

## **FUNCTION IN FIRE EXPERT JUDGEMENT REPORT WITH CLASSIFICATION IN FIRES-JR-058-16-NURE**

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**Cable bearing system VERGOKAN with cables DÄTWYLER and PRAKAB**

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# FUNCTION IN FIRE EXPERT JUDGEMENT REPORT WITH CLASSIFICATION IN ACCORDANCE WITH STN 92 0205

**FIRES-JR-058-16-NURE**

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

**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 and PRAKAB” in accordance with the classes given in STN 92 0205:2014.

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-052-11-NURE Issue 2, issued on 14. 12. 2011 with validity until 31. 08. 2016. Document FIRES-JR-058-16-NURE replaces expert judgement report with classification FIRES-JR-052-11-NURE Issue 2.

## 2. DETAILS OF CLASSIFIED PRODUCT

### 2.1 GENERAL

The element, Cable bearing system VERGOKAN with cables DÄTWYLER 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 DÄTWYLER 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<sup>-1</sup>. Tested trays were KBSI 60x400x1,00 (new trademark is KBSI60.400.100).

#### **Cable trays KBSTI**

Cable trays are made of steel sheet 1,0 mm thick. Height of side wall is 60 mm. Width of tray is 300 mm or 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 3 pcs of screws VMK 6x10 (new trademark is VMK6.10). Maximum load of trays is 20 kg.m<sup>-1</sup>. Tested trays were KBSTI 60x300x0,75 (new trademark is KBSTI60.300.075) and KBSTI 60x400x1,00 (new trademark is KBSTI60.400.100).

#### **Brackets WKM**

Brackets are made of steel sheet 2,5 mm thick. Dimensions of the head plate 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 300 (new trademark is HDWKM300) and 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 mm 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:

DÄTWYLER cables (producer 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	(6x);
cable JE-H(St)HRH...Bd FE180 E30-E90 2x2x0,8	(6x).

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

cable (N)HXCH FE 180 E90 4x50 RM/25	(2x);
cable (N)HXCH FE 180 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 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- 172-11-AUNE	18. 08. 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 FE180 E30-E60 4x50 RM - Dätwyler	X2 - M	93 minutes no failure / interruption
	S2	cable (N)HXH FE180 E30-E60 4x50 RM - Dätwyler	X2 - M	93 minutes no failure / interruption
	S3	cable (N)HXH FE180 E90 4x50 RM - Dätwyler	X2 - N	93 minutes no failure / interruption
	S4	cable (N)HXH FE180 E90 4x50 RM - Dätwyler	X2 - N	93 minutes no failure / interruption
	S5	cable (N)HXCH FE180 E90 4x50 RM/25 - Dätwyler	X2 - O	93 minutes no failure / interruption
	S6	cable (N)HXCH FE180 E90 4x50 RM/25 - Dätwyler	X2 - O	93 minutes no failure / interruption
	S7	cable (N)HXCH FE180 E30-E60 4x50 RM/25 - Dätwyler	Y2 - P	93 minutes no failure / interruption
	S8	cable (N)HXCH FE180 E30-E60 4x50 RM/25 - Dätwyler	Y2 - P	93 minutes no failure / interruption
	S9	cable (N)HXCH FE180 E30-E60 4x1,5 RE/1,5 - Dätwyler	Y2 - Q	93 minutes no failure / interruption



Test report No. /Test method	Specimen No.	Cables	Track No.	Time to first failure / interruption of conductor
[1] DIN 4102-12	S10	cable (N)HXCH FE180 E30-E60 4x1,5 RE/1,5 - Dätwyler	Y2 - Q	93 minutes no failure / interruption
	S11	cable (N)HXH FE180 E30-E60 4x1,5 RE - Dätwyler	Y2 - Q	93 minutes no failure / interruption
	S12	cable (N)HXH FE180 E30-E60 4x1,5 RE - Dätwyler	Y2 - Q	73 minutes
	S13	cable (N)HXCH FE180 E90 4x2,5 RE/2,5 - Dätwyler	Y2 - R	93 minutes no failure / interruption
	S14	cable (N)HXCH FE180 E90 4x2,5 RE/2,5 - Dätwyler	Y2 - R	93 minutes no failure / interruption
	S15	cable (N)HXH FE180 E90 4x1,5 RE - Dätwyler	Y2 - R	93 minutes no failure / interruption
	S16	cable (N)HXH FE180 E90 4x1,5 RE - Dätwyler	Y2 - R	93 minutes no failure / interruption
	S17	cable (N)HXCH FE 180 E90 4x50 RM/25 - Prakab	Z2 - U	93 minutes no failure / interruption
	S18	cable (N)HXCH FE 180 E90 4x50 RM/25 - Prakab	Z2 - U	81 minutes
	S19	cable (N)HXCH FE 180 E90 4x1,5 RE/1,5 - Prakab	Z2 - U	93 minutes no failure / interruption
	S20	cable (N)HXCH FE 180 E90 4x1,5 RE/1,5 - Prakab	Z2 - U	93 minutes no failure / interruption
	S52	cable JE-H(St)H...Bd FE180 E30-E90 2x2x0,8 - Dätwyler	X2 - M	35 minutes
	S53	cable JE-H(St)H...Bd FE180 E30-E90 2x2x0,8 - Dätwyler	X2 - N	24 minutes
	S54	cable JE-H(St)HRH...Bd FE180 E30-E90 2x2x0,8 -Dätwyler	X2 - O	23 minutes
	S55	cable JE-H(St)HRH...Bd FE180 E30-E90 2x2x0,8 -Dätwyler	Y2 - P	29 minutes
	S56	cable JE-H(St)HRH...Bd FE180 E30-E90 2x2x0,8 -Dätwyler	Z2 - S	33 minutes
	S57	cable JE-H(St)HRH...Bd FE180 E30-E90 2x2x0,8 -Dätwyler	Z2 - S	93 minutes no failure / interruption
	S58	cable JE-H(St)H...Bd FE180 E30-E90 2x2x0,8 - Dätwyler	Z2 - S	30 minutes
	S59	cable JE-H(St)H...Bd FE180 E30-E90 2x2x0,8 - Dätwyler	Z2 - S	93 minutes no failure / interruption
	S60	cable JE-H(St)HRH...Bd FE180 E30-E90 2x2x0,8 -Dätwyler	Z2 - T	41 minutes
	S61	cable JE-H(St)HRH...Bd FE180 E30-E90 2x2x0,8 -Dätwyler	Z2 - T	51 minutes
	S62	cable JE-H(St)H...Bd FE180 E30-E90 2x2x0,8 - Dätwyler	Z2 - T	35 minutes
	S63	cable JE-H(St)H...Bd FE180 E30-E90 2x2x0,8 - Dätwyler	Z2 - T	93 minutes no failure / interruption
	S64	cable JE-H(St)H FE180 E90 2x2x0,8 - Prakab	Z2 - U	93 minutes no failure / interruption
	S65	cable JE-H(St)H FE180 E90 2x2x0,8 - Prakab	Z2 - U	12 minutes

[1] The fire test was discontinued in 94<sup>th</sup> minute at the request of test sponsor.

Specimens S1 – S20 were tested by three-phase voltage supply 3 x 230/400V with bulbs 240V / 60 W. Specimens S52 – S65 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 STN 92 0205:2014

The element, cable bearing system VERGOKAN – cable trays with accessories (consoles, brackets, screws etc.) with power and communication halogen free cables by company DÄTWYLER and PRAKAB is classified according to the following combinations of performance parameters and classes as appropriate.

Cables DÄTWYLER 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 E30-E60	(N)HXH FE180 E30-E60 4x1,5 RE	In cable trays KBSTI60.300.075. Ceiling consoles HDHSMU50.1000 wits brackets HDWKM300. Loading 20 kg.m <sup>-1</sup> . Consoles in spacing of 1500 mm. Non-standard track X2-M and Y2-Q.	PS 60	n x ≥ 1,5 mm <sup>2</sup> n ≥ 2 PS 60
	(N)HXH FE180 E30-E60 4x50 RM		PS 90	
JE-H(St)H... Bd FE180 E30-E90	JE-H(St)H...Bd FE180 E30-E90 2x2x0,8	Non-standard track X2-M and X2-N.	PS 15	n x 2 x ≥ 0,8 mm n ≥ 2 PS 15



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)HXCH FE180 E30-E60	(N)HXCH FE180 E30-E60 4x1,5 RE/1,5	In cable trays KBSTI60.300.075. Ceiling consoles HDHSMU50.1000 wits brackets WKM 300. Loading 20 kg.m <sup>-1</sup> . Consoles in spacing of 1500 mm. Non-standard track Y2-P and Y2-Q.	PS 90	n x ≥ 1,5/1,5 mm <sup>2</sup> n ≥ 2 PS 90
	(N)HXCH FE180 E30-E60 4x50 RM/25		PS 90	
(N)HXH FE180 E90	(N)HXH FE180 E90 4x1,5 RE	In cable trays KBSTI60.300.075. Ceiling consoles HDHSMU50.1000 wits brackets HDWKM300. Loading 20 kg.m <sup>-1</sup> . Consoles in spacing of 1500 mm. Non-standard track X2-N and Y2-R.	PS 90	n x ≥ 1,5 mm <sup>2</sup> n ≥ 2 PS 90
	(N)HXH FE180 E90 4x50 RM		PS 90	
(N)HXCH FE180 E90	(N)HXCH FE180 E90 4x2,5 RE/2,5	In cable trays KBSTI60.300.075. Ceiling consoles HDHSMU50.1000 wits brackets HDWKM300. Loading 20 kg.m <sup>-1</sup> . Consoles in spacing of 1500 mm. Non-standard track X2-O and Y2-R.	PS 90	n x ≥ 2,5/2,5 mm <sup>2</sup> n ≥ 2 PS 90
	(N)HXCH FE180 E90 4x50 RM/25		PS 90	
JE-H(St)HRH... Bd FE180 E30-E90	JE-H(St)HRH...Bd FE180 E30-E90 2x2x0,8	Non-standard track X2-O and Y2-P.	PS 15	n x 2 x ≥ 0,8 mm n ≥ 2 PS 15
JE-H(St)H... Bd FE180 E30-E90	JE-H(St)H...Bd FE180 E30-E90 2x2x0,8	In cable trays KBSTI60.400.100. Ceiling consoles HDHSMU50.1000 wits brackets HDWKM400. Loading 20 kg.m <sup>-1</sup> . Consoles in spacing of 1500 mm. Non-standard track Z2-S.	PS 30	n x 2 x ≥ 0,8 mm n ≥ 2 PS 30
JE-H(St)HRH... Bd FE180 E30-E90	JE-H(St)HRH...Bd FE180 E30-E90 2x2x0,8		PS 30	n x 2 x ≥ 0,8 mm n ≥ 2 PS 30
JE-H(St)H... Bd FE180 E30-E90	JE-H(St)H...Bd FE180 E30-E90 2x2x0,8	In cable trays KBSI60.400.100. Ceiling consoles HDHSMU50.1000 wits brackets HDWKM400. Loading 20 kg.m <sup>-1</sup> . Consoles in spacing of 1500 mm. Non-standard track Z2-T.	PS 30	n x 2 x ≥ 0,8 mm n ≥ 2 PS 30
JE-H(St)HRH... Bd FE180 E30-E90	JE-H(St)HRH...Bd FE180 E30-E90 2x2x0,8		PS 30	n x 2 x ≥ 0,8 mm n ≥ 2 PS 30



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
(N)HXCH FE 180 E90	(N)HXCH FE 180 E90 4x1,5 RE/1,5	In cable trays KBSI60.400.100. Ceiling consoles HDHSMU50.1000 with brackets WKM 400. Loading 20 kg.m <sup>-1</sup> . Consoles in spacing of 1500 mm. Non-standard track Z2-U.	PS 90	n x ≥ 1,5 mm <sup>2</sup> n ≥ 2 PS 60
	(N)HXCH FE 180 E90 4x50 RM/25		PS 60	
JE-H(St)H FE180 E90	JE-H(St)H FE180 E90 2x2x0,8		Without classification	Without classification

The element, cable bearing system VERGOKAN – cable trays with accessories (consoles, brackets, screws etc.) with power and communication halogen free cables by company DÄTWYLER and PRAKAB 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 DÄTWYLER and PRAKAB;
- condition for the validity of direct application of the test results is that the supporting and fixing structure is fixed only to the building structure, which allows the statically required time of fire resistance, i.e. fulfils the criterion R;
- 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;
- test results of cables tested in cable trays are applicable also for cable trays with cover ensured against movement by appropriate means;
- classification for type of cable (by cross-sections and number of conductors) is valid only for tested cable types, number and cross-sections of conductors;
- classification for cable is valid for all numbers and cross-sections of tested cable type;
- test results of function in fire test of cables tested at standard supporting construction are also applicable for tested standard supporting 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 function in fire test of cables at nonstandard supporting construction are valid only for tested construction with particular tested cable type and are also applicable for supporting construction with smaller spacing of consoles and smaller loading;
- test results of cables tested in cable trays or ladders are applicable also for cable trays and ladders with particular construction with smaller width as tested with particular smaller loading;
- test results of cables tested in bearing system made from steel acc. to STN EN 61537 are applicable also for bearing system made from stainless steel, but not conversely;
- test results of cables with five or four conductors are applicable also for cables with less number of conductors apart from cables with one conductor;
- if only cables with the smallest or largest cross-section achieve the required function in fire classification, the test results are valid only for the particular cross-section and way of installation
- test results of communication cables are applicable also for all numbers and cross-sections of conductors bigger than tested cable type;



- 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 results of cables tested at cable trays or ladders are applicable also for another products trays and ladders (cross, elbow, T-bend, bends and etc.);
- test results of cables tested at cable trays or ladders are applicable also for bearing system with surface treatment (colour paint) with maximum thickness 1 mm;
- 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;**
- **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:

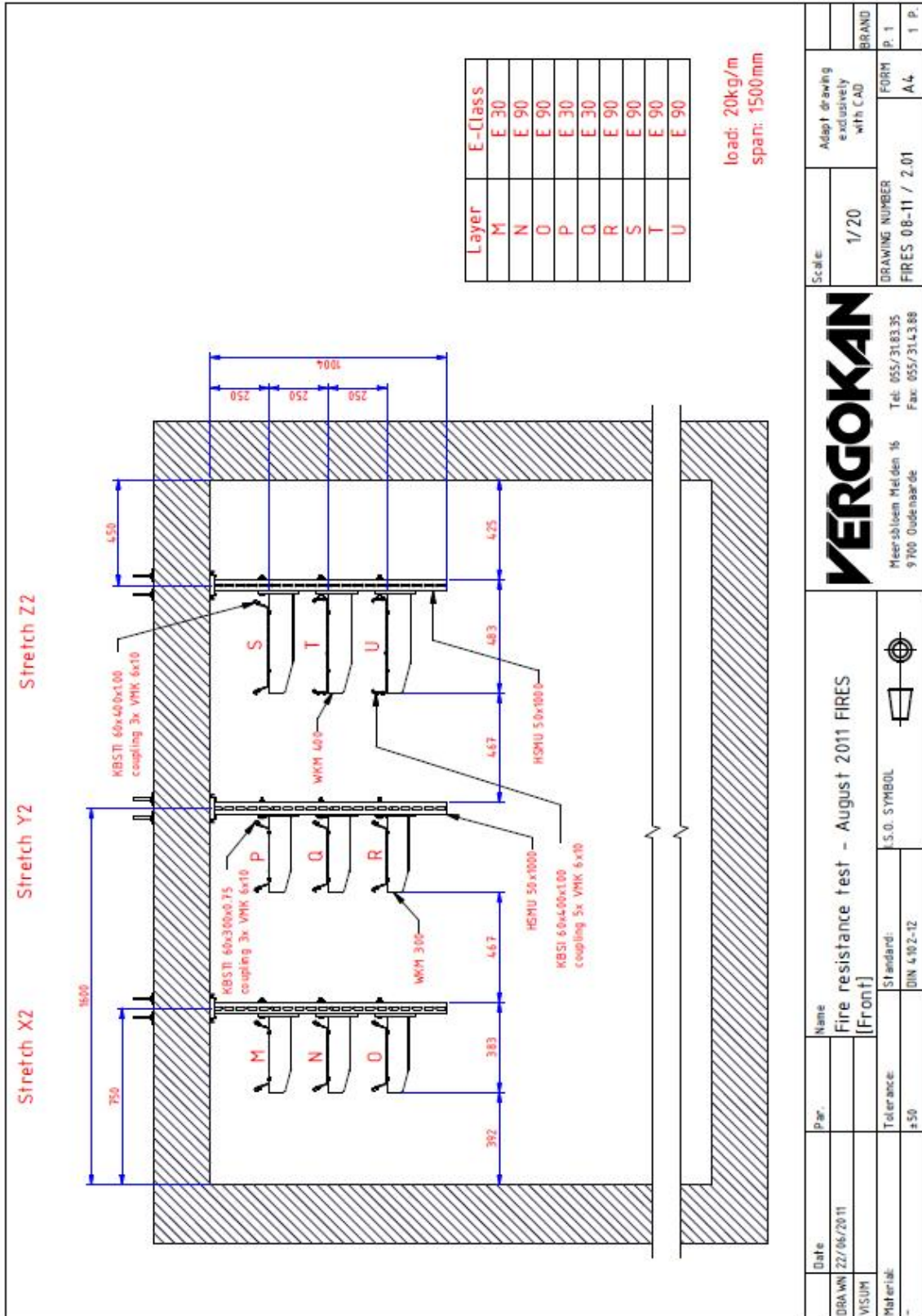
Ing. Štefan Rástocký  
leader of the testing laboratory

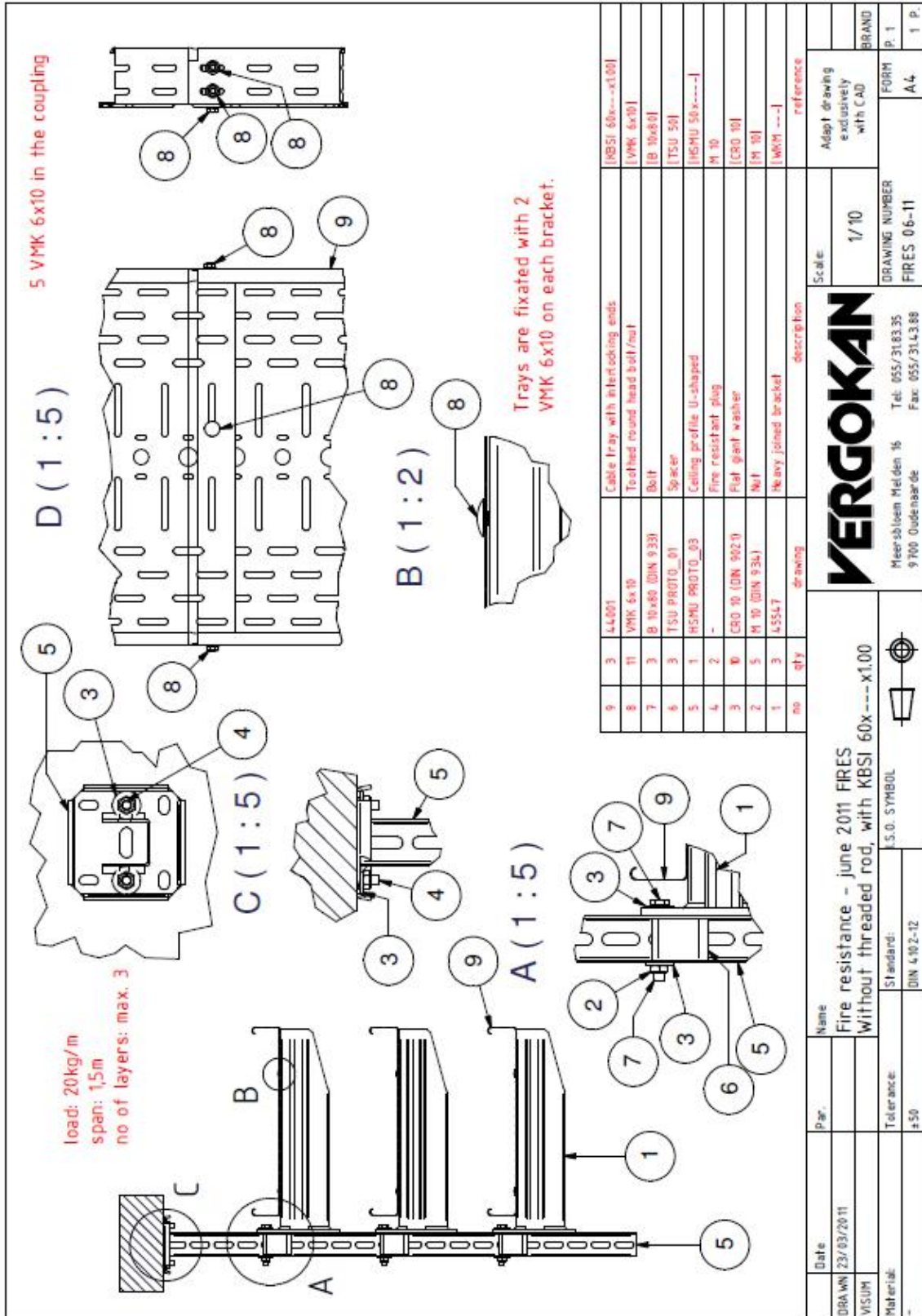


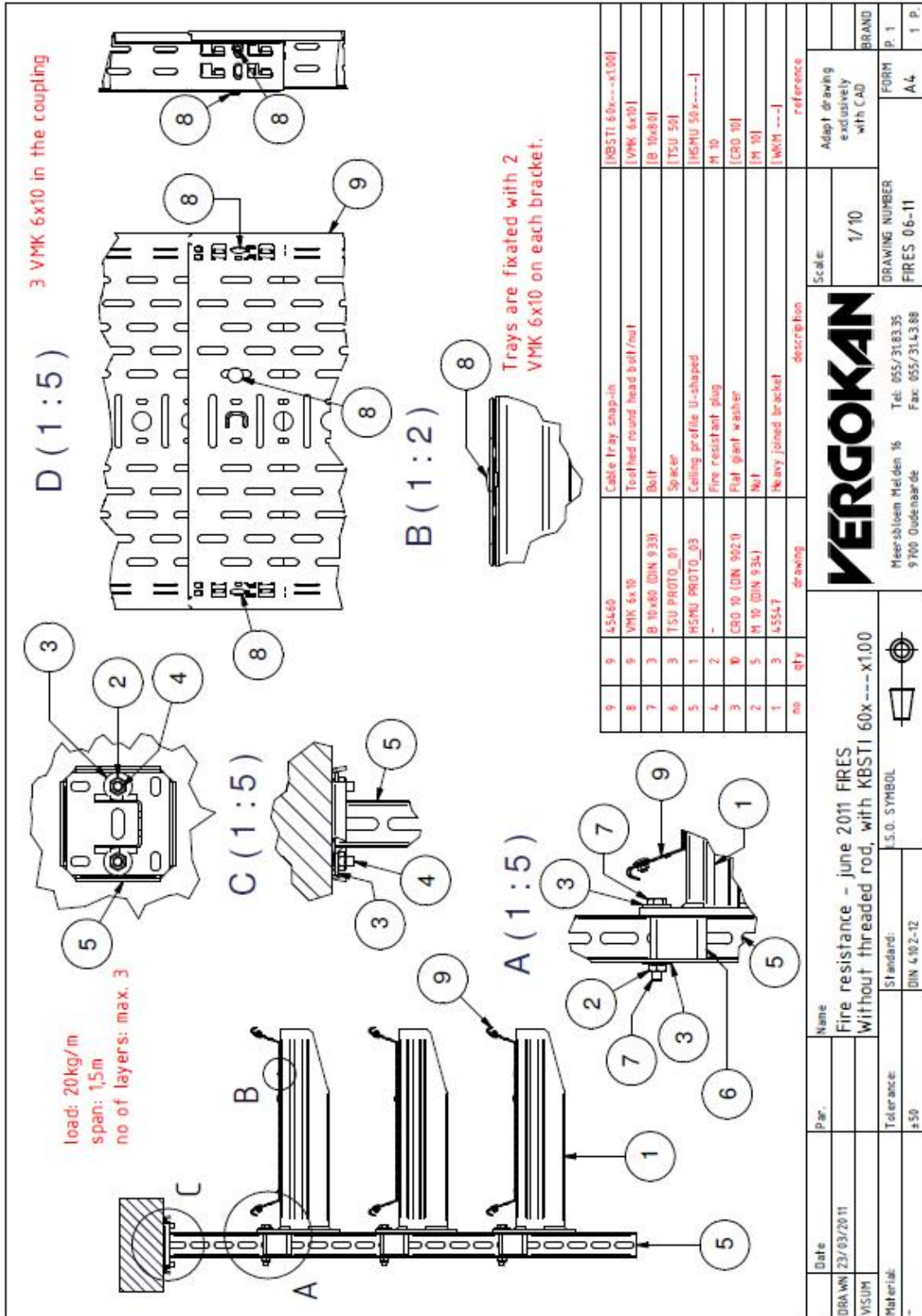
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