

Fire test report

valid for

Lateral angles

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MPA NRW • Außenstelle Erwitte • Auf den Thränen 2 • 59597 Erwitte

Müpro Service GmbH
Hessenstraße 11

D-65719 Hofheim-Wallau

Your reference : 4500284076
Your message of : 25.04.2016
Our reference : 210007030/210005877-5
Telephone no. : (02943) 897-43
Fax no. : (02943) 897-33
E-mail : koetter@mpanrw.de

Date : 26 April 2016

Validity of test report no. 210005877-5 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. 210005877-5 of 12 April 2011 concerning

- the test of MÜPRO side angle brackets regarding their fire resistance 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. 210005877-5 of 12 April 2011 in conjunction with this letter is not limited.

This letter is an amendment to test report no. 210005877-5 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



Hausanschrift:
Marsbruchstraße 186
D-44287 Dortmund
Telefon (02 31) 45 02-0
Telefax (02 31) 45 85 49
E-Mail: info@mpanrw.de
Internet: www.mpanrw.de

Bahnstation: Dortmund-Hbf.
Telegramme: prüfamt Dortmund
Öffentliche Verkehrsmittel
Stadtbahn U47 ab Hbf.
Richtung Aplerbeck
bis „Allerstraße“

Außenstelle Erwitte
Auf den Thränen 2
D-59597 Erwitte
Telefon (0 29 43) 8 97-0
Telefax (0 29 43) 8 97-33
E-Mail: erwitte@mpanrw.de
Internet: www.mpanrw.de

Bankverbindung
Deutsche Bundesbank Filiale Dortmund
IBAN DE 1444000000044001815
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TEST REPORT SHORT FORM

No. 210005877-5

issued 12 April 2011

English version

Client: MÜPRO Services GmbH
Hessenstraße 11
D-65719 Hofheim-Wallau

Date of order: 8 November 2010

Validity: 12 April 2016

Subject matter: Extract of test report no. 210005877-1 issued 12 April 2011 regarding the load-bearing capacity of MÜPRO lateral angles made of galvanized steel fixed with threaded rods \geq M 10, when loaded with tension.

Fire test: On 24 November 2010 the MÜPRO lateral angles were exposed to fire according to DIN EN 1363-1; 1999-10 at the MPA NRW in order to determine the load-bearing capacity.

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 lateral angles in time dependence) according to the test results stated in the test report no. 210005877-1 can be assigned to the MÜPRO lateral angles, according to the drawing in annex 1, fixed with threaded rods $\geq M10$, in strength classes ≥ 4.6 , in combination with the steel beams 50 mm x 50 mm x 200 mm (drawing no. AT 628 A 15).

	Fire resistance duration in minutes
Designation	30 max. F [kN]
MÜPRO lateral angles fixed with threaded rods $\geq M10$	≤ 5.00

The fire resistance duration is only valid for MÜPRO lateral angles with excentric load up to a distance of ≤ 18 mm.

2 Special notice

2.1 Restrictions

The above-mentioned assessment for the MÜPRO lateral angles 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 lateral angles may be used for the mounting of non-combustible pipes.

2.3 Application, combustible pipes

When combustible pipes with an outer diameter of ≤ 160 mm are fixed to MÜPRO lateral angles, 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 lateral angles

The material of the MÜPRO lateral angles 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 lateral angles considering the boundary conditions from the technical data sheets of the client.

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

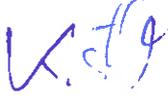
2.6 Validity

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



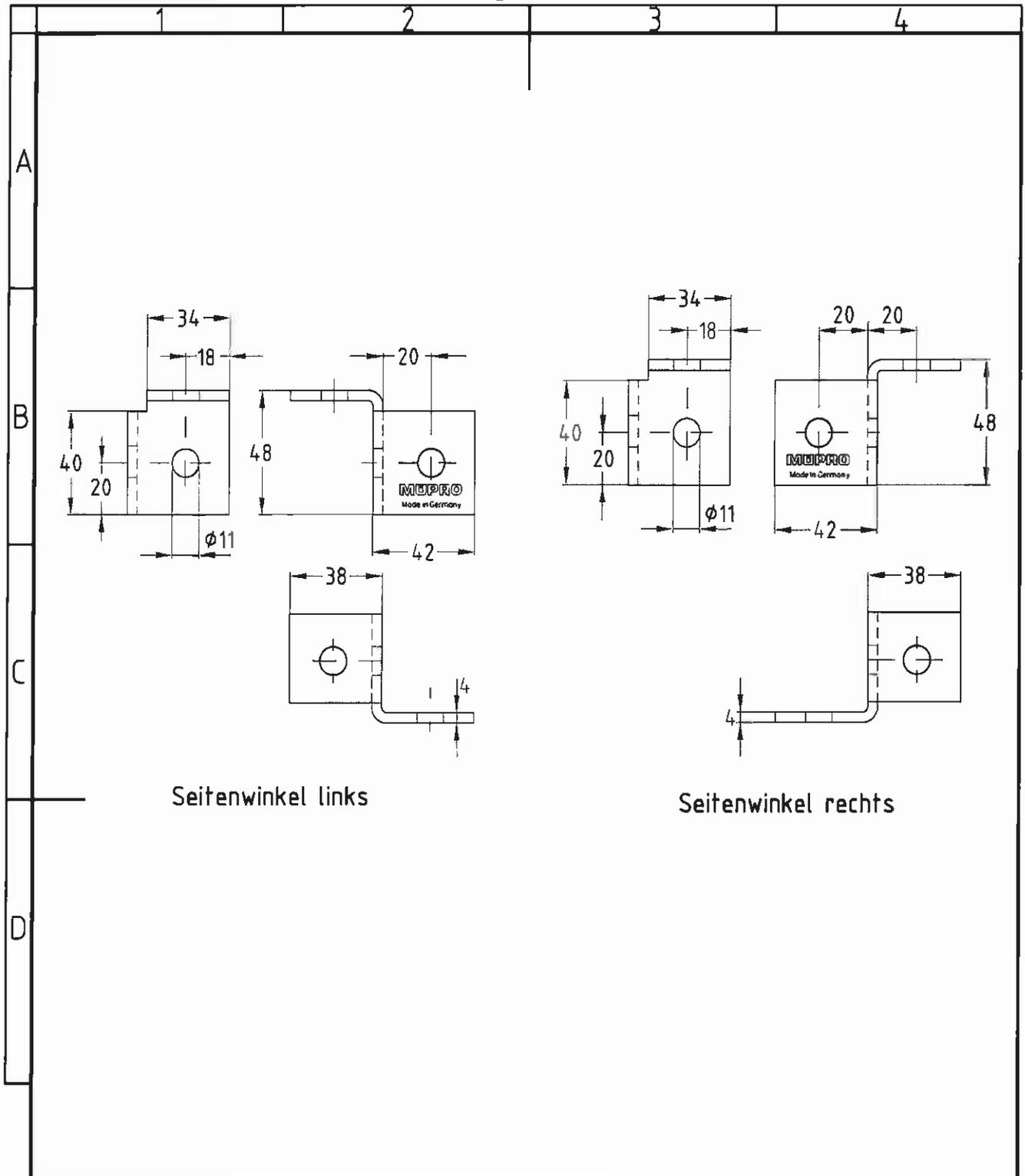
Dipl.-Ing. H. Kötter

Official in charge



Date of issue of this English version: 18 July 2011

Figure 1



Seitenwinkel links

Seitenwinkel rechts

MUPRO Services GmbH 65719 Hofheim-Wallau Hessenstraße 11 Germany		Maßstab/Scale %	Oberfläche/Surface	Werkstoff/Material	Allgmeintoleranzen/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 Seitenwinkel links + rechts Übersichtszeichnung lateral angle left + right 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				Zeichnung: number / Drawing no. DE-RD-11-600		
c						
b						Blatt/Page 1 / 1 (A4)
a						
No.	Änderungen / Modifications	Datum/Date	Name	ersetzt / replaced		