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**FERNWÄRME-FORSCHUNGSINSTITUT**  
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**Soil stress test and ageing stability of pipe joint for insulated bonded pipe systems**

Test / KMR standard size	Price [EUR]	Test / Price [EUR]
EN 489:2003 soil stress test at 120°C, <u>100</u> cycles, 75 mm up to DN 80/160 more than DN 80/160 up to DN 150/250 more than DN 150/250 up to DN 400/560 more than DN 400/560	<a href="#">contact us for price information</a>	soil stress test at 120°C, <u>1000</u> cycles, 75 mm <a href="#">contact us for price information</a>
EN 489:2003 water impermeability test at <u>30°C</u> , <u>24 h</u> , <u>30 kPa</u> up to DN 80/160 more than DN 80/160 up to DN 150/250 more than DN 150/250 to DN 250/350 more than DN 250/350	<a href="#">contact us for price information</a>	water impermeability test at <u>50°C</u> , <u>200 h</u> , <u>50 kPa</u> <a href="#">contact us for price information</a>
EN 489:2003 ageing stability <u>3.600 h</u> at <u>160°C</u> up to DN 80/160 for 2 joints	<a href="#">contact us for price information</a>	EN 489:2003 ageing stability <u>1.450 h</u> at <u>170°C</u> <a href="#">contact us for price information</a>

According to EN489 three tests with two different diameters are required for the soil stress test. The test specimens should be of 2,5 m length each and have to be fitted with one torospherical head and one flange.

The test results may be available 10 days after the FFI has received the proper test specimens. The a.m. prices include a report with coloured pictures. If the test was successful a test certificate will be issued.

The Fernwärme-Forschungsinstitut is an active member of the technical committees CEN TC 107. All the tests done on our officially approved laboratory include the newest findings of this working group. We can also give you a separate offer for combined tests.