

## Fire test report

valid for

**Hanger brackets**

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Müpro Service GmbH  
Hessenstraße 11

D-65719 Hofheim-Wallau

Your reference : 4500284076  
Your message of : 25.04.2016  
Our reference : 210007030/210005877-6  
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Date : 26 April 2016

### Validity of test report no. 210005877-6 of 12 April 2011

Dear Sir or Madam

Referring to your enquiry dated 21 December 2015 we would like to inform you that the statements given in test report no. 210005877-6 of 12 April 2011 concerning

- the test of MÜPRO suspension brackets regarding their reaction to fire according to DIN 4102-2; 1977-09

are still valid because the basis of the assessment has not changed in the meantime.

The validity of test report no. 210005877-6 of 12 April 2011 in conjunction with this letter is not limited.

This letter is an amendment to test report no. 210005877-6 of 12 April 2011 and it is only allowed to be used together with the test report for verification.

You will receive an invoice with separate mail.

Yours sincerely

On behalf



Dipl.-Ing. Heinrich Kötter  
Person in charge

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# TEST REPORT SHORT FORM

**No. 210005877-6**

**issued 12 April 2011**

**English version**

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<b>Client:</b>	MÜPRO Services GmbH Hessenstraße 11  D-65719 Hofheim-Wallau
<b>Date of order:</b>	8 November 2010
<b>Validity:</b>	12 April 2016
<b>Subject matter:</b>	Extract of test report no. 210005877-1 issued 12 April 2011 regarding the load-bearing capacity of MÜPRO hanger brackets made of galvanized steel fixed with threaded rods $\geq$ M 10, when loaded with tension.
<b>Fire testing:</b>	On 24 November 2010 the MÜPRO hanger brackets were exposed to fire according to DIN EN 1363-1; 1999-10 at the MPA NRW in order to determine the load-bearing capacity.

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**This test report is valid until 12 April 2016.**

The results of the tests only relate to the above-mentioned test specimen. Publishing and copying of test reports without permission of the MPA NRW is only allowed without any changes of the content and the form of the report. A shortened reproduction of test reports needs the permission of MPA NRW.

This test report consists of 3 pages and 1 annex.

## 1 Fire resistance duration

Fire resistance durations (load-bearing capacity of the hanger brackets in time dependence) according to the test results stated in the test report no. 210005877-1 can be assigned to the MÜPRO hanger bracket, according to the drawing in annex 1, fixed with threaded rods  $\geq$  M10, in strength classes  $\geq$  4.6, in combination with washers and nuts.

Designation	Fire resistance duration in minutes	
	90 max. F [kN]	120 max. F [kN]
MÜPRO hanger brackets fixed with threaded rods $\geq$ M10	$\leq$ 0.500	$\leq$ 0.400

The fire resistance durations are only valid for MÜPRO hanger brackets according to the drawing in annex 1 with centric load.

## 2 Special notice

### 2.1 Restrictions

The above-mentioned assessment for the MÜPRO hanger bracket is not valid for the use on cable systems, for which the circuit integrity according to 4102-12: 1988-11 is required. Verification on basis of further fire tests is necessary for such applications.

### 2.2 Application, non-combustible pipes

The MÜPRO hanger bracket may be used for the mounting of non-combustible pipes.

### 2.3 Application, combustible pipes

When combustible pipes with an outer diameter of  $\leq$  160 mm are fixed with MÜPRO hanger brackets, the pipes have to be additionally equipped over the entire length with pipe insulations with the accordingly fire resistance classification on basis of „Allgemeiner Bauaufsichtlicher Prüfzeugnisse“.

### 2.4 Material of MÜPRO hanger bracket

The material of the MÜPRO hanger bracket may consist of stainless steel in grade A2 or A4.

### 2.5 Application

The assessments stated in this test report are only valid for MÜPRO hanger brackets considering the boundary conditions from the technical data sheets of the client.

The assessment of the MÜPRO hanger brackets is only valid in combination with building elements that have at least the same fire resistance duration as the MÜPRO hanger brackets.

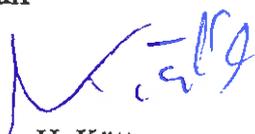
### 2.6 Validity

This test report is valid until 12 April 2016.  
 The period may be extended on request.

This English version of the test report is issued additionally to the test report written in German language with the same report number. In case of doubt the German version is solely valid.

Erwitte, 12 April 2011

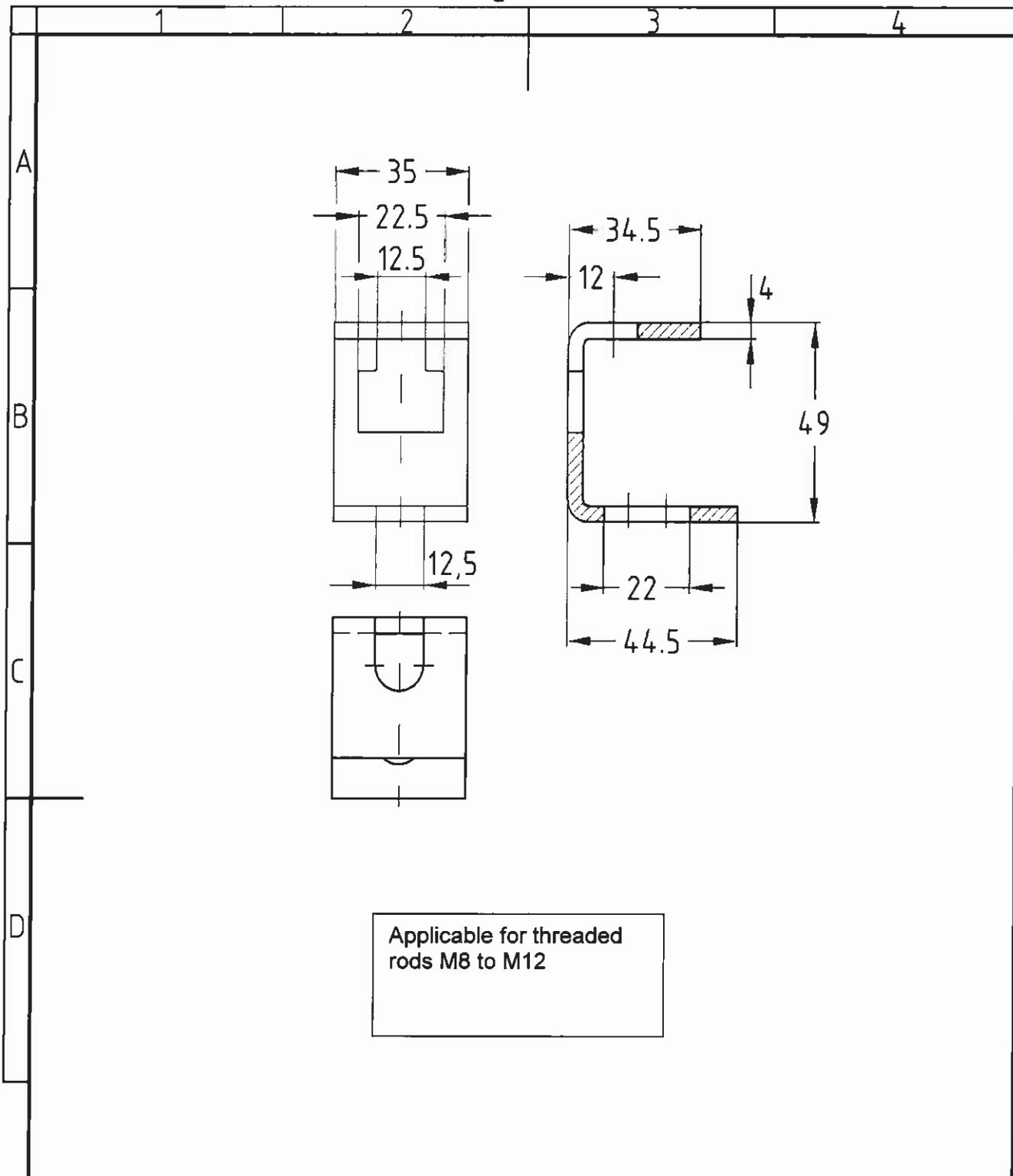
On behalf

  
Dipl.-Ing. H. Kötter  
Official in charge



Date of issue of this English version: 18 July 2011

Figure 1



Applicable for threaded rods M8 to M12

<b>MIPRO</b> Services GmbH 65719 Hofheim-Wallau Hessenstraße 11 Germany		Maßstab/Scale %	Oberfläche/Surface	Werkstoff/Material	Allgemeintoleranzen/Tolerance DIN ISO 2768-m
Copying of this document, and giving it to others and the use or communication of the contents thereof, are forbidden without express authority. Offenders are liable to the payment of damages. All rights are reserved in the event of the grant of a patent or the registration of a utility model or design.			Datum/Date	Name	Bezeichnung / Description <b>Aufhängebügel</b> Übersichtszeichnung hanger bracket general layout drawing
		Bearbeitet/ Constructed	07.04.2011	DE-RD-IK	
		Geprüft/ Checked	11.04.2011	DE-PM-JK	
		Freigegeben/ Released	11.04.2011	DE-RD-ik	
d					
c					
b				Zeichnungsnummer / Drawing no	Blatt/Page 1 / 1 (A4)
a				DE-RD-11-500	
No.	Änderungen / Modifications		Datum/Date	Name	ersetzt / replaced: