

FUNCTION IN FIRE EXPERT JUDGEMENT REPORT WITH CLASSIFICATION FIRES-JR-037-11-NURE Issue 2

Cable bearing system VERGOKAN with cables DÄTWYLER



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FUNCTION IN FIRE EXPERT JUDGEMENT REPORT WITH CLASSIFICATION

FIRES-JR-037-11-NURE Issue 2

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

Sponsor: VERGOKAN
Meersbloem Melden 16
9700 Oudenaarde
Belgium

Prepared by: FIRES, s.r.o.
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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 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-037-11-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 and steel cable trays with snap-in system KBSTI (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:

- cable (N)HXH FE180 E30-E60 4x50 RM (4x);
- cable (N)HXH FE180 E30-E60 4x1,5 RE (4x);
- cable (N)HXCH FE180 E30-E60 4x50 RM/25 (4x);
- cable (N)HXCH FE180 E30-E60 4x1,5 RE/1,5 (4x);
- cable (N)HXH FE180 E90 4x50 RM (4x);
- cable (N)HXH FE180 E90 4x1,5 RE (4x);
- cable (N)HXCH FE180 E90 4x50 RM/25 (4x);
- cable (N)HXCH FE180 E90 4x1,5 RE/1,5 (4x);

- cable JE-H(St)H...Bd FE180 E30-E90 2x2x0,8 (4x);
- cable JE-H(St)HRH...Bd FE180 E30-E90 2x2x0,8 (4x).

Each type of cable was laid down and fixed to trays twice, i.e. two cables of each type were fixed to trays KBSI and KBSTI.

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.

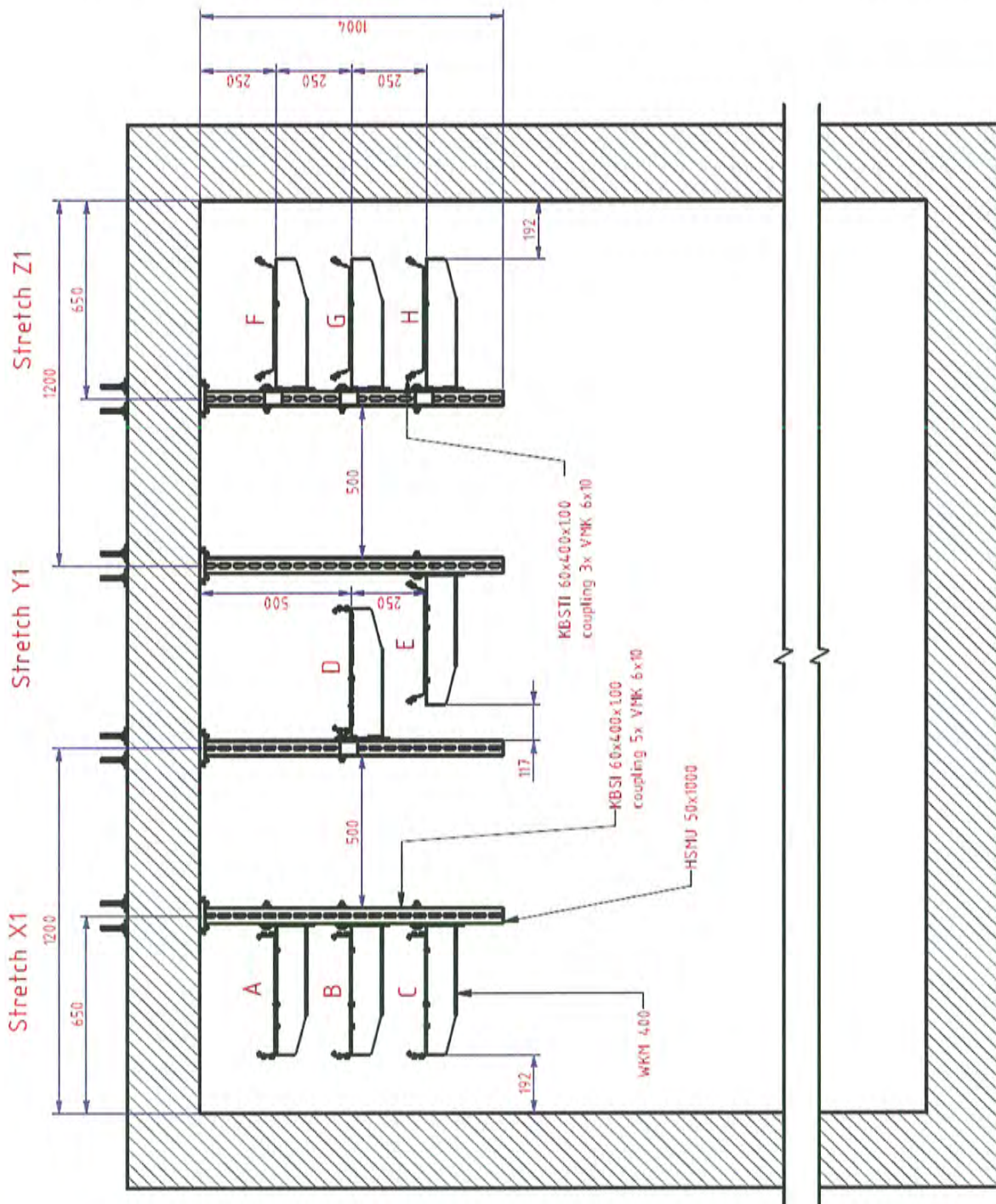


3. TEST REPORTS AND EXTENDED APPLICATION REPORTS IN SUPPORT OF CLASSIFICATION

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- 118-11-AUNE	01. 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	Stretch/ support	Time to first failure / interruption of conductor
1	cable (N)HXH FE180 E30-E60 4x50 RM	X1 - A / tray KBSI	93 minutes no failure / interruption
2	cable (N)HXH FE180 E30-E60 4x50 RM		93 minutes no failure / interruption
3	cable (N)HXH FE180 E30-E60 4x1,5 RE		93 minutes no failure / interruption
4	cable (N)HXH FE180 E30-E60 4x1,5 RE		93 minutes no failure / interruption
5	cable (N)HXCH FE180 E30-E60 4x50 RM/25	X1 - B / tray KBSI	93 minutes no failure / interruption
6	cable (N)HXCH FE180 E30-E60 4x50 RM/25		93 minutes no failure / interruption
7	cable (N)HXCH FE180 E30-E60 4x1,5 RE/1,5		93 minutes no failure / interruption
8	cable (N)HXCH FE180 E30-E60 4x1,5 RE/1,5		93 minutes no failure / interruption
9	cable (N)HXH FE180 E90 4x50 RM	X1 - C / tray KBSI	93 minutes no failure / interruption
10	cable (N)HXH FE180 E90 4x50 RM		93 minutes no failure / interruption
11	cable (N)HXH FE180 E90 4x1,5 RE		93 minutes no failure / interruption
12	cable (N)HXH FE180 E90 4x1,5 RE		93 minutes no failure / interruption
13	cable (N)HXCH FE180 E90 4x50 RM/25	Y1 - D / tray KBSI	93 minutes no failure / interruption
14	cable (N)HXCH FE180 E90 4x50 RM/25		93 minutes no failure / interruption
15	cable (N)HXCH FE180 E90 4x1,5 RE/1,5		93 minutes no failure / interruption
16	cable (N)HXCH FE180 E90 4x1,5 RE/1,5		93 minutes no failure / interruption
17	cable (N)HXH FE180 E90 4x50 RM	Y1 - E / tray KBSTI	93 minutes no failure / interruption
18	cable (N)HXH FE180 E90 4x50 RM		93 minutes no failure / interruption
19	cable (N)HXH FE180 E90 4x1,5 RE		93 minutes no failure / interruption
20	cable (N)HXH FE180 E90 4x1,5 RE		93 minutes no failure / interruption
21	cable (N)HXCH FE180 E30-E60 4x50 RM/25	Z1 - F / tray KBSTI	93 minutes no failure / interruption
22	cable (N)HXCH FE180 E30-E60 4x50 RM/25		93 minutes no failure / interruption
23	cable (N)HXCH FE180 E30-E60 4x1,5 RE/1,5		93 minutes no failure / interruption
24	cable (N)HXCH FE180 E30-E60 4x1,5 RE/1,5		93 minutes no failure / interruption
25	cable (N)HXH FE180 E30-E60 4x50 RM	Z1 - G / tray KBSTI	93 minutes no failure / interruption
26	cable (N)HXH FE180 E30-E60 4x50 RM		93 minutes no failure / interruption
27	cable (N)HXH FE180 E30-E60 4x1,5 RE		93 minutes no failure / interruption
28	cable (N)HXH FE180 E30-E60 4x1,5 RE		93 minutes no failure / interruption
29	cable (N)HXCH FE180 E90 4x50 RM/25	Z1 - H / tray KBSTI	93 minutes no failure / interruption
30	cable (N)HXCH FE180 E90 4x50 RM/25		93 minutes no failure / interruption
31	cable (N)HXCH FE180 E90 4x1,5 RE/1,5		93 minutes no failure / interruption
32	cable (N)HXCH FE180 E90 4x1,5 RE/1,5		93 minutes no failure / interruption

