

**The Formwork Experts.**

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## **Plastic tube 32mm 2.00m with plug 32mm**

Art. n° 581460000

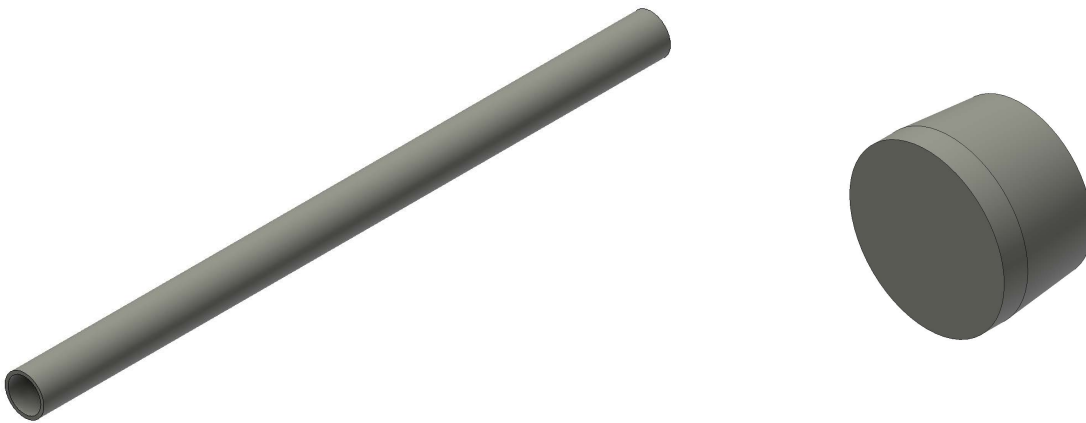
Art. n° 581462000

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### **Classification report**

Fire resistance

14040910-A,Rev3-en





Institut für Brandschutztechnik  
und Sicherheitsforschung

# CLASSIFICATION REPORT

## Report on classification of the fire resistance of form-tie points pursuant to EN 13501-2:2016

Produktname: **DOKA form tie points EI 180**

**Classification report No.: 14040910-A,Rev3-en**

Datum: 25.08.2021

This document replaces CR 14040910-A,Rev2-en, dated 12.11.2018

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DW: 872

**CLIENT:**

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**DRAWN UP BY:**

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Petzoldstraße 45, 4020 Linz

**NOTIFICATION NUMBER:**

1322

This Classification Report consists of **4** pages and 31 pages design catalog and may not be reproduced in any form, in whole or in part



## 1. Introduction

This fire-resistance Classification Report defines the classification that can be assigned to DOKA form-tie points EI 180 in accordance with the procedures stipulated in EN 13501, Part 2.

## 2. Details of the classified products

### 2.1. General remarks

The form-tie points detailed in the „design variants“ were placed in concrete walls of various thickness (ranging from 140, 200, 300 to 350 mm) as well as in a concrete wall with a thickness of 140 and 150 mm and successfully tested with regard to their integrity (barrier function) and thermal insulation in accordance with EN 1363-1, for a test-duration of 181 minutes.

### 2.2. Description

In support of this classification to Section 3 of EN 13501 Part 2, the form-tie points concerned are described in the following test report.

## 3. Test reports on field of direct application, and test results to substantiate the classification

### 3.1. Test report

The following test reports are submitted in support of the classification:

| Name of testing body <sup>1</sup> | Name of client | Reference No of report | Test method and date | Object of testing     |
|-----------------------------------|----------------|------------------------|----------------------|-----------------------|
| IBS Linz                          | Doka GmbH      | 10121411               | 1363-1:1999          | „Spannstellen EI 180“ |
| IBS Linz                          | Doka GmbH      | 14040910-1             | 1363-1:2012          | „Spannstellen EI 180“ |

<sup>1</sup> Name & address and notification number/status of testing body, in alphabetical order:  
- IBS: IBS - Institut für Brandschutztechnik und Sicherheitsforschung GmbH, Petzoldstraße 45,  
A-4020 Linz; notification number: 1322

### 3.2. Test results

| Report No.<br>Test procedures<br>Test date<br>Duration of testing          | Parameters                                                    | Results                                    |
|----------------------------------------------------------------------------|---------------------------------------------------------------|--------------------------------------------|
| <b>10121411</b><br>EN 1363-1<br>7 <sup>th</sup> June 2011<br>181 minutes   | Integrity<br>Cotton pad<br>Gap gauge<br>Sustained flaming     | Not ignited<br>Not possible<br>Not present |
|                                                                            | Thermal insulation<br>I <sub>medium</sub><br>I <sub>max</sub> | No failure<br>No failure                   |
| <b>14040910-1</b><br>EN 1363-1<br>13 <sup>th</sup> May 2015<br>181 minutes | Integrity<br>Cotton pad<br>Gap gauge<br>Sustained flaming     | Not ignited<br>Not possible<br>Not present |
|                                                                            | Thermal insulation<br>I <sub>medium</sub><br>I <sub>max</sub> | No failure<br>No failure                   |

## 4. Classification and field of application

### 4.1. Reference regarding classification

This classification was effected in accordance with EN 13501-2:2016, Section 7.5.2

### 4.2. Classification

The form-tie points concerned have been classified in conformity with EN 13501-2:2016 and with the following combinations of performance and classes, as applicable.

|           |       |       |       |       |       |       |        |        |
|-----------|-------|-------|-------|-------|-------|-------|--------|--------|
| <b>E</b>  | ---   | E 20  | E 30  | ---   | E 60  | E 90  | E 120  | ---    |
| <b>EI</b> | EI 15 | EI 20 | EI 30 | EI 45 | EI 60 | EI 90 | EI 120 | EI 180 |

No other classifications are permitted.

The load-bearing capacity (R) is verified mathematically as specified by EN 1992-1-2 (issue date: 1<sup>st</sup> Sept. 2010); this code stipulates the design and construction of reinforced-concrete and pre-stressed concrete superstructures for the unusual event of fire exposure.

Classification 'EI 180' was achieved for all the tested form-tie points, except for the following:

| Description                 | Page    | Classification  |
|-----------------------------|---------|-----------------|
| Concrete cone 52mm          | page 15 | E 120 and EI 60 |
| Framax Xlife plus plug 24mm | page 19 | EI 120          |
| Framax Xlife plus plug 38mm | page 20 | EI 120          |

#### 4.3. Field of direct application

The component has the following field of direct application with reference to EN 1364, Part 2 and EN 13501 Part 2:

- increasing the wall thickness (minimum thickness: 14 cm)
- increasing the thickness of building elements
- reducing the spacing of fixing devices
- unrestricted widening of wall construction
- increasing the height as provided in EN 1992-1-2

No other modifications are permitted.

#### 5. Limitations

This classification document does not constitute a type-approval or verification of the product.

**IBS-INSTITUT FÜR BRANDSCHUTZTECHNIK UND  
SICHERHEITSFORSCHUNG GESELLSCHAFT M.B.H.  
Akkreditierte Prüf-, Inspektions- und Zertifizierungsstelle**

Dipl.-Ing. Ulrich STÖCKL  
Official in charge

Ing. Josef STOCKINGER  
Monitoring

Information on documents with multiple electronic signatures can be found [here](#)!

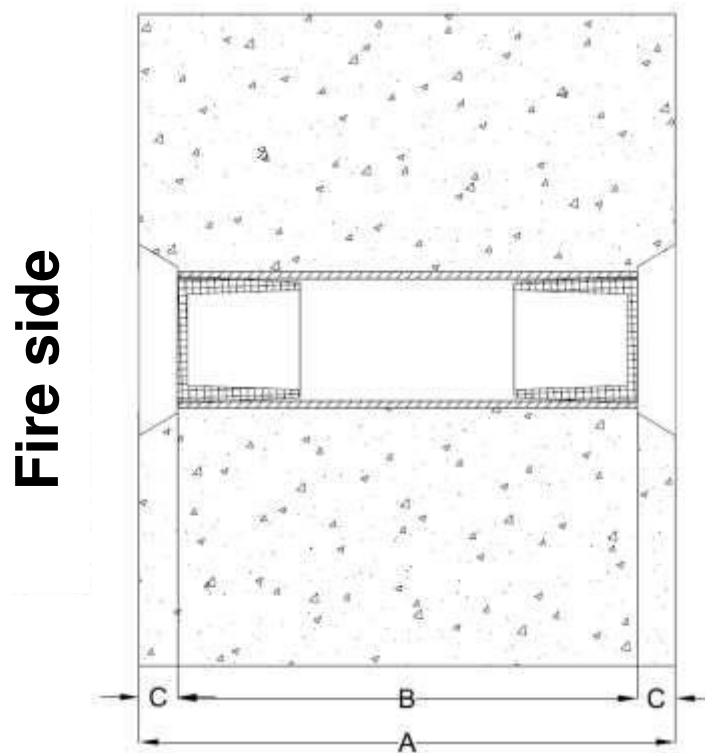
Change note:

Rev1 und Rev2:

Rev3:

Addition of the three Dokaset variants in the Design catalog  
M-Bed moulding mortar replace by expansive mortar  
Variantes 9, 10 und 11 of Framax Xlife Plus added

## Plastic tube 32mm with plug 32mm



A .... Minimum wall thickness

B .... Cut-to-size length of the plastic tube 32mm

Fixed dimension:

C .... 1cm

Used material:

| Article name                                | Article number |
|---------------------------------------------|----------------|
| Plastic tube 32mm 2.00m (cut-to-length)     | 58 1460 000    |
| Universal cone 32mm (removed after pouring) | 58 1461 000    |
| Plug 32mm                                   | 58 1462 000    |