

FUNCTION IN FIRE EXPERT JUDGEMENT REPORT WITH CLASSIFICATION FIRES-JR-038-11-NURE Issue 2

Cable bearing system VERGOKAN with cables PRYSMIAN and PRAKAB



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FIRES 004/S2-03/11/2009-E-el



FUNCTION IN FIRE EXPERT JUDGEMENT REPORT WITH CLASSIFICATION

FIRES-JR-038-11-NURE Issue 2

Name of the product: Cable bearing system VERGOKAN with cables PRYSMIAN and PRAKAB

Sponsor:	VERGOKAN
6. 	Meersbloem Melden 16
	9700 Oudenaarde
	Belgium

Prepared by: FIRES, s.r.o. Approved Body No. SK01 Osloboditeľov 282 059 35 Batizovce Slovak Republic

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FIRES 149/S-27/10/2009-E



1. INTRODUCTION

This expert judgement report with classification defines the function in fire classification assigned to element: cable bearing system VERGOKAN with cables PRYSMIAN and PRAKAB in accordance with the classes given in STN 92 0205: 2010, ZP-27/2008 PAVUS and DIN 4102 – 12: 1998-11.

This expert judgement report defines field of application which is outside the field of direct application according test standard or outside the field of extended application according to relevant extended application standard. This expert judgement expresses the opinion of the FIRES and is based on the experience or internal rules of FIRES.

This expert judgement in 2nd issue of Fire resistance expert judgement report with classification No. FIRES-JR-038-11-NURE, issue by FIRES, s.r.o., Batizovce on 06. 07. 2011, into which the change of product dimensions in clauses 2.2., 4.1., 4.2., 4.3. of this document.

2. DETAILS OF CLASSIFIED PRODUCT

2.1 GENERAL

The product, cable bearing system VERGOKAN, is defined as a cable bearing system for power and communication halogen free cables with circuit integrity maintenance

2.2 PRODUCT DESCRIPTION

Cable bearing system is made of steel cable trays with interlocking system KBSI (60 x 400 x 1,0) mm fixed to heavy joined steel brackets WKM 400 which are fixed to steel U-shaped ceiling profiles HSMU (50 x 50 x 1000) mm.

Ceiling profiles are fixed to the ceiling in maximum span of 1500 mm.

Maximum loading of tray is 20 kg.m⁻¹.

Details of materials, used screws and type of fixation are shown in details in drawings.

Cables used during the test:

PRYSMIAN cables

- cable (N)HXH-J E30 4x50 RM (2x);
- cable (N)HXH-J E30 4x1,5 RE (2x);
- cable (N)HXCH E30 4x50 RM/25 (2x);
- cable (N)HXCH E30 4x1,5 RE/1,5 (2x);
- cable (N)HXHX-J E90 4x50 RM (2x);
- cable (N)HXHX-J E90 4x1,5 RE (2x);
- cable (N)HXCHX E90 4x50 RM/25 (2x);
- cable (N)HXCHX E90 4x2,5 RE/2,5 (2x);
- cable JE-H(St)H E30 2x2x0,8 (2x).

PRAKAB cables

- cable (N)HXH FE180 E90 4x50 RM (2x);
- cable (N)HXH FE180 E90 4x1,5 RE (2x);
- cable (N)HXCH FE180 E30 4x50 RM/25 (2x);
- cable (N)HXCH FE180 E30 4x1,5 RE/1,5 (2x);
- cable (N)HXH FE180 E30 4x50 RM (2x);
- cable (N)HXH FE180 E30 4x1,5 RE (2x);
- cable (N)HXCH FE180 E90 4x50 RM/25(2x);
- cable (N)HXCH FE180 E90 4x1,5 RE/1,5 (2x);
- cable JE-H(St)H FE180 E90 2x2x0,8 (2x).

The length of supporting constructions and cables was 5,5 m, 4 m from that was exposed to fire. Power and communication cables were fixed to the steel sheet bearing systems in the points of allowed bending radius by steel clamps according to the cable diameter.

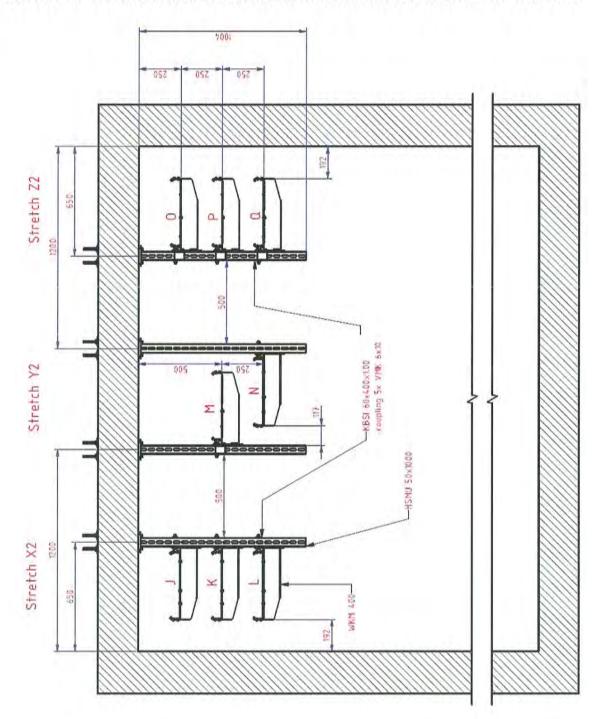


3. TEST REPORTS AND EXTENDED APPLICATION REPORTS IN SUPPORT OF CLASSIFICATION

3.1 TEST REPORTS AND EXTENDED APPLICATION REPORTS

No.	Name of laboratory	Name of sponsor	Test report No.	Date of the test	Test method
[1]	FIRES, s.r.o., Batizovce, SK	VERGOKAN, Meersbloem Melden 16, 9700 Oudenaarde, Belgium	FIRES-FR- 119-11-AUNE	02. 06. 2011	DIN 4102 – 12:1998-11

3.2 LAYOUT OF THE SUPPORTING CONSTRUCTION DURING THE COURSE OF THE TEST





3.3 TEST RESULTS

Power cables

Specimen No.	Cables - Manufacturer	Stretch/ support	Time to first failure / interruption of conductor
1	cable (N)HXH-J E30 4x50 RM - Prysmian		91 minutes
2	cable (N)HXH-J E30 4x50 RM - Prysmian	X2 - J	91 minutes
3	cable (N)HXH-J E30 4x1,5 RE - Prysmian	tray KBSI	31 minutes
4	cable (N)HXH-J E30 4x1,5 RE - Prysmian	uay Kosi	39 minutes
5	cable (N)HXCH E30 4x50 RM/25 - Prysmian	X2 - K	83 minutes
6	cable (N)HXCH E30 4x50 RM/25 - Prysmian	12-N	93 minutes
7	cable (N)HXCH E30 4x1,5 RE/1,5 - Prysmian	tray KBSI	39 minutes
8	cable (N)HXCH E30 4x1,5 RE/1,5 - Prysmian	uay Kool	93 minutes no failure / interruption
9	cable (N)HXHX-J E90 4x50 RM - Prysmian	VO I	93 minutes no failure / interruption
10	cable (N)HXHX-J E90 4x50 RM - Prysmian	X2 - L	93 minutes no failure / interruption
11	cable (N)HXHX-J E90 4x1,5 RE - Prysmian	tray KBSI	93 minutes no failure / interruption
12	cable (N)HXHX-J E90 4x1,5 RE - Prysmian	tray NBSI	93 minutes no failure / interruption
13	cable (N)HXCHX E90 4x50 RM/25 - Prysmian	¥0.14	93 minutes no failure / interruption
14	cable (N)HXCHX E90 4x50 RM/25 - Prysmian	Y2 - M	93 minutes no failure / interruption
15	cable (N)HXCHX E90 4x2,5 RE/2,5 - Prysmian	trou KPCI	93 minutes no failure / interruption
16	cable (N)HXCHX E90 4x2,5 RE/2,5 - Prysmian	tray KBSI	93 minutes no failure / interruption
17	cable (N)HXH FE180 E90 4x50 RM - Prakab	10 11	93 minutes no failure / interruption
18	cable (N)HXH FE180 E90 4x50 RM - Prakab	Y2 - N	76 minutes
19	cable (N)HXH FE180 E90 4x1,5 RE - Prakab	trou KBCL	93 minutes no failure / interruption
20	cable (N)HXH FE180 E90 4x1,5 RE - Prakab	tray KBSI	93 minutes no failure / interruption
21	cable (N)HXCH FE180 E30 4x50 RM/25 - Prakab		79 minutes
22	cable (N)HXCH FE180 E30 4x50 RM/25 - Prakab	70 0	93 minutes no failure / interruption
23	cable (N)HXCH FE180 E30 4x1,5 RE/1,5 - Prakab	Z2 - 0 /	88 minutes
24	cable (N)HXCH FE180 E30 4x1,5 RE/1,5 - Prakab	tray KBSI	93 minutes no failure / interruption
25	cable (N)HXH FE180 E30 4x50 RM - Prakab		86 minutes
26	cable (N)HXH FE180 E30 4x50 RM - Prakab	Z2 - P	93 minutes no failure / interruption
27	cable (N)HXH FE180 E30 4x1,5 RE - Prakab	1	93 minutes no failure / interruption
28	cable (N)HXH FE180 E30 4x1,5 RE - Prakab	tray KBSI	93 minutes no failure / interruption
29	cable (N)HXCH FE180 E90 4x50 RM/25 - Prakab	· · · · · · · · · ·	73 minutes
30	cable (N)HXCH FE180 E90 4x50 RM/25 - Prakab	70.0	93 minutes
31	cable (N)HXCH FE180 E90 4x1,5 RE/1,5 - Prakab	Z2 - Q	83 minutes
32	cable (N)HXCH FE180 E90 4x1,5 RE/1,5 - Prakab	tray KBSI	93 minutes no failure / interruption

Communication cables

Specimen No.	Cables - Manufacturer	Stretch / support	Time to first failure / interruption of conductor
52	cable JE-H(St)H E30 2x2x0,8 – Prysmian	X2 - J / tray KBSI	93 minutes no failure / interruption
53	cable JE-H(St)H E30 2x2x0,8 - Prysmian	X2 - K / tray KBSI	65 minutes
54	cable JE-H(St)H FE180 E90 2x2x0,8 – Prakab	Y2 - N / tray KBSI	66 minutes
55	cable JE-H(St)H FE180 E90 2x2x0,8 - Prakab	Z2 - Q / tray KBSI	56 minutes



The test was terminated in 94th minute at the request of test sponsor.

Specimens S1 – S51 were tested by three-phase voltage supply 3 x 230/400V with bulbs 240V / 60 W. Specimens S52 – S55 were tested by one-phase voltage supply 1 x 110V with LED diodes 3V /0,03W. Circuit breakers with rating 3 A were used.

4. CLASSIFICATION AND FIELD OF APPLICATION

4.1 REFERENCE OF CLASSIFICATION

This classification has been carried out in accordance with clause 3.2 of STN 92 0205: 2010, clause 11 of ZP-27/2008 PAVUS and clause 3.2 of DIN 4102 – 12: 1998-11.

4.2 CLASSIFICATION ACCORDING TO STN 92 0205

Tray / max. span / max. loading	Cable - Manufacturer	Type of tested cable, single cross-sections and number of conductors	Classification	Range of cables (by cross-sections and number of conductors)
TRAY KBSI (60x400x1,0) / 1500 mm / 20 kg.m ⁻¹	cable (N)HXH-J E30 -	(N)HXH-J E30 4x1,5 RE	PS 30	$n x \ge 1,5 mm^2$ $n \ge 2$
	Prysmian	(N)HXH-J E30 4x50 RM	PS 90	n x 50 mm ² n ≥ 2
	cable (N)HXCH E30 -	(N)HXCH E30 4x1,5 RE/1,5	PS 30	n x ≥ 1,5 mm ² n ≥ 2
	Prysmian	(N)HXCH E30 4x50 RM/25	PS 60	n x 50 mm² n ≥ 2
	/ cable (N)HXHX-J E90 - Prysmian	(N)HXHX-J E90 4x1,5 RE (N)HXHX-J E90 4x50 RM	PS 90	n x ≥ 1,5 mm² n ≥ 2
	cable (N)HXCHX E90 - Prysmian	(N)HXCHX E90 4x2,5 RE/2,5 (N)HXCHX E90 4x50 RM/25	PS 90	n x ≥ 2,5 mm² n ≥ 2
	cable JE-H(St)H E30 - Prysmian	JE-H(St)H E30 2x2x0,8	PS 60	n x 2 x ≥ 0,8 mm (n ≥ 2)
TRAY KBSI (60x400x1,0) / 1500 mm /	cable (N)HXH FE180 E90 - Prakab	(N)HXH FE180 E90 4x1,5 RE	PS 90	n x 1,5 mm ² n ≥ 2
		(N)HXH FE180 E90 4x50 RM	PS 60	n x ≥ 1,5 mm ² n ≥ 2
	cable (N)HXCH FE180 E30 - Prakab	(N)HXCH FE180 E30 4x1,5 RE/1,5 (N)HXCH FE180 E30 4x50 RM/25	PS 60	n x ≥ 1,5 mm² n ≥ 2
	cable (N)HXH FE180 E30 - Prakab	(N)HXH FE180 E30 4x1,5 RE	PS 90	n x 1,5 mm ² n ≥ 2
20 kg.m ⁻¹		(N)HXH FE180 E30 4x50 RM	PS 60	$n x \ge 1,5 mm^2$ $n \ge 2$
	cable (N)HXCH FE180 E90 - Prakab	(N)HXCH FE180 E90 4x1,5 RE/1,5 (N)HXCH FE180 E90 4x50 RM/25	PS 60	n x ≥ 1,5 mm² n ≥ 2
	cable JE-H(St)H FE180 E90 – Prakab	JE-H(St)H FE180 E90 2x2x0,8	PS 45	n x 2 x ≥ 0,8 mm (n ≥ 2)



4.3 CLASSIFICATION ACCORDING TO ZP-27/2008 PAVUS

Tray / max. span / max. loading	Cable - Manufacturer	Type of tested cable, single cross-sections and number of conductors	Classification	Range of cables (by cross-sections and number of conductors)
	cable (N)HXH-J E30 - Prysmian	(N)HXH-J E30 4x1,5 RE	P 30-R	$n x \ge 1,5 mm^2$ $n \ge 2$
		(N)HXH-J E30 4x50 RM	P 90-R	n x 50 mm² n ≥ 2
	cable (N)HXCH E30 -	(N)HXCH E30 4x1,5 RE/1,5	P 30-R	n x ≥ 1,5 mm ² n ≥ 2
TRAY KBSI (60x400x1,0) / 1500 mm / 20 kg.m ⁻¹	Prysmian	(N)HXCH E30 4x50 RM/25	P 60-R	n x 50 mm ² n ≥ 2
)/	(N)HXHX-J E90 4x1,5 RE (N)HXHX-J E90 4x50 RM	P 90-R	n x ≥ 1,5 mm ² n ≥ 2
	cable (N)HXCHX E90 - Prysmian	(N)HXCHX E90 4x2,5 RE/2,5 (N)HXCHX E90 4x50 RM/25	P 90-R	n x ≥ 2,5 mm² n ≥ 2
	cable JE-H(St)H E30 - Prysmian	JE-H(St)H E30 2x2x0,8	P 60-R	n x 2 x ≥ 0,8 mm (n ≥ 2)
TRAY KBSI (60x400x1,0) / 1500 mm / 20 kg.m ⁻¹	cable (N)HXH FE180 E90 - Prakab	(N)HXH FE180 E90 4x1,5 RE	P 90-R	n x 1,5 mm ² n ≥ 2
		(N)HXH FE180 E90 4x50 RM	P 60-R	$n x \ge 1,5 mm^2$ $n \ge 2$
	cable (N)HXCH FE180 E30 - Prakab	(N)HXCH FE180 E30 4x1,5 RE/1,5 (N)HXCH FE180 E30	P 60-R	n x ≥ 1,5 mm² n ≥ 2
	cable (N)HXH FE180 E30 - Prakab	4x50 RM/25 (N)HXH FE180 E30 4x1,5 RE	P 90-R	n x 1,5 mm ² n ≥ 2
		(N)HXH FE180 E30 4x50 RM	P 60-R	$n \ge 1,5 \text{ mm}^2$ $n \ge 2$
	cable (N)HXCH FE180 E90 - Prakab	(N)HXCH FE180 E90 4x1,5 RE/1,5 (N)HXCH FE180 E90 4x50 RM/25	P 60-R	n x ≥ 1,5 mm² n ≥ 2
	cable JE-H(St)H FE180 E90 – Prakab	JE-H(St)H FE180 E90 2x2x0,8	P 30-R	n x 2 x ≥ 0,8 mm (n ≥ 2)

4.4 CLASSIFICATION ACCORDING TO DIN 4102 - 12: 1998-11

Tray / max. span / max. loading	Cable - Manufacturer	Type of tested cable, single cross-sections and number of conductors	Classification	Range of cables (by cross-sections and number of conductors)
TRAY KBSI (60x400x1,0) / 1500 mm / 20 kg.m ⁻¹	cable (N)HXH-J E30 - Prysmian cable (N)HXCH E30 -	(N)HXH-J E30 4x1,5 RE	E 30	$n x \ge 1,5 mm^2$ $n \ge 2$
		(N)HXH-J E30 4x50 RM	E 90	n x 50 mm² n ≥ 2
		(N)HXCH E30 4x1,5 RE/1,5	E 30	n x ≥ 1,5 mm ² n ≥ 2
	20 Ng.11	Prysmian	(N)HXCH E30 4x50 RM/25	E 60

FIRES 149/S-27/10/2009-E



Tray / max. span / max. loading	Cable - Manufacturer	Type of tested cable, single cross-sections and number of conductors	Classification	Range of cables (by cross-sections and number of conductors)
TRAY KBSI (60x400x1,0) / 1500 mm / 20 kg.m ⁻¹	cable (N)HXHX-J E90 - Prysmian	(N)HXHX-J E90 4x1,5 RE (N)HXHX-J E90 4x50 RM	E 90	n x ≥ 1,5 mm² n ≥ 2
	cable (N)HXCHX E90 - Prysmian	(N)HXCHX E90 4x2,5 RE/2,5 (N)HXCHX E90 4x50 RM/25	E 90	$n \ge 2,5 \text{ mm}^2$ $n \ge 2$
	cable JE-H(St)H E30 - Prysmian	JE-H(St)H E30 2x2x0,8	E 60	n x 2 x ≥ 0,8 mm (n ≥ 2)
TRAY KBSI (60x400x1,0) / 1500 mm / 20 kg.m ⁻¹	cable (N)HXH FE180 E90 - Prakab	(N)HXH FE180 E90 4x1,5 RE	E 90	n x 1,5 mm ² n ≥ 2
		(N)HXH FE180 E90 4x50 RM	E 60	n x ≥ 1,5 mm² n ≥ 2
	cable (N)HXCH FE180 E30 - Prakab	(N)HXCH FE180 E30 4x1,5 RE/1,5 (N)HXCH FE180 E30 4x50 RM/25	E 60	n x ≥ 1,5 mm² n ≥ 2
	cable (N)HXH FE180 E30 - Prakab	(N)HXH FE180 E30 4x1,5 RE	E 90	n x 1,5 mm² n ≥ 2
		(N)HXH FE180 E30 4x50 RM	E 60	n x ≥ 1,5 mm² n ≥ 2
	cable (N)HXCH FE180 E90 - Prakab	(N)HXCH FE180 E90 4x1,5 RE/1,5 (N)HXCH FE180 E90 4x50 RM/25	E 60	n x ≥ 1,5 mm² n ≥ 2
	cable JE-H(St)H FE180 E90 – Prakab	JE-H(St)H FE180 E90 2x2x0,8	E 30	n x 2 x ≥ 0,8 mm (n ≥ 2)

5. FIELD OF APPLICATION

This classification is valid for the following end use applications:

- test results are applicable only for tested bearing systems;
- maximum span of supports of cable trays is 1500 mm;
- maximum loading of tray is 20 kg.m⁻¹;
- sufficient type of fixation of the head plates of U-shaped ceiling profiles to ceiling must be provided calculated to maximum loading of trays and span of supports;
- test results are applicable also for same supporting constructions with smaller spacing of steel U-shaped ceiling profiles and loading;
- test results are applicable also for smaller dimension range of same construction as tested;
- test results of cables in bearing systems from steel with coating services (galvanized) are applicable also for bearing systems from stainless steel or other coating services (pre-galvanized, hot-dipped);
- test results of cables in trays attached at ceiling are applicable also for cables placed in bearing system fixed to wall;
- test result is applicable to cable without connecting elements (e.g. sleeves and junction boxes);
- test result is applicable to welded head plate to steel U-shaped ceiling profiles;
- heavy joined steel brackets WKM... shall be fixed to steel U-shaped ceiling profiles HSMU from one or from two sides, providing the maximum loading of U-shaped ceiling profiles is not more than during the fire test and only if sufficient type of fixation of the head plates to ceiling is provided.



6. LIMITATIONS

Load-bearing construction elements for fixing of cable systems must be proved for at least the same fire resistance compare to classified function in fire of cable system.

This classification document does not represent type approval or certification of the product.

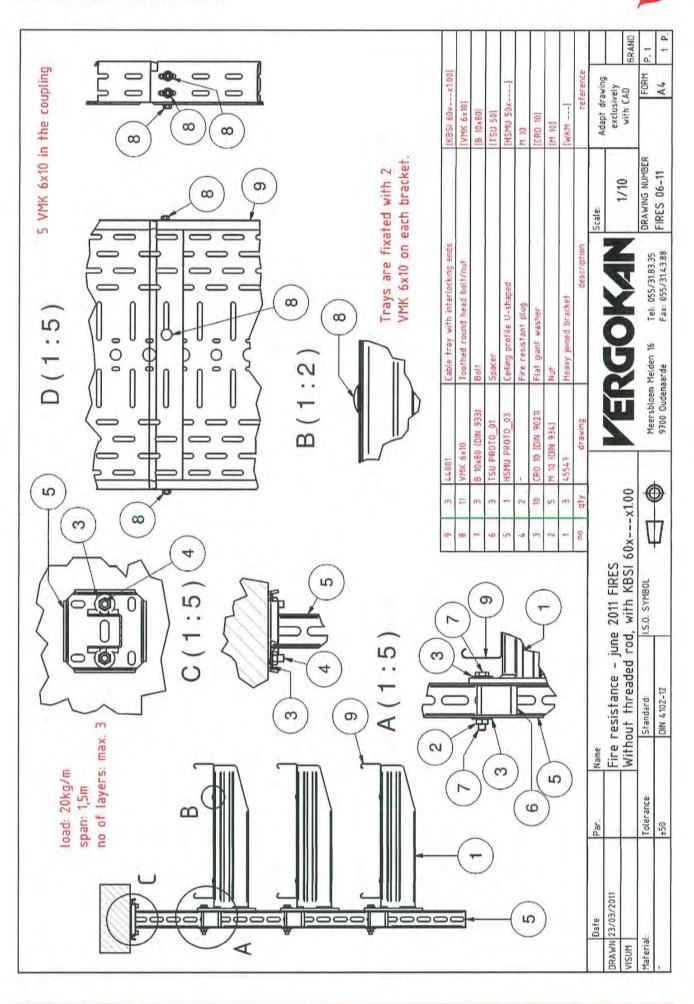
The classification is valid until 06. 07. 2016 provided that the product, field of application and standards and regulations are not changed.

Approved:

Ing. Štefan Rástocký head of the testing laboratory



Bc. Dávid Šubert technician of the testing laboratory



Complete report of Fires certificate can be acquired on demand.

Notifikovaná osoba č. 1396 Notified Body No. 1396

> Člen EGOLF EGOLF Member

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inšpekcie vnútropodnikovej kontroly inspection of factory production control

skúšky a klasifikácia požiarnej odolnosti, reakcie na oheň, mechanicko-fyzikálnych vlastností testing and classification of fire resistance, reaction to fire, mechanical and physical properties

teoretické hodnotenie požiarnej odolnosti výrobkov calculations of fire resistance

> FIRES, s.r.o. Osloboditeľov 282 059 35 Batizovce Slovakia tel.: +421/52/775 22 98 fax: +421/52/788 14 12

IČO: 31701043 IČ DPH: SK2020517059

Ľudová banka, a.s. Poprad č.ú.: SK94 3100 0000 0043 1003 7608

S.r.o. zapísaná v Obchodnom registri Okresného súdu v Prešove, vložka č. 2093/P, oddiel: Sro. 2 0 JAN. 2016



· 1	Meersbloem Melden 16	
RESPONSIBLE	OUR REF.	BATIZOVCE
	i C E	Oudenaarde 9700 Belgium

Subject: Confirmation

This confirmation allows to:

- use the new type of spacer TSU50 instead of spacer HDTSU50,
- change the construction of tested console (base of console) type HDHSMU in accordance with drawings, which are part of this confirmation,

provided that, rest parameters are without changes.

This confirmation is valid only with appropriate classification report:

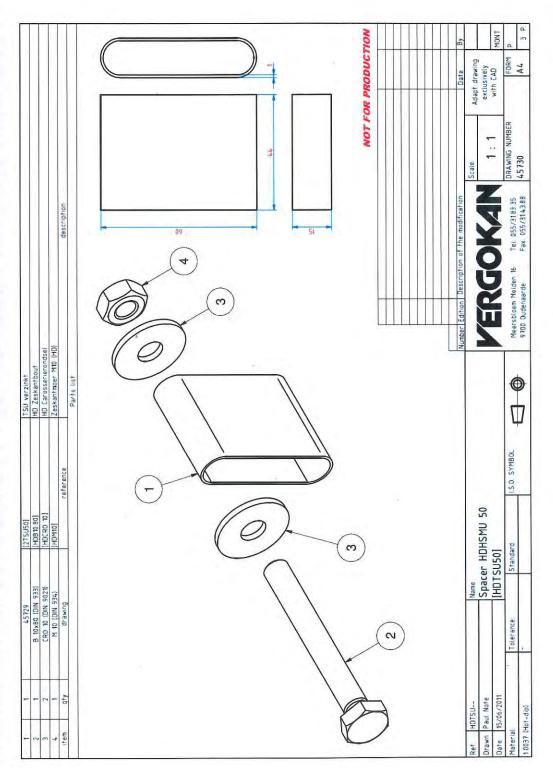
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The construction contractor is solely responsible for proper preparation.

Best regards Bc. Dávid Šubert technician of testing laboratory

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skúšky a klasifikácia požiarnej odolnosti, reakcie na oheň, mechanicko-fyzikálnych vlastností testing and classification of fire resistance, reaction to fire, mechanical and physical properties

teoretické hodnotenie požiarnej odolnosti výrobkov calculations of fire resistance

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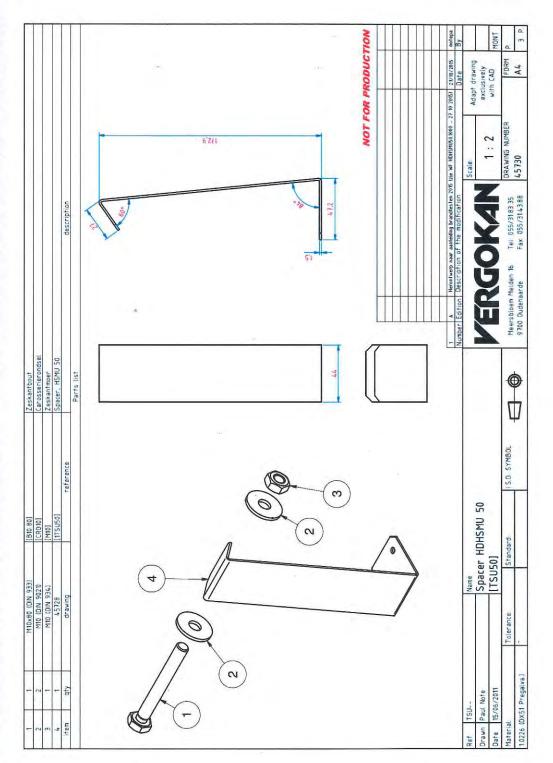
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FIRES 204/F-30/11/2015





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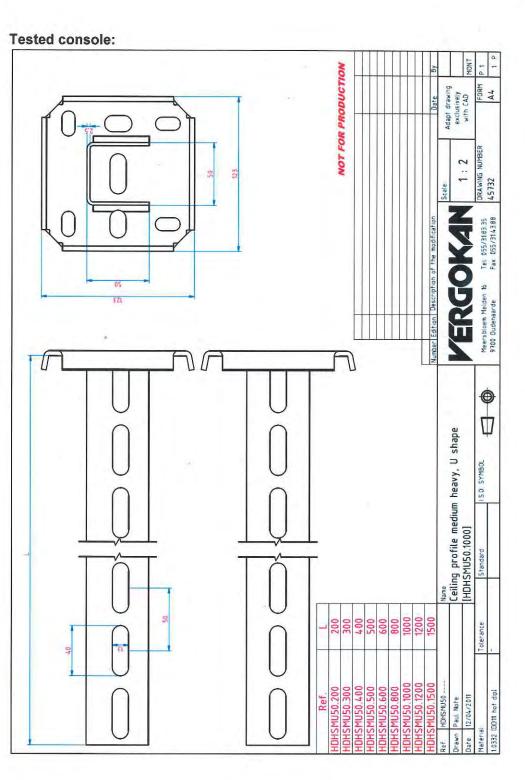
teoretické hodnotenie požiarnej odolnosti výrobkov calculations of fire resistance

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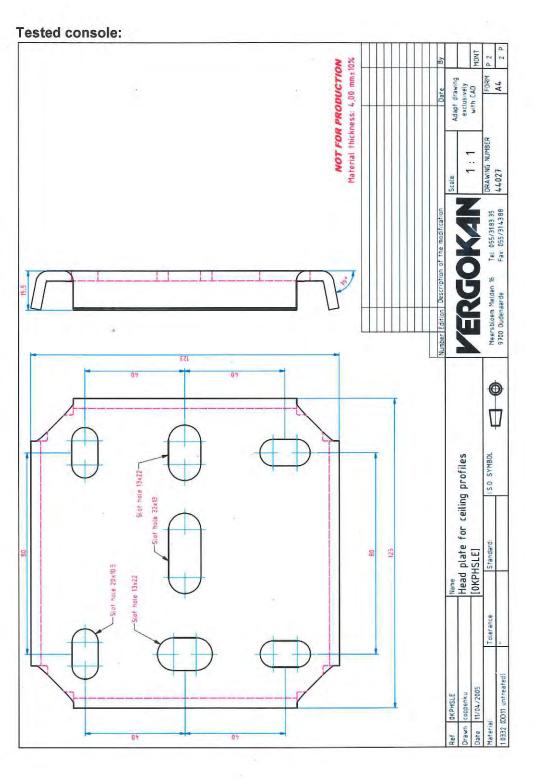
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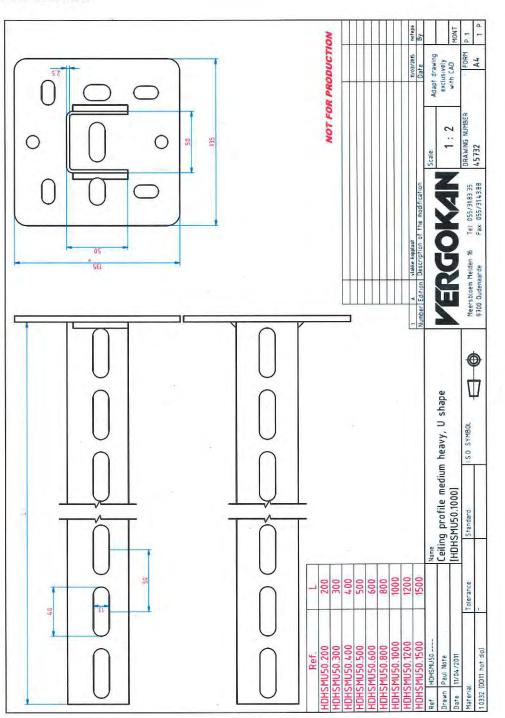
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