Communication cables

Specimen No.	Cables	Stretch / support	Time to first failure / interruption of conductor
52	cable JE-H(St)H...Bd FE180 E30-E90 2x2x0,8	X1 - A / tray KBSI	49 minutes
53	cable JE-H(St)HRH...Bd FE180 E30-E90 2x2x0,8	X1 - B / tray KBSI	46 minutes
54	cable JE-H(St)H...Bd FE180 E30-E90 2x2x0,8	X1 - C / tray KBSI	51 minutes
55	cable JE-H(St)HRH...Bd FE180 E30-E90 2x2x0,8	Y1 - D / tray KBSI	54 minutes
56	cable JE-H(St)H...Bd FE180 E30-E90 2x2x0,8	Y1 - E / tray KBSTI	23 minutes



Specimen No.	Cables	Stretch / support	Time to first failure / interruption of conductor
57	cable JE-H(St)HRH...Bd FE180 E30-E90 2x2x0,8	Z1 - F / tray KBSTI	72 minutes
58	cable JE-H(St)H...Bd FE180 E30-E90 2x2x0,8	Z1 - G / tray KBSTI	74 minutes
59	cable JE-H(St)HRH...Bd FE180 E30-E90 2x2x0,8	Z1 - H / tray KBSTI	48 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 – S59 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	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 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		
	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 4x1,5 RE/1,5	PS 90	n x ≥ 1,5 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 45	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 45	n x 2 x ≥ 0,8 mm (n ≥ 2)	



Tray / max. span / max. loading	Cable	Type of tested cable, single cross-sections and number of conductors	Classification	Range of cables (by cross-sections and number of conductors)
TRAY KBSTI (60x400x1,0) / 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		
	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 4x1,5 RE/1,5	PS 90	n x ≥ 1,5 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 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	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 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		
	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 4x1,5 RE/1,5	P 90-R	n x ≥ 1,5 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 30-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 30-R	n x 2 x ≥ 0,8 mm (n ≥ 2)	



Tray / max. span / max. loading	Cable	Type of tested cable, single cross-sections and number of conductors	Classification	Range of cables (by cross-sections and number of conductors)
TRAY KBSTI (60x400x1,0) / 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		
	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 4x1,5 RE/1,5	P 90-R	n x ≥ 1,5 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 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	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 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		
	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 4x1,5 RE/1,5	E 90	n x ≥ 1,5 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	E 30	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	E 30	n x 2 x ≥ 0,8 mm (n ≥ 2)	



Tray / max. span / max. loading	Cable	Type of tested cable, single cross-sections and number of conductors	Classification	Range of cables (by cross-sections and number of conductors)
TRAY KBSTI (60x400x1,0) / 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		
	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 4x1,5 RE/1,5	E 90	n x ≥ 1,5 mm ² n ≥ 2	
	(N)HXCH FE180 E90 4x50 RM/25			
cable JE- H(St)HRH...Bd FE180 E30-E90	JE-H(St)HRH...Bd FE180 E30-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



Signed:

Bc. Dávid Šubert
technician of the testing laboratory



load: 20kg/m
span: 1,5m
no of layers: max. 3

5 VMK 6x10 in the coupling

Trays are fixated with 2 VMK 6x10 on each bracket.

no	qty	drawing	description	reference
9	3	44.001	Cable tray with interlocking ends	[KBSI 60x---x100]
8	11	VMK 6x10	Toothed round head bolt/nut	[VMK 6x10]
7	3	B 10x80 [DIN 933]	Bolt	[B 10x80]
6	3	TSU PROTO_01	Spacer	[TSU 50]
5	1	HSMU PROTO_03	Ceiling profile U-shaped	[HSMU 50x-----]
4	2	-	Fire resistant plug	M 10
3	10	[CRO 10 [DIN 9021]	Flat giant washer	[CRO 10]
2	5	M 10 [DIN 934]	Nut	[M 10]
1	3	45547	Heavy joined bracket	[WKM ----]
no	qty	drawing	description	reference

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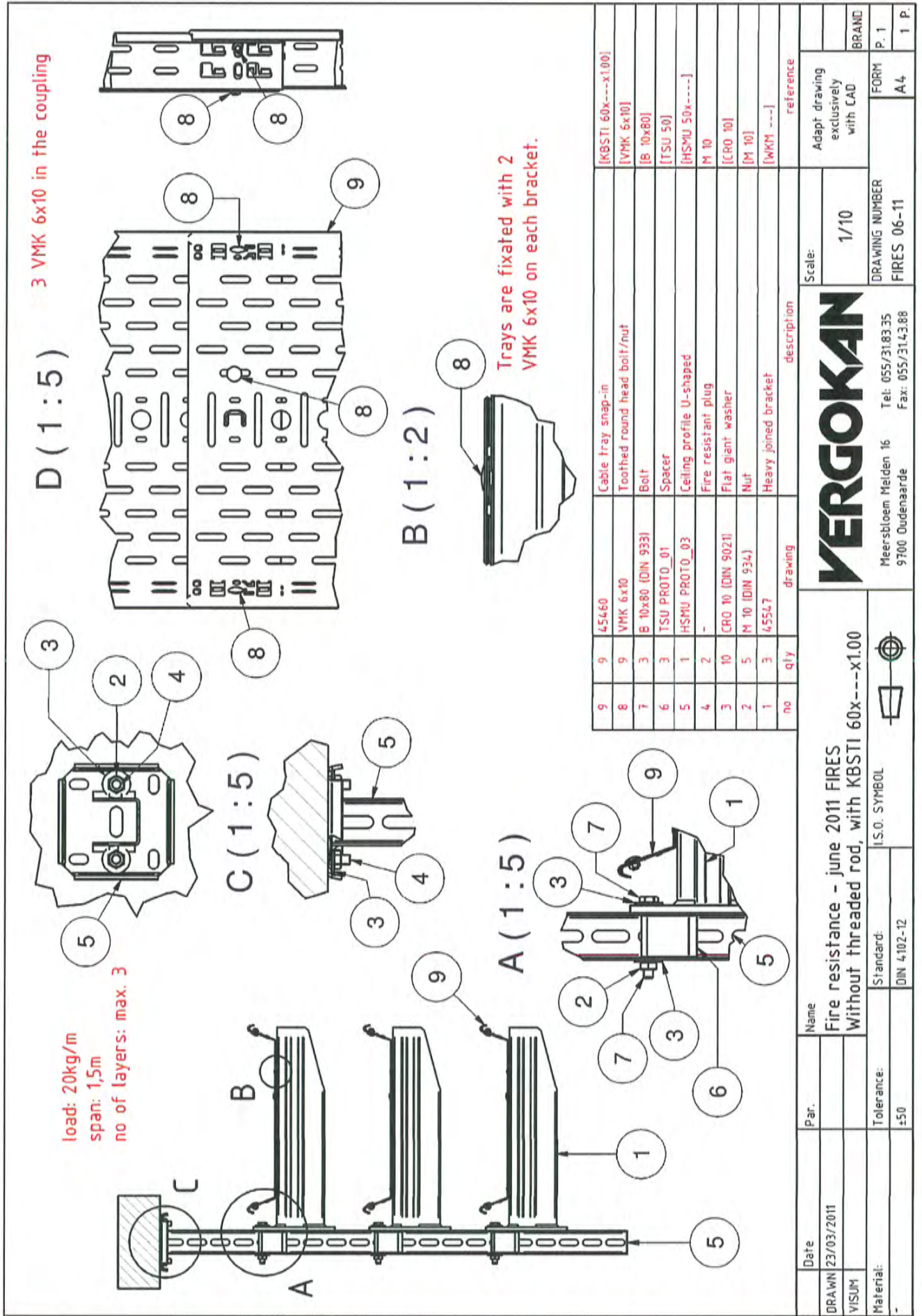
Scale: 1/10

DRAWING NUMBER: FIRES 06-11

FORM: P. 1
A4
1 P.

Date: 23/03/2011
Par.: Fire resistance - june 2011 FIRES
Name: Without threaded rod, with KBSI 60x---x100

Material: -
Tolerance: ±50
Standard: DIN 4102-12
I.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
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

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S.r.o. zapísaná v Obchodnom registri
Okresného súdu v Prešove, vložka
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www.fires.sk

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

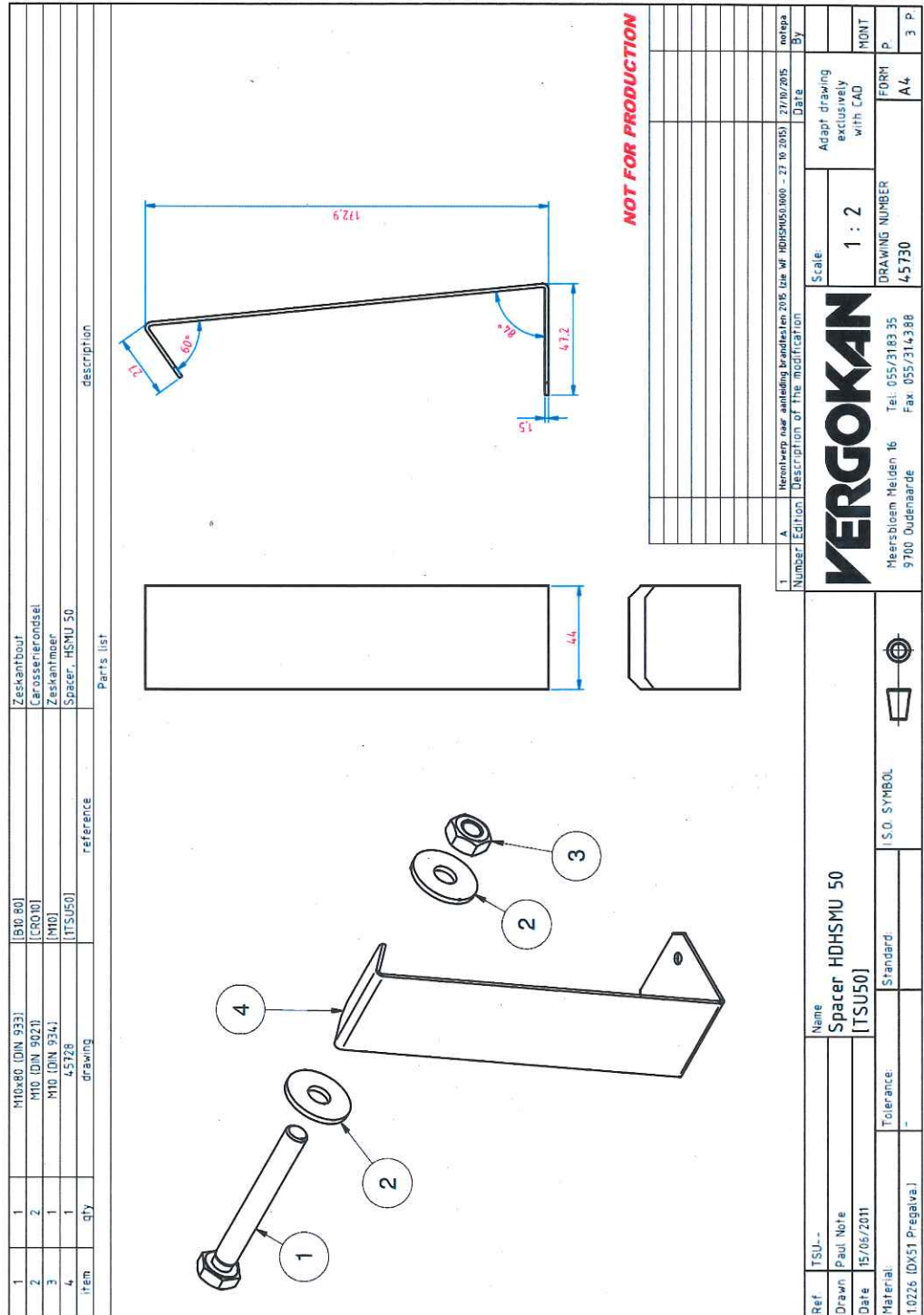
teoretické hodnotenie
požiarnej odolnosti výrobkov
calculations of fire resistance

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IČ DPH: SK2020517059

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



Ref	TSU--	Name	Spacer HDHSMU 50	I.S.O. SYMBOL	
Drawn	Paul Nofe				
Date	15/06/2011	Tolerance			
Material	10226 (DX51 Pregelva)	Standard			
Number		Edition		Description of the modification	
1	A	Herontwerp naar aanleiding brandtesten 2015, zie NF HDHSMU50.0000 - 27.10.2015		Date	27/10/2015
Scale		1 : 2		Adapt drawing exclusively with CAD	
DRAWING NUMBER		45730		FORM A4	
MONT		P		3 P	

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Meersbloem Helden 16
9700 Oudenaarde
Tel: 055/3183 35
Fax: 055/314388

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 Approved Body No. SK01

Notifikovaná osoba č. 1396
 Notified Body No. 1396

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 stavebných výrobkov
 conformity attestation
 of construction products

inšpekcie
 vnútropodnikovej kontroly
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 č. 2093/P, oddiel: Sro.

Tested console:

NOT FOR PRODUCTION

Ref.	L
HDHSMU50.200	200
HDHSMU50.300	300
HDHSMU50.400	400
HDHSMU50.500	500
HDHSMU50.600	600
HDHSMU50.800	800
HDHSMU50.1000	1000
HDHSMU50.1200	1200
HDHSMU50.1500	1500

Number	Edition	Description of the modification	Date	By

Scale:	1 : 2
DRAWING NUMBER	45732
FORM	P. 1
A4	1 P
VERGOKAN	
Meersloot Meldren 16 Tel. 055/3183 35	
9700 Oudeaarde Fax. 055/3143 88	
Name	Ceiling profile medium heavy, U shape
Name	[HDHSMU50.1000]
Standard	ISO SYMBOL
Tolerance	-
Material	1.0332 (DD11 hot dip)
Ref.	HDHSMU50 ----
Drawn	Paul Nobe
Date	12/04/2011

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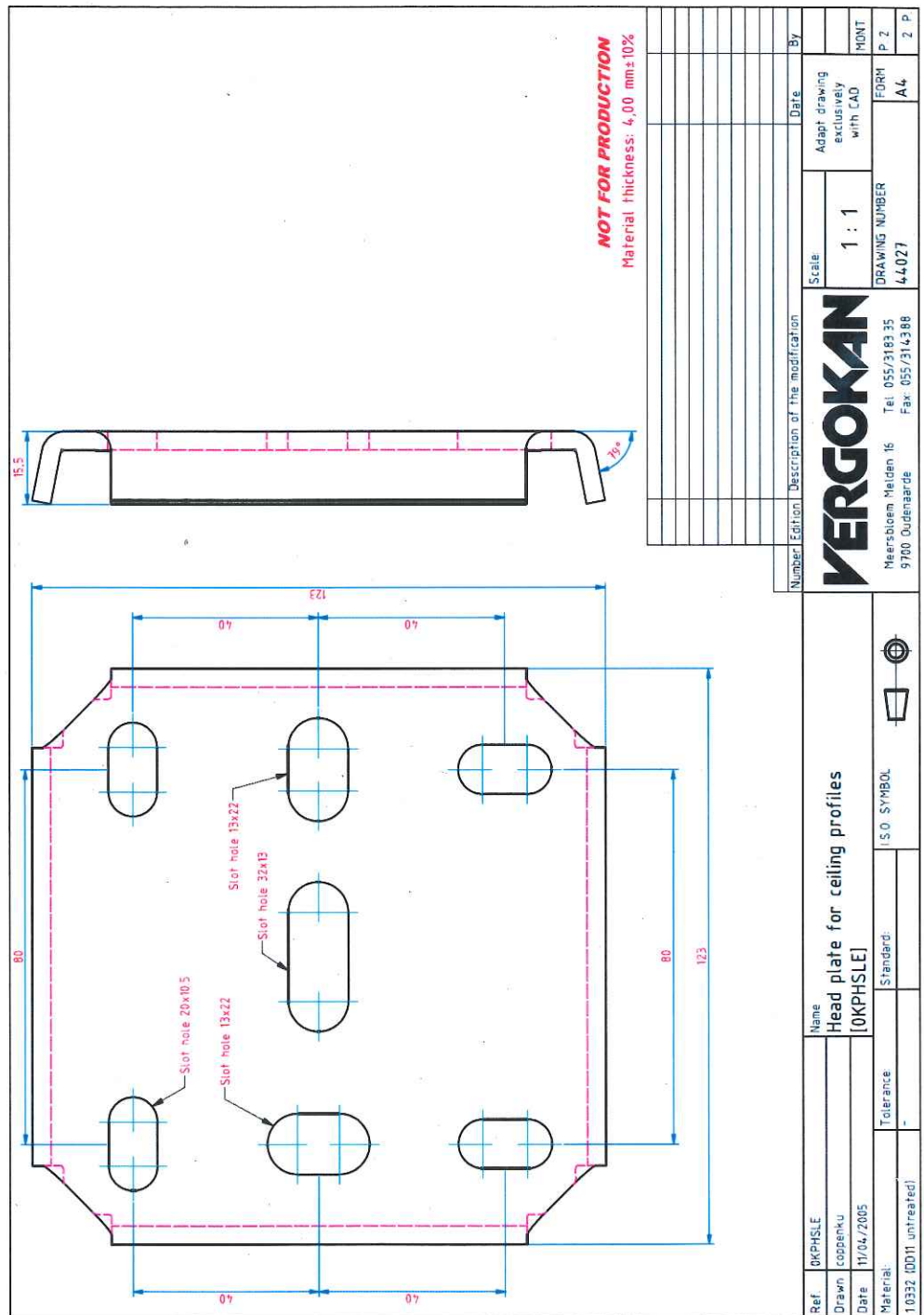
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Okresného súdu v Prešove, vložka
č. 2093/P, oddiel: Sro.

Tested console:



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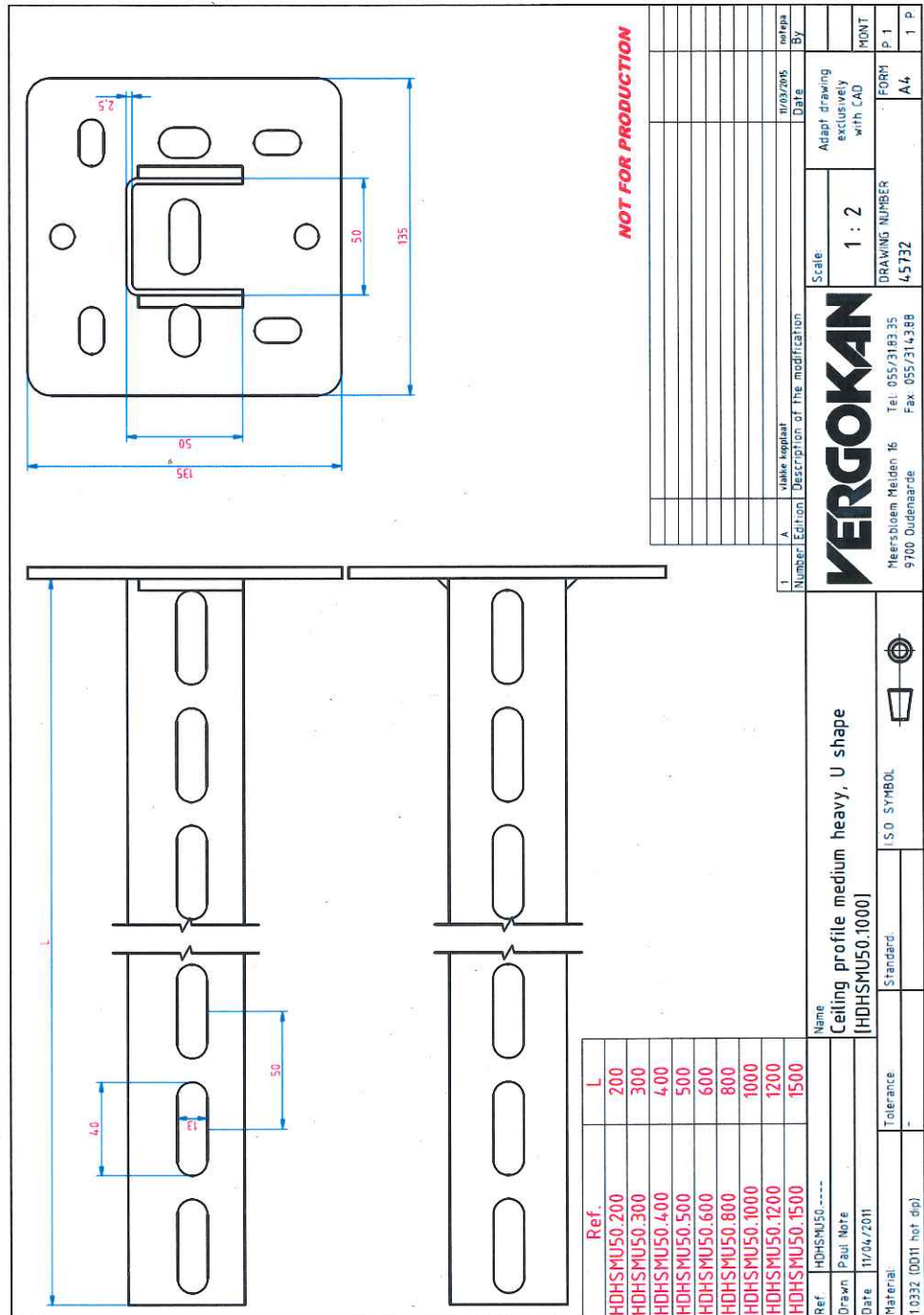
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Okresného súdu v Prešove, vložka
č. 2093/P, oddiel: Sro.

New console:



1	A	viakke kopiar	11/03/2015	By	
Number Edition Description of the modification			Date	By	
			Scale	1 : 2	
			Adapt drawing exclusively with CAD		
			DRAWING NUMBER	4.5732	
			FORM	A4	
			MONT	P 1	
				P 1	
				P 1	
				P 1	

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Meerbloem Melden 16 9700 Oudenearde	
Tel. 055/314335 Fax. 055/314388	
Name: Ceiling profile medium heavy, U shape [HDHSMU50.1000]	
Standard: I.S.O. SYMBOL	
Tolerance: -	
Material: 1.0332 (D011 hot dip)	
Date: 11/04/2011	
Drawn: Paul Note	
Ref: HDHSMU50.-----	

Autorizovaná osoba
MVRR SR SK01
Approved Body No. SK01

Notifikovaná osoba č. 1396
Notified Body No. 1396

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Okresného súdu v Prešove, vložka
č. 2093/P, oddiel: Sro.

New console:

NOT FOR PRODUCTION

1	A	Terzoogen van gaten 010 (zonder WF)	10/08/2014	SC	By
Number / Edition		Description of the modification	Date		

Scale	1 : 2	Adapt drawing exclusively with CAD	FORM
DRAWING NUMBER		A4	
46059		P 2	
		2 P	

VERGOKAN

Meerslootweg 16
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