

FUNCTION IN FIRE EXPERT JUDGEMENT REPORT WITH CLASSIFICATION FIRES-JR-061-12-NURE

Cable bearing system VERGOKAN with cables PRYSMIAN, PRAKAB and FABER



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FUNCTION IN FIRE EXPERT JUDGEMENT REPORT WITH CLASSIFICATION

FIRES-JR-061-12-NURE

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

Sponsor: VERGOKAN
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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1. INTRODUCTION

This expert judgement report with classification defines the function in fire classification assigned to element: cable bearing system VERGOKAN with cables PRYSMIAN, PRAKAB and FABER 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.

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).

FABER cables

- cable (N)HXH FE180/E90 FACAB 4x50 RM (2x);
- cable (N)HXH FE180/E90 FACAB 4x1,5 RE (2x);
- cable (N)HXCH FE180/E30 FACAB 4x50 RM/25 (2x);
- cable (N)HXCH FE180/E30 FACAB 4x1,5 RE/1,5 (2x);
- cable (N)HXH FE180/E30 FACAB 4x50 RM (2x);
- cable (N)HXH FE180/E30 FACAB 4x1,5 RE (2x);
- cable (N)HXCH FE180/E90 FACAB 4x50 RM/25(2x);
- cable (N)HXCH FE180/E90 FACAB 4x1,5 RE/1,5 (2x);

PRAKAB cables

- 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.

