


FUNCTION IN FIRE EXPERT JUDGEMENT REPORT WITH CLASSIFICATION FIRES-JR-051-11-NURE Issue 2

Cable bearing system VERGOKAN with cables DÄTWYLER and PRYSMIAN



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FUNCTION IN FIRE EXPERT JUDGEMENT REPORT WITH CLASSIFICATION

FIRES-JR-051-11-NURE Issue 2

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

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 DÄTWYLER and PRYSMIAN 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-051-11-NURE, issue by FIRES, s.r.o., Batizovce on 31. 08. 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 300 x 0,75) mm fixed to heavy joined steel brackets WKM 300 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:

DÄTWYLER cables (manufacturer: Dätwyler AG, Gotthardstrasse 31, CH-6460 Altdorf, Switzerland):

- cable (N)HXH FE180 E30-E60 4x50 RM (2x);
- cable (N)HXH FE180 E30-E60 4x1,5 RE (2x);
- cable (N)HXCH FE180 E30-E60 4x50 RM/25 (2x);
- cable (N)HXCH FE180 E30-E60 4x1,5 RE/1,5 (2x);
- cable (N)HXH FE180 E90 4x50 RM (2x);
- cable (N)HXH FE180 E90 4x1,5 RE (2x);
- cable (N)HXCH FE180 E90 4x50 RM/25 (2x);
- cable (N)HXCH FE180 E90 4x2,5 RE/2,5 (2x);
- cable JE-H(St)H...Bd FE180 E30-E90 2x2x0,8 (2x);
- cable JE-H(St)HRH...Bd FE180 E30-E90 2x2x0,8 (2x).

PRYSMIAN cables (manufacturer: Prysmian, Viale Sarca 222, IT-20126 Milano, Italy):

- cable (N)HXH-J E30 4x50 RM (2x);
- cable (N)HXH-J E30 4x1,5 R (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).

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 trays in the points of allowed bending radius by steel clamps according to the cable diameter.

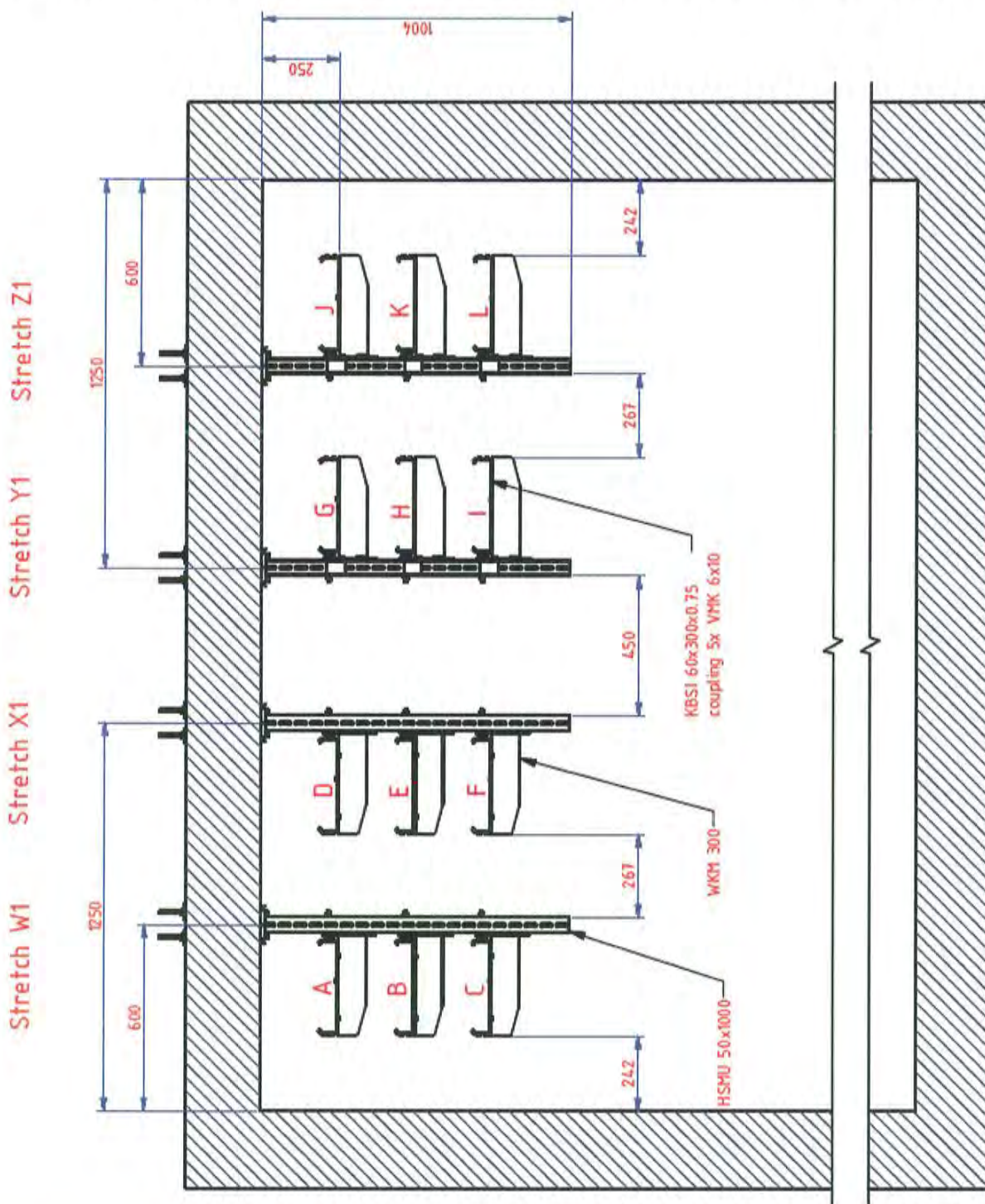


3. TEST REPORTS AND EXTENDED APPLICATION REPORTS IN SUPPORT OF CLASSIFICATION

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- 171-11-AUNE	17. 08. 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 DÄTWYLER:

Specimen No.	Cables DÄTWYLER	Stretch/ support	Time to first failure / interruption of conductor
S1	cable (N)HXCH FE180 E30-E60 4x50 RM/25	W1 - A / tray KBSI	93 minutes no failure / interruption
S2	cable (N)HXCH FE180 E30-E60 4x50 RM/25		92 minutes
S3	cable (N)HXCH FE180 E90 4x50 RM/25	W1 - B / tray KBSI	93 minutes no failure / interruption
S4	cable (N)HXCH FE180 E90 4x50 RM/25		93 minutes no failure / interruption
S5	cable (N)HXH FE180 E90 4x50 RM	W1 - C / tray KBSI	93 minutes no failure / interruption
S6	cable (N)HXH FE180 E90 4x50 RM		93 minutes no failure / interruption
S7	cable (N)HXH FE180 E30-E60 4x50 RM	X1 - D / tray KBSI	87 minutes
S8	cable (N)HXH FE180 E30-E60 4x50 RM		74 minutes
S9	cable (N)HXCH FE180 E30-E60 4x1,5 RE/1,5	X1 - E / tray KBSI	93 minutes no failure / interruption
S10	cable (N)HXCH FE180 E30-E60 4x1,5 RE/1,5		93 minutes no failure / interruption
S11	cable (N)HXH FE180 E30-E60 4x1,5 RE		93 minutes no failure / interruption
S12	cable (N)HXH FE180 E30-E60 4x1,5 RE		93 minutes no failure / interruption
S13	cable (N)HXCH FE180 E90 4x2,5 RE/2,5	X1 - F / tray KBSI	93 minutes no failure / interruption
S14	cable (N)HXCH FE180 E90 4x2,5 RE/2,5		93 minutes no failure / interruption
S15	cable (N)HXH FE180 E90 4x1,5 RE		93 minutes no failure / interruption
S16	cable (N)HXH FE180 E90 4x1,5 RE		93 minutes no failure / interruption

Power cables PRYSMIAN:

Specimen No.	Cables PRYSMIAN	Stretch/ support	Time to first failure / interruption of conductor
S17	cable (N)HXH-J E30 4x50 RM	Y1 - G / tray KBSI	83 minutes
S18	cable (N)HXH-J E30 4x50 RM		91 minutes
S19	cable (N)HXH-J E30 4x1,5 RE	Y1 - H / tray KBSI	73 minutes
S20	cable (N)HXH-J E30 4x1,5 RE		84 minutes
S21	cable (N)HXCH E30 4x1,5 RE/1,5		87 minutes
S22	cable (N)HXCH E30 4x1,5 RE/1,5		81 minutes
S23	cable (N)HXHX-J E90 4x1,5 RE	Y1 - I / tray KBSI	93 minutes no failure / interruption
S24	cable (N)HXHX-J E90 4x1,5 RE		93 minutes no failure / interruption
S25	cable (N)HXCHX E90 4x2,5 RE/2,5		93 minutes no failure / interruption
S26	cable (N)HXCHX E90 4x2,5 RE/2,5		93 minutes no failure / interruption
S27	cable (N)HXCH E30 4x50 RM/25	Z1 - J / tray KBSI	78 minutes
S28	cable (N)HXCH E30 4x50 RM/25		90 minutes
S29	cable (N)HXHX-J E90 4x50 RM	Z1 - K / tray KBSI	93 minutes no failure / interruption
S30	cable (N)HXHX-J E90 4x50 RM		69 minutes
S31	cable (N)HXCHX E90 4x50 RM/25		93 minutes no failure / interruption
S32	cable (N)HXCHX E90 4x50 RM/25		93 minutes no failure / interruption

Evaluation of the test, communication cables DÄTWYLER:

Specimen No.	Cables DÄTWYLER	Stretch / support	Time to first failure / interruption of conductor
S52	cable JE-H(St)HRH...Bd FE180 E30-E90 2x2x0,8	W1 - A / tray KBSI	29 minutes
S53	cable JE-H(St)HRH...Bd FE180 E30-E90 2x2x0,8	W1 - B / tray KBSI	25 minutes
S54	cable JE-H(St)H...Bd FE180 E30-E90 2x2x0,8	W1 - C / tray KBSI	25 minutes
S55	cable JE-H(St)H...Bd FE180 E30-E90 2x2x0,8	X1 - D / tray KBSI	33 minutes



Evaluation of the test, communication cables PRYSMIAN:

Specimen No.	Cables PRYSMIAN	Stretch / support	Time to first failure / interruption of conductor
S56	cable JE-H(St)H E30 2x2x0,8	Y1 - G / tray KBSI	61 minutes
S57	cable JE-H(St)H E30 2x2x0,8	Z1 - J / tray KBSI	66 minutes

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

Specimens S1 – S32 were tested by three-phase voltage supply 3 x 230/400V with bulbs 240V / 60 W. Specimens S52 – S57 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 DÄTWYLER	Type of tested cable, single cross-sections and number of conductors	Classification	Range of cables (by cross-sections and number of conductors)
TRAY KBSI (60x300x0,75)mm/ 1500 mm / 20 kg.m ⁻¹	cable (N)HXH FE180 E30-E60	(N)HXH FE180 E30-E60 4x1,5 RE	PS 90	n x 1,5 mm ² n ≥ 2
		(N)HXH FE180 E30-E60 4x50 RM	PS 60	n x ≥ 1,5 mm ² n ≥ 2
	cable (N)HXCH FE180 E30-E60	(N)HXCH FE180 E30-E60 4x1,5 RE/1,5	PS 90	n x ≥ 1,5 mm ² n ≥ 2
		(N)HXCH FE180 E30-E60 4x50 RM/25		
	cable (N)HXH FE180 E90	(N)HXH FE180 E90 4x1,5 RE	PS 90	n x ≥ 1,5 mm ² n ≥ 2
		(N)HXH FE180 E90 4x50 RM		
	cable (N)HXCH FE180 E90	(N)HXCH FE180 E90 4x2,5 RE/2,5	PS 90	n x ≥ 2,5 mm ² n ≥ 2
		(N)HXCH FE180 E90 4x50 RM/25		
cable JE-H(St)H...Bd FE180 E30-E90	JE-H(St)H...Bd FE180 E30- E90 2x2x0,8	PS 15	n x 2 x ≥ 0,8 mm (n ≥ 2)	
cable JE- H(St)HRH...Bd FE180 E30-E90	JE-H(St)HRH...Bd FE180 E30-E90 2x2x0,8	PS 15	n x 2 x ≥ 0,8 mm (n ≥ 2)	



