

Cognis GmbH
Standort Illertissen
Robert-Hansen-Straße 1
D-89257 Illertissen

ZENTRALE:
A-4017 LINZ, PETZOLDSTRASSE 45-49, POSTFACH 27
TELEFON: 0732/7617-850, FAX: 0732/7617-89

www.ibs-austria.at - office@ibs-austria.at

BANKVERBINDUNGEN:
HYPO OBERÖSTERREICH, KTO.-NR. 00 0021294 4, BLZ 54000
IBAN: AT465400000000212944, SWIFT: OBLAAT2L
OBERBANK LINZ, KTO.-NR. 621-0080/55, BLZ 15000

DVR-0059537/2009-01-20 REGISTERGERICHT LINZ, UID-NR. ATU 23289705

Date: 22 January 2009

File no.: 08040220

Official in charge: Ing. C. Arzt / hi
Direct dial: 824

Šis dokumentas yra UAB "Swelbalt" nuosavybė,
jo naudojimas ir perdavimas kitiems asmenims
galimas su UAB "Swelbalt" leidimu ir tik su gaminių pirkimą patvirtinančiais dokumentais.

Mixed Penetration Seal tested according to EN 1366-3

We confirm that Cognis GmbH, Germany has tested a mixed penetration seal in our laboratory in April 2008. The penetrating services had been electrical cables, incombustible pipes (steel and copper) as well as combustible pipes (polyethylene (PE-HD) and polyvinylchloride (PVC)). The separating element was a plasterboard wall of 120 mm thickness, having a rating of EI 120. The cable penetration seal was made from KBS Panel Seal ABL (seal thickness 120 mm, 2 x 60 mm mineral fibre boards), the seal for the incombustible pipes was of the type KBS Tub Jacket and the plastic pipes were sealed with KBS Pipe Seal C.

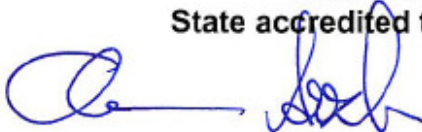
The test report is available in German language, test report No. 08040220, dated 22.1.09.

The test results are:

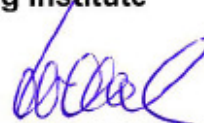
- EI 90 for small-sized cables acc. to EN 1366-3, i.e. max cable diameter 21 mm
- EI 90 for medium-sized cables acc. to EN 1366-3, i.e. max. cable diameter 50 mm
- EI 60 for large cables acc. to EN 1366-3, i.e. max cable diameter 80 mm
- EI 60 for PE-HD and PVC pipes up to diameter 160 x 6.2, resp. 160 x 4.7
- EI 90 for steel pipes up to 159 x 4.5
- EI 120 for copper pipes up to 76 x 2.0

A detailed classification report will be prepared.

**IBS-INSTITUTE FOR TECHNICAL FIRE PROTECTION
AND SAFETY RESEARCH GMBH**
State accredited testing and supervising institute



Ing. Clemens ARZT
Official in charge



Ing. Josef KRAML
Area manager, Testing
and Supervising Institute