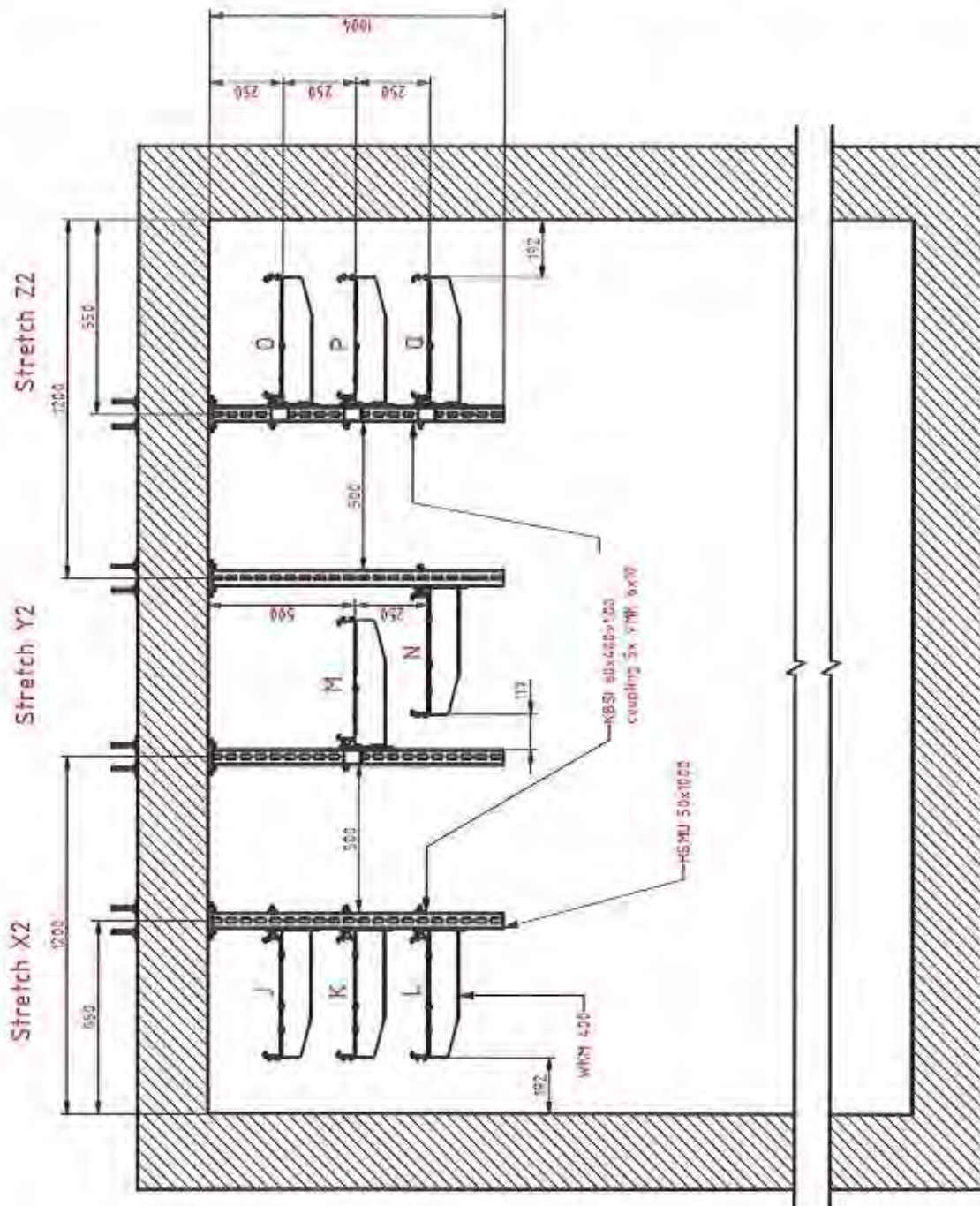


3. TEST REPORTS AND EXTENDED APPLICATION REPORTS IN SUPPORT OF CLASSIFICATION

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	X2 - J / tray KBSI	91 minutes
2	cable (N)HXH-J E30 4x50 RM - Prysmian		91 minutes
3	cable (N)HXH-J E30 4x1,5 RE - Prysmian		31 minutes
4	cable (N)HXH-J E30 4x1,5 RE - Prysmian		39 minutes
5	cable (N)HXCH E30 4x50 RM/25 - Prysmian	X2 - K / tray KBSI	83 minutes
6	cable (N)HXCH E30 4x50 RM/25 - Prysmian		93 minutes
7	cable (N)HXCH E30 4x1,5 RE/1,5 - Prysmian		39 minutes
8	cable (N)HXCH E30 4x1,5 RE/1,5 - Prysmian		93 minutes no failure / interruption
9	cable (N)HXHX-J E90 4x50 RM - Prysmian	X2 - L / tray KBSI	93 minutes no failure / interruption
10	cable (N)HXHX-J E90 4x50 RM - Prysmian		93 minutes no failure / interruption
11	cable (N)HXHX-J E90 4x1,5 RE - Prysmian		93 minutes no failure / interruption
12	cable (N)HXHX-J E90 4x1,5 RE - Prysmian		93 minutes no failure / interruption
13	cable (N)HXCHX E90 4x50 RM/25 - Prysmian	Y2 - M / tray KBSI	93 minutes no failure / interruption
14	cable (N)HXCHX E90 4x50 RM/25 - Prysmian		93 minutes no failure / interruption
15	cable (N)HXCHX E90 4x2,5 RE/2,5 - Prysmian		93 minutes no failure / interruption
16	cable (N)HXCHX E90 4x2,5 RE/2,5 - Prysmian		93 minutes no failure / interruption
17	cable (N)HXH FE180/E90 FACAB 4x50 RM - FABER	Y2 - N / tray KBSI	93 minutes no failure / interruption
18	cable (N)HXH FE180/E90 FACAB 4x50 RM - FABER		76 minutes
19	cable (N)HXH FE180/E90 FACAB 4x1,5 RE - FABER		93 minutes no failure / interruption
20	cable (N)HXH FE180/E90 FACAB 4x1,5 RE - FABER		93 minutes no failure / interruption
21	cable (N)HXCH FE180/E30 FACAB 4x50 RM/25 - FABER	Z2 - O / tray KBSI	79 minutes
22	cable (N)HXCH FE180/E30 FACAB 4x50 RM/25 - FABER		93 minutes no failure / interruption
23	cable (N)HXCH FE180/E30 FACAB 4x1,5 RE/1,5 - FABER		88 minutes
24	cable (N)HXCH FE180/E30 FACAB 4x1,5 RE/1,5 - FABER		93 minutes no failure / interruption
25	cable (N)HXH FE180/E30 FACAB 4x50 RM - FABER	Z2 - P / tray KBSI	86 minutes
26	cable (N)HXH FE180/E30 FACAB 4x50 RM - FABER		93 minutes no failure / interruption
27	cable (N)HXH FE180/E30 FACAB 4x1,5 RE - FABER		93 minutes no failure / interruption
28	cable (N)HXH FE180/E30 FACAB 4x1,5 RE - FABER		93 minutes no failure / interruption
29	cable (N)HXCH FE180/E90 FACAB 4x50 RM/25 - FABER	Z2 - Q / tray KBSI	73 minutes
30	cable (N)HXCH FE180/E90 FACAB 4x50 RM/25 - FABER		93 minutes
31	cable (N)HXCH FE180/E90 FACAB 4x1,5 RE/1,5 - FABER		83 minutes
32	cable (N)HXCH FE180/E90 FACAB 4x1,5 RE/1,5 - FABER		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 - Prysmian	(N)HXH-J E30 4x1,5 RE	PS 30	$n \times \geq 1,5 \text{ mm}^2$ $n \geq 2$
		(N)HXH-J E30 4x50 RM	PS 90	$n \times 50 \text{ mm}^2$ $n \geq 2$
	cable (N)HXCH E30 - Prysmian	(N)HXCH E30 4x1,5 RE/1,5	PS 30	$n \times \geq 1,5 \text{ mm}^2$ $n \geq 2$
		(N)HXCH E30 4x50 RM/25	PS 60	$n \times 50 \text{ mm}^2$ $n \geq 2$
	cable (N)HXHX-J E90 - Prysmian	(N)HXHX-J E90 4x1,5 RE	PS 90	$n \times \geq 1,5 \text{ mm}^2$ $n \geq 2$
		(N)HXHX-J E90 4x50 RM		
	cable (N)HXCHX E90 - Prysmian	(N)HXCHX E90 4x2,5 RE/2,5	PS 90	$n \times \geq 2,5 \text{ mm}^2$ $n \geq 2$
(N)HXCHX E90 4x50 RM/25				
cable JE-H(St)H E30 - Prysmian	JE-H(St)H E30 2x2x0,8	PS 60	$n \times 2 \times \geq 0,8 \text{ mm}$ ($n \geq 2$)	
TRAY KBSI (60x400x1,0) / 1500 mm / 20 kg.m ⁻¹	cable (N)HXH FE180/E90 FACAB - FABER	(N)HXH FE180/E90 FACAB 4x1,5 RE	PS 90	$n \times 1,5 \text{ mm}^2$ $n \geq 2$
		(N)HXH FE180/E90 FACAB 4x50 RM	PS 60	$n \times \geq 1,5 \text{ mm}^2$ $n \geq 2$
	cable (N)HXCH FE180/E30 FACAB - FABER	(N)HXCH FE180/E30 FACAB 4x1,5 RE/1,5	PS 60	$n \times \geq 1,5 \text{ mm}^2$ $n \geq 2$
		(N)HXCH FE180/E30 FACAB 4x50 RM/25		
	cable (N)HXH FE180/E30 FACAB - FABER	(N)HXH FE180/E30 FACAB 4x1,5 RE	PS 90	$n \times 1,5 \text{ mm}^2$ $n \geq 2$
		(N)HXH FE180/E30 FACAB 4x50 RM	PS 60	$n \times \geq 1,5 \text{ mm}^2$ $n \geq 2$
	cable (N)HXCH FE180/E90 FACAB - FABER	(N)HXCH FE180/E90 FACAB 4x1,5 RE/1,5	PS 60	$n \times \geq 1,5 \text{ mm}^2$ $n \geq 2$
(N)HXCH FE180/E90 FACAB 4x50 RM/25				
cable JE-H(St)H FE180 E90 – Prakab	JE-H(St)H FE180 E90 2x2x0,8	PS 45	$n \times 2 \times \geq 0,8 \text{ mm}$ ($n \geq 2$)	



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)
TRAY KBSI (60x400x1,0) / 1500 mm / 20 kg.m ⁻¹	cable (N)HXH-J E30 - Prysmian	(N)HXH-J E30 4x1,5 RE	P 30-R	n x ≥ 1,5 mm ² n ≥ 2
		(N)HXH-J E30 4x50 RM	P 90-R	n x 50 mm ² n ≥ 2
	cable (N)HXCH E30 - Prysmian	(N)HXCH E30 4x1,5 RE/1,5	P 30-R	n x ≥ 1,5 mm ² n ≥ 2
		(N)HXCH E30 4x50 RM/25	P 60-R	n x 50 mm ² n ≥ 2
	cable (N)HXHX-J E90 - Prysmian	(N)HXHX-J E90 4x1,5 RE	P 90-R	n x ≥ 1,5 mm ² n ≥ 2
		(N)HXHX-J E90 4x50 RM		
	cable (N)HXCHX E90 - Prysmian	(N)HXCHX E90 4x2,5 RE/2,5	P 90-R	n x ≥ 2,5 mm ² n ≥ 2
(N)HXCHX E90 4x50 RM/25				
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 FACAB - FABER	(N)HXH FE180/E90 FACAB 4x1,5 RE	P 90-R	n x 1,5 mm ² n ≥ 2
		(N)HXH FE180/E90 FACAB 4x50 RM	P 60-R	n x ≥ 1,5 mm ² n ≥ 2
	cable (N)HXCH FE180/E30 FACAB - FABER	(N)HXCH FE180/E30 FACAB 4x1,5 RE/1,5	P 60-R	n x ≥ 1,5 mm ² n ≥ 2
		(N)HXCH FE180/E30 FACAB 4x50 RM/25		
	cable (N)HXH FE180/E30 FACAB - FABER	(N)HXH FE180/E30 FACAB 4x1,5 RE	P 90-R	n x 1,5 mm ² n ≥ 2
		(N)HXH FE180/E30 FACAB 4x50 RM	P 60-R	n x ≥ 1,5 mm ² n ≥ 2
	cable (N)HXCH FE180/E90 FACAB - FABER	(N)HXCH FE180/E90 FACAB 4x1,5 RE/1,5	P 60-R	n x ≥ 1,5 mm ² n ≥ 2
(N)HXCH FE180/E90 FACAB 4x50 RM/25				
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	(N)HXH-J E30 4x1,5 RE	E 30	n x ≥ 1,5 mm ² n ≥ 2
		(N)HXH-J E30 4x50 RM	E 90	n x 50 mm ² n ≥ 2
	cable (N)HXCH E30 - Prysmian	(N)HXCH E30 4x1,5 RE/1,5	E 30	n x ≥ 1,5 mm ² n ≥ 2
		(N)HXCH E30 4x50 RM/25	E 60	n x 50 mm ² n ≥ 2



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	E 90	n x ≥ 1,5 mm ² n ≥ 2
		(N)HXHX-J E90 4x50 RM		
	cable (N)HXCHX E90 - Prysmian	(N)HXCHX E90 4x2,5 RE/2,5	E 90	n x ≥ 2,5 mm ² n ≥ 2
		(N)HXCHX E90 4x50 RM/25		
	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 FACAB - FABER	(N)HXH FE180/E90 FACAB 4x1,5 RE	E 90	n x 1,5 mm ² n ≥ 2
		(N)HXH FE180/E90 FACAB 4x50 RM	E 60	n x ≥ 1,5 mm ² n ≥ 2
	cable (N)HXCH FE180/E30 FACAB - FABER	(N)HXCH FE180/E30 FACAB 4x1,5 RE/1,5	E 60	n x ≥ 1,5 mm ² n ≥ 2
		(N)HXCH FE180/E30 FACAB 4x50 RM/25		
	cable (N)HXH FE180/E30 FACAB - FABER	(N)HXH FE180/E30 FACAB 4x1,5 RE	E 90	n x 1,5 mm ² n ≥ 2
		(N)HXH FE180/E30 FACAB 4x50 RM	E 60	n x ≥ 1,5 mm ² n ≥ 2
	cable (N)HXCH FE180/E90 FACAB - FABER	(N)HXCH FE180/E90 FACAB 4x1,5 RE/1,5	E 60	n x ≥ 1,5 mm ² n ≥ 2
		(N)HXCH FE180/E90 FACAB 4x50 RM/25		
	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)

6. 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.

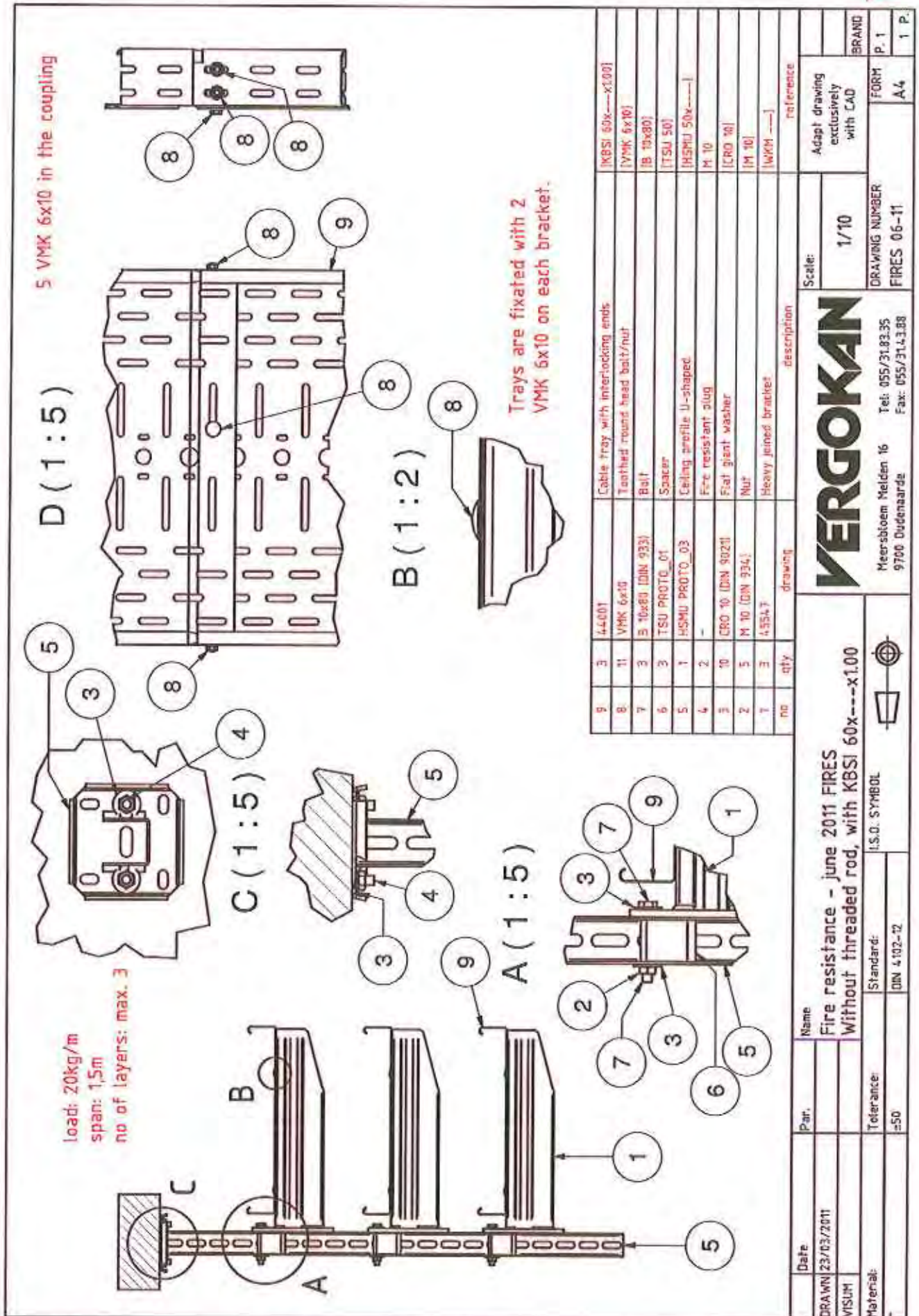
Approved:

Signed:

Ing. Štefan Rástocký
head of the testing laboratory



Bc. Dávid Šubert
technician of the testing laboratory



Autorizovaná osoba
MVRR SR SK01
Approved Body No. SK01

Notifikovaná osoba č. 1396
Notified Body No. 1396

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EGOLF Member

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Product Certification Body

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Akreditované
skúšobné laboratórium
Accredited Testing Laboratory

preukazovanie zhody
stavebných výrobkov
conformity attestation
of construction products

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

Ludová 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.

www.fires.sk

20 JAN. 2016



VERGOKAN

Meersbloem Melden 16
Oudenaarde 9700
Belgium

YOUR REF.

RESPONSIBLE

Šubert

OUR REF.

Su_01_12_2015

BATIZOVCE

01. 12. 2015

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:

FIRES-JR-037-11-NURD/E
FIRES-JR-038-11-NURD/E
FIRES-JR-051-11-NURD/E
FIRES-JR-052-11-NURD/E
FIRES-JR-061-11-NURE
FIRES-JR-062-11-NURE

The construction contractor is solely responsible for proper preparation.

Best regards Bc. Dávid Šubert
technician of testing laboratory



FIRES 204/F-30/11/2015

Autorizovaná osoba
MVRR SR SK01
Approved Body No. SK01

Notifikovaná osoba č. 1396
Notified Body No. 1396

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conformity attestation
of construction products

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
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calculations of fire resistance

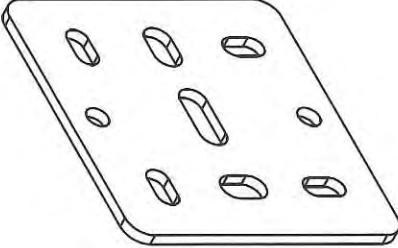
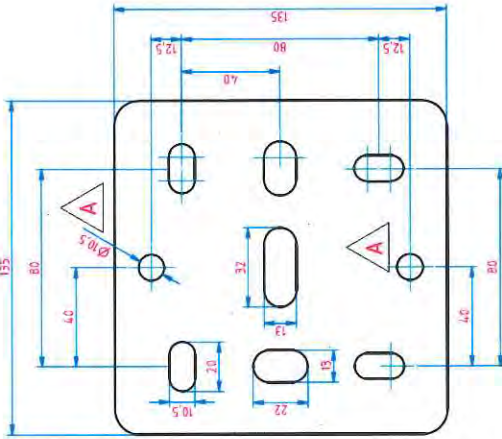

FIRES, s.r.o.
Osloboditeľov 282
059 35 Batizovce
Slovakia
tel.: +421/52/775 22 98
fax: +421/52/788 14 12

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.

New console:

NOT FOR PRODUCTION

SC	By
11/06/2014	

Adapt drawing exclusively with CAD	FORM P 2
Scale 1 : 2	DRAWING NUMBER 46059
VERGOKAN	
Meerslootweg 16 Tel. 055/3183 35	
9700 Oudehaarde Fax. 055/314 388	

Name Head plate type HSLE3---	I.S.O. SYMBOL
Drawn [OKPHSLE3]	Standard
Date 18/03/2014	Tolerance
Material 1.0332 (DD11 untreated)	Symbol