Tray / max. span / max. loading	Cable PRYSMIAN	Type of tested cable, single cross-sections and number of conductors	Classification	Range of cables (by cross-sections and number of conductors)
TRAY KBSI (60x300x0,75)mm/ 1500 mm / 20 kg.m ⁻¹	cable (N)HXH-J E30	(N)HXH-J E30 4x1,5 R	PS 60	n x ≥ 1,5 mm ² n ≥ 2
		(N)HXH-J E30 4x50 RM		
	cable (N)HXCH E30	(N)HXCH E30 4x1,5 RE/1,5	PS 60	n x ≥ 1,5 mm ² n ≥ 2
		(N)HXCH E30 4x50 RM/25		
	cable (N)HXHX-J E90	(N)HXHX-J E90 4x1,5 RE	PS 90	n x 1,5 mm ² n ≥ 2
		(N)HXHX-J E90 4x50 RM	PS 60	n x ≥ 1,5 mm ² n ≥ 2
	cable (N)HXCHX E90	(N)HXCHX E90 4x2,5 RE/2,5	PS 90	n x ≥ 2,5 mm ² n ≥ 2
(N)HXCHX E90 4x50 RM/25				
cable JE-H(St)H E30 2x2x0,8	JE-H(St)H E30 2x2x0,8	PS 60	n x 2 x ≥ 0,8 mm (n ≥ 2)	

4.3 CLASSIFICATION ACCORDING TO ZP-27/2008 PAVUS

Tray / max. span / max. loading	Cable DÄTWYLER	Type of tested cable, single cross-sections and number of conductors	Classification	Range of cables (by cross-sections and number of conductors)
TRAY KBSI (60x300x0,75)mm/ 1500 mm / 20 kg.m ⁻¹	cable (N)HXH FE180 E30-E60	(N)HXH FE180 E30-E60 4x1,5 RE	P 90-R	n x 1,5 mm ² n ≥ 2
		(N)HXH FE180 E30-E60 4x50 RM	P 60-R	n x ≥ 1,5 mm ² n ≥ 2
	cable (N)HXCH FE180 E30-E60	(N)HXCH FE180 E30-E60 4x1,5 RE/1,5	P 90-R	n x ≥ 1,5 mm ² n ≥ 2
		(N)HXCH FE180 E30-E60 4x50 RM/25		
	cable (N)HXH FE180 E90	(N)HXH FE180 E90 4x1,5 RE	P 90-R	n x ≥ 1,5 mm ² n ≥ 2
		(N)HXH FE180 E90 4x50 RM		
	cable (N)HXCH FE180 E90	(N)HXCH FE180 E90 4x2,5 RE/2,5	P 90-R	n x ≥ 2,5 mm ² n ≥ 2
(N)HXCH FE180 E90 4x50 RM/25				
cable JE-H(St)H...Bd FE180 E30-E90	JE-H(St)H...Bd FE180 E30-E90 2x2x0,8	P 15-R	n x 2 x ≥ 0,8 mm (n ≥ 2)	
cable JE- H(St)HRH...Bd FE180 E30-E90	JE-H(St)HRH...Bd FE180 E30-E90 2x2x0,8	P 15-R	n x 2 x ≥ 0,8 mm (n ≥ 2)	



Tray / max. span / max. loading	Cable PRYSMIAN	Type of tested cable, single cross-sections and number of conductors	Classification	Range of cables (by cross-sections and number of conductors)
TRAY KBSI (60x300x0,75)mm/ 1500 mm / 20 kg.m ⁻¹	cable (N)HXH-J E30	(N)HXH-J E30 4x1,5 R	P 60-R	n x ≥ 1,5 mm ² n ≥ 2
		(N)HXH-J E30 4x50 RM		
	cable (N)HXCH E30	(N)HXCH E30 4x1,5 RE/1,5	P 60-R	n x ≥ 1,5 mm ² n ≥ 2
		(N)HXCH E30 4x50 RM/25		
	cable (N)HXHX-J E90	(N)HXHX-J E90 4x1,5 RE	P 90-R	n x 1,5 mm ² n ≥ 2
		(N)HXHX-J E90 4x50 RM	P 60-R	n x ≥ 1,5 mm ² n ≥ 2
cable (N)HXCHX E90	(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 2x2x0,8	JE-H(St)H E30 2x2x0,8	P 60-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 DÄTWYLER	Type of tested cable, single cross-sections and number of conductors	Classification	Range of cables (by cross-sections and number of conductors)
TRAY KBSI (60x300x0,75)mm/ 1500 mm / 20 kg.m ⁻¹	cable (N)HXH FE180 E30-E60	(N)HXH FE180 E30-E60 4x1,5 RE	E 90	n x 1,5 mm ² n ≥ 2
		(N)HXH FE180 E30-E60 4x50 RM	E 60	n x ≥ 1,5 mm ² n ≥ 2
	cable (N)HXCH FE180 E30-E60	(N)HXCH FE180 E30-E60 4x1,5 RE/1,5	E 90	n x ≥ 1,5 mm ² n ≥ 2
		(N)HXCH FE180 E30-E60 4x50 RM/25		
	cable (N)HXH FE180 E90	(N)HXH FE180 E90 4x1,5 RE	E 90	n x ≥ 1,5 mm ² n ≥ 2
		(N)HXH FE180 E90 4x50 RM		
cable (N)HXCH FE180 E90	(N)HXCH FE180 E90 4x2,5 RE/2,5	E 90	n x ≥ 2,5 mm ² n ≥ 2	
	(N)HXCH FE180 E90 4x50 RM/25			



Tray / max. span / max. loading	Cable PRYSMIAN	Type of tested cable, single cross- sections and number of conductors	Classification	Range of cables (by cross- sections and number of conductors)
TRAY KBSI (60x300x0,75)mm/ 1500 mm / 20 kg.m ⁻¹	cable (N)HXH-J E30	(N)HXH-J E30 4x1,5 R	E 60	n x ≥ 1,5 mm ² n ≥ 2
		(N)HXH-J E30 4x50 RM		
	cable (N)HXCH E30	(N)HXCH E30 4x1,5 RE/1,5	E 60	n x ≥ 1,5 mm ² n ≥ 2
		(N)HXCH E30 4x50 RM/25		
	cable (N)HXHX-J E90	(N)HXHX-J E90 4x1,5 RE	E 90	n x 1,5 mm ² n ≥ 2
		(N)HXHX-J E90 4x50 RM	E 60	n x ≥ 1,5 mm ² n ≥ 2
	cable (N)HXCHX E90	(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 2x2x0,8	JE-H(St)H E30 2x2x0,8	E 60	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 300 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 31. 08. 2016 provided that the product, field of application and standards and regulations are not changed.

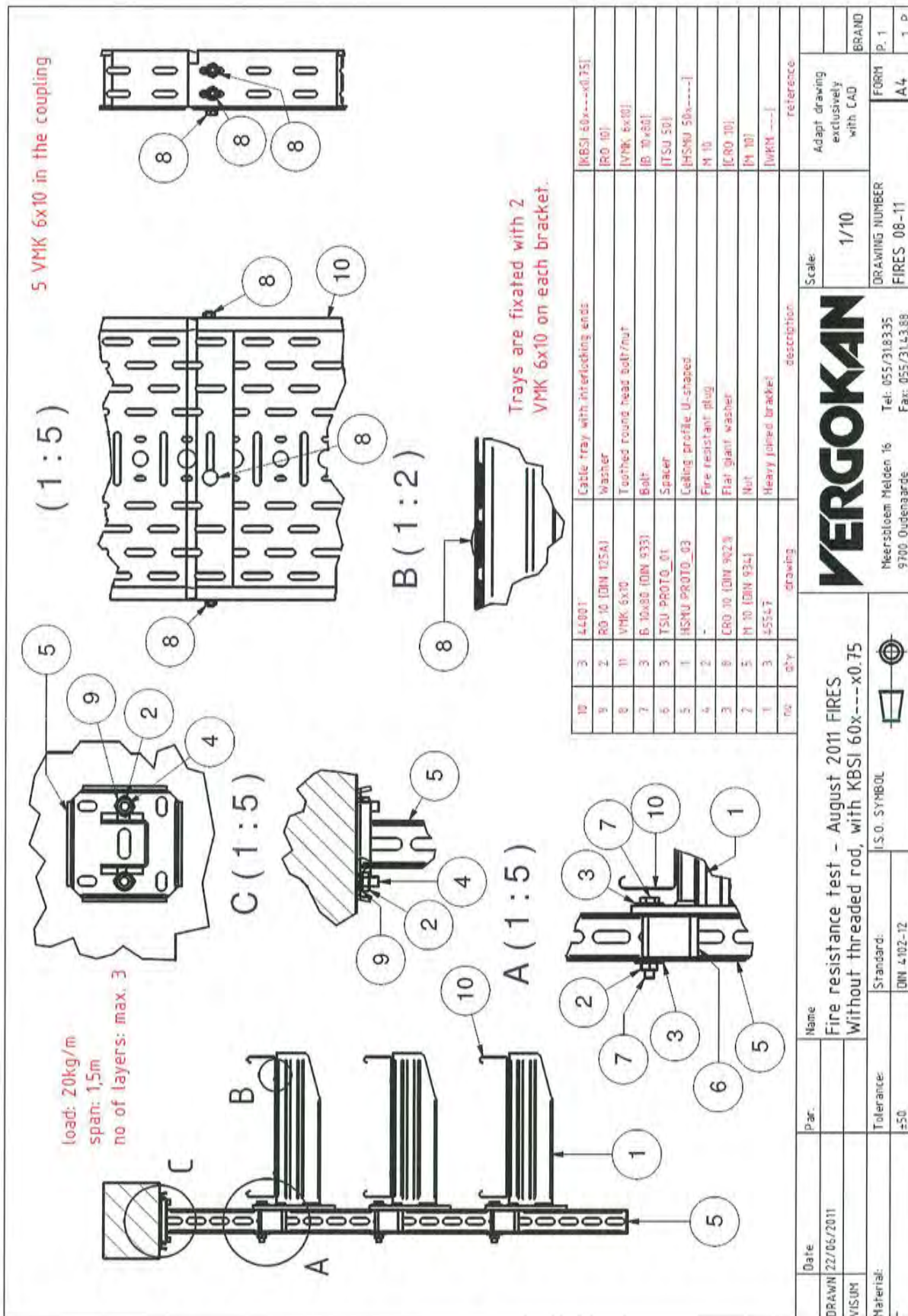
Approved:

Signed:

Ing. Štefan Rástocký
head of the testing laboratory



Bc. Dávid Šubert
technician of the testing laboratory



no.	qty	drawing	description
10	3	44001	Cable tray with interlocking ends
9	2	R0 10 (DIN 125A)	Washer
8	11	VMK 6x10	Toothed round head Bolt/nut
7	3	B, 10x80 (DIN 933)	Bolt
6	3	TSU_PROTO_01	Spacer
5	1	HSKU_PROTO_03	Ceiling profile U-shaped
4	2	-	Fire resistant plug
3	8	CR0 10 (DIN 9023)	Flat glauf washer
2	5	M 10 (DIN 934)	Nut
1	3	45547	Heavy joined bracket
			reference

Date	22/05/2011	Name	Fire resistance test - August 2011 FIRES
DRAWN	VISUM	Par.	Without threaded rod, with KBSI 60x---x0.75
Material:		Tolerance:	±50
		Standard:	DIN 4102-12
		I.S.O. SYMBOL	
		Meerstroom Melden 16 9700 Oudenaarde Tel: 055/318335 Fax: 055/314388	
		DRAWING NUMBER FIRES 08-11	Adapt drawing exclusively with CAD BRAND FORM P. 1 A4 1 P.

Autorizovaná osoba
MVRR SR SK01
Approved Body No. SK01

Notifikovaná osoba č. 1396
Notified Body No. 1396

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Product Certification Body

Akreditovaný inšpekčný orgán
Accredited Inspection Body

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.

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20 JAN. 2016



VERGOKAN

Meersbloem Melden 16
Oudenaarde 9700
Belgium

YOUR REF.

RESPONSIBLE

OUR REF.

BATIZOVCE

Šubert

Su_01_12_2015

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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Accredited Inspection Body

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

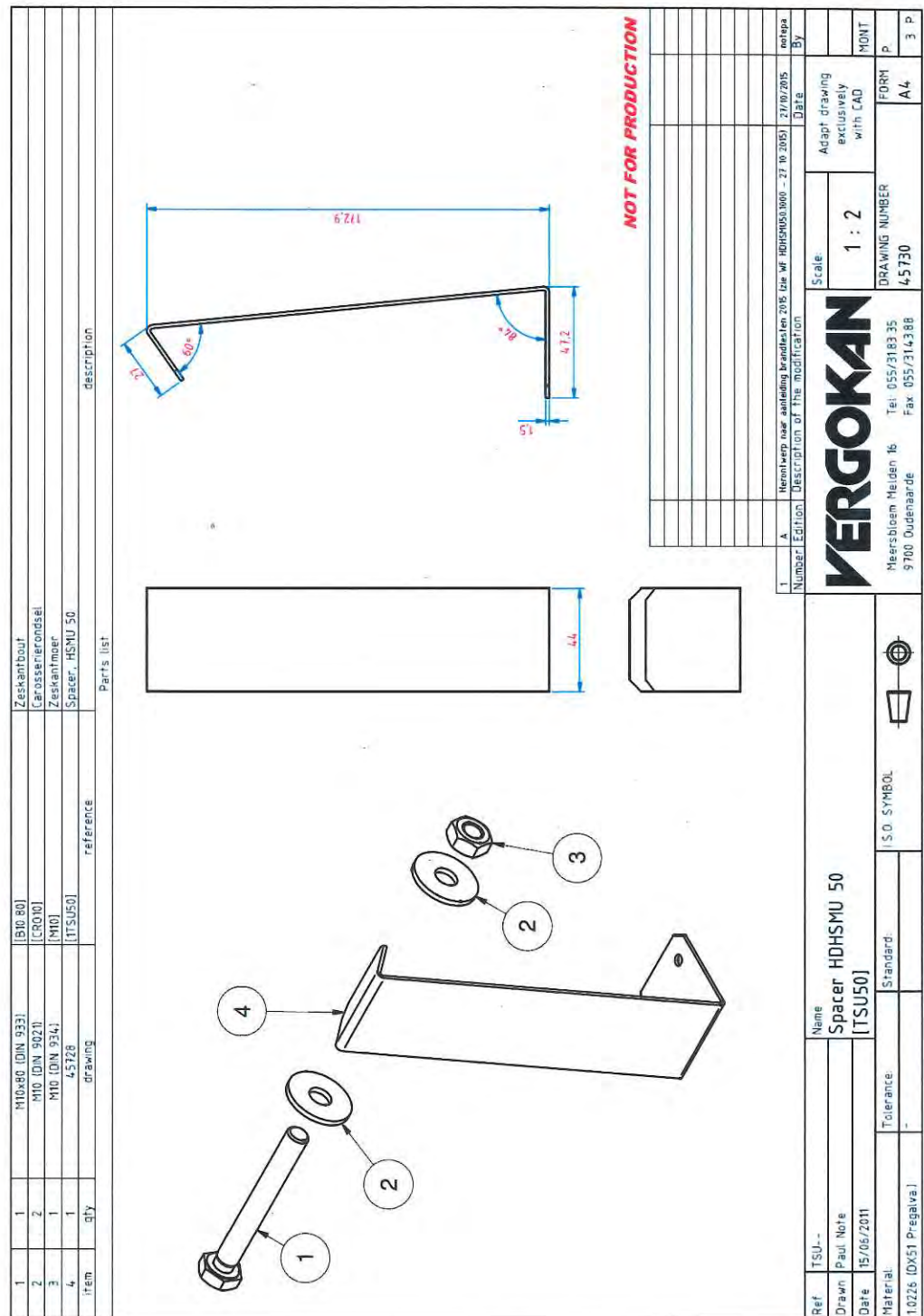
FIRES, s.r.o.
Osloboditeľov 282
059 35 Batizovce
Slovakia
tel.: +421/52/775 22 98
fax: +421/52/788 14 12

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.



NOT FOR PRODUCTION

1	A	Herontwerp naar aanleiding brandtesten 2015 (zie NF HDHSMU50.0000 - 27.10.2015)	notapa	By
Number	Edition	Description of the modification	Date	
Scale		Adapt drawing exclusively with CAD		
1 : 2		FORM		
DRAWING NUMBER		A4		
45730		3 P		

VERGOKAN
Meersloot Helden 16
9700 Dudenhaarde
Tel: 055/3183 35
Fax: 055/3143 88

Ref	TSU--	Name	Spacer HDHSMU 50
Drawn	Paul Note	Standard	(ITSU50)
Date	15/06/2011	Tolerance	
Material	10226 (DX51 Pregelval)	S.O. SYMBOL	

Autorizovaná osoba
MVRR SR SK01
Approved Body No. SK01

Notifikovaná osoba č. 1396
Notified Body No. 1396

Člen EGOLF
EGOLF Member

Akreditovaný
certifikačný orgán
Accredited
Product Certification Body

Akreditovaný inšpekčný orgán
Accredited Inspection Body

Akreditované
skúšobné laboratórium
Accredited Testing Laboratory

preukazovanie zhody
stavebných výrobkov
conformity attestation
of construction products

inšpekcie
vnútro podnikovej 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

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New console:

