



ZENTRALE: A-4017 LINZ, PETZOLDSTRASSE 45-49, POSTFACH 27, TELEFON: 0732/7617-850, FAX: 0732/7617-89
ZWEIGSTELLEN: A-1300 WIEN FLUGHAFEN, OFFICE PARK I, TOP B02, TELEFON: 01/22787330 / A-5020 SALZBURG, GINZKEYPLATZ 10/1, TELEFON: 0662/624222
A-9100 VÖLKERMARKT, GRIFFNERSTRASSE 6, TELEFON: 04232/37026 / A-6020 INNSBRUCK, GRABENWEG 68, TELEFON: 0512/345509-0
A-6900 BREGENZ, RÖMERSTR. 12, TELEFON: 05574/54670
www.ibs-austria.at - office@ibs-austria.at / DVR: 0659959, FN 89116d REGISTERGERICHT LINZ, UID-NR. ATU 23289705

CLASSIFICATION REPORT

Report classifying the fire resistance of
the structural members "BVE" and "BV"

1st EDITION

Report No: 12020212-3

Date: 4th September 2012

IBS-SJ/fm

EXT 851

**Holder of
Classification Report:**

HAGO Bautechnik GmbH
Traklstrasse 19, A-4600 Wels

Accreditation Institute:

**IBS – Institute for Technical Fire Protection
and Safety Research GmbH**
Petzoldstrasse 45, A-4017 Linz

Notification No:

1322 (only informative since no harmonising
product standard is available for access
covers)

Classification Objects:

Access covers:
"Hagodeck BVE" and "Hagodeck BV"

Brief assessment:

In compliance with EN 13501-2 the structural
members listed in Test Report no. 12020212-
1 shall be classified "RE 60" (a↔b) and "REI
30" (a↔b) with regard to their fire resistance.

Classification is valid until:

4th September 2017

This Classification Report contains 5 pages.

This Classification Report shall not be utilized or reproduced wholly or in part
without prior written authorisation of IBS Linz.



1. Introduction

This Classification Report defines the fire resistance class assigned to the structural members "manhole cover Hagodeck BVE" and "manhole cover Hagodeck BV" in compliance with the procedures given in EN 13501-2.

2. Details of classified structural members

2.1. Function

The structural members are defined as access covers with a horizontal opening: their function is to resist fire in accordance with the typical product reactions as described in EN 13501-2, Clause 5.

2.2. Description

The structural members "manhole cover Hagodeck BVE" and "manhole cover Hagodeck BV" are described in detail in Test Report no. 12020212-1 as mentioned below.

Brief description:

The access covers are consisted of a frame and a cover which are screwed to each other. The frame is fitted into a concrete ceiling and filled with concrete.

3. Test reports and results supporting this classification

The following test reports are presented in order to support this classification:

Name/address of testing laboratory

IBS - Institute for Technical Fire Protection and Safety Research GmbH
Petzoldstrasse 45, A-4017 Linz

Notification number/status of testing laboratory

Notification No: 1322/Accredited Testing and Inspection Body

Test Report no. 12020212-1

Loadbearing access cover, type: BVE-110; Test Report no. 12020212-1, Test date: 21st May 2012

Sponsor: HAGO Bautechnik GmbH, Traklstrasse 19, A-4600 Wels



3.1. Terms of loading

Temperature time curve	in acc. with EN 1363-1
Load direction	bottom-up
Number of test specimens	1 (one)
Test load	5 kN (pointwise)
Loading conditions	in a concrete ceiling

3.2. Test results

Loadbearing ability	
Time of breakdown min.)	could not be established
Deformation criteria exceeded after (min.)	could not be established

Fire integrity	
Time of cotton wool pad ignition (min.)	could not be established
Time of gap gauge failure (min.)	could not be established
Time of sustained flaming (min.)	could not be established

Thermal insulation	
Time when the mean temperature rise exceeds 140 K on the unexposed side (min.).	No exceeding
Time when the maximum temperature rise exceeds 180 K on the unexposed side (min.).	43 minutes



4. Classification and direct field of application

4.1. Normative reference of this Classification

This Classification is covered by the normative reference EN 13501-2, Clause 7.3.3.

4.2. Classification

The structural members shall be classified on the basis of the performance criteria and classes specified below. No other classification is admissible.

RE	---	RE 20 (a↔b)	RE 30 (a↔b)	---	RE 60 (a↔b)
REI	REI 15 (a↔b)	REI 20 (a↔b)	REI 30 (a↔b)	---	---

The designation (a↔b) defines the fire resistance on both sides.

4.3 Direct field of application

The structural members are subject to the direct field of application in accordance with EN 13501-2 (field of application in accordance with Test Report no. 12020212-1 and other applications):

- The fixing of additional combustible material in the gaps shall not be admissible.
- Changes in the aspect ratio of manhole covers provided the biggest cover and its' surface is not increased.
- Reduction in distance between mounting points
- No increase in size shall be allowed. The maximum admissible inner dimension is 1000 x 1000 mm.
- An unlimited decrease in size is admissible.



5. Period of validity:

This Classification shall be valid until 4th September 2017. Under the provision that the products and product application ranges are not subjected to changes, the validity can be prolonged by another two years after prior written application.

This Classification shall lose its validity before the end of the period in case of substantial changes in testing and assessment criteria. Furthermore, the validity shall also expire if the sponsor undertakes improper technical modifications to the structural members that are not covered by the direct field of application.

6. Legal notice

This document shall not constitute any type approval or product certification.

**IBS-INSTITUTE FOR TECHNICAL FIRE PROTECTION AND
SAFETY RESEARCH G.M.B.H**
Accredited Testing and Inspection Body


Mr. Josef STOCKINGER
Official in charge


Mr. Helmut PEHERSTORFER
Authorised Signatory
Managing director