

FUNCTION IN FIRE EXPERT JUDGEMENT REPORT WITH CLASSIFICATION IN FIRES-JR-062-16-NURE

Cable bearing system VERGOKAN with cables PRYSMIAN, FABER and PRAKAB

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FUNCTION IN FIRE EXPERT JUDGEMENT REPORT WITH CLASSIFICATION IN ACCORDANCE WITH ZP-27/2008

FIRES-JR-062-16-NURE

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

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, FABER and PRAKAB” in accordance with the classes given in ZP-27/2008.

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 products have already been classified by FIRES, s.r.o. and number of previous fire resistance expert judgement report with classification is FIRES-JR-061-12-NURE, issued on 10. 07. 2012 with validity until 06. 07. 2016. Document FIRES-JR-062-16-NURE replaces expert judgement report with classification FIRES-JR-061-12-NURE.

2. DETAILS OF CLASSIFIED PRODUCT

2.1 GENERAL

The element, Cable bearing system VERGOKAN with cables PRYSMIAN, FABER and PRAKAB, is defined as a cable bearing system for power and communication halogen free cables with circuit integrity maintenance in fire.

2.2 PRODUCT DESCRIPTION

The element comprise of cable bearing system VERGOKAN – cable trays with accessories (consoles, brackets, screws etc.) with power and communication halogen free cables PRYSMIAN, FABER and PRAKAB with circuit integrity maintenance in fire.

Cable trays KBSI

Cable trays are made of steel sheet 1,0 mm thick. Height of side wall is 60 mm. Width of tray is 400 mm. The trays are perforated on the sides and on the bottom. Cable tray is equipped with integrated junction. Trays are jointed together with 5 pcs of screws VMK 6x10 (new trademark is VMK6.10). Maximum load of trays is 20 kg.m⁻¹. Tested trays were KBSI 60x400x1,00 (new trademark is KBSI60.400.100).

Brackets WKM

Brackets are made of steel sheet 2,5 mm thick. Dimensions of the base steel sheet is (70x175) mm and 8,0 mm thick and is equipped by holes for installation. Holes for installation of trays are in upper part of the brackets.

Tested brackets were WKM 400 (new trademark is HDWKM400).

Consoles HSMU

Consoles are made from steel sheet and are composed of a head plate and the U 50 profile. Dimensions of the base head is (123x123) mm and 4,0 mm thick or (135x135) mm and 5,0 mm thick and is equipped by holes for installation. Dimensions of the U profile is (50x50) mm and 2,5 mm thick and is equipped by holes for installation of brackets. Tested consoles were HSMU 50x1000 (new trademark is HDHSMU50.1000).

SPACER TSU50 and HDTSU50

Spacers are made of steel sheet 1,0 mm thick (TSU50) or 1,5 thick (HDTSU50).

Cables

Power and communication free halogen cables are specified for stationary distribution of electrical energy in dry and damp premises. Since they are free from halogens and exhibit enhanced fire performance, these cables are used in those applications where in the event of fire, the negative effect on concentrations of people and valuable material goods must be minimized. Suitable for hotels, hospitals, underground railways, airport etc. to protect people and technical building equipment in the event of fire where there is requirement for maintaining the functional integrity all cable installation in the event of fire. The cables develop in case of fire low heat released rate and smoke and no burning particles drop away



during fire accident. Functional integrity all cable installation in the event of fire is guaranteed only with use specified supporting member and cables grips.

Used cables by test:

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

- 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 (producer Klaus Faber AG, Lebacher Str. 152-156, D-66009 Saarbrücken, Germany)

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

PRAKAB cables (producer PRAKAB PRAŽSKÁ KABELOVNA, s.r.o., Ke Kablu 278, 102 09 Praha 15, Czech Republic)

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

More detailed information about product construction is shown in the drawings which form an integral part of test report [1]. Drawings were delivered by sponsor.

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 sponsors	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 TEST RESULTS

Test report No. /Test method	Specimen No.	Cables	Track No.	Time to first failure / interruption of conductor
[1] DIN 4102-12	S1	cable (N)HXH-J E30 4x50 RM - Prysmian	X2-J	91 minutes
	S2	cable (N)HXH-J E30 4x50 RM - Prysmian	X2-J	91 minutes
	S3	cable (N)HXH-J E30 4x1,5 RE - Prysmian	X2-J	31 minutes
	S4	cable (N)HXH-J E30 4x1,5 RE - Prysmian	X2-J	39 minutes
	S5	cable (N)HXCH E30 4x50 RM/25 - Prysmian	X2-K	83 minutes
	S6	cable (N)HXCH E30 4x50 RM/25 - Prysmian	X2-K	93 minutes
	S7	cable (N)HXCH E30 4x1,5 RE/1,5 - Prysmian	X2-K	39 minutes



Test report No. /Test method	Specimen No.	Cables	Track No.	Time to first failure / interruption of conductor
[1] DIN 4102-12	S8	cable (N)HXCH E30 4x1,5 RE/1,5 - Prysmian	X2-K	93 minutes no failure / interruption
	S9	cable (N)HXHX-J E90 4x50 RM - Prysmian	X2-L	93 minutes no failure / interruption
	S10	cable (N)HXHX-J E90 4x50 RM - Prysmian	X2-L	93 minutes no failure / interruption
	S11	cable (N)HXHX-J E90 4x1,5 RE - Prysmian	X2-L	93 minutes no failure / interruption
	S12	cable (N)HXHX-J E90 4x1,5 RE - Prysmian	X2-L	93 minutes no failure / interruption
	S13	cable (N)HXCHX E90 4x50 RM/25 - Prysmian	Y2-M	93 minutes no failure / interruption
	S14	cable (N)HXCHX E90 4x50 RM/25 - Prysmian	Y2-M	93 minutes no failure / interruption
	S15	cable (N)HXCHX E90 4x2,5 RE/2,5 - Prysmian	Y2-M	93 minutes no failure / interruption
	S16	cable (N)HXCHX E90 4x2,5 RE/2,5 - Prysmian	Y2-M	93 minutes no failure / interruption
	S17	cable (N)HXH FE180 E90 4x50 RM FACAB - Faber	Y2-N	93 minutes no failure / interruption
	S18	cable (N)HXH FE180 E90 4x50 RM FACAB - Faber	Y2-N	76 minutes
	S19	cable (N)HXH FE180 E90 4x1,5 RE FACAB - Faber	Y2-N	93 minutes no failure / interruption
	S20	cable (N)HXH FE180 E90 4x1,5 RE FACAB - Faber	Y2-N	93 minutes no failure / interruption
	S21	cable (N)HXCH FE180 E30 4x50 RM/25 FACAB - Faber	Z2-O	79 minutes
	S22	cable (N)HXCH FE180 E30 4x50 RM/25 FACAB - Faber	Z2-O	93 minutes no failure / interruption
	S23	cable (N)HXCH FE180 E30 4x1,5 RE/1,5 FACAB - Faber	Z2-O	88 minutes
	S24	cable (N)HXCH FE180 E30 4x1,5 RE/1,5 FACAB - Faber	Z2-O	93 minutes no failure / interruption
	S25	cable (N)HXH FE180 E30 4x50 RM FACAB - Faber	Z2-P	86 minutes
	S26	cable (N)HXH FE180 E30 4x50 RM FACAB - Faber	Z2-P	93 minutes no failure / interruption
	S27	cable (N)HXH FE180 E30 4x1,5 RE FACAB - Faber	Z2-P	93 minutes no failure / interruption
	S28	cable (N)HXH FE180 E30 4x1,5 RE FACAB - Faber	Z2-P	93 minutes no failure / interruption
	S29	cable (N)HXCH FE180 E90 4x50 RM/25 FACAB - Faber	Z2-Q	73 minutes
	S30	cable (N)HXCH FE180 E90 4x50 RM/25 FACAB - Faber	Z2-Q	93 minutes
	S31	cable (N)HXCH FE180 E90 4x1,5 RE/1,5 FACAB - Faber	Z2-Q	83 minutes
	S32	cable (N)HXCH FE180 E90 4x1,5 RE/1,5 FACAB - Faber	Z2-Q	93 minutes no failure / interruption
	S52	cable JE-H(St)H E30 2x2x0,8 – Prysmian	X2-J	93 minutes no failure / interruption
	S53	cable JE-H(St)H E30 2x2x0,8 - Prysmian	X2-K	65 minutes
	S54	cable JE-H(St)H FE180 E90 2x2x0,8 – Prakab	Y2-N	66 minutes
	S55	cable JE-H(St)H FE180 E90 2x2x0,8 - Prakab	Z2-Q	56 minutes

[1] The fire test was discontinued 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 – S55 were tested by one-phase voltage supply 1 x 110V with LED diodes 3V /0,03W.
 Circuit breakers with rating 3 A and performance characteristics B(gL) were used.



4. CLASSIFICATION AND FIELD OF APPLICATION

4.1 CLASSIFICATION ACCORDING TO ZP-27/2008

The element, cable bearing system VERGOKAN – cable trays with accessories (consoles, brackets, screws etc.) with power and communication halogen free cables PRYSMIAN, FABER and PRAKAB with circuit integrity maintenance in fire is classified according to the following combinations of performance parameters and classes as appropriate.

Cables PRYSMIAN used by the test are classified as follows:

Cable	Type of tested cable, single cross-sections and number of conductors	Arrangement	Classification for type of tested cable (by cross-sections and number of conductors)	Classification for cable
(N)HXH E30	(N)HXH-J E30 4x1,5 RE	In cable trays KBSI60.400.100. Ceiling consoles HDHSMU50.1000 wits brackets HDWKM400. Loading 20 kg.m ⁻¹ . Consoles in spacing of 1500 mm. Non-standard track X2-J.	P 30-R	n x ≥ 1,5 mm ² n ≥ 2 P 30-R
	(N)HXH-J E30 4x50 RM		P 90-R	
JE-H(St)H E30	JE-H(St)H E30 2x2x0,8	Non-standard track X2-J and X2-K.	P 60-R	n x 2 x ≥ 0,8 mm P 60-R
(N)HXCH E30	(N)HXCH E30 4x1,5 RE/1,5	In cable trays KBSI60.400.100. Ceiling consoles HDHSMU50.1000 wits brackets HDWKM400. Loading 20 kg.m ⁻¹ . Consoles in spacing of 1500 mm. Non-standard track X2-K.	P 30-R	n x ≥ 1,5/1,5 mm ² n ≥ 2 P 30-R
	(N)HXCH E30 4x50 RM/25		P 60-R	
(N)HXHX E90	(N)HXHX-J E90 4x1,5 RE	In cable trays KBSI60.400.100. Ceiling consoles HDHSMU50.1000 wits brackets HDWKM400. Loading 20 kg.m ⁻¹ . Consoles in spacing of 1500 mm. Non-standard track X2-L.	P 90-R	n x ≥ 1,5 mm ² n ≥ 2 P 90-R
	(N)HXHX-J E90 4x50 RM		P 90-R	
(N)HXCHX E90	(N)HXCHX E90 4x2,5 RE/2,5	In cable trays KBSI60.400.100. Ceiling consoles HDHSMU50.1000 wits brackets HDWKM400. Loading 20 kg.m ⁻¹ . Consoles in spacing of 1500 mm. Non-standard track Y2-M.	P 90-R	n x ≥ 2,5/2,5 mm ² n ≥ 2 P 90-R
	(N)HXCHX E90 4x50 RM/25		P 90-R	



Cables FABER used by the test are classified as follows:

Cable	Type of tested cable, single cross-sections and number of conductors	Arrangement	Classification for type of tested cable (by cross-sections and number of conductors)	Classification for cable
(N)HXH FE180 E90 FACAB	(N)HXH FE180 E90 4x1,5 RE FACAB	In cable trays KBSI60.400.100. Ceiling consoles HDHSMU50.1000 wits brackets HDWKM400. Loading 20 kg.m ⁻¹ . Consoles in spacing of 1500 mm. Non-standard track Y2-N.	P 90-R	n x ≥ 1,5 mm ² n ≥ 2 P 60-R
	(N)HXH FE180 E90 4x50 RM FACAB		P 60-R	
(N)HXCH FE180 E30 FACAB	(N)HXCH FE180 E30 4x1,5 RE/1,5 FACAB	In cable trays KBSI60.400.100. Ceiling consoles HDHSMU50.1000 wits brackets HDWKM400. Loading 20 kg.m ⁻¹ . Consoles in spacing of 1500 mm. Non-standard track Z2-O.	P 60-R	n x ≥ 1,5/1,5 mm ² n ≥ 2 P 60-R
	(N)HXCH FE180 E30 4x50 RM/25 FACAB		P 60-R	
(N)HXH FE180 E30 FACAB	(N)HXH FE180 E30 4x1,5 RE FACAB	In cable trays KBSI60.400.100. Ceiling consoles HDHSMU50.1000 wits brackets HDWKM400. Loading 20 kg.m ⁻¹ . Consoles in spacing of 1500 mm. Non-standard track Z2-P.	P 90-R	n x ≥ 1,5 mm ² n ≥ 2 P 60-R
	(N)HXH FE180 E30 4x50 RM FACAB		P 60-R	
(N)HXCH FE180 E90 FACAB	(N)HXCH FE180 E90 4x1,5 RE/1,5 FACAB	In cable trays KBSI60.400.100. Ceiling consoles HDHSMU50.1000 wits brackets HDWKM400. Loading 20 kg.m ⁻¹ . Consoles in spacing of 1500 mm. Non-standard track Y2-M.	P 60-R	n x ≥ 1,5/1,5 mm ² n ≥ 2 P 60-R
	(N)HXCH FE180 E90 4x50 RM/25 FACAB		P 60-R	

Cables PRAKAB used by the test are classified as follows:

Cable	Type of tested cable, single cross-sections and number of conductors	Arrangement	Classification for type of tested cable (by cross-sections and number of conductors)	Classification for cable
JE-H(St)H FE180 E90	JE-H(St)H FE180 E90 2x2x0,8	In cable trays KBSI60.400.100. Ceiling consoles HDHSMU50.1000 wits brackets HDWKM400. Loading 20 kg.m ⁻¹ . Consoles in spacing of 1500 mm. Non-standard track Y2-N and Z2-Q.	P 30-R	n x 2 x ≥ 0,8 mm n ≥ 2 P 30-R

The element, cable bearing system VERGOKAN – cable trays with accessories (consoles, brackets, screws etc.) with power and communication halogen free cables PRYSMIAN, FABER and PRAKAB with circuit integrity maintenance in fire are classified to classes according to achieved test results of tested cables at tracks. Other classification is not allowed.



4.2 FIELD OF APPLICATION

This classification is valid for the following end use applications:

- **test results are applicable only for tested bearing systems VERGOKAN with cables PRYSMIAN, FABER and PRAKAB;**
- throughout the period during which circuit integrity is to be maintained, neighbouring building components shall not have a negative effect on circuit integrity;
- although testing is only carried out on cables arranged horizontally, test results also apply to cables arranged either diagonally or vertically (e.g. risers), as long as the cable system is supported in transitional areas (i.e. where it switches from a horizontal to a vertical arrangement) in such a manner that the cables will not slip or kink at corners;
- results gained during tests of cable bearing system exposed to higher temperature are valid also for the cable trays exposed to lower temperature;
- if a set of at least two pieces of four-conductor cable with the smallest allowed nominal cross-section and two pieces of four-conductor cable with nominal cross-section of 50 mm² or larger is tested and the cables with the smallest and the largest section achieve required function in fire classification, the test result is valid for all cross-sections of cable of particular construction type and particular ways of installation;
- if the limit conductor cross-section of tested set of cables differs from above stated, the test result is valid only for such defined range of cable cross-sections of particular cable type and way of installation;
- if only cables with the smallest or largest section achieve the required function in fire classification, the test results are valid only for the particular section and way of installation;
- if minimal two pieces of communication cables with the smallest allowed number of conductors, pairs and diameters (cross-sections) are tested, the test results are valid for all diameters (cross-sections), pairs, number of conductors of cable of particular construction type and particular ways of installation;
- if cables with larger number of conductors or pairs than the smallest allowed number are tested, the test results are valid for all construction types of cable with the same or larger number of conductors, eventually pairs of particular construction type of cable and particular ways of installation;
- if the widest considered cable tray or cable ladder is tested, the test results are valid for all narrower cable trays or cable ladders of the same construction;
- if the standard support construction acc. to ZP27/2008 is used for testing, test results also apply to other types of tested support construction of other producers;
- test results of function in fire test of cables tested at standard supporting construction are also applicable for cables of other producers tested at standard supporting construction;
- test results of cables at ladders or in trays attached at ceiling are applicable also for cables placed in bearing system fixed to wall;
- **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;**
- **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 in annex.**



5. 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.

The construction contractor is solely responsible for proper preparation.

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

The classification is valid until 14. 06. 2021 provided that the product, field of application and standards and regulations are not changed.

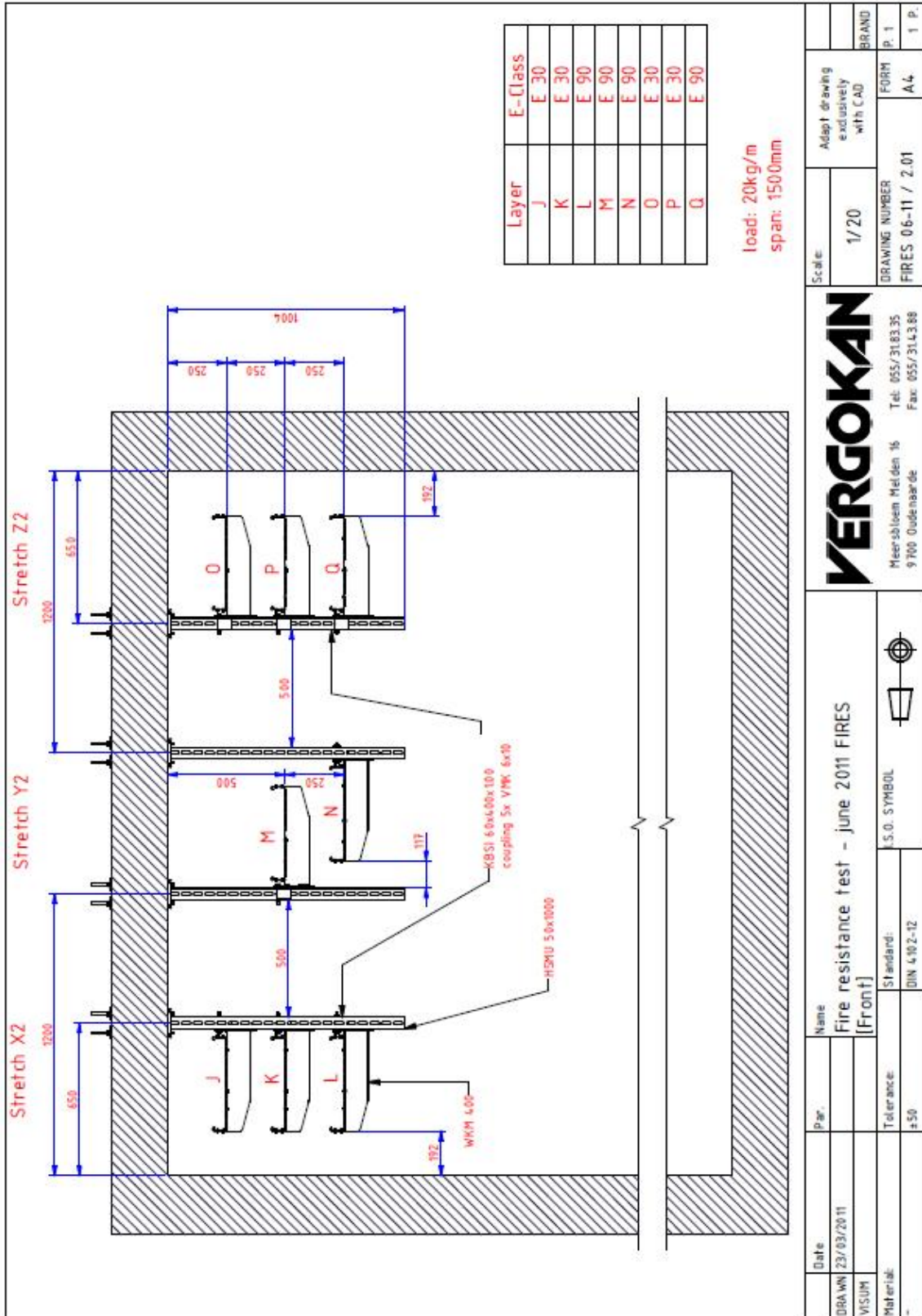
Approved:

Ing. Štefan Rástocký
leader of the testing laboratory



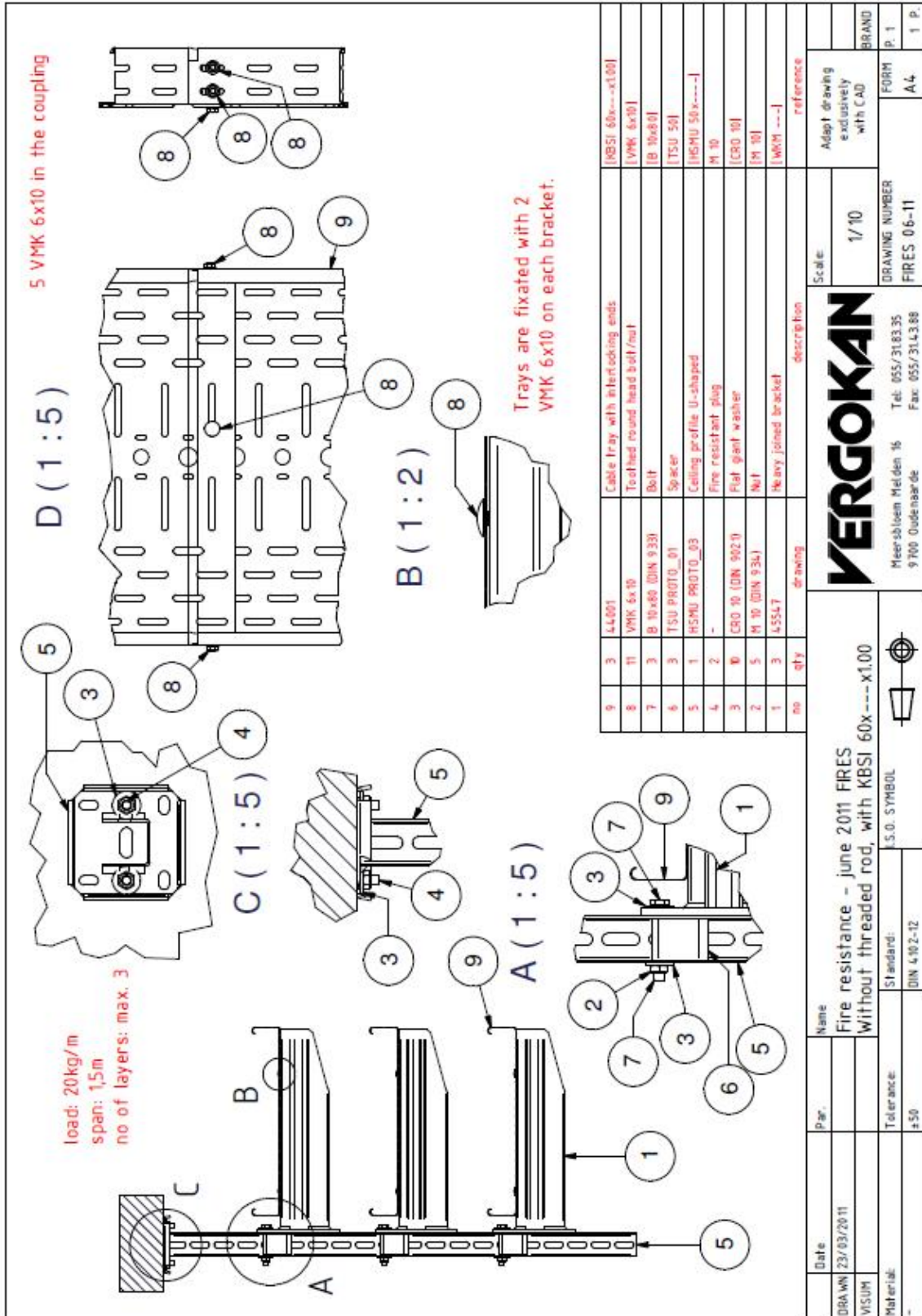
Signed:

Miroslav Hudák
technician of the testing laboratory



Date:	23/03/2011	Scale:	1/20	Adapt drawing exclusively with CAD	BRAND	
DRAWN:	VSJUM	Scale:	1/20	Adapt drawing exclusively with CAD	FORM	p. 1
Name:	Fire resistance test - june 2011 FIRES [Front]	DRAWING NUMBER:	FIRES_06-11 / 2.01	FORM	A4	1 P.
Tolerance:	±50	Meersbloem Meriden 16	Tel: 055/3183.35			
Standard:	DIN 4102-12	9700 Oudebaarde	Fax: 055/3143.88			
S.O. SYMBOL:						

VERGOKAN

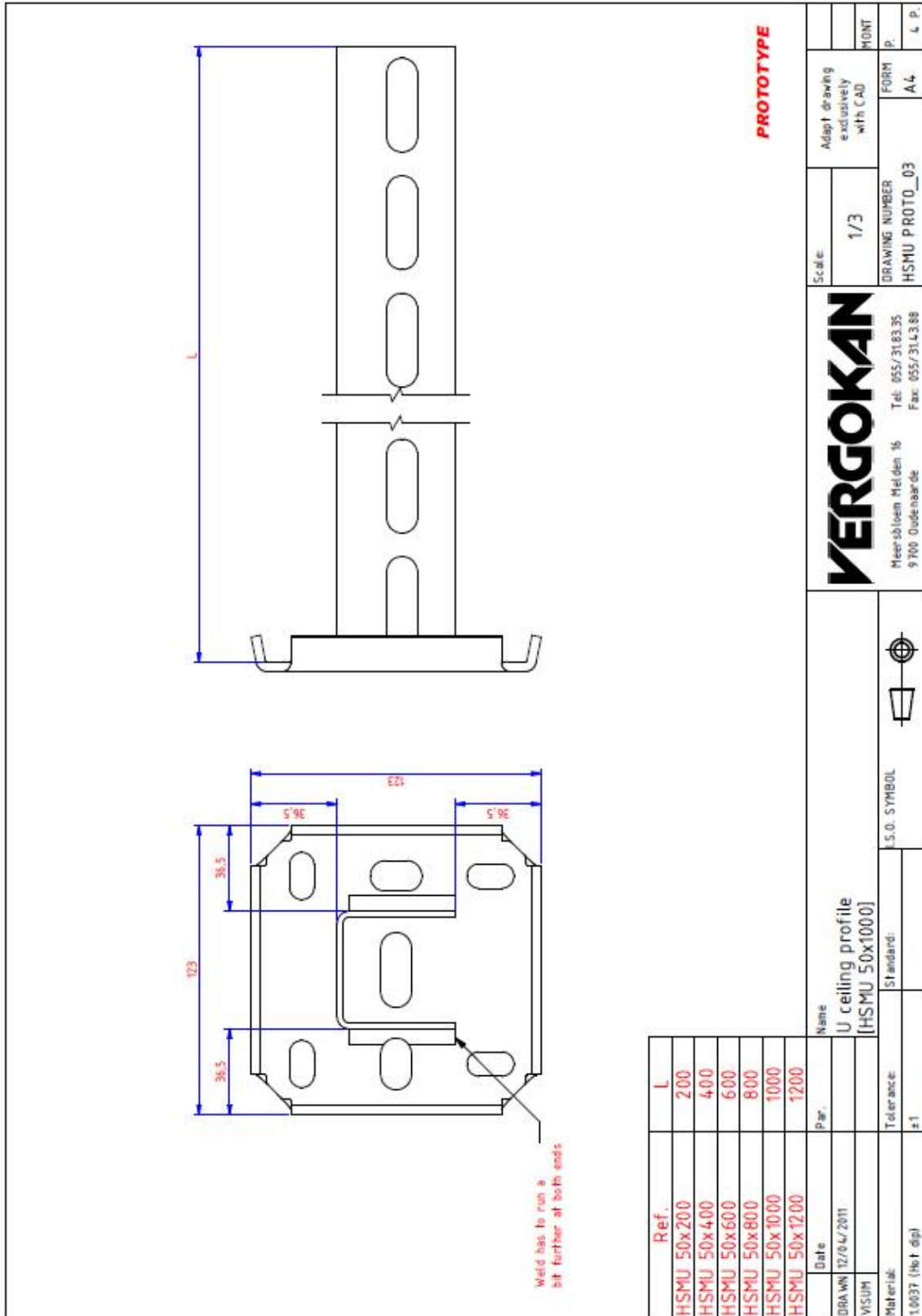


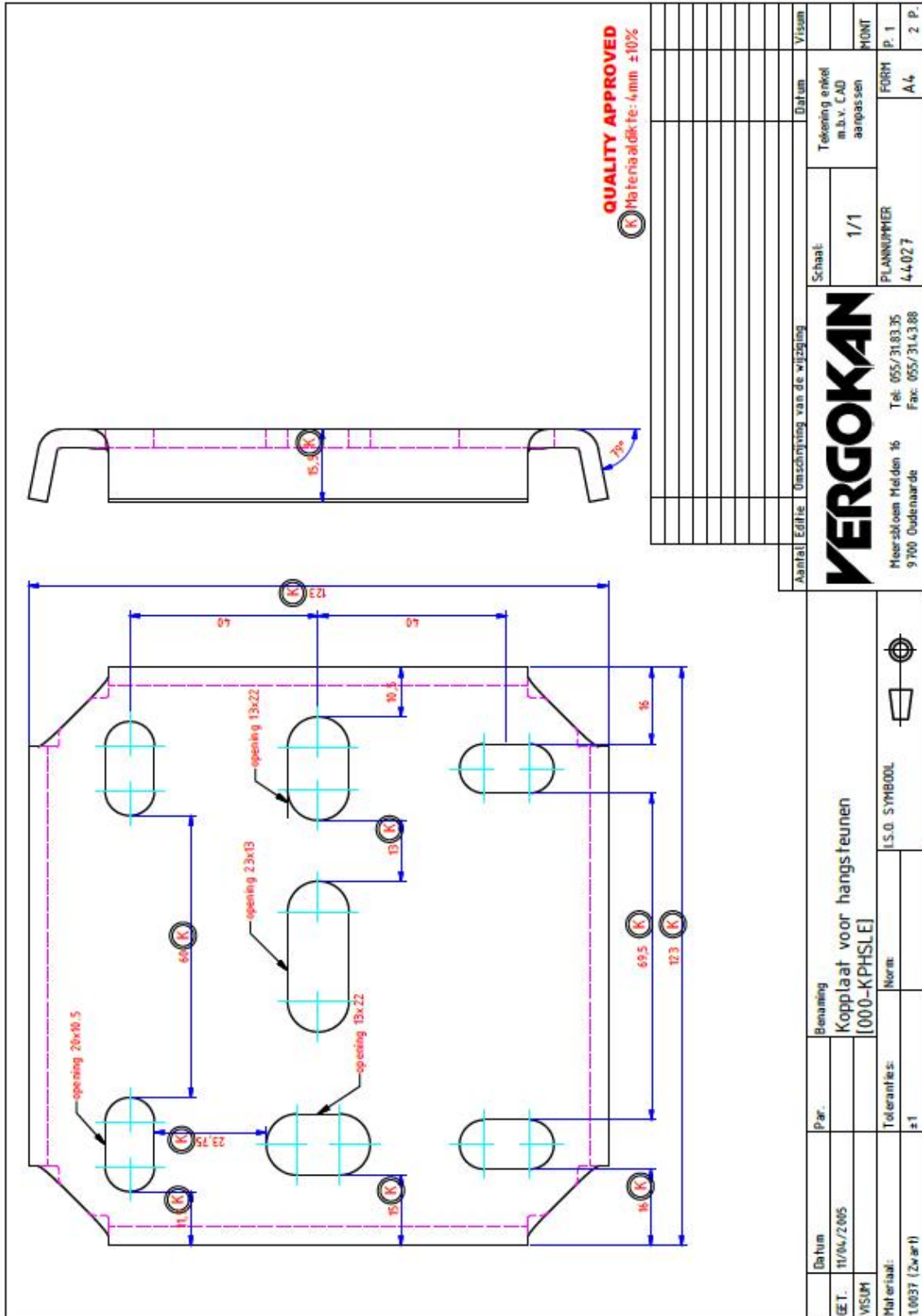


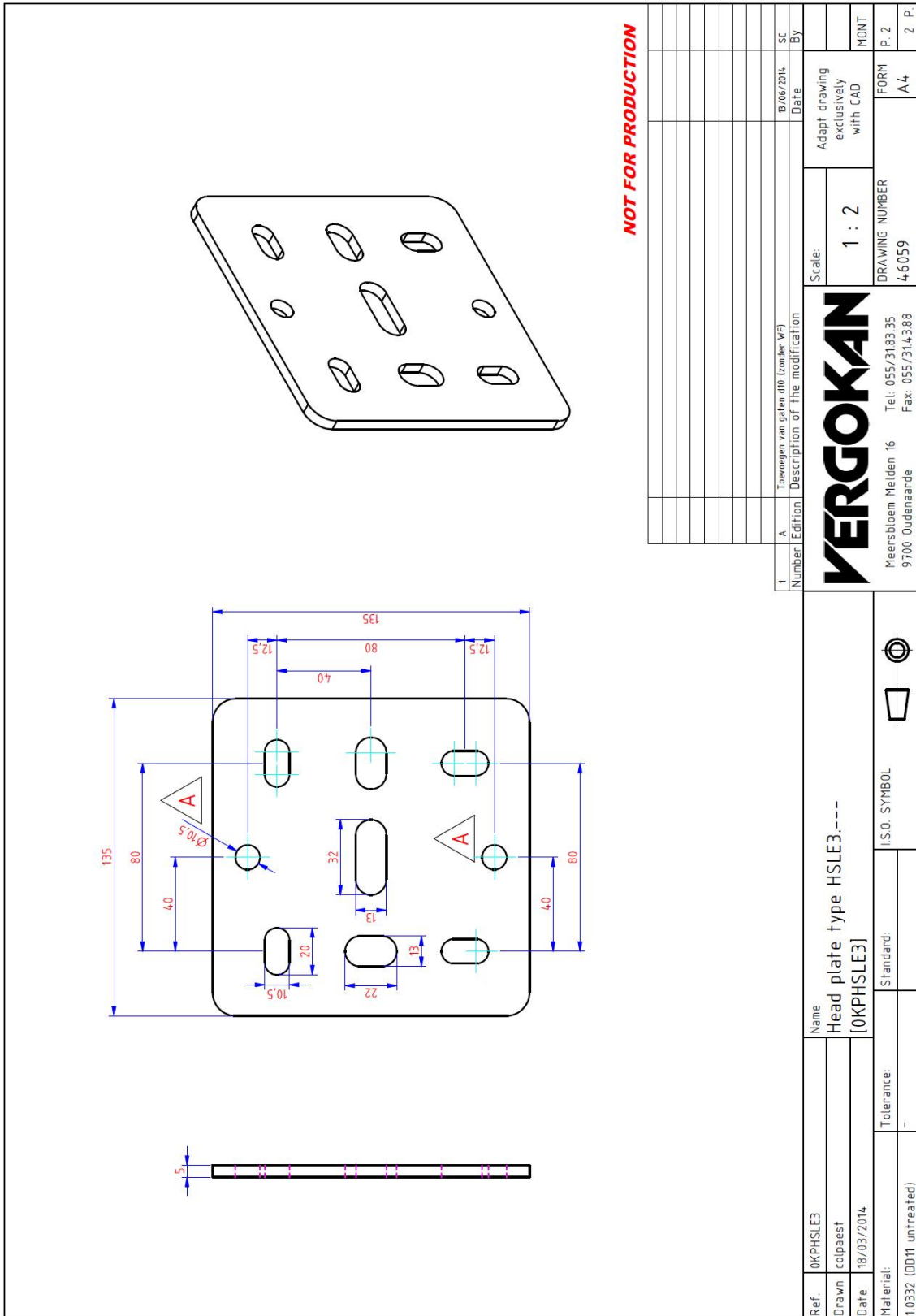
NOT FOR PRODUCTION

Naam:	Par.:	Datum:	Benaming:	Materiaal:	Aanpak:
Get. van: Comptech	<next>	02-01-08	Kabelbaan ineenschuurbaar Perforatiepatronen	U.S.A. SYRACUSE	Get.:
Visum:	-	-			Visum:
Auteursrecht: L. 0037, Sint-Jansdijk 1	Toleranties: 0.05				FORM: 05/MS / 4 / -
					12 p.

1	A	Aanpak: abruispatronen (NF 062) (aantal: 00 20/05/2010)	05/05/2010	-	-
aanpak:	Mt:	0602100-01000			
MERCKMAN					
Koningin Wilhelmina 16 6105 Crefanorde					
Tel: 051/2410335 Fax: 051/2410338					
			Schied: 1/5		
			PLANNUMMER: 44.001	FORM: 05/MS	k. 11
			/ 4 /	-	12 p.







NOT FOR PRODUCTION

Ref.	0KPHSLE3	Name	Head plate type HSLE3:---
Drawn	colpaest		
Date	18/03/2014		
Material:	1.0332 (0011 untreated)	Tolerance:	-
		Standard:	I.S.O. SYMBOL
Number	1	Scale:	1 : 2
Edition	A	DRAWING NUMBER	46059
Description of the modification		FORM	A4
Toevoegen van gaten d10 (zonder wfi)		Adapt drawing exclusively with CAD	MONT
18/06/2014	Date	By	P.2
SC			2 P.

VERGOKAN

Meersbloem Melden 16
9700 Oudenaarde
Tel: 055/318335
Fax: 055/314388



NOT FOR PRODUCTION

1	A	vlakke kopplaat	Description of the modification
Number		Edition	
		11/03/2015	Date
		By	
		Adapt drawing exclusively with CAD	
		Scale:	1 : 2
		DRAWING NUMBER	
		FORM	A4
		P.1	
		1 P.	

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

VERGOKAN

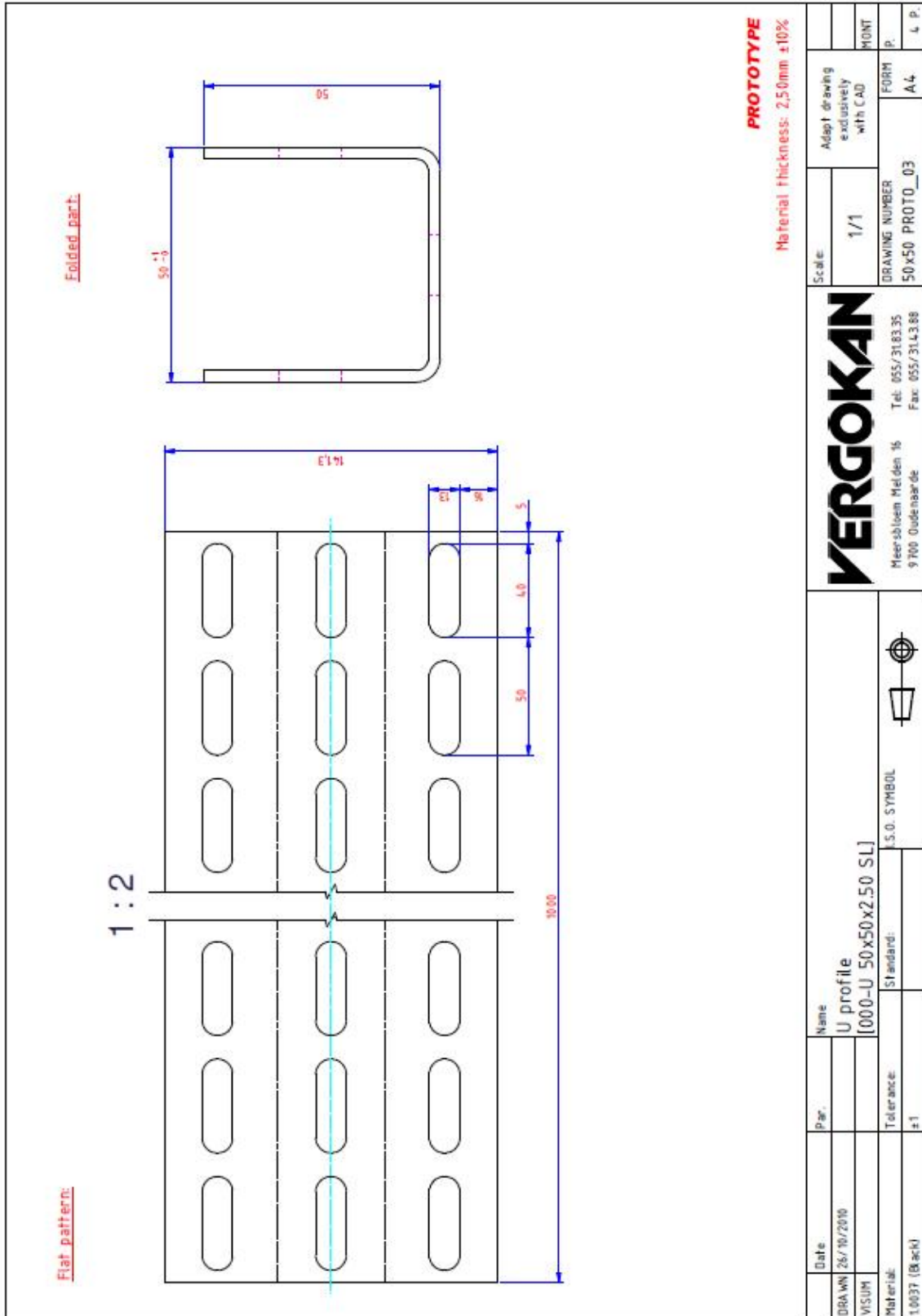
Meersbloem Meiden 16 Tel: 055/3183.35
 9700 Oudenaarde Fax: 055/314.388

Name: Ceiling profile medium heavy, U shape [HDHSMU50.1000]

Standard: I.S.O. SYMBOL

Tolerance: -

Material: 1.0332 (DD11 hot dip)





1	M10x80 (DIN 933)	[B10.80]	Zeskantbout
2	M10 (DIN 9021)	[CRO10]	Carrossieronderstel
3	M10 (DIN 934)	[M10]	Zeskantmoer
4	4.5728	[TTSU50]	Spacer, HSMU 50
item	qty	drawing	reference
Parts list			

NOT FOR PRODUCTION

1	A	Herontwerp naar aanleiding brandtesten 2015 (zie WF HDHSMU50.000 - 27 10 2015)	27/02/2015																								
Number	Edition	Description of the modification	Date																								
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;"></td> <td style="width: 30%;">Scale:</td> <td style="width: 30%;">Adapt drawing exclusively with CAD</td> </tr> <tr> <td></td> <td style="text-align: center;">1 : 2</td> <td></td> </tr> <tr> <td colspan="2"></td> <td style="text-align: center;">DRAWING NUMBER</td> </tr> <tr> <td colspan="2"></td> <td style="text-align: center;">45730</td> </tr> <tr> <td colspan="2"></td> <td style="text-align: center;">FORM</td> </tr> <tr> <td colspan="2"></td> <td style="text-align: center;">A4</td> </tr> <tr> <td colspan="2"></td> <td style="text-align: center;">P.</td> </tr> <tr> <td colspan="2"></td> <td style="text-align: center;">3 P.</td> </tr> </table>					Scale:	Adapt drawing exclusively with CAD		1 : 2				DRAWING NUMBER			45730			FORM			A4			P.			3 P.
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		P.																									
		3 P.																									

Ref.	Name	I.S.O. SYMBOL	
Drawn	Spacer HDHSMU 50		
Date	15/06/2011	Standard:	
Material:		Tolerance:	-
1.0226 (DX51 Pregalva)			



WKM 100 and WKM 200

WKM 300 and WKM 400

PROTOTYPE

Ref.	H	W
WKM 100	76,3	125
WKM 200	85,0	225
WKM 300	93,8	325
WKM 400	102,5	425

Date: 21/03/2011		Name: Heavy joined bracket [WKM 400]	
VSJUM		S.O. SYMBOL	
Material: 1.0037 (Hot dip)		Tolerance: ±1	
Scale: 1/5		Adapt drawing exclusively with CAD	
DRAWING NUMBER: WKM FIRES_05-2011		FORM: A4	
Meersbloem Meiden 16 9700 Oudehaarde		MONT	
Tel: 055/31.83.35		p.	
Fax: 055/31.43.88		11 p.	

