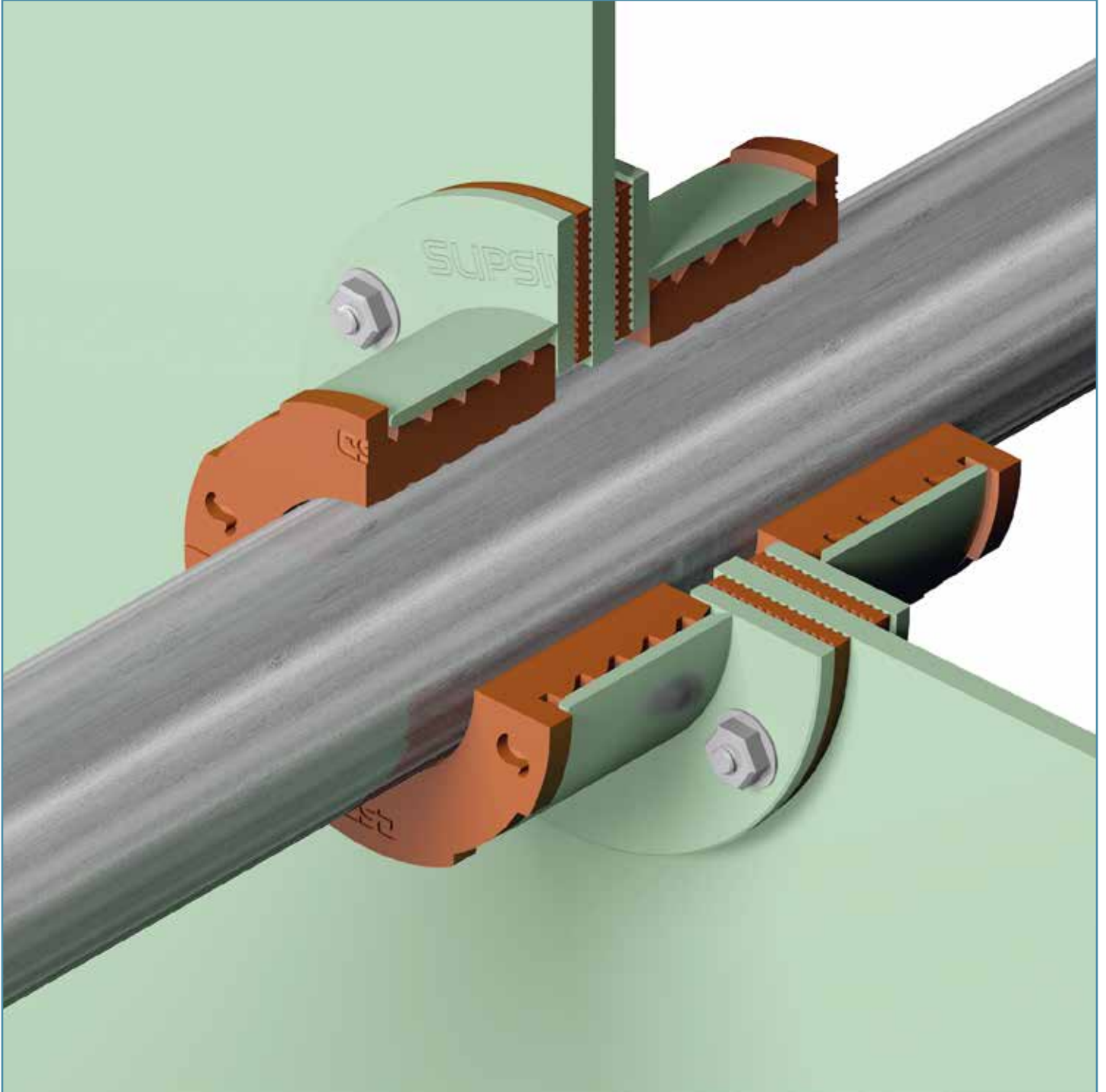
The SLIPSIL® flanged conduit sleeve can then be positioned. Avoid excessive forces on tightening of the NOFIRNO® gasket to guarantee tightness on long term. Generally 6-10 Nm is sufficient. Once the SLIPSIL® flanged conduit sleeve is fixed against the partition, the pipe/cable can be passed through. The pipe has to be ducted straight and centrally. Before starting the installation procedure, any dirt or oil residues should be removed from the conduit sleeve. The installation procedure is similar as for SLIPSIL® plugs in conduit sleeves which are welded into the partitions.

## INSTALLATION INSTRUCTIONS SLIPSIL® FLANGED CONDUIT SLEEVES AND SLIPSIL® SEALING PLUGS



The flanged edge of the sealing plug must be flush against the front side of the conduit sleeve. This is automatically guaranteed when the SLIPSIL® sealing plugs are inserted in the SLIPSIL® conduit sleeves with a shoulder inside. The flange has a distinctive design and is clearly marked with the CSD® and **S**(lipsil)® logo.

## INSTALLATION INSTRUCTIONS SLIPSIL® FLANGED CONDUIT SLEEVES AND SLIPSIL® SEALING PLUGS



For A-class penetrations, only the flanged conduit sleeve at the insulated side of the bulkhead or at the lower side of the deck needs to be insulated. The ducted pipe has to be insulated according to the specifications on the certified drawings.

## INSTALLATION INSTRUCTIONS SLIPSIL® CONDUIT SLEEVES AND SLIPSIL® MULTI-SEALING PLUGS



## INSTALLATION INSTRUCTIONS SLIPSIL® CONDUIT SLEEVES AND SLIPSIL® MULTI-SEALING PLUGS

| cable/<br>pipe<br>diameter | plug<br>type | article<br>number | cable/<br>pipe<br>diameter | plug<br>type | article<br>number | cable/<br>pipe<br>diameter                                                                                                                                                                                                                                                                             | plug<br>type | article<br>number |
|----------------------------|--------------|-------------------|----------------------------|--------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------------|
| 6-7                        | 40/2x6-7     | 40.0926           | 11-12                      | 68/2x11-12   | 40.1936           | 15-16                                                                                                                                                                                                                                                                                                  | 90/2x15-16   | 40.2541           |
| 7-8                        | 40/2x7-8     | 40.0927           | 12-13                      | 68/2x12-13   | 40.1937           | 16-17                                                                                                                                                                                                                                                                                                  | 90/2x16-17   | 40.2542           |
| 8-9                        | 40/2x8-9     | 40.0928           | 13-14                      | 68/2x13-14   | 40.1938           | 17-18                                                                                                                                                                                                                                                                                                  | 90/2x17-18   | 40.2543           |
| 9-10                       | 40/2x9-10    | 40.0929           | 14-15                      | 68/2x14-15   | 40.1939           | 18-19                                                                                                                                                                                                                                                                                                  | 90/2x18-19   | 40.2544           |
| 10-11                      | 40/2x10-11   | 40.0930           | 15-16                      | 68/2x15-16   | 40.1940           | 19-20                                                                                                                                                                                                                                                                                                  | 90/2x19-20   | 40.2545           |
|                            |              |                   | 16-17                      | 68/2x16-17   | 40.1941           | 20-21                                                                                                                                                                                                                                                                                                  | 90/2x20-21   | 40.2546           |
| 6-7                        | 41/2x6-7     | 40.1026           | 17-18                      | 68/2x17-18   | 40.1942           | 21-22                                                                                                                                                                                                                                                                                                  | 90/2x21-22   | 40.2547           |
| 7-8                        | 41/2x7-8     | 40.1027           | 18-19                      | 68/2x18-19   | 40.1943           | 22-23                                                                                                                                                                                                                                                                                                  | 90/2x22-23   | 40.2548           |
| 8-9                        | 41/2x8-9     | 40.1028           | 19-20                      | 68/2x19-20   | 40.1944           | 23-24                                                                                                                                                                                                                                                                                                  | 90/2x23-24   | 40.2549           |
| 9-10                       | 41/2x9-10    | 40.1029           | 20-21                      | 68/2x20-21   | 40.1945           | 24-25                                                                                                                                                                                                                                                                                                  | 90/2x24-25   | 40.2550           |
| 10-11                      | 41/2x10-11   | 40.1030           | 21-22                      | 68/2x21-22   | 40.1946           | 25-26                                                                                                                                                                                                                                                                                                  | 90/2x25-26   | 40.2551           |
|                            |              |                   | 22-23                      | 68/2x22-23   | 40.1947           |                                                                                                                                                                                                                                                                                                        |              |                   |
| 6-7                        | 43/2x6-7     | 40.1126           | 11-12                      | 70/2x11-12   | 40.2036           | <p>* multi-plugs for other plug series are made upon customer request. The listed sizes are standard items. For other sizes, please contact our sales department.</p>                                                                                                                                  |              |                   |
| 7-8                        | 43/2x7-8     | 40.1127           | 12-13                      | 70/2x12-13   | 40.2037           |                                                                                                                                                                                                                                                                                                        |              |                   |
| 8-9                        | 43/2x8-9     | 40.1128           | 13-14                      | 70/2x13-14   | 40.2038           |                                                                                                                                                                                                                                                                                                        |              |                   |
| 9-10                       | 43/2x9-10    | 40.1129           | 14-15                      | 70/2x14-15   | 40.2039           |                                                                                                                                                                                                                                                                                                        |              |                   |
| 10-11                      | 43/2x10-11   | 40.1130           | 15-16                      | 70/2x15-16   | 40.2040           |                                                                                                                                                                                                                                                                                                        |              |                   |
| 6-7                        | 50/2x6-7     | 40.1231           | 16-17                      | 70/2x16-17   | 40.2041           |                                                                                                                                                                                                                                                                                                        |              |                   |
| 7-8                        | 50/2x7-8     | 40.1232           | 17-18                      | 70/2x17-18   | 40.2042           |                                                                                                                                                                                                                                                                                                        |              |                   |
| 8-9                        | 50/2x8-9     | 40.1233           | 18-19                      | 70/2x18-19   | 40.2043           |                                                                                                                                                                                                                                                                                                        |              |                   |
| 9-10                       | 50/2x9-10    | 40.1234           | 19-20                      | 70/2x19-20   | 40.2044           |                                                                                                                                                                                                                                                                                                        |              |                   |
| 10-11                      | 50/2x10-11   | 40.1235           | 20-21                      | 70/2x20-21   | 40.2045           |                                                                                                                                                                                                                                                                                                        |              |                   |
| 11-12                      | 50/2x11-12   | 40.1236           | 21-22                      | 70/2x21-22   | 40.2046           |                                                                                                                                                                                                                                                                                                        |              |                   |
| 12-13                      | 50/2x12-13   | 40.1237           | 22-23                      | 70/2x22-23   | 40.2047           |                                                                                                                                                                                                                                                                                                        |              |                   |
| 13-14                      | 50/2x13-14   | 40.1238           |                            |              |                   | <p>SLIPSIL® multi-sealing plugs for two up to five <b>same diameter cables or pipes</b> consist of two, three or four equal parts, so that they can be installed after the cables or pipes have been laid. For selecting the right type of sealing plug, look for the plug series from the tables.</p> |              |                   |
| 14-15                      | 50/2x14-15   | 40.1239           | 12-13                      | 78/2x12-13   | 40.2241           |                                                                                                                                                                                                                                                                                                        |              |                   |
| 15-16                      | 50/2x15-16   | 40.1240           | 13-14                      | 78/2x13-14   | 40.2242           |                                                                                                                                                                                                                                                                                                        |              |                   |
|                            |              |                   | 14-15                      | 78/2x14-15   | 40.2243           |                                                                                                                                                                                                                                                                                                        |              |                   |
| 6-7                        | 53/2x6-7     | 40.1331           | 15-16                      | 78/2x15-16   | 40.2244           |                                                                                                                                                                                                                                                                                                        |              |                   |
| 7-8                        | 53/2x7-8     | 40.1332           | 16-17                      | 78/2x16-17   | 40.2245           |                                                                                                                                                                                                                                                                                                        |              |                   |
| 8-9                        | 53/2x8-9     | 40.1333           | 17-18                      | 78/2x17-18   | 40.2246           |                                                                                                                                                                                                                                                                                                        |              |                   |
| 9-10                       | 53/2x9-10    | 40.1334           | 18-19                      | 78/2x18-19   | 40.2247           |                                                                                                                                                                                                                                                                                                        |              |                   |
| 10-11                      | 53/2x10-11   | 40.1335           | 19-20                      | 78/2x19-20   | 40.2248           |                                                                                                                                                                                                                                                                                                        |              |                   |
| 11-12                      | 53/2x11-12   | 40.1336           | 20-21                      | 78/2x20-21   | 40.2249           |                                                                                                                                                                                                                                                                                                        |              |                   |
| 12-13                      | 53/2x12-13   | 40.1337           | 21-22                      | 78/2x21-22   | 40.2250           |                                                                                                                                                                                                                                                                                                        |              |                   |
| 13-14                      | 53/2x13-14   | 40.1338           | 22-23                      | 78/2x22-23   | 40.2251           |                                                                                                                                                                                                                                                                                                        |              |                   |
| 14-15                      | 53/2x14-15   | 40.1339           |                            |              |                   |                                                                                                                                                                                                                   |              |                   |
| 15-16                      | 53/2x15-16   | 40.1340           | 12-13                      | 80/2x12-13   | 40.2341           |                                                                                                                                                                                                                                                                                                        |              |                   |
|                            |              |                   | 13-14                      | 80/2x13-14   | 40.2342           |                                                                                                                                                                                                                                                                                                        |              |                   |
| 6-7                        | 55/2x6-7     | 40.1431           | 14-15                      | 80/2x14-15   | 40.2343           |                                                                                                                                                                                                                                                                                                        |              |                   |
| 7-8                        | 55/2x7-8     | 40.1432           | 15-16                      | 80/2x15-16   | 40.2344           |                                                                                                                                                                                                                                                                                                        |              |                   |
| 8-9                        | 55/2x8-9     | 40.1433           | 16-17                      | 80/2x16-17   | 40.2345           |                                                                                                                                                                                                                                                                                                        |              |                   |
| 9-10                       | 55/2x9-10    | 40.1434           | 17-18                      | 80/2x17-18   | 40.2346           |                                                                                                                                                                                                                                                                                                        |              |                   |
| 10-11                      | 55/2x10-11   | 40.1435           | 18-19                      | 80/2x18-19   | 40.2347           |                                                                                                                                                                                                                                                                                                        |              |                   |
| 11-12                      | 55/2x11-12   | 40.1436           | 19-20                      | 80/2x19-20   | 40.2348           |                                                                                                                                                                                                                                                                                                        |              |                   |
| 12-13                      | 55/2x12-13   | 40.1437           | 20-21                      | 80/2x20-21   | 40.2349           |                                                                                                                                                                                                                                                                                                        |              |                   |
| 13-14                      | 55/2x13-14   | 40.1438           | 21-22                      | 80/2x21-22   | 40.2350           |                                                                                                                                                                                                                                                                                                        |              |                   |
| 14-15                      | 55/2x14-15   | 40.1439           | 22-23                      | 80/2x22-23   | 40.2351           |                                                                                                                                                                                                                                                                                                        |              |                   |
| 15-16                      | 55/2x15-16   | 40.1440           |                            |              |                   | <p>type code: series/2xcable diameter<br/>For instance 40/2x6-7</p>                                                                                                                                                                                                                                    |              |                   |
|                            |              |                   | 12-13                      | 82/2x12-13   | 40.2441           |                                                                                                                                                                                                                                                                                                        |              |                   |
| 11-12                      | 60/2x11-12   | 40.1636           | 13-14                      | 82/2x13-14   | 40.2442           |                                                                                                                                                                                                                                                                                                        |              |                   |
| 12-13                      | 60/2x12-13   | 40.1637           | 14-15                      | 82/2x14-15   | 40.2443           |                                                                                                                                                                                                                                                                                                        |              |                   |
| 13-14                      | 60/2x13-14   | 40.1638           | 15-16                      | 82/2x15-16   | 40.2444           |                                                                                                                                                                                                                                                                                                        |              |                   |
| 14-15                      | 60/2x14-15   | 40.1639           | 16-17                      | 82/2x16-17   | 40.2445           |                                                                                                                                                                                                                                                                                                        |              |                   |
| 15-16                      | 60/2x15-16   | 40.1640           | 17-18                      | 82/2x17-18   | 40.2446           |                                                                                                                                                                                                                                                                                                        |              |                   |
|                            |              |                   | 18-19                      | 82/2x18-19   | 40.2447           |                                                                                                                                                                                                                                                                                                        |              |                   |
| 11-12                      | 62/2x11-12   | 40.1736           | 19-20                      | 82/2x19-20   | 40.2448           |                                                                                                                                                                                                                                                                                                        |              |                   |
| 12-13                      | 62/2x12-13   | 40.1737           | 20-21                      | 82/2x20-21   | 40.2449           |                                                                                                                                                                                                                                                                                                        |              |                   |
| 13-14                      | 62/2x13-14   | 40.1738           | 21-22                      | 82/2x21-22   | 40.2450           |                                                                                                                                                                                                                                                                                                        |              |                   |
| 14-15                      | 62/2x14-15   | 40.1739           | 22-23                      | 82/2x22-23   | 40.2451           |                                                                                                                                                                                                                                                                                                        |              |                   |
| 15-16                      | 62/2x15-16   | 40.1740           |                            |              |                   |                                                                                                                                                                                                                                                                                                        |              |                   |

## INSTALLATION INSTRUCTIONS SLIPSIL® CONDUIT SLEEVES AND SLIPSIL® MULTI-SEALING PLUGS

| cable/<br>pipe<br>diameter | plug<br>type | article<br>number | cable/<br>pipe<br>diameter | plug<br>type | article<br>number | cable/<br>pipe<br>diameter | plug<br>type | article<br>number |
|----------------------------|--------------|-------------------|----------------------------|--------------|-------------------|----------------------------|--------------|-------------------|
| 6-7                        | 40/3x6-7     | 40.0936           | 14-15                      | 80/3x14-15   | 40.2360           | 15-16                      | 78/5x15-16   | 40.2271           |
| 7-8                        | 40/3x7-8     | 40.0937           | 15-16                      | 80/3x15-16   | 40.2361           | 10-11                      | 80/5x10-11   | 40.2366           |
| 6-7                        | 41/3x6-7     | 40.1036           | 10-11                      | 82/3x10-11   | 40.2456           | 11-12                      | 80/5x11-12   | 40.2367           |
| 7-8                        | 41/3x7-8     | 40.1037           | 11-12                      | 82/3x11-12   | 40.2457           | 12-13                      | 80/5x12-13   | 40.2368           |
| 6-7                        | 43/3x6-7     | 40.1136           | 12-13                      | 82/3x12-13   | 40.2458           | 13-14                      | 80/5x13-14   | 40.2369           |
| 7-8                        | 43/3x7-8     | 40.1137           | 13-14                      | 82/3x13-14   | 40.2459           | 14-15                      | 80/5x14-15   | 40.2370           |
| 6-7                        | 50/3x6-7     | 40.1241           | 14-15                      | 82/3x14-15   | 40.2460           | 15-16                      | 80/5x15-16   | 40.2371           |
| 7-8                        | 50/3x7-8     | 40.1242           | 15-16                      | 82/3x15-16   | 40.2461           | 10-11                      | 82/5x10-11   | 40.2466           |
| 8-9                        | 50/3x8-9     | 40.1243           | 10-11                      | 90/3x10-11   | 40.2556           | 11-12                      | 82/5x11-12   | 40.2467           |
| 6-7                        | 53/3x6-7     | 40.1341           | 11-12                      | 90/3x11-12   | 40.2557           | 12-13                      | 82/5x12-13   | 40.2468           |
| 7-8                        | 53/3x7-8     | 40.1342           | 12-13                      | 90/3x12-13   | 40.2558           | 13-14                      | 82/5x13-14   | 40.2469           |
| 8-9                        | 53/3x8-9     | 40.1343           | 13-14                      | 90/3x13-14   | 40.2559           | 14-15                      | 82/5x14-15   | 40.2470           |
| 9-10                       | 53/3x9-10    | 40.1344           | 14-15                      | 90/3x14-15   | 40.2560           | 15-16                      | 82/5x15-16   | 40.2471           |
| 10-11                      | 53/3x10-11   | 40.1345           | 15-16                      | 90/3x15-16   | 40.2561           |                            |              |                   |
| 6-7                        | 55/3x6-7     | 40.1441           | 40-41                      | 125/3x40T    | 40.3658           |                            |              |                   |
| 7-8                        | 55/3x7-8     | 40.1442           | 38-39                      | 160/3x38T    | 40.4448           |                            |              |                   |
| 8-9                        | 55/3x8-9     | 40.1443           | 44-45                      | 160/3x44T    | 40.4454           |                            |              |                   |
| 9-10                       | 55/3x9-10    | 40.1444           | 40-41                      | 160/4x40     | 40.2561           |                            |              |                   |
| 10-11                      | 55/3x10-11   | 40.1445           |                            |              |                   |                            |              |                   |
| 6-7                        | 60/3x6-7     | 40.1646           | 6-7                        | 40/5x6-7     | 40.0941           |                            |              |                   |
| 7-8                        | 60/3x7-8     | 40.1647           | 7-8                        | 40/5x7-8     | 40.0942           |                            |              |                   |
| 8-9                        | 60/3x8-9     | 40.1648           | 6-7                        | 41/5x6-7     | 40.1041           |                            |              |                   |
| 9-10                       | 60/3x9-10    | 40.1649           | 7-8                        | 41/5x7-8     | 40.1042           |                            |              |                   |
| 10-11                      | 60/3x10-11   | 40.1650           | 6-7                        | 43/5x6-7     | 40.1141           |                            |              |                   |
| 6-7                        | 62/3x6-7     | 40.1746           | 7-8                        | 43/5x7-8     | 40.1142           |                            |              |                   |
| 7-8                        | 62/3x7-8     | 40.1747           | 6-7                        | 50/5x6-7     | 40.1251           |                            |              |                   |
| 8-9                        | 62/3x8-9     | 40.1748           | 7-8                        | 50/5x7-8     | 40.1252           |                            |              |                   |
| 9-10                       | 62/3x9-10    | 40.1749           | 8-9                        | 50/5x8-9     | 40.1253           |                            |              |                   |
| 10-11                      | 62/3x10-11   | 40.1750           | 6-7                        | 53/5x6-7     | 40.1351           |                            |              |                   |
| 6-7                        | 68/3x6-7     | 40.1951           | 7-8                        | 53/5x7-8     | 40.1352           |                            |              |                   |
| 7-8                        | 68/3x7-8     | 40.1952           | 8-9                        | 53/5x8-9     | 40.1353           |                            |              |                   |
| 8-9                        | 68/3x8-9     | 40.1953           | 9-10                       | 53/5x9-10    | 40.1354           |                            |              |                   |
| 9-10                       | 68/3x9-10    | 40.1954           | 10-11                      | 53/5x10-11   | 40.1355           |                            |              |                   |
| 10-11                      | 68/3x10-11   | 40.1955           | 6-7                        | 55/5x6-7     | 40.1451           |                            |              |                   |
| 11-12                      | 68/3x11-12   | 40.1956           | 7-8                        | 55/5x7-8     | 40.1452           |                            |              |                   |
| 12-13                      | 68/3x12-13   | 40.1957           | 8-9                        | 55/5x8-9     | 40.1453           |                            |              |                   |
| 6-7                        | 70/3x6-7     | 40.2051           | 9-10                       | 55/5x9-10    | 40.1454           |                            |              |                   |
| 7-8                        | 70/3x7-8     | 40.2052           | 10-11                      | 55/5x10-11   | 40.1455           |                            |              |                   |
| 8-9                        | 70/3x8-9     | 40.2053           | 6-7                        | 68/5x6-7     | 40.1961           |                            |              |                   |
| 9-10                       | 70/3x9-10    | 40.2054           | 7-8                        | 68/5x7-8     | 40.1962           |                            |              |                   |
| 10-11                      | 70/3x10-11   | 40.2055           | 8-9                        | 68/5x8-9     | 40.1963           |                            |              |                   |
| 11-12                      | 70/3x11-12   | 40.2054           | 9-10                       | 68/5x9-10    | 40.1964           |                            |              |                   |
| 12-13                      | 70/3x12-13   | 40.2055           | 10-11                      | 68/5x10-11   | 40.1965           |                            |              |                   |
| 10-11                      | 78/3x10-11   | 40.2256           | 11-12                      | 68/5x11-12   | 40.1966           |                            |              |                   |
| 11-12                      | 78/3x11-12   | 40.2257           | 12-13                      | 68/5x12-13   | 40.1967           |                            |              |                   |
| 12-13                      | 78/3x12-13   | 40.2258           | 10-11                      | 78/5x10-11   | 40.2266           |                            |              |                   |
| 13-14                      | 78/3x13-14   | 40.2259           | 11-12                      | 78/5x11-12   | 40.2267           |                            |              |                   |
| 14-15                      | 78/3x14-15   | 40.2260           | 12-13                      | 78/5x12-13   | 40.2268           |                            |              |                   |
| 15-16                      | 78/3x15-16   | 40.2261           | 13-14                      | 78/5x13-14   | 40.2269           |                            |              |                   |
| 10-11                      | 80/3x10-11   | 40.2356           | 14-15                      | 78/5x14-15   | 40.2270           |                            |              |                   |
| 11-12                      | 80/3x11-12   | 40.2357           |                            |              |                   |                            |              |                   |
| 12-13                      | 80/3x12-13   | 40.2358           |                            |              |                   |                            |              |                   |
| 13-14                      | 80/3x13-14   | 40.2359           |                            |              |                   |                            |              |                   |

\* multi-plugs for other plug series are made upon customer request. The listed sizes are standard items. For other sizes, please contact our sales department.



type code: series/3xcable diameter  
For instance 40/3x6-7



type code: series/5xcable diameter  
For instance 40/5x6-7

## INSTALLATION INSTRUCTIONS SLIPSIL® CONDUIT SLEEVES AND SLIPSIL® MULTI-SEALING PLUGS



SLIPSIL® multi-sealing plugs consist of two, three or four segments. The installation of the multi-plugs consisting of two segments is similar to the installation of the SLIPSIL® sealing plugs for sealing one ducted pipe. Note: the ducted pipes have to be ducted straight with a distance in between the pipes corresponding to the hole configuration of the multi-plugs.

All segments of the multi-plugs are treated with CSD® lubricant on the inside.

Please refer to the Safety Data Sheet of the CSD® lubricant for more information.

## INSTALLATION INSTRUCTIONS SLIPSIL® CONDUIT SLEEVES AND SLIPSIL® MULTI-SEALING PLUGS



The segments are also treated with CSD® lubricant on the outside.

Note: before starting the installation procedure, any dirt, oil residues or welding spots should be removed from the conduit sleeve. Then the inside wall of the conduit sleeve is treated with CSD® lubricant. Please refer to the Safety Data Sheet of the CSD® lubricant for more information.

## INSTALLATION INSTRUCTIONS SLIPSIL® CONDUIT SLEEVES AND SLIPSIL® MULTI-SEALING PLUGS

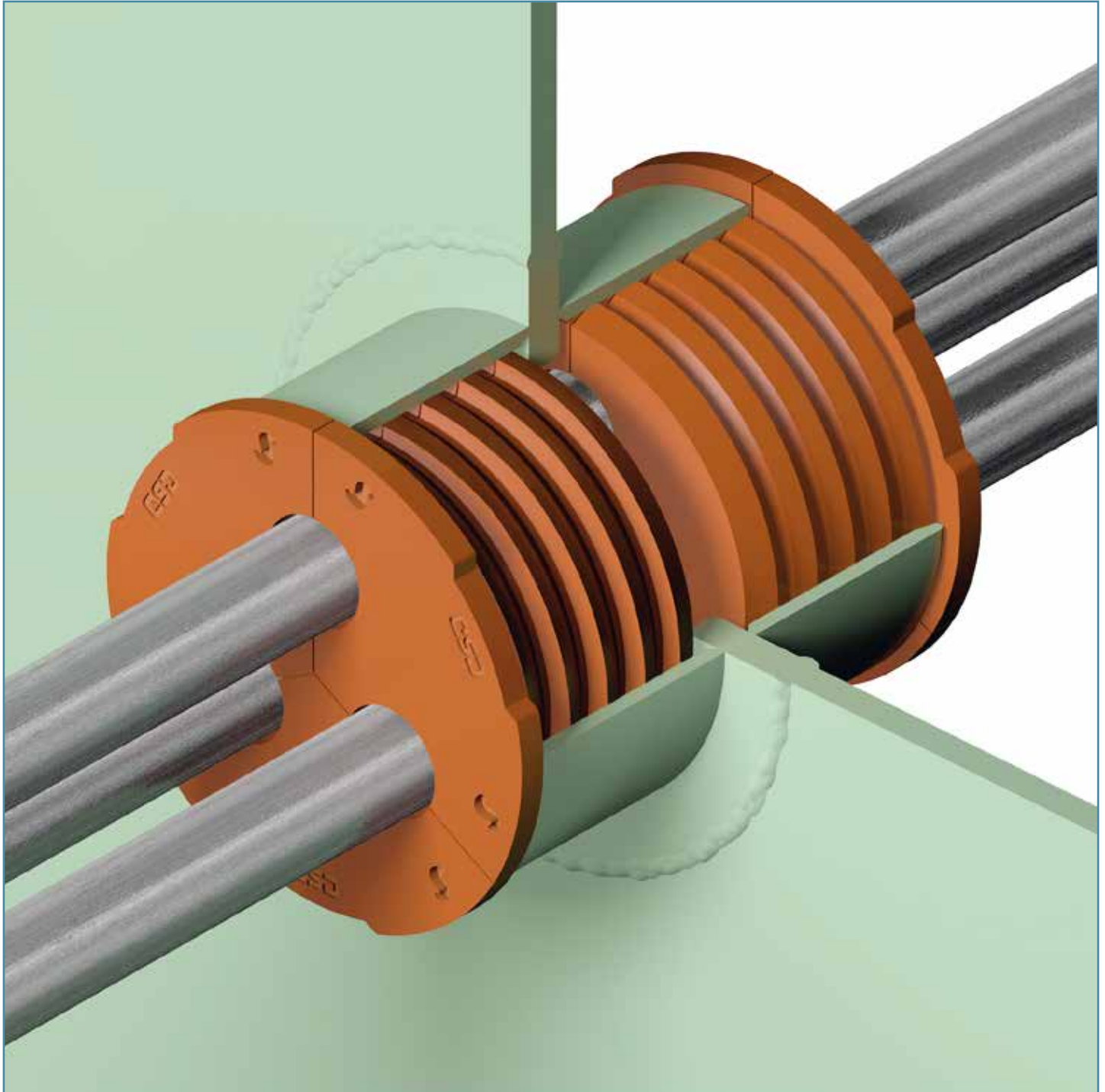


The segments of the SLIPSIL® multi-sealing plug are placed around the ducted pipes and then pushed into the conduit sleeve as far as the first serration. The first serration is smaller than the other serrations to make this procedure very easy.

Then the three or four segments of the SLIPSIL® multi-sealing plug are pushed by hand evenly, serration by serration, further into the conduit sleeve.

Further finishing of the installation according to the instructions of the SLIPSIL® plugs for single pipes.

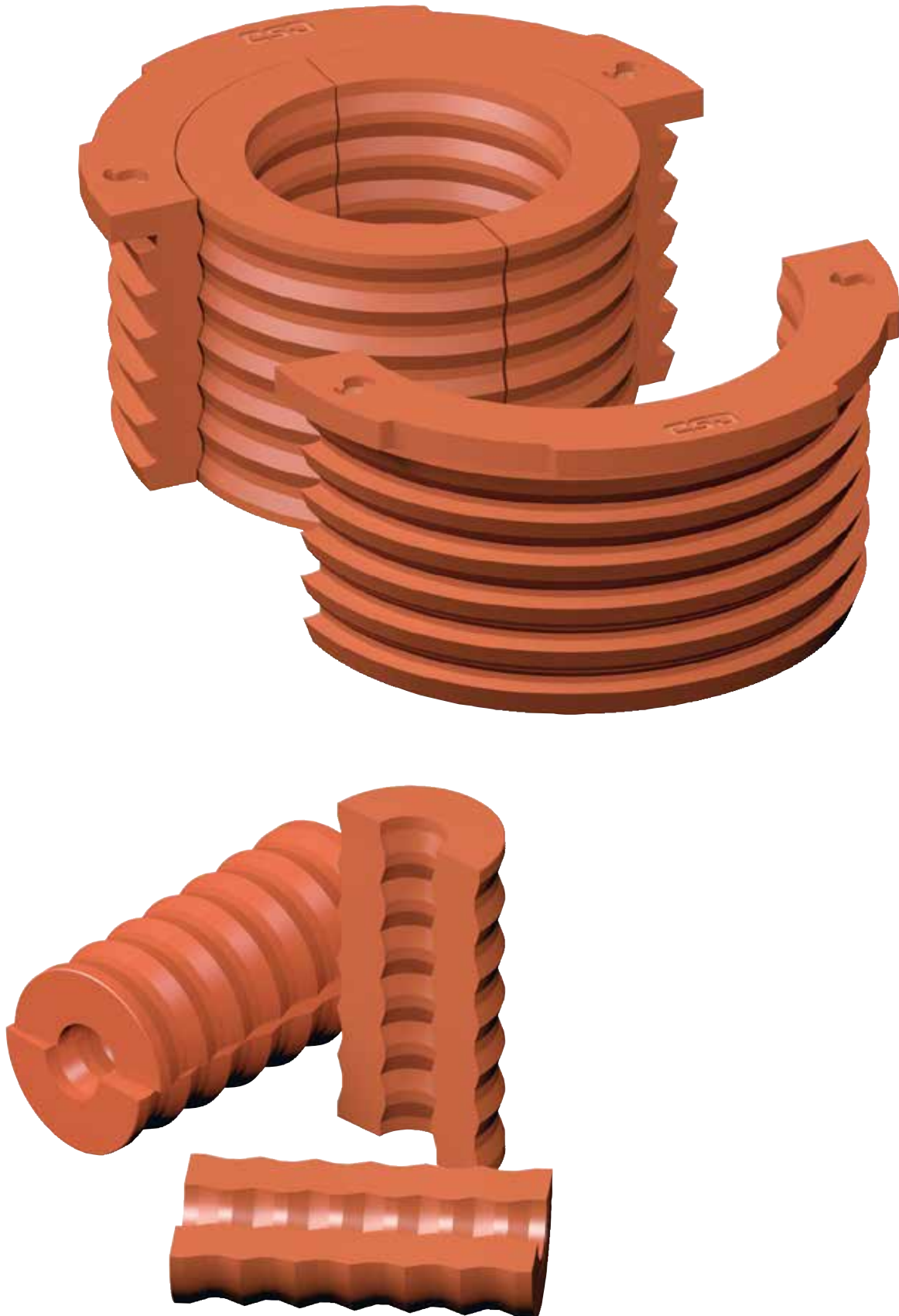
## INSTALLATION INSTRUCTIONS SLIPSIL® CONDUIT SLEEVES AND SLIPSIL® MULTI-SEALING PLUGS



The flanged edge of the sealing plugs must be flush against the front side of the conduit sleeve. This is automatically guaranteed when the SLIPSIL® sealing plugs are inserted in the SLIPSIL® conduit sleeves with a shoulder inside. The flange has a distinctive design and is clearly marked with the CSD® and **S**(lipsil)® logo.

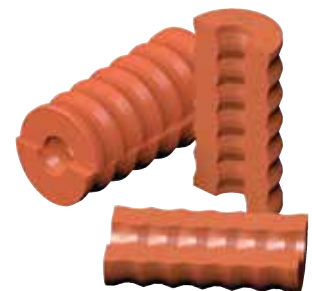
For A-class penetrations, the conduit sleeve needs to be insulated only at the insulated side of the bulkhead or at the lower side of the deck. The ducted pipe has to be insulated according to the specifications on the certified drawings.

## INSTALLATION INSTRUCTIONS SLIPSIL® CONDUIT SLEEVES AND SLIPSIL® SEALING AND ADAPTER PLUGS



## INSTALLATION INSTRUCTIONS SLIPSIL® CONDUIT SLEEVES AND SLIPSIL® SEALING AND ADAPTER PLUGS

| cable/<br>pipe<br>diameter | plug<br>type | article<br>number | cable/<br>pipe<br>diameter | plug<br>type | article<br>number | cable/<br>pipe<br>diameter | plug<br>type | article<br>number |
|----------------------------|--------------|-------------------|----------------------------|--------------|-------------------|----------------------------|--------------|-------------------|
| blind                      | 40/0 AD      | 41.0900           | 35-36                      | 60/35 AD     | 41.1635           | 60-61                      | 100/60 AD    | 41.2860           |
| 5-6                        | 40/5 AD      | 41.0905           | 36-37                      | 60/36 AD     | 41.1636           | 61-62                      | 100/61 AD    | 41.2861           |
| 6-7                        | 40/6 AD      | 41.0906           | 37-38                      | 60/37 AD     | 41.1637           | 62-63                      | 100/62 AD    | 41.2862           |
| 7-8                        | 40/7 AD      | 41.0907           | 38-39                      | 60/38 AD     | 41.1638           | 63-64                      | 100/63 AD    | 41.2863           |
| 8-9                        | 40/8 AD      | 41.0908           | 39-40                      | 60/39 AD     | 41.1639           | 64-65                      | 100/64 AD    | 41.2864           |
| 9-10                       | 40/9 AD      | 41.0909           | 40                         | 60/40 AD     | 41.1640           | 65-66                      | 100/65 AD    | 41.2865           |
| 10-11                      | 40/10 AD     | 41.0910           |                            |              |                   | 66-67                      | 100/66 AD    | 41.2866           |
| 11-12                      | 40/11 AD     | 41.0911           | blind                      | 80/0 AD      | 41.2300           | 67-68                      | 100/67 AD    | 41.2867           |
| 12-13                      | 40/12 AD     | 41.0912           | 28-29                      | 80/28 AD     | 41.2328           | 68-69                      | 100/68 AD    | 41.2868           |
| 13-14                      | 40/13 AD     | 41.0913           | 29-30                      | 80/29 AD     | 41.2329           | 69-70                      | 100/69 AD    | 41.2869           |
| 14-15                      | 40/14 AD     | 41.0914           | 30-31                      | 80/30 AD     | 41.2330           | 70-71                      | 100/70 AD    | 41.2870           |
| 15-16                      | 40/15 AD     | 41.0915           | 31-32                      | 80/31 AD     | 41.2331           | 71-72                      | 100/71 AD    | 41.2871           |
| 16-17                      | 40/16 AD     | 41.0916           | 32-33                      | 80/32 AD     | 41.2332           | 72-73                      | 100/72 AD    | 41.2872           |
| 17-18                      | 40/17 AD     | 41.0917           | 33-34                      | 80/33 AD     | 41.2333           | 73-74                      | 100/73 AD    | 41.2873           |
| 18-19                      | 40/18 AD     | 41.0918           | 34-35                      | 80/34 AD     | 41.2334           | 74-75                      | 100/74 AD    | 41.2874           |
| 19-20                      | 40/19 AD     | 41.0919           | 35-36                      | 80/35 AD     | 41.2335           | 75                         | 100/75 AD    | 41.2875           |
| 20-21                      | 40/20 AD     | 41.0920           | 36-37                      | 80/36 AD     | 41.2336           |                            |              |                   |
| 21-22                      | 40/21 AD     | 41.0921           | 37-38                      | 80/37 AD     | 41.2337           | blind                      | 125/0 AD     | 41.3600           |
| 22                         | 40/22 AD     | 41.0922           | 38-39                      | 80/38 AD     | 41.2338           | 60-61                      | 125/60 AD    | 41.3660           |
|                            |              |                   | 39-40                      | 80/39 AD     | 41.2339           | 61-62                      | 125/61 AD    | 41.3661           |
| blind                      | 50/0 AD      | 41.1200           | 40-41                      | 80/40 AD     | 41.2340           | 62-63                      | 125/62 AD    | 41.3662           |
| 10-11                      | 50/10 AD     | 41.1210           | 41-42                      | 80/41 AD     | 41.2341           | 63-64                      | 125/63 AD    | 41.3663           |
| 11-12                      | 50/11 AD     | 41.1211           | 42-43                      | 80/42 AD     | 41.2342           | 64-65                      | 125/64 AD    | 41.3664           |
| 12-13                      | 50/12 AD     | 41.1212           | 43-44                      | 80/43 AD     | 41.2343           | 65-66                      | 125/65 AD    | 41.3665           |
| 13-14                      | 50/13 AD     | 41.1213           | 44-45                      | 80/44 AD     | 41.2344           | 66-67                      | 125/66 AD    | 41.3666           |
| 14-15                      | 50/14 AD     | 41.1214           | 45-46                      | 80/45 AD     | 41.2345           | 67-68                      | 125/67 AD    | 41.3667           |
| 15-16                      | 50/15 AD     | 41.1215           | 46-47                      | 80/46 AD     | 41.2346           | 68-69                      | 125/68 AD    | 41.3668           |
| 16-17                      | 50/16 AD     | 41.1216           | 47-48                      | 80/47 AD     | 41.2347           | 69-70                      | 125/69 AD    | 41.3669           |
| 17-18                      | 50/17 AD     | 41.1217           | 48-49                      | 80/48 AD     | 41.2348           | 70-71                      | 125/70 AD    | 41.3670           |
| 18-19                      | 50/18 AD     | 41.1218           | 49-50                      | 80/49 AD     | 41.2349           | 71-72                      | 125/71 AD    | 41.3671           |
| 19-20                      | 50/19 AD     | 41.1219           | 50-51                      | 80/50 AD     | 41.2350           | 72-73                      | 125/72 AD    | 41.3672           |
| 20-21                      | 50/20 AD     | 41.1220           | 51-52                      | 80/51 AD     | 41.2351           | 73-74                      | 125/73 AD    | 41.3673           |
| 21-22                      | 50/21 AD     | 41.1221           | 52-53                      | 80/52 AD     | 41.2352           | 74-75                      | 125/74 AD    | 41.3674           |
| 22-23                      | 50/22 AD     | 41.1222           | 53-54                      | 80/53 AD     | 41.2353           | 75-76                      | 125/75 AD    | 41.3675           |
| 23-24                      | 50/23 AD     | 41.1223           | 54-55                      | 80/54 AD     | 41.2354           | 76-77                      | 125/76 AD    | 41.3676           |
| 24-25                      | 50/24 AD     | 41.1224           | 55-56                      | 80/55 AD     | 41.2355           | 77-78                      | 125/77 AD    | 41.3677           |
| 25-26                      | 50/25 AD     | 41.1225           | 56-57                      | 80/56 AD     | 41.2356           | 78-79                      | 125/78 AD    | 41.3578           |
| 26-27                      | 50/26 AD     | 41.1226           | 57-58                      | 80/57 AD     | 41.2357           | 79-80                      | 125/79 AD    | 41.3679           |
| 27-28                      | 50/27 AD     | 41.1227           | 58-59                      | 80/58 AD     | 41.2358           | 80-81                      | 125/80 AD    | 41.3680           |
| 28-29                      | 50/28 AD     | 41.1228           | 59-60                      | 80/59 AD     | 41.2359           | 81-82                      | 125/81 AD    | 41.3681           |
| 29-30                      | 50/29 AD     | 41.1229           | 60                         | 80/60 AD     | 41.2360           | 82-83                      | 125/82 AD    | 41.3682           |
| 30-31                      | 50/30 AD     | 41.1230           |                            |              |                   | 83-84                      | 125/83 AD    | 41.3683           |
| 31-32                      | 50/31 AD     | 41.1231           | blind                      | 100/0 AD     | 41.2800           | 84-85                      | 125/84 AD    | 41.3684           |
| 32                         | 50/32 AD     | 41.1232           | 40-41                      | 100/40 AD    | 41.2840           | 85-86                      | 125/85 AD    | 41.3685           |
|                            |              |                   | 41-42                      | 100/41 AD    | 41.2841           | 86-87                      | 125/86 AD    | 41.3686           |
| blind                      | 60/0 AD      | 41.1600           | 42-43                      | 100/42 AD    | 41.2842           | 87-88                      | 125/87 AD    | 41.3687           |
| 18-19                      | 60/18 AD     | 41.1618           | 43-44                      | 100/43 AD    | 41.2843           | 88-89                      | 125/88 AD    | 41.3588           |
| 19-20                      | 60/19 AD     | 41.1619           | 44-45                      | 100/44 AD    | 41.2844           | 89-90                      | 125/89 AD    | 41.3689           |
| 20-21                      | 60/20 AD     | 41.1620           | 45-46                      | 100/45 AD    | 41.2845           | 90-91                      | 125/90 AD    | 41.3690           |
| 21-22                      | 60/21 AD     | 41.1621           | 46-47                      | 100/46 AD    | 41.2846           | 91-92                      | 125/91 AD    | 41.3691           |
| 22-23                      | 60/22 AD     | 41.1622           | 47-48                      | 100/47 AD    | 41.2847           | 92                         | 125/92 AD    | 41.3692           |
| 23-24                      | 60/23 AD     | 41.1623           | 48-49                      | 100/48 AD    | 41.2848           |                            |              |                   |
| 24-25                      | 60/24 AD     | 41.1624           | 49-50                      | 100/49 AD    | 41.2849           |                            |              |                   |
| 25-26                      | 60/25 AD     | 41.1625           | 50-51                      | 100/50 AD    | 41.2850           |                            |              |                   |
| 26-27                      | 60/26 AD     | 41.1626           | 51-52                      | 100/51 AD    | 41.2851           |                            |              |                   |
| 27-28                      | 60/27 AD     | 41.1627           | 52-53                      | 100/52 AD    | 41.2852           |                            |              |                   |
| 28-29                      | 60/28 AD     | 41.1628           | 53-54                      | 100/53 AD    | 41.2853           |                            |              |                   |
| 29-30                      | 60/29 AD     | 41.1629           | 54-55                      | 100/54 AD    | 41.2854           |                            |              |                   |
| 30-31                      | 60/30 AD     | 41.1630           | 55-56                      | 100/55 AD    | 41.2855           |                            |              |                   |
| 31-32                      | 60/31 AD     | 41.1631           | 56-57                      | 100/56 AD    | 41.2856           |                            |              |                   |
| 32-33                      | 60/32 AD     | 41.1632           | 57-58                      | 100/57 AD    | 41.2857           |                            |              |                   |
| 33-34                      | 60/33 AD     | 41.1633           | 58-59                      | 100/58 AD    | 41.2858           |                            |              |                   |
| 34-35                      | 60/34 AD     | 41.1634           | 59-60                      | 100/59 AD    | 41.2859           |                            |              |                   |

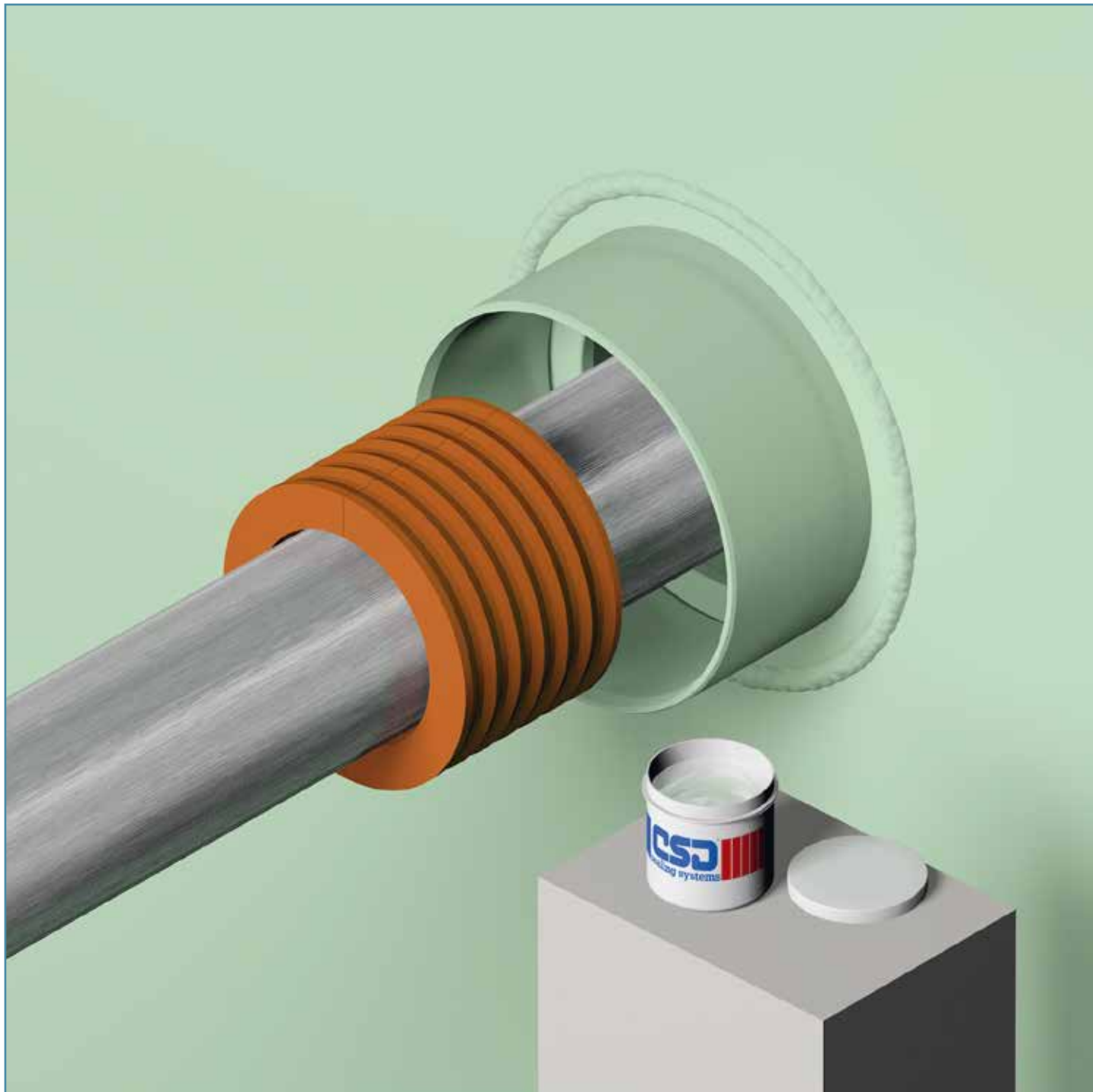


## INSTALLATION INSTRUCTIONS SLIPSIL® CONDUIT SLEEVES AND SLIPSIL® SEALING AND ADAPTER PLUGS



The SLIPSIL® adapter consists of two segments. The profile at the outside of the SLIPSIL® adapter is opposite the profile at the inside of the SLIPSIL® plugs. The SLIPSIL® adapter has no flange. Before starting the installation procedure, any dirt, oil residues or welding spots should be removed from the conduit sleeve. Then the inside wall of the conduit sleeve is treated with CSD® lubricant. Only the inside surfaces of both segments of the SLIPSIL® adapter have to be treated with CSD® lubricant.

## INSTALLATION INSTRUCTIONS SLIPSIL® CONDUIT SLEEVES AND SLIPSIL® SEALING AND ADAPTER PLUGS



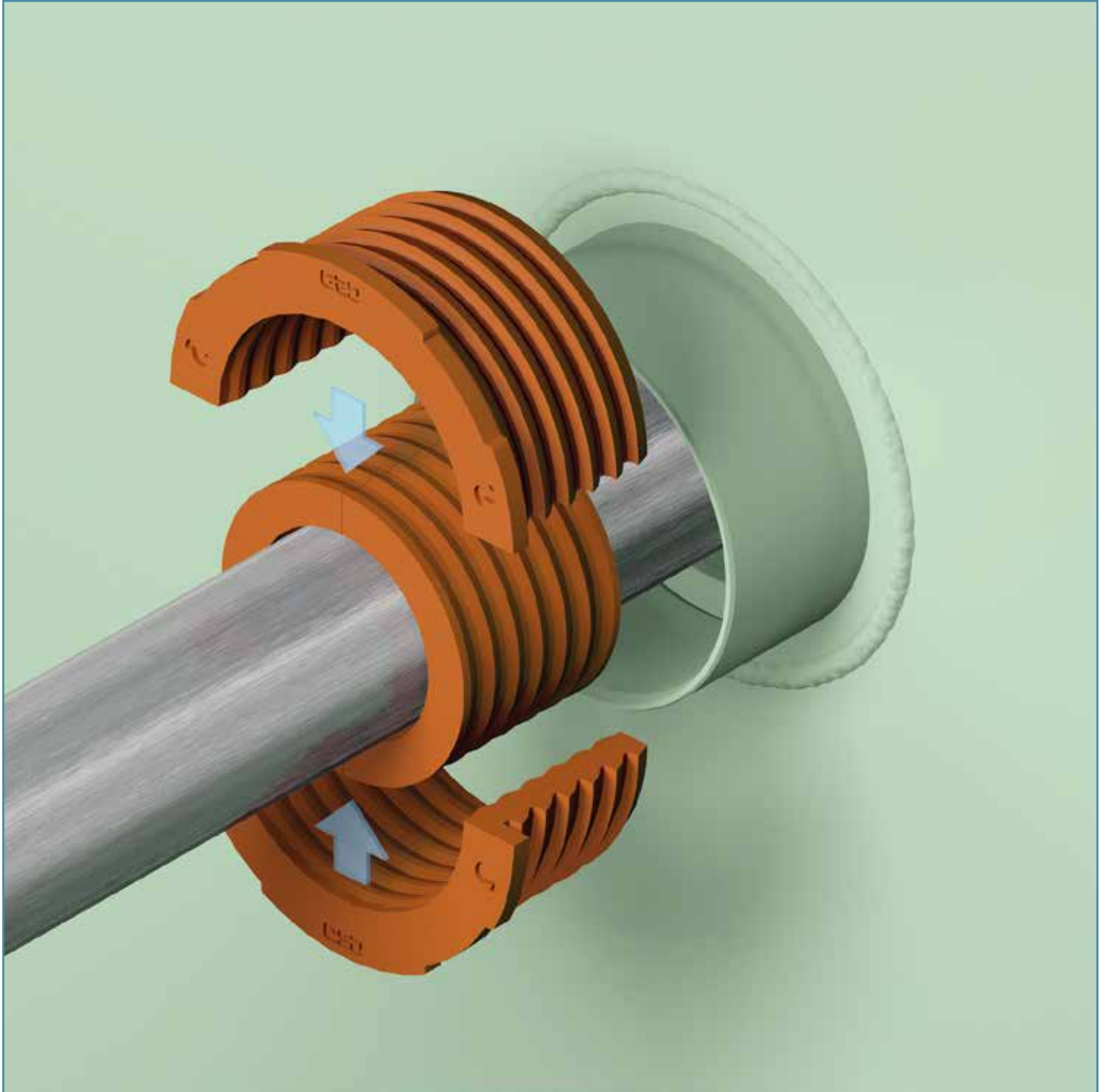
After lubricating the inside of the segments of the SLIPSIL® adapter, the set of SLIPSIL® sealing plug and SLIPSIL® adapter has to be assembled in front of the penetration.

## INSTALLATION INSTRUCTIONS SLIPSIL® CONDUIT SLEEVES AND SLIPSIL® SEALING AND ADAPTER PLUGS



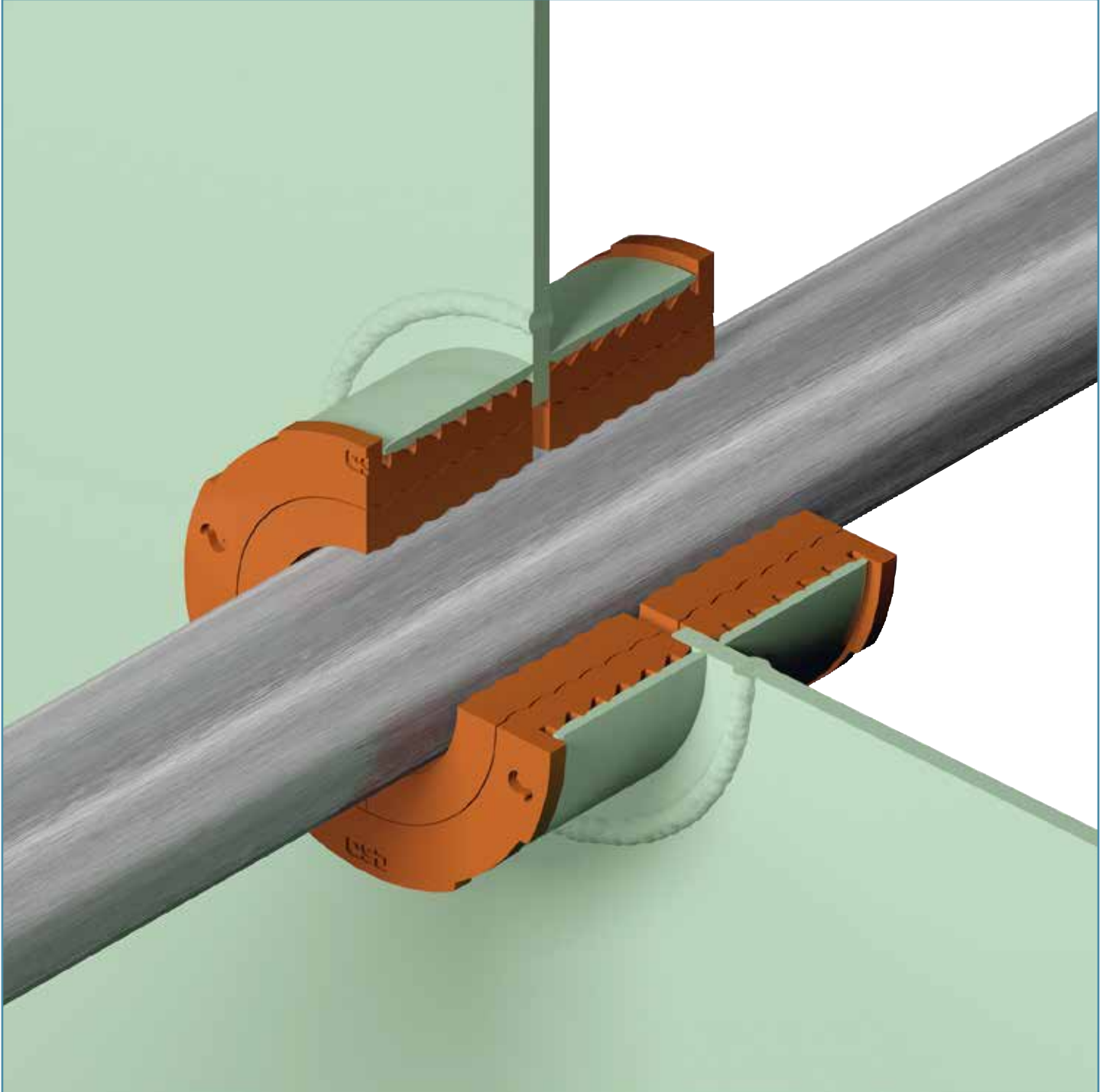
Only the outside surfaces of both segments of the SLIPSIL® sealing plug have to be treated with CSD® lubricant.

## INSTALLATION INSTRUCTIONS SLIPSIL® CONDUIT SLEEVES AND SLIPSIL® SEALING AND ADAPTER PLUGS



The SLIPSIL® plug is placed around the SLIPSIL® adapter. Note: the seam between the segments of the plug and the adapter has to be placed 90° in relation to each other. Then the whole set is pushed into the conduit sleeve. The installation is then equal to that of the standard SLIPSIL® plugs.

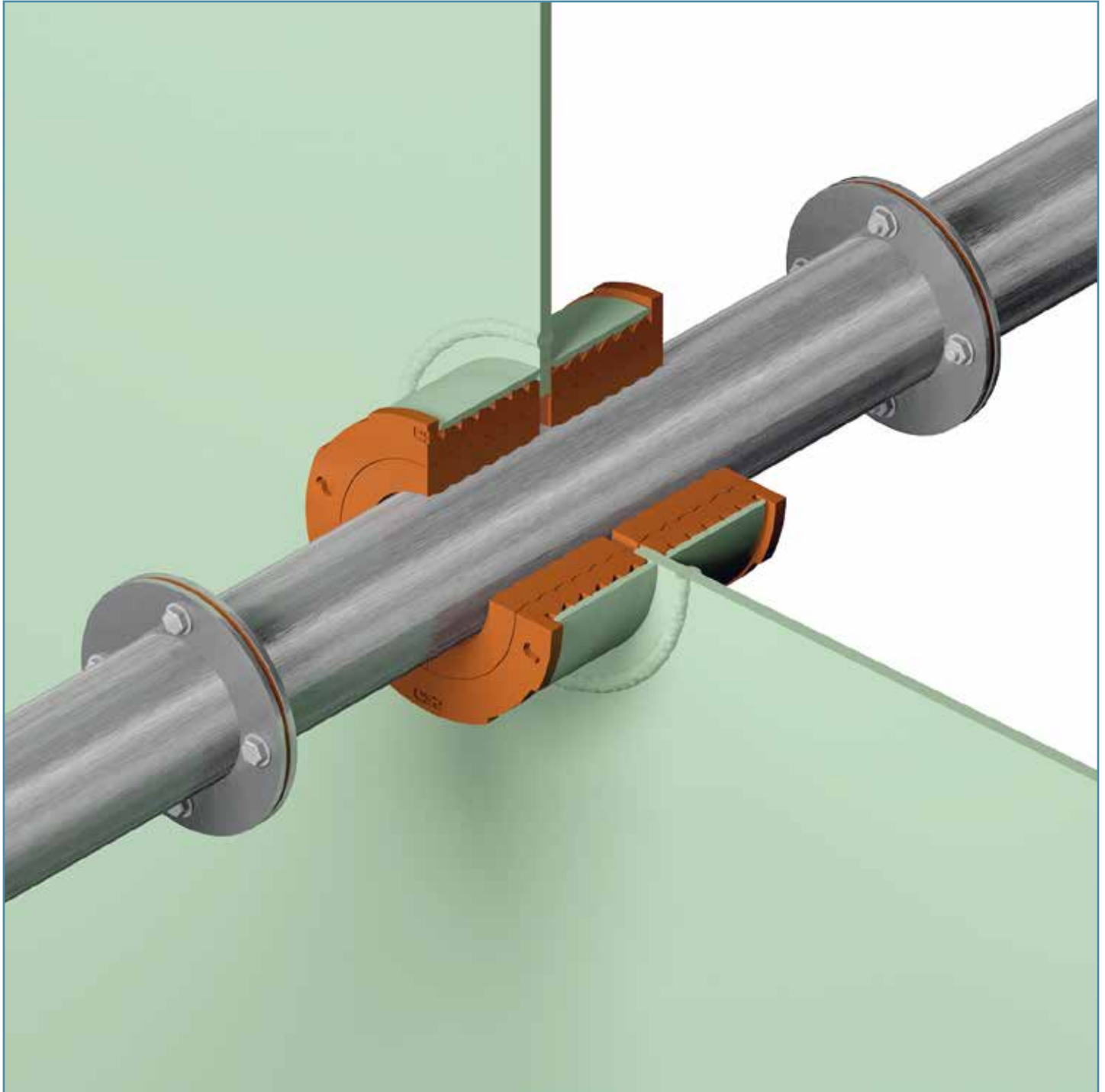
## INSTALLATION INSTRUCTIONS SLIPSIL® CONDUIT SLEEVES AND SLIPSIL® SEALING AND ADAPTER PLUGS



The flanged edge of the sealing plugs must be flush against the front side of the conduit sleeve. This is automatically guaranteed when the SLIPSIL® sealing plugs are inserted in the SLIPSIL® conduit sleeves with a shoulder inside. The flange has a distinctive design and is clearly marked with the CSD® and **S**(lipsil)® logo.

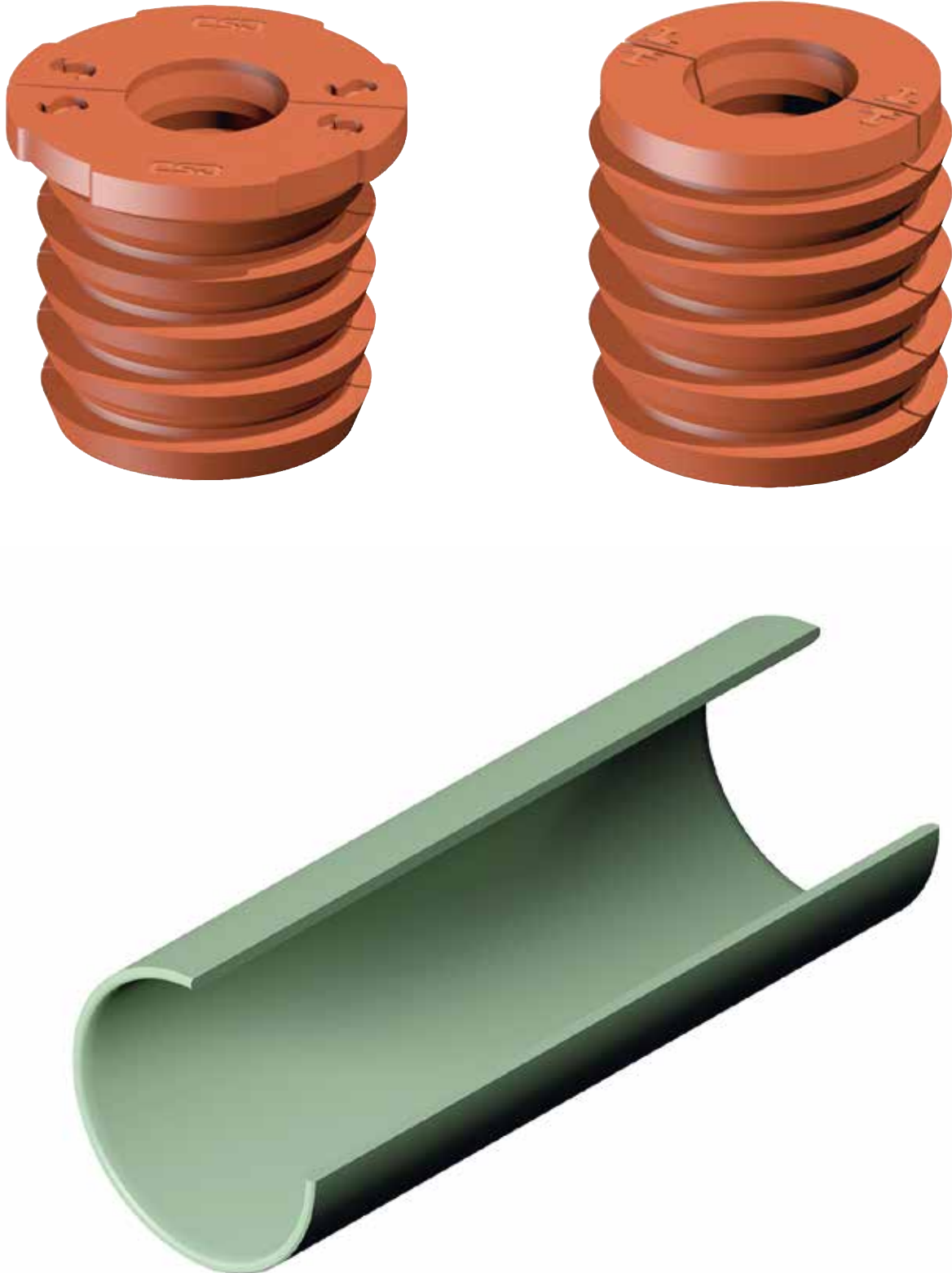
For A-class penetrations, the conduit sleeve needs to be insulated only at the insulated side of the bulkhead or at the lower side of the deck. The ducted pipe has to be insulated according to the specifications on the certified drawings.

## INSTALLATION INSTRUCTIONS SLIPSIL® CONDUIT SLEEVES AND SLIPSIL® SEALING AND ADAPTER PLUGS



The combination SLIPSIL® sealing plug and SLIPSIL® adapter is specially developed for oversized conduit sleeves welded in to duct flanged pipe ends. Generally for such cases, no fitting SLIPSIL® plugs are available. With the SLIPSIL® adapters, the SLIPSIL® plugs can be made to fit for the smaller ducted pipe.

## INSTALLATION INSTRUCTIONS SLIPSIL® CONDUIT SLEEVES AND SLIPSIL® AND DYNATITE® SEALING PLUGS



## INSTALLATION INSTRUCTIONS SLIPSIL® CONDUIT SLEEVES AND SLIPSIL® AND DYNATITE® SEALING PLUGS

|                                                                                     | PLUG<br>SERIES | CONDUIT<br>SLEEVE    | PLUG<br>LENGTH | PIPE<br>DIAMETER |
|-------------------------------------------------------------------------------------|----------------|----------------------|----------------|------------------|
|                                                                                     |                |                      |                |                  |
|    | 25             | 24.5 - 25.6          | 54             | 5 - 12           |
|                                                                                     | 27             | 26.5 - 27.6          | 54             | 5 - 15           |
|                                                                                     | 28             | 27.5 - 28.5          | 54             | 5 - 15           |
|                                                                                     | 30             | 29.5 - 30.5          | 54             | 5 - 16           |
|                                                                                     | 32             | 31.5 - 32.5          | 54             | 5 - 16           |
|                                                                                     | 34             | 33.5 - 34.5          | 54             | 5 - 18           |
|                                                                                     | 35             | 34.5 - 35.7          | 54             | 5 - 20           |
|                                                                                     | 37             | 36.5 - 37.7          | 54             | 5 - 20           |
|                                                                                     | 40             | 39.5 - 40.7          | 54             | 5 - 22           |
|                                                                                     | <b>41</b>      | <b>40.5 - 41.7</b>   | <b>54</b>      | <b>5 - 25</b>    |
|   | 43             | 42.5 - 43.7          | 54             | 5 - 28           |
|                                                                                     | 50             | 49.5 - 50.7          | 66             | 6 - 32           |
|                                                                                     | 52             | 51.0 - 52.2          | 66             | 6 - 34           |
|                                                                                     | 53             | 52.0 - 53.7          | 66             | 6 - 34           |
|                                                                                     | <b>55</b>      | <b>54.0 - 55.7</b>   | <b>66</b>      | <b>6 - 34</b>    |
|                                                                                     | 57             | 56.0 - 57.7          | 66             | 14 - 40          |
|                                                                                     | 60             | 59.0 - 60.7          | 66             | 14 - 40          |
|                                                                                     | <b>62</b>      | <b>61.0 - 62.7</b>   | <b>66</b>      | <b>14 - 40</b>   |
|                                                                                     | 67             | 66.0 - 67.7          | 66             | 22 - 50          |
|                                                                                     | 68             | 67.0 - 68.7          | 66             | 20 - 50          |
|  | <b>70</b>      | <b>69.0 - 70.7</b>   | <b>66</b>      | <b>22 - 50</b>   |
|                                                                                     | 75             | 74.0 - 75.7          | 66             | 22 - 50          |
|                                                                                     | 78             | 77.0 - 78.7          | 66             | 22 - 50          |
|                                                                                     | 80             | 79.0 - 80.7          | 66             | 28 - 60          |
|                                                                                     | <b>82</b>      | <b>81.0 - 82.7</b>   | <b>66</b>      | <b>28 - 60</b>   |
|                                                                                     | 90             | 89.0 - 90.7          | 66             | 40 - 64          |
|                                                                                     | 94             | 93.0 - 94.7          | 66             | 40 - 64          |
|                                                                                     | 97             | 96.0 - 97.7          | 66             | 40 - 64          |
|                                                                                     | <b>100</b>     | <b>99.0 - 100.7</b>  | <b>66</b>      | <b>40 - 75</b>   |
|                                                                                     | 102            | 101.0 - 102.7        | 66             | 40 - 75          |
|  | 103            | 102.0 - 103.7        | 66             | 26 - 75          |
|                                                                                     | 105            | 104.0 - 105.7        | 66             | 40 - 75          |
|                                                                                     | <b>107</b>     | <b>106.0 - 107.7</b> | <b>66</b>      | <b>40 - 76</b>   |
|                                                                                     | 110            | 109.0 - 110.7        | 66             | 48 - 80          |
|                                                                                     | 118            | 117.5 - 119.2        | 66             | 60 - 90          |
|                                                                                     | 122            | 121.0 - 122.7        | 66             | 60 - 92          |
|                                                                                     | <b>125</b>     | <b>124.0 - 125.7</b> | <b>66</b>      | <b>60 - 92</b>   |
|                                                                                     | 128            | 127.0 - 128.7        | 66             | 60 - 92          |
|                                                                                     | <b>131</b>     | <b>130.5 - 132.2</b> | <b>66</b>      | <b>60 - 92</b>   |
|                                                                                     | 146            | 145.0 - 146.7        | 79             | 88 - 120         |
|  | <b>150</b>     | <b>149.0 - 150.7</b> | <b>79</b>      | <b>88 - 125</b>  |
|                                                                                     | 152            | 151.0 - 152.7        | 79             | 88 - 125         |
|                                                                                     | 154            | 153.0 - 154.7        | 79             | 88 - 125         |
|                                                                                     | 156            | 155.0 - 156.7        | 79             | 88 - 125         |
|                                                                                     | 160            | 159.0 - 160.7        | 79             | 88 - 125         |
|                                                                                     | 190            | 189.0 - 190.7        | 79             | 110-160          |
|                                                                                     | 200            | 199.0 - 200.7        | 79             | 110-160          |
|                                                                                     | 203            | 202.0 - 203.7        | 79             | 110-168          |
|                                                                                     | <b>207</b>     | <b>206.0 - 207.7</b> | <b>79</b>      | <b>110-168</b>   |
|                                                                                     | 250            | 249.0 - 250.7        | 91             | 160-200          |
|                                                                                     | 260            | 259.0 - 260.7        | 91             | 160-219          |
|                                                                                     | 300            | 299.0 - 300.7        | 91             | 160-250          |
|                                                                                     | 339            | 338.5 - 340.2        | 91             | 200-273          |

marked series for application in the SLIPSIL® conduit sleeves

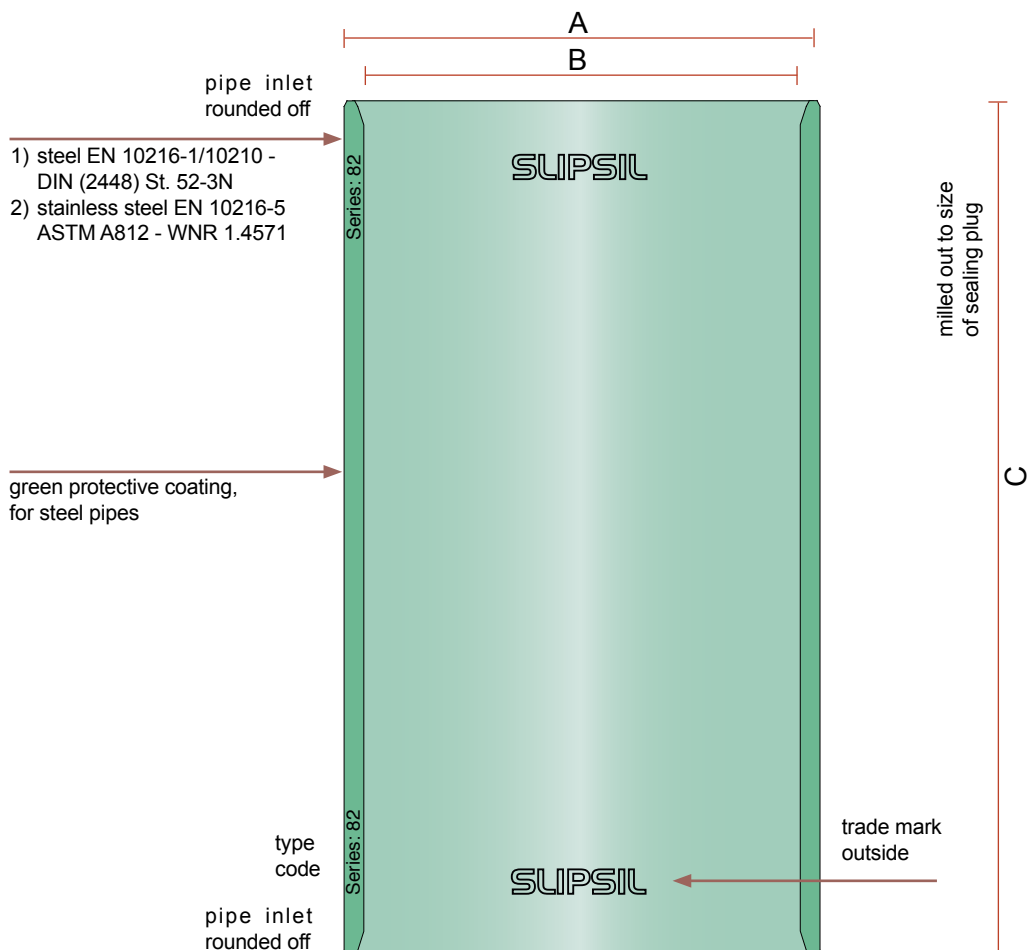
Note: article numbers are similar to the SLIPSIL® plugs  
SLIPSIL® group number 40...xxx is for DYNATITE® 45...xxx

To select the right type of sealing plug, look for the plug series to be used on the basis of the outer diameter of the service pipe. Then make a choice for the plug type in the table of the selected plug series.

For instance: a copper pipe of 42 mm OD has to be ducted. Select the plug series on the basis of the ID of the conduit sleeve to be used and the OD of the ducted pipe (67 up to 107 can be your choice). When a conduit sleeve 88.9x3.2 mm (ID = 82.5 mm) will be used, a sealing plug 82/42-44 is the right choice. If a 54 mm OD copper pipe has to be ducted through a sleeve with an ID of 107.1 mm, plug type 107/54-56 has to be selected. See the tables of the series 82 and 107 on page 39 and 40.

Note: the sealing plugs with a thin wall (for instance 53/34) are not easy to install in undersized conduit openings. It is advisable to select a larger plug series (for instance 60/34-36).

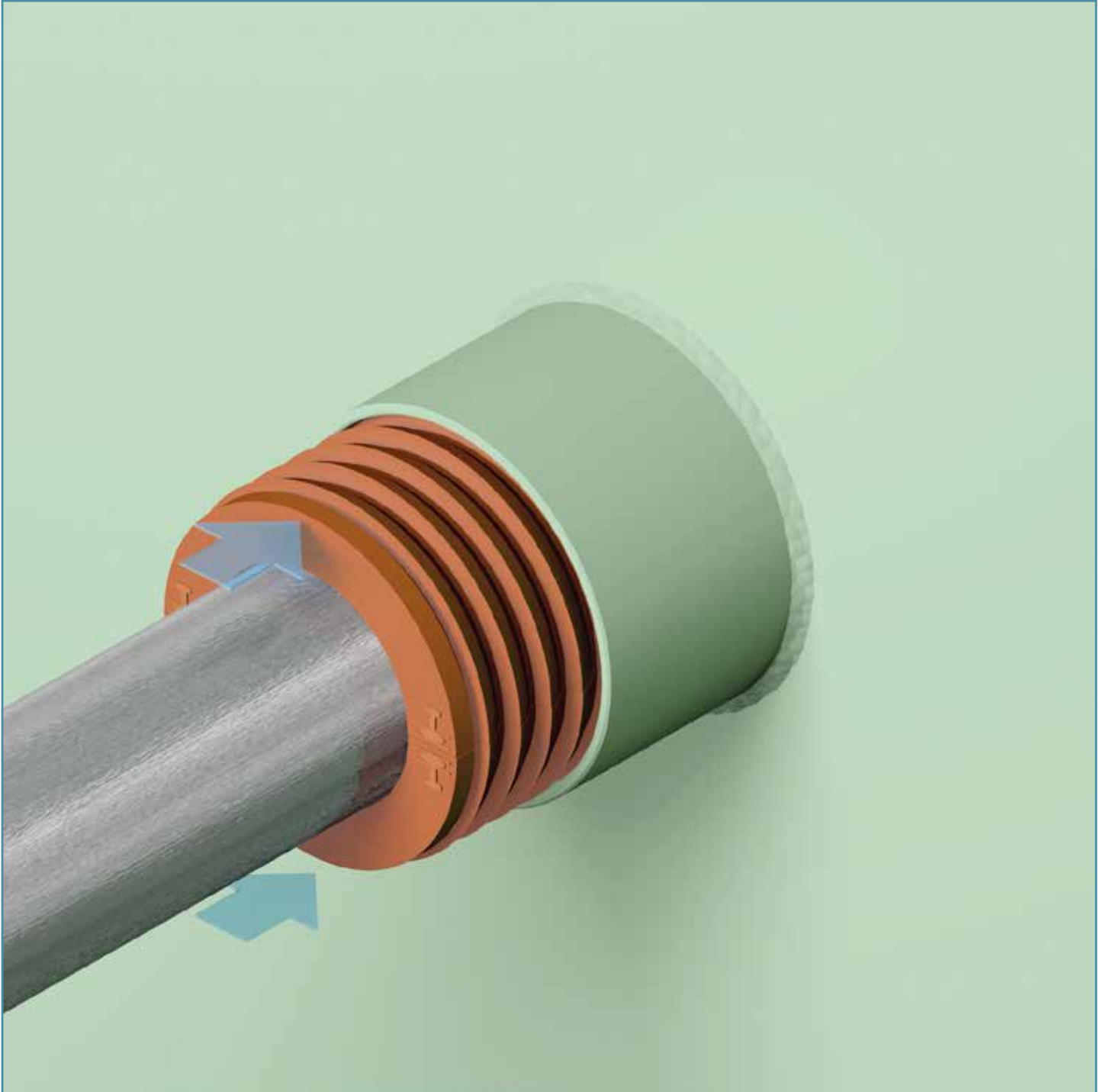
## INSTALLATION INSTRUCTIONS SLIPSIL® CONDUIT SLEEVES AND SLIPSIL® AND DYNATITE® SEALING PLUGS



All dimensions in mm

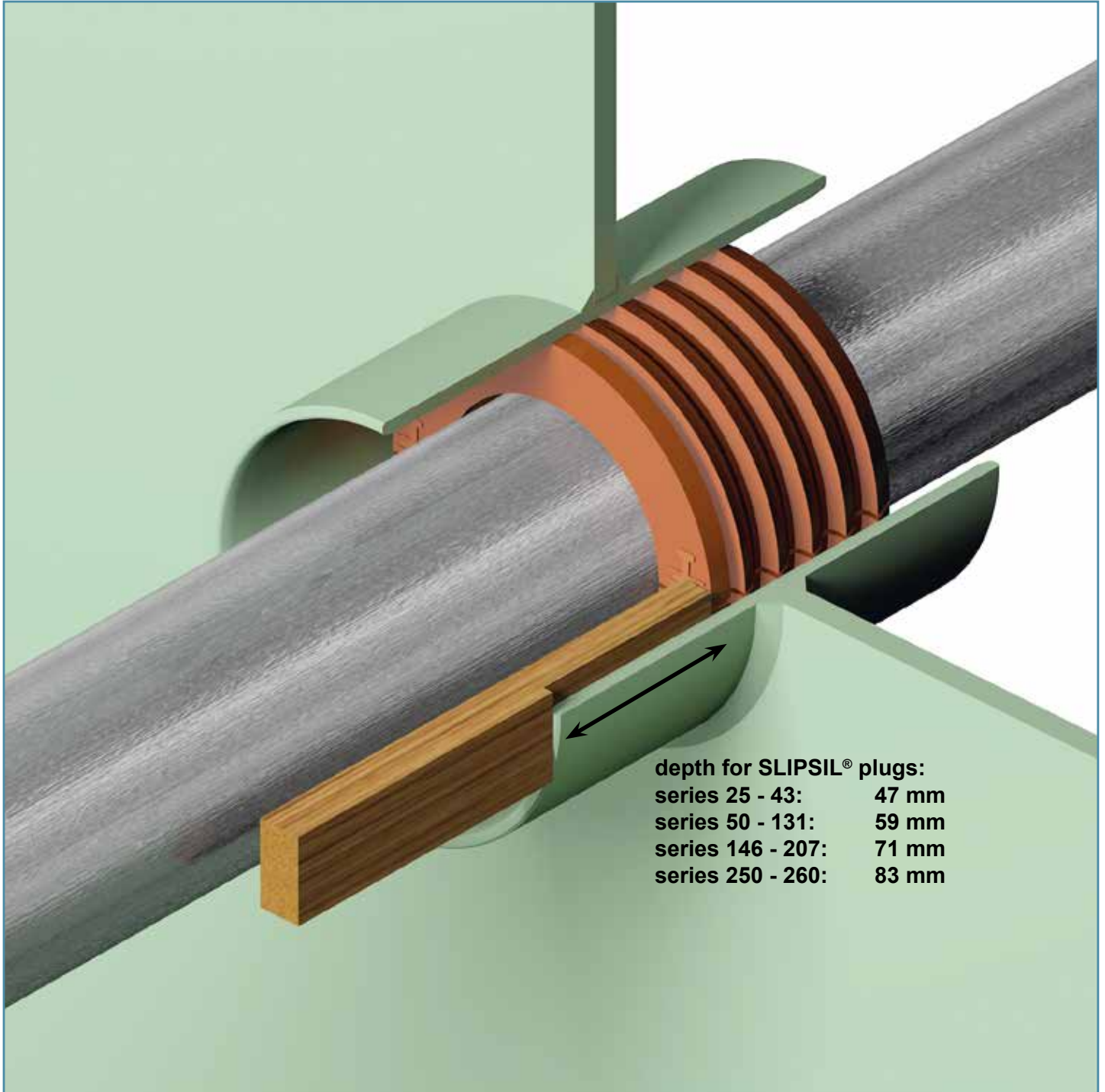
| type         | A    | B   | C   | art. no.<br>steel | art. no.<br>stainless | C   | art. no.<br>steel | art. no.<br>stainless | C   | art. no.<br>steel | art. no.<br>stainless |
|--------------|------|-----|-----|-------------------|-----------------------|-----|-------------------|-----------------------|-----|-------------------|-----------------------|
| SL 41 WS-cr  | 48.5 | 41  | 180 | 60.8101           | 60.8116               | 200 | 60.8131           | 60.8146               | 250 | 60.8161           | 60.8176               |
| SL 55 WS-cr  | 62.5 | 55  | 180 | 60.8102           | 60.8117               | 200 | 60.8132           | 60.8147               | 250 | 60.8162           | 60.8177               |
| SL 62 WS-cr  | 70   | 62  | 180 | 60.8103           | 60.8118               | 200 | 60.8133           | 60.8148               | 250 | 60.8163           | 60.8178               |
| SL 70 WS-cr  | 78   | 70  | 180 | 60.8104           | 60.8119               | 200 | 60.8134           | 60.8149               | 250 | 60.8164           | 60.8179               |
| SL 82 WS-cr  | 90   | 82  | 180 | 60.8105           | 60.8120               | 200 | 60.8135           | 60.8150               | 250 | 60.8165           | 60.8180               |
| SL 100 WS-cr | 108  | 100 | 180 | 60.8106           | 60.8121               | 200 | 60.8136           | 60.8151               | 250 | 60.8166           | 60.8181               |
| SL 107 WS-cr | 115  | 107 | 180 | 60.8107           | 60.8122               | 200 | 60.8137           | 60.8152               | 250 | 60.8167           | 60.8182               |
| SL 131 WS-cr | 140  | 131 | 180 | 60.8108           | 60.8123               | 200 | 60.8138           | 60.8153               | 250 | 60.8168           | 60.8183               |
| SL 150 WS-cr | 159  | 150 | 180 | 60.8109           | 60.8124               | 200 | 60.8139           | 60.8154               | 250 | 60.8169           | 60.8184               |
| SL 207 WS-cr | 220  | 207 | 180 | 60.8110           | 60.8125               | 200 | 60.8140           | 60.8155               | 250 | 60.8170           | 60.8185               |

## INSTALLATION INSTRUCTIONS SLIPSIL® CONDUIT SLEEVES AND SLIPSIL® AND DYNATITE® SEALING PLUGS



To enable insertion of the sealing plugs from one side, the SLIPSIL®/DYNATITE® combination can be used. Before starting the installation procedure, any dirt, oil residues or welding spots should be removed from the conduit sleeve. Then the inside wall of the conduit sleeve is treated with CSD® lubricant. The inside and outside surfaces of both segments of the DYNATITE® sealing plug are then treated with CSD® lubricant. Both halves are then pushed by hand evenly, serration by serration, further into the conduit sleeve.

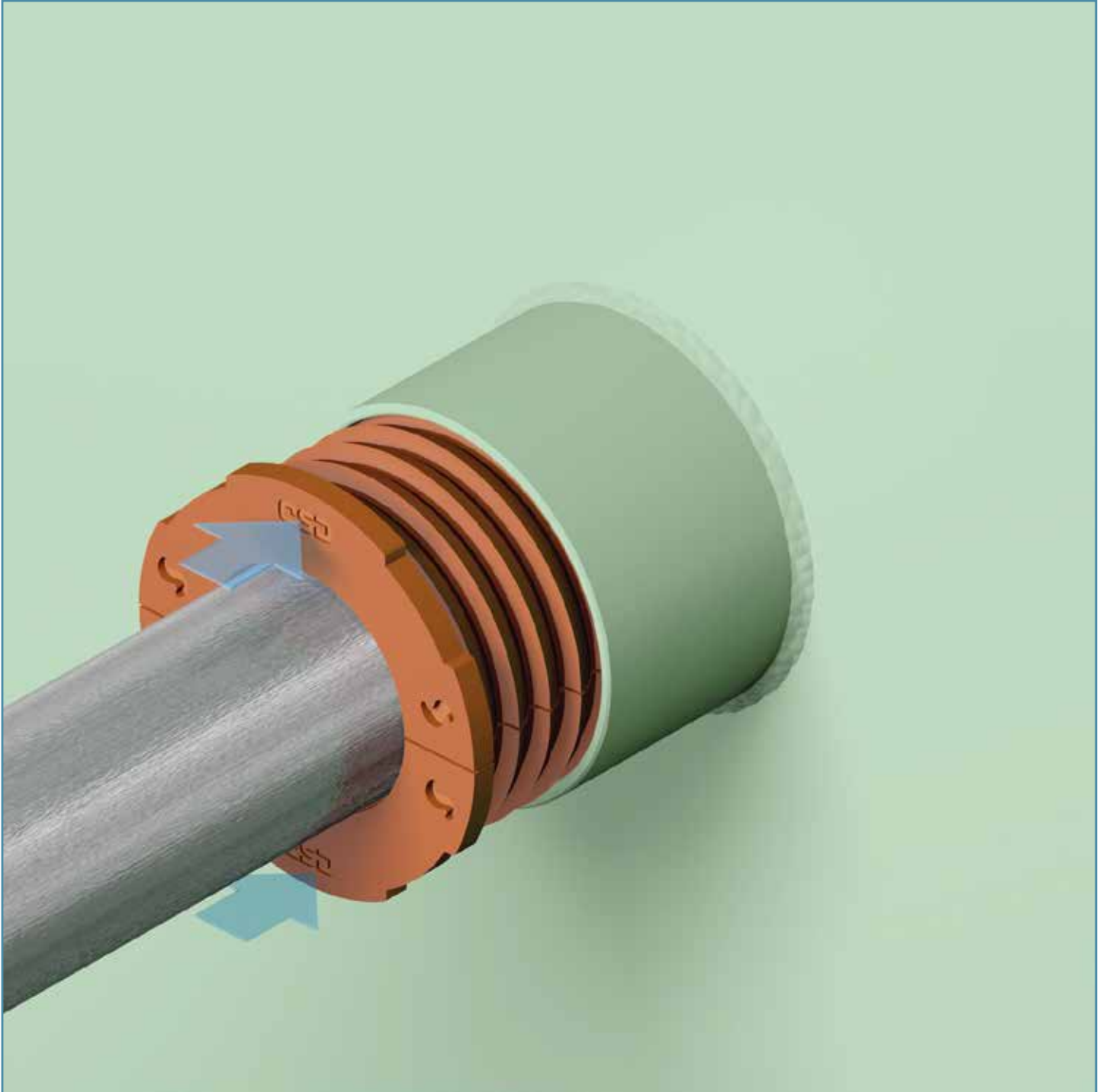
## INSTALLATION INSTRUCTIONS SLIPSIL® CONDUIT SLEEVES AND SLIPSIL® AND DYNATITE® SEALING PLUGS



The DYNATITE® plug should be inserted into the conduit sleeve over a length which corresponds to the length of the SLIPSIL® sealing plug. With the Beele® adjuster or a marked piece of wood, the depth of the insertion of the DYNATITE® plug should be checked.

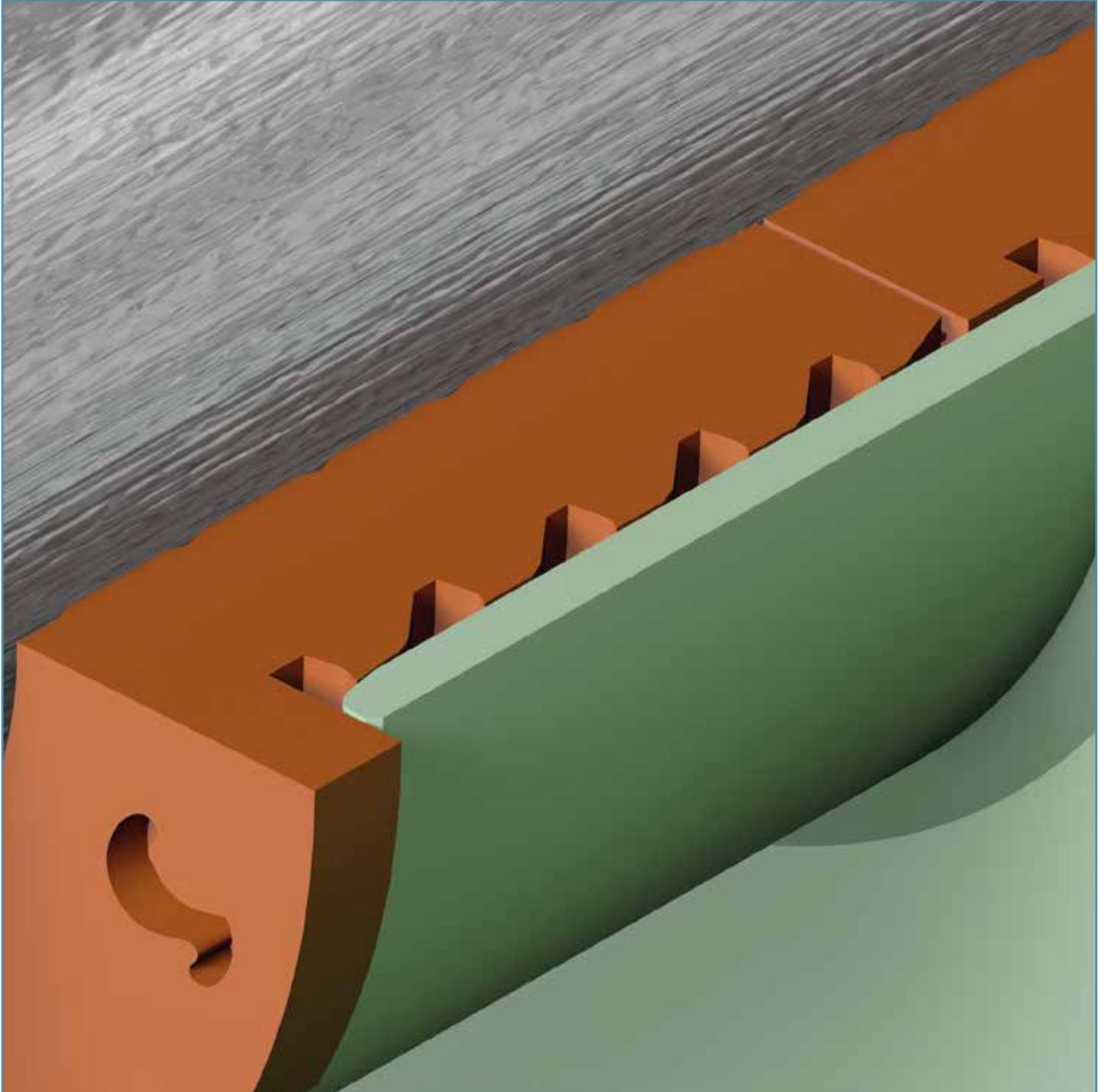
Note: it will be impossible to correct the depth with the insertion of the SLIPSIL® sealing plug.

## INSTALLATION INSTRUCTIONS SLIPSIL® CONDUIT SLEEVES AND SLIPSIL® AND DYNATITE® SEALING PLUGS



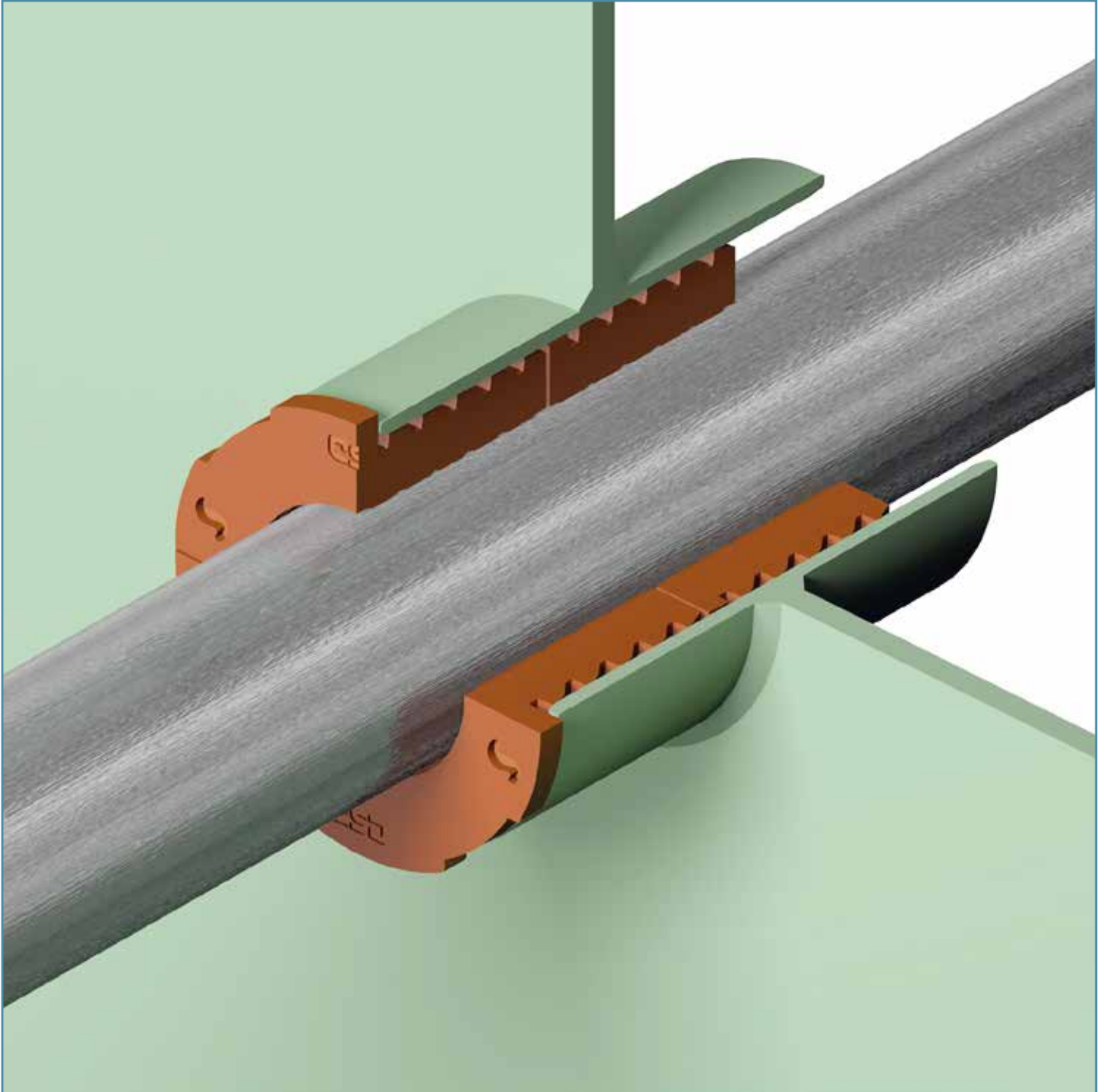
Before installation of the sealing plugs, the segments of the SLIPSIL® sealing plug are treated with CSD® lubricant on the inside and outside. Both segments of the SLIPSIL® sealing plug are placed around the ducted pipe and then pushed by hand evenly, serration by serration, into the conduit sleeve. From time to time the compressed air has to be released by inserting a flat screwdriver in between both plugs halves. Be careful not to damage the sealing plug. It is advisable to treat the screwdriver with CSD® lubricant before inserting.

## INSTALLATION INSTRUCTIONS SLIPSIL® CONDUIT SLEEVES AND SLIPSIL® AND DYNATITE® SEALING PLUGS



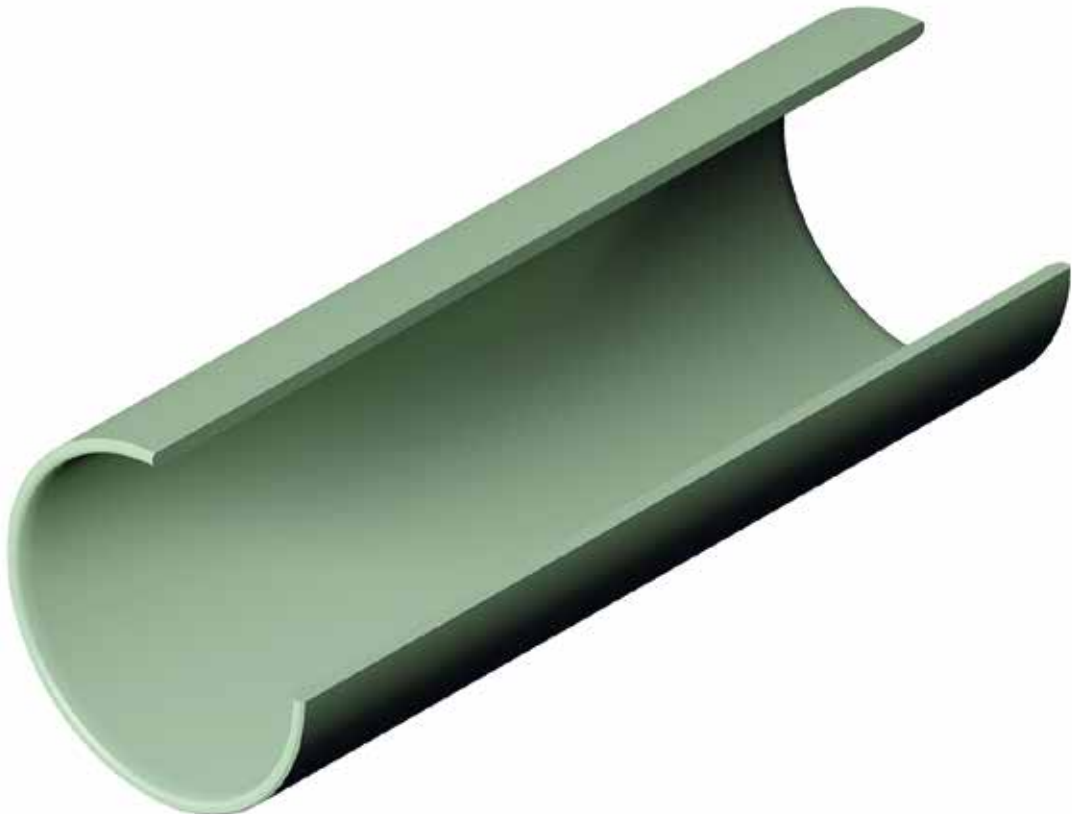
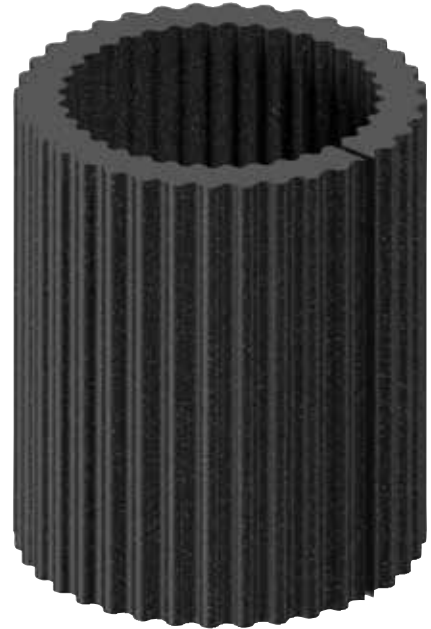
The flanged edge of the sealing plug must be flush against the front side of the conduit sleeve. For the application to install the sealing system from one side, conduit sleeves with a shoulder cannot be used. A proper position of the DYNATITE® plug inside the conduit sleeve will prevent the SLIPSIL® plug from being inserted too deep.

## INSTALLATION INSTRUCTIONS SLIPSIL® CONDUIT SLEEVES AND SLIPSIL® AND DYNATITE® SEALING PLUGS



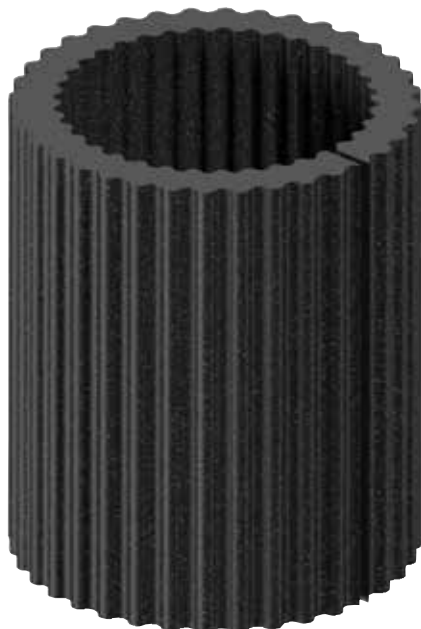
For A-class penetrations, the conduit sleeve needs to be insulated only at the insulated side of the bulkhead or at the lower side of the deck. The ducted pipe has to be insulated according to the specifications on the certified drawings.

## INSTALLATION INSTRUCTIONS SLIPSIL® CONDUIT SLEEVES AND SLIPSIL® SEALING PLUGS AND CRUSHER®



## INSTALLATION INSTRUCTIONS SLIPSIL® CONDUIT SLEEVES AND SLIPSIL® SEALING PLUGS AND CRUSHER®

CRUSHER® type C-FIT



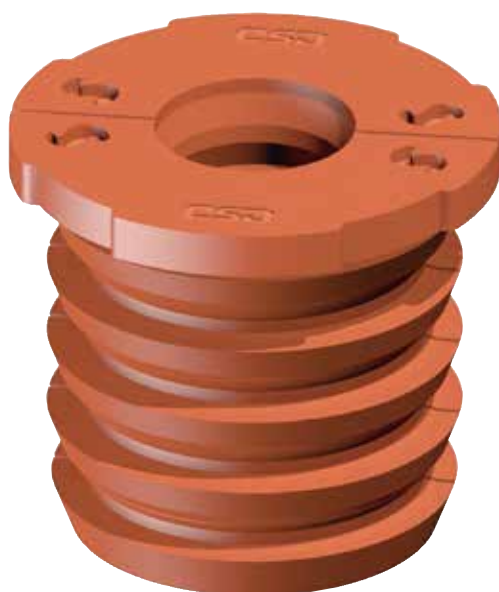
| plastic pipe OD | crusher® type | conduit opening | crusher® length | article number |
|-----------------|---------------|-----------------|-----------------|----------------|
| 16              | 32/16         | 32              | 140             | 80.6021        |
| 16              | 41/16         | 41              | 140             | 80.6141        |
| 18              | 41/18         | 41              | 140             | 80.6151        |
| 20              | 41/20         | 41              | 140             | 80.6161        |
| 25              | 41/25         | 41              | 140             | 80.6171        |
| 25              | 54/25         | 55              | 140             | 80.6251        |
| 32              | 54/32         | 55              | 140             | 80.6261        |
| 32              | 62/32         | 62              | 140             | 80.6301        |
| 40              | 62/40         | 62              | 140             | 80.6311        |
| 40              | 70/40         | 70              | 140             | 80.6321        |
| 50              | 70/50         | 70              | 140             | 80.6331        |
| 50              | 82/50         | 82              | 140             | 80.6381        |
| 63              | 100/63        | 100             | 140             | 80.6411        |
| 63              | 107/63        | 107             | 140             | 80.6471        |
| 75              | 100/75        | 100             | 140             | 80.6421        |
| 75              | 107/75        | 107             | 140             | 80.6481        |
| 90              | 131/90        | 131             | 140             | 80.6521        |
| 110             | 150/110       | 150             | 140             | 80.6531        |
| 110             | 160/110       | 160             | 140             | 80.6591        |
| 125             | 150/125       | 150             | 140             | 80.6541        |
| 125             | 160/125       | 160             | 140             | 80.6601        |
| 140             | 207/140       | 207             | 160             | 80.6630        |
| 160             | 207/160       | 207             | 160             | 80.6635        |

all dimensions in mm

series for application in the SLIPSIL® conduit sleeves

Note: the larger CRUSHER® types have to be cut to length to allow fitting in between the SLIPSIL® plugs

SLIPSIL® sealing plug

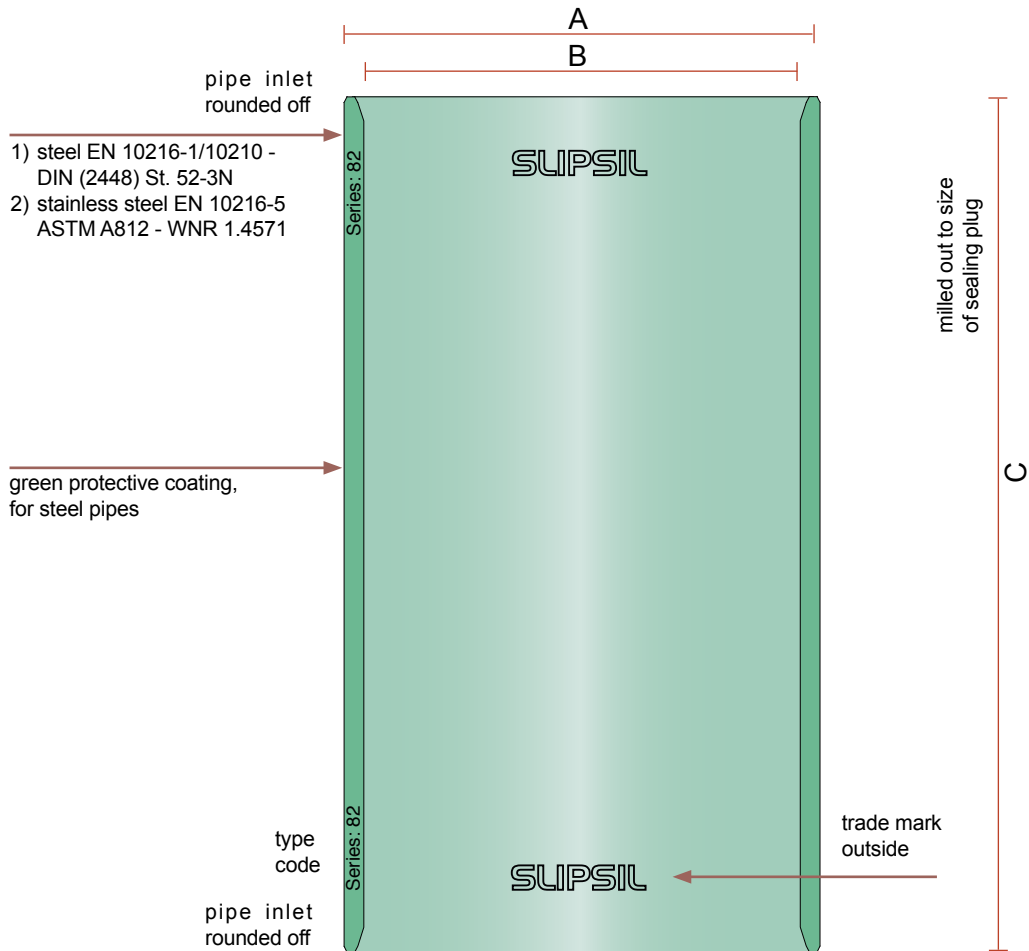


| plastic pipe OD | plug® type  | conduit opening | crusher® length | article number |
|-----------------|-------------|-----------------|-----------------|----------------|
| 16              | 32/16       | 32              | 140             | 40.0516        |
| 16              | 41/16-18    | 41              | 140             | 40.1014        |
| 18              | 41/18-20    | 41              | 140             | 40.1015        |
| 20              | 41/20-22    | 41              | 140             | 40.1016        |
| 25              | 41/25       | 41              | 140             | 40.1020        |
| 25              | 55/24-26    | 55              | 140             | 40.1416        |
| 32              | 55/32-33    | 55              | 140             | 40.1421        |
| 32              | 62/32-34    | 62              | 140             | 40.1720        |
| 40              | 62/40       | 62              | 140             | 40.1726        |
| 40              | 70/40-42    | 70              | 140             | 40.2024        |
| 50              | 70/50       | 70              | 140             | 40.2029        |
| 50              | 82/50-52    | 82              | 140             | 40.2429        |
| 63              | 100/62-64   | 100             | 140             | 40.2831        |
| 63              | 107/62-64   | 107             | 140             | 40.3231        |
| 75              | 100/75      | 100             | 140             | 40.2838        |
| 75              | 107/75-76   | 107             | 140             | 40.3238        |
| 90              | 131/90-92   | 131             | 140             | 40.3845        |
| 110             | 150/110-112 | 150             | 140             | 40.4031        |
| 110             | 160/110-112 | 160             | 140             | 40.4431        |
| 125             | 150/125     | 150             | 140             | 40.4039        |
| 125             | 160/125     | 160             | 140             | 40.4439        |
| 140             | 207/139     | 207             | 160             | 40.4833        |
| 160             | 207/159     | 207             | 160             | 40.4843        |

series for application in the SLIPSIL® conduit sleeves

Note: the larger CRUSHER® types have to be cut to length to allow fitting in between the SLIPSIL® plugs

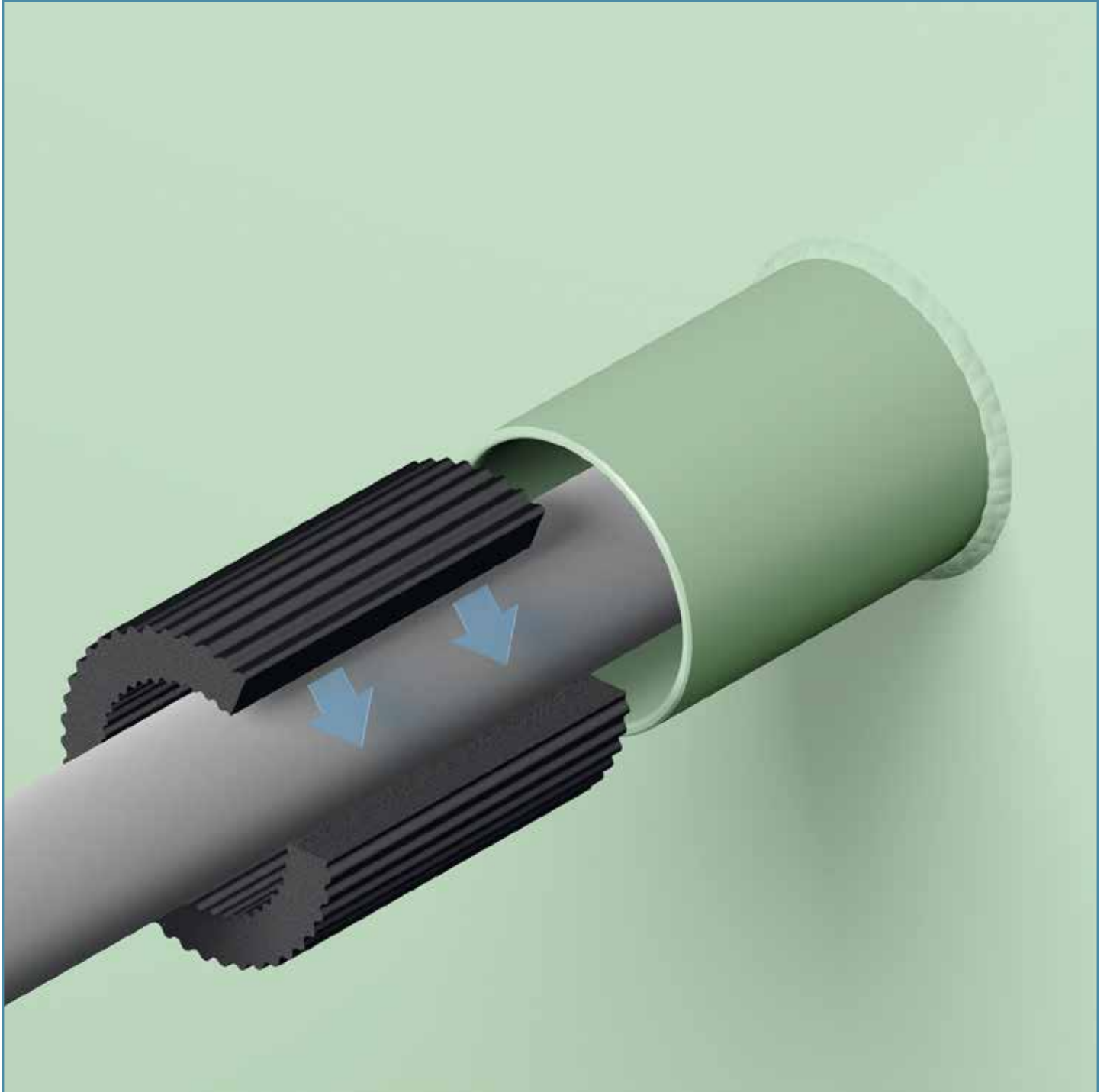
## INSTALLATION INSTRUCTIONS SLIPSIL® CONDUIT SLEEVES AND SLIPSIL® SEALING PLUGS AND CRUSHER®



All dimensions in mm

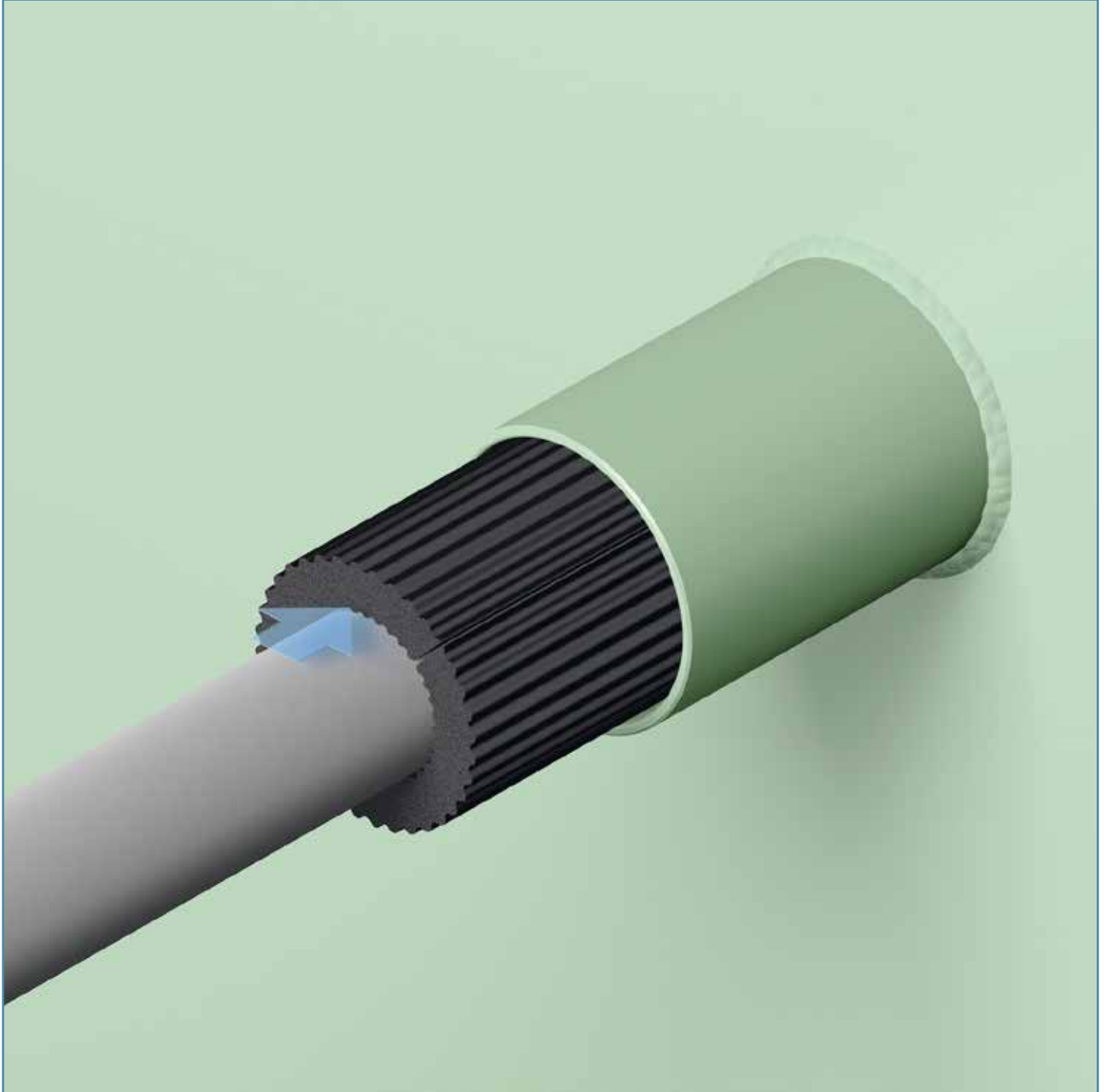
| type         | A    | B   | C   | art. no.<br>steel | art. no.<br>stainless |
|--------------|------|-----|-----|-------------------|-----------------------|
| SL 41 WS-cr  | 48.5 | 41  | 250 | 60.8161           | 60.8176               |
| SL 55 WS-cr  | 62.5 | 55  | 250 | 60.8162           | 60.8177               |
| SL 62 WS-cr  | 70   | 62  | 250 | 60.8163           | 60.8178               |
| SL 70 WS-cr  | 78   | 70  | 250 | 60.8164           | 60.8179               |
| SL 82 WS-cr  | 90   | 82  | 250 | 60.8165           | 60.8180               |
| SL 100 WS-cr | 108  | 100 | 250 | 60.8166           | 60.8181               |
| SL 107 WS-cr | 115  | 107 | 250 | 60.8167           | 60.8182               |
| SL 131 WS-cr | 140  | 131 | 250 | 60.8168           | 60.8183               |
| SL 150 WS-cr | 159  | 150 | 250 | 60.8169           | 60.8184               |
| SL 207 WS-cr | 220  | 207 | 250 | 60.8170           | 60.8185               |

## INSTALLATION INSTRUCTIONS SLIPSIL® CONDUIT SLEEVES AND SLIPSIL® SEALING PLUGS AND CRUSHER®



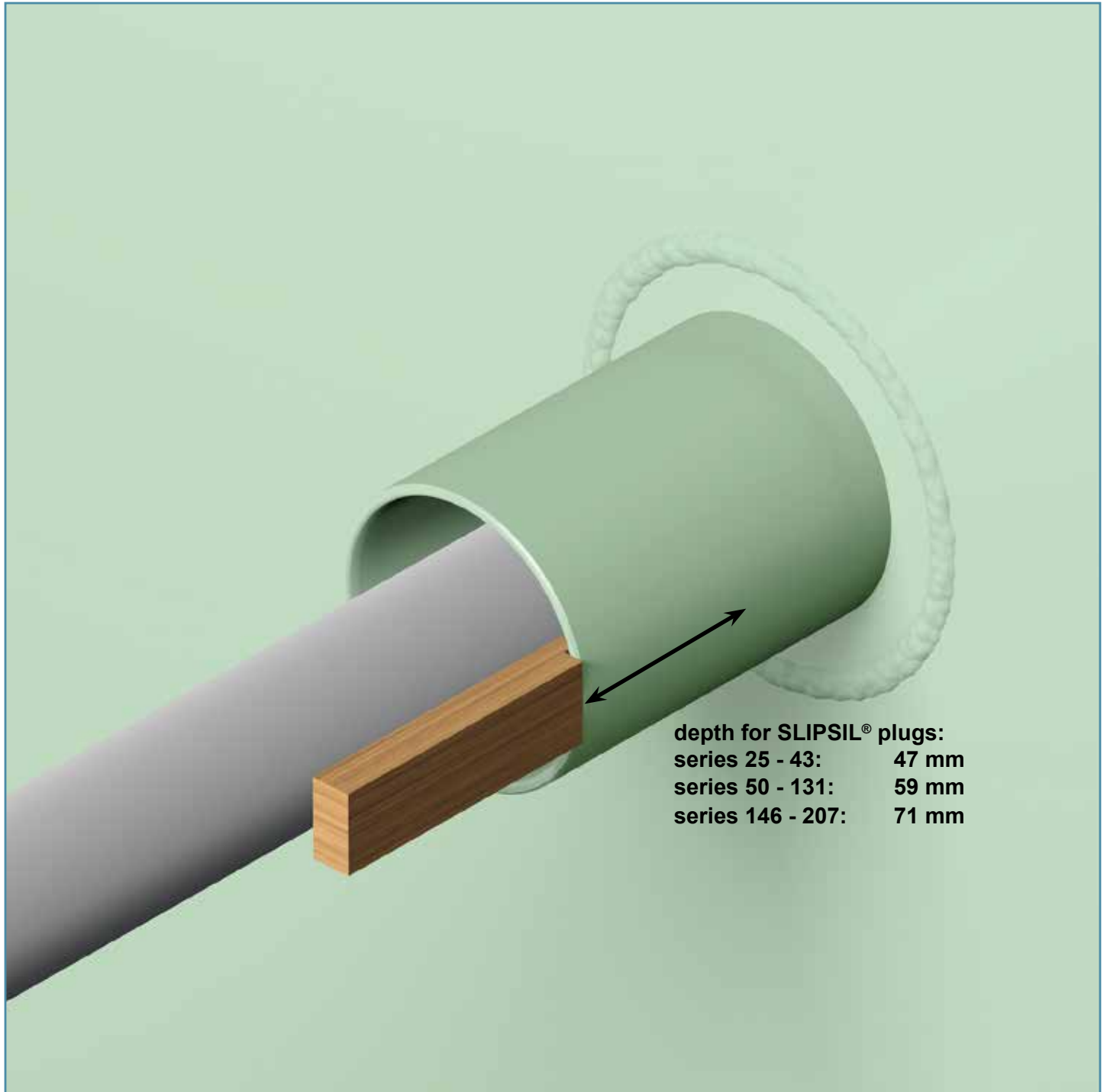
Before starting the installation procedure, any dirt, oil residues or corrosion should be removed from the conduit sleeve and the surface of the ducted pipe. The outside of the C-FIT CRUSHER® and the inner wall of the conduit should be treated with CSD® lubricant for ease of installation. The fitting C-FIT CRUSHER®, which is split lengthwise, is folded around the ducted plastic pipe. Please refer to the Safety Data Sheet of the CSD® lubricant for more information.

## INSTALLATION INSTRUCTIONS SLIPSIL® CONDUIT SLEEVES AND SLIPSIL® SEALING PLUGS AND CRUSHER®



Push the crusher into the conduit sleeve. The C-FIT CRUSHER® can be tapped in using a hammer and a piece of wood. Be careful not to damage the plastic pipe.

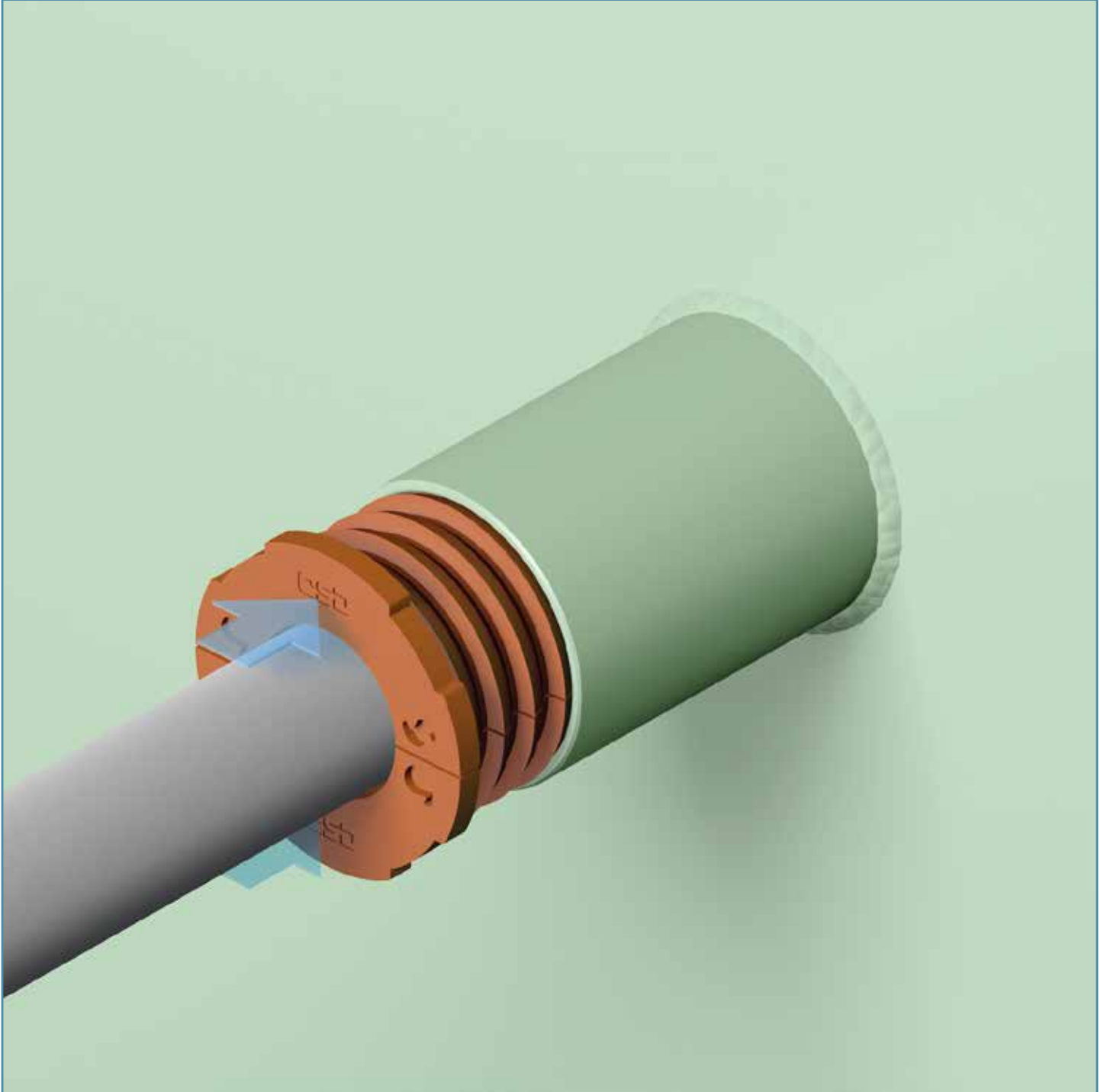
## INSTALLATION INSTRUCTIONS SLIPSIL® CONDUIT SLEEVES AND SLIPSIL® SEALING PLUGS AND CRUSHER®



The C-FIT CRUSHER® should be inserted into the conduit sleeve over a length which corresponds with the length of the SLIPSIL® sealing plug. With the Beele® adjuster or a marked piece of wood, the depth of the insertion of the C-FIT CRUSHER® should be checked.

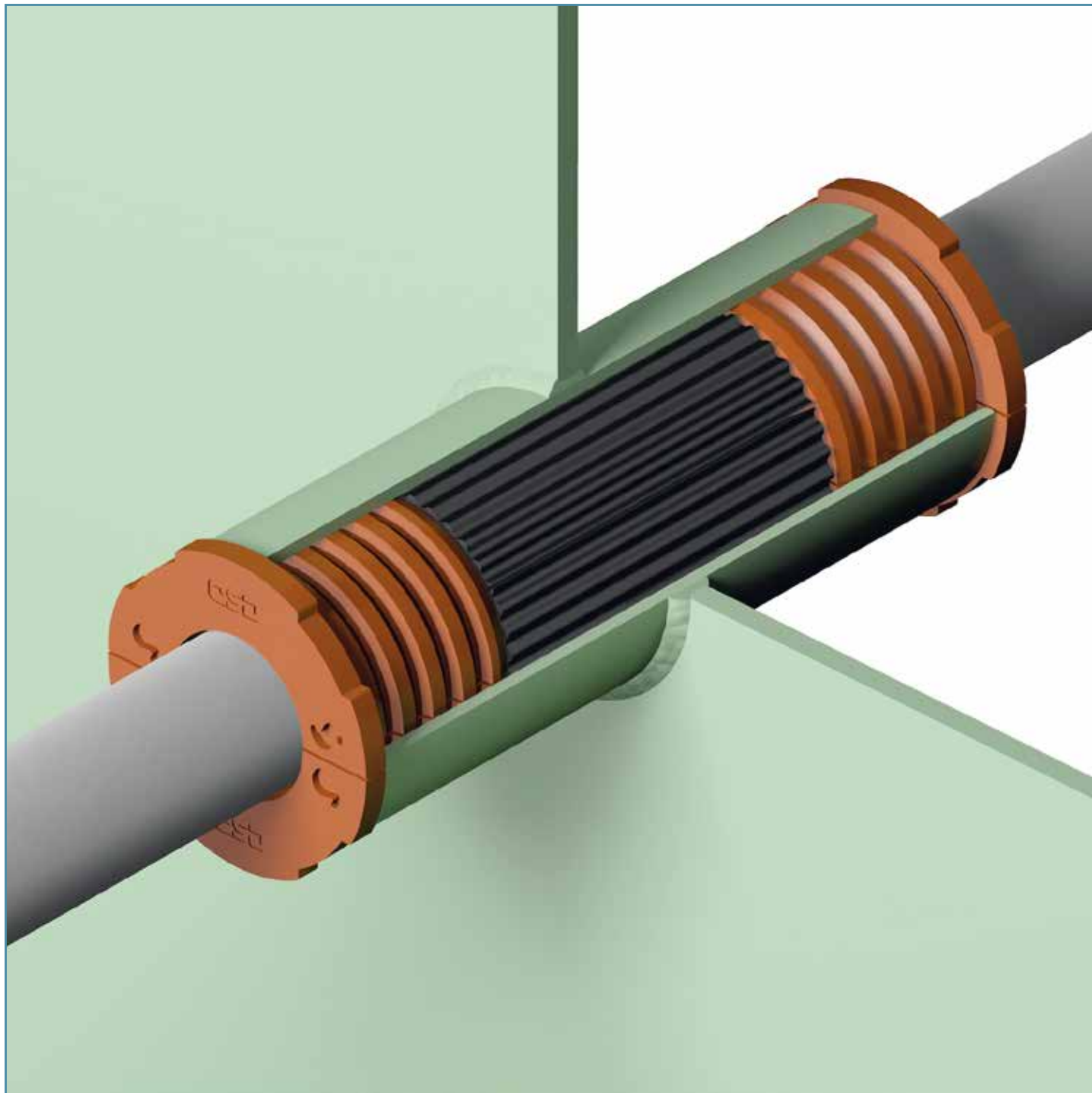
Note: it will be impossible to correct the depth with the insertion of the SLIPSIL® sealing plug.

## INSTALLATION INSTRUCTIONS SLIPSIL® CONDUIT SLEEVES AND SLIPSIL® SEALING PLUGS AND CRUSHER®



Before installation of the sealing plugs, the segments of the SLIPSIL® sealing plug are treated with CSD® lubricant on the inside and outside. Both segments of the SLIPSIL® sealing plug are placed around the ducted pipe and then pushed by hand evenly, serration by serration, into the conduit sleeve. From time to time the compressed air has to be released by inserting a flat screwdriver in between both plugs halves. Be careful not to damage the sealing plug. It is advisable to treat the screwdriver with CSD® lubricant before inserting. Please refer to the Safety Data Sheet of the CSD® lubricant for more information.

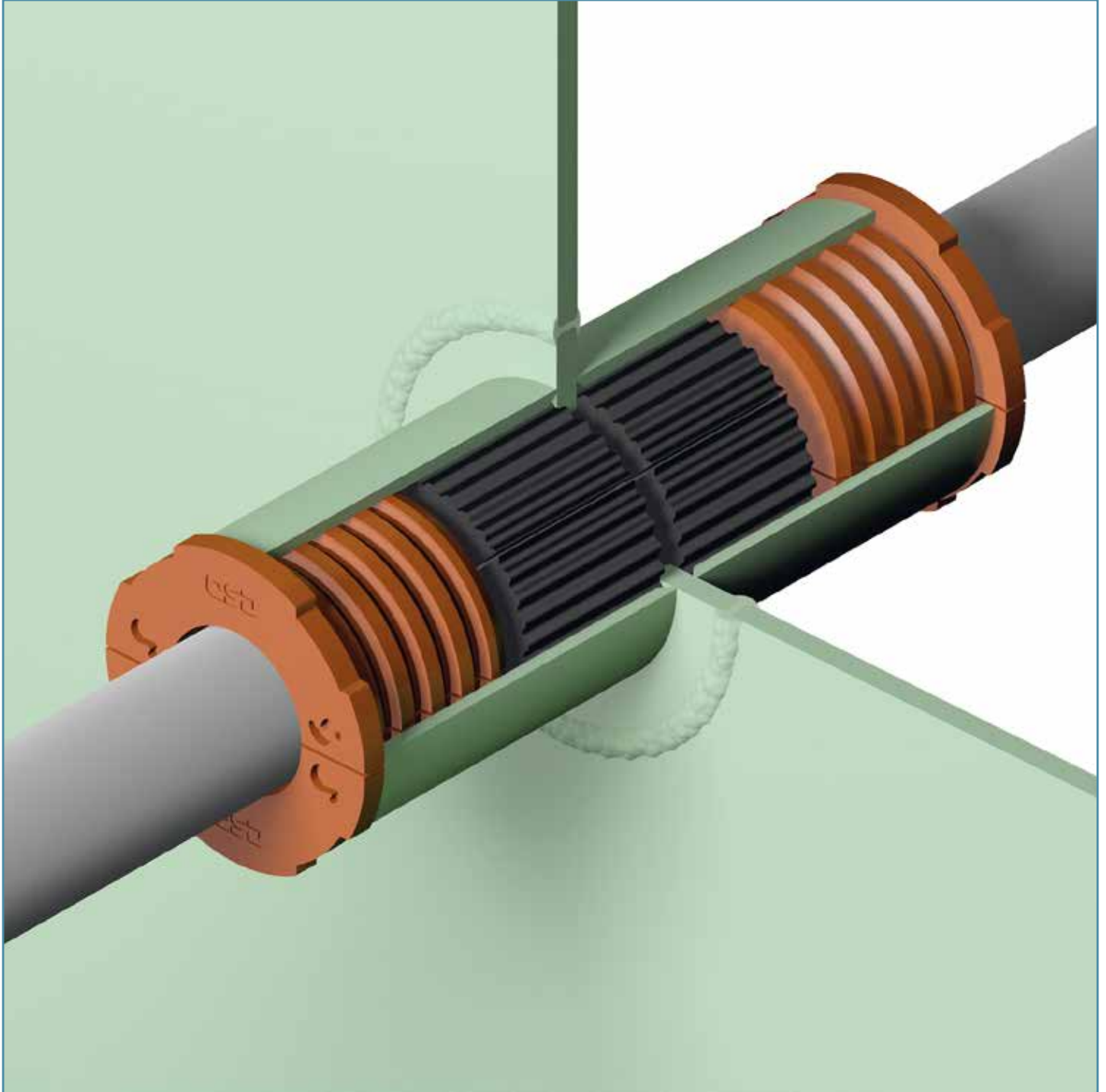
## INSTALLATION INSTRUCTIONS SLIPSIL® CONDUIT SLEEVES AND SLIPSIL® SEALING PLUGS AND CRUSHER®



The flanged edge of the sealing plugs must be flush against the front side of the conduit sleeve.

For A-class penetrations, the conduit sleeve needs to be insulated only at the insulated side of the bulkhead or at the lower side of the deck.

## INSTALLATION INSTRUCTIONS SLIPSIL® CONDUIT SLEEVES AND SLIPSIL® SEALING PLUGS AND CRUSHER®

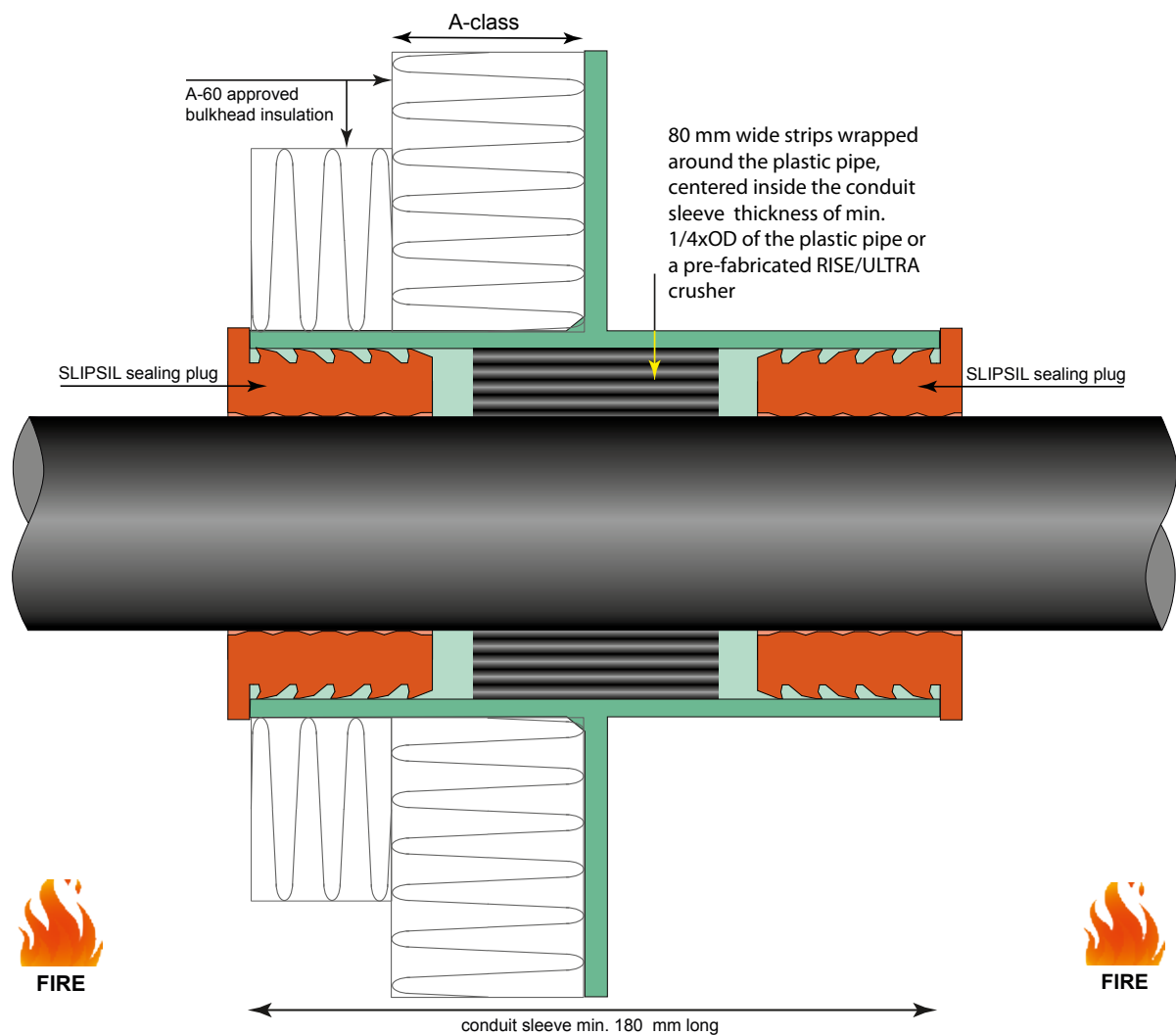


The SLIPSIL® plug sealing system for plastic pipes can be also applied in the SLIPSIL® conduit sleeves with a shoulder inside. In this case the CRUSHER® plugs have to be cut to length and inserted from both sides of the conduit sleeve before the SLIPSIL® are going to be installed. Optimum tightness ratings are achieved when the system is applied in the SLIPSIL® conduit sleeves with a shoulder inside.

## INSTALLATION INSTRUCTIONS SLIPSIL® CONDUIT SLEEVES AND SLIPSIL® SEALING PLUGS AND CRUSHER

**direction of exposure:  
fire from either side**

**SLIPSIL/CRUSHER SEALING SYSTEM**  
for plastic pipes  
min. 16 mm - max. 225 mm OD



**conduit sleeve positioned:**  
- symmetrically  
or  
- non-symmetrically with longest length on unexposed side



Description: SLIPSIL plug sealing system for A-60 class bulkheads

Mat.: NOFIRNO rubber & RISE/ULTRA rubber

Ref.: JAB

Date:

13-09-2005

Scale:

No part of this document may be reproduced by photocopy, print, microfilm or any means without the written permission of BEELE Engineering bv of The Netherlands

Rev. 1

22.08.2008

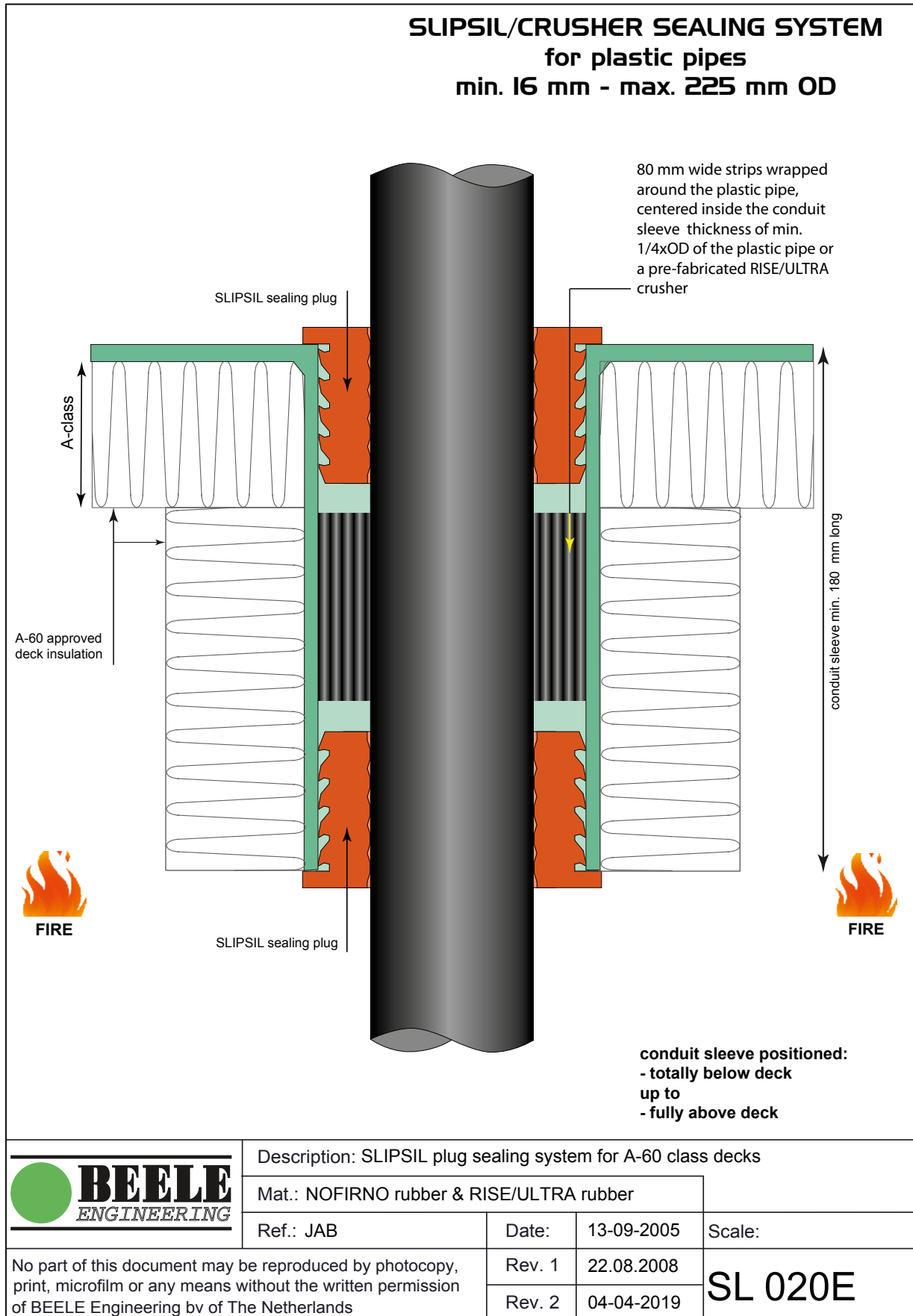
Rev. 2

04-04-2019

**SL 018E**

## INSTALLATION INSTRUCTIONS

### SLIPSIL® CONDUIT SLEEVES AND SLIPSIL® SEALING PLUGS



# STATE-OF-THE ART METALLIC & PLASTIC PIPE SEALING SYSTEMS

**NOFIRNO**

**slipsil**  
**slipsil**  
**XL-120**

**DYNATITE**

**CRUSHER**

## NOFIRNO®

- Approved for harshest fire ratings for pipe transits (A, H and Jet Fire class).
- Allows axial and radial movement of the ducted pipe. High pressure ratings - designed for gas and/or watertight penetrations.
- Prevents corrosion inside the penetration.
- NOFIRNO® rubber sleeves and sealant will remain stable and not be consumed by fire.
- **Breakthrough - MULTI-ALL-MIX® SYSTEM**
- Approved for any combination of cable and/or metallic, GRP or plastic pipes!

## SLIPSIL®

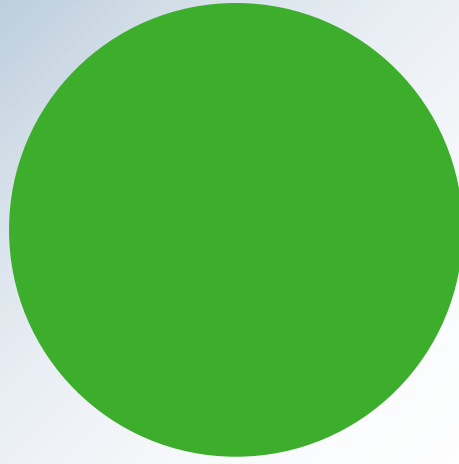
- Designed to provide fire safe, gas and watertight seals for pipe penetrations.
- For transits carrying single or multiple metal pipes with the same diameter (hydraulic and pneumatic lines).
- Installs in a couple of minutes. Lubricate and push - that is it!
- No bolting or other mechanical devices.
- Absorbs mechanical stresses, vibration and prevents galvanic corrosion problems.
- Wide temperature range: -60 °C up to +180 °C.
- **Proven - simple, shortest conduit length**
- The system of choice in shipyards worldwide for more than 30 years!

## DYNATITE®

- For applications where a high degree of (instantaneous) tightness is required.
- Dynamic sealing when a disaster occurs.
- Plugs are compressible and will return to their original shape after shock pressure.
- Easily withstands shock pressure loads of up to 15 bar (220 psi).
- Ideal solution for the columns of offshore rigs and collision bulkheads.
- **Breakthrough - dynamic compression**
- Based on high-tech rubber grade and engineered profiling, the DYNATITE® plugs can be substantially compressed and get tighter with excessive pressure.

## CRUSHER®

- Simple and effective system for all plastic pipe transits.
- RISE®/ULTRA C-FIT crushers squeeze and seal.
- RISE®/ULTRA wraps to be used for non-SLIPSIL® and oversized conduit sleeves.
- RISE®/ULTRA C-FIT crushers and wraps integrated in the NOFIRNO® sealing system.
- NOFIRNO® sealant adheres well to plastics: high degree of water tightness feasible.
- **Breakthrough - adhesion under fire load**
- RISE®/ULTRA compound forms an adhesive mass during fire exposure!
- Approved for a multiple mixture of all kinds of plastic pipes.



***WE CARE***

**BEELE ENGINEERING:  
A COMPANY DEDICATED  
TO SAFETY  
FOR OVER 45 YEARS**



**BEELE Engineering bv**  
**Beunkdijk 11 - 7122 NZ AALTEN - THE NETHERLANDS**  
**Tel. +31 543 461629 - Fax +31 543 461786 - E-mail: [info@beele.com](mailto:info@beele.com)**  
**Websites: <https://www.beele.com>, [sealingvalley.com](https://sealingvalley.com) and [fissiccoating.com](https://fissiccoating.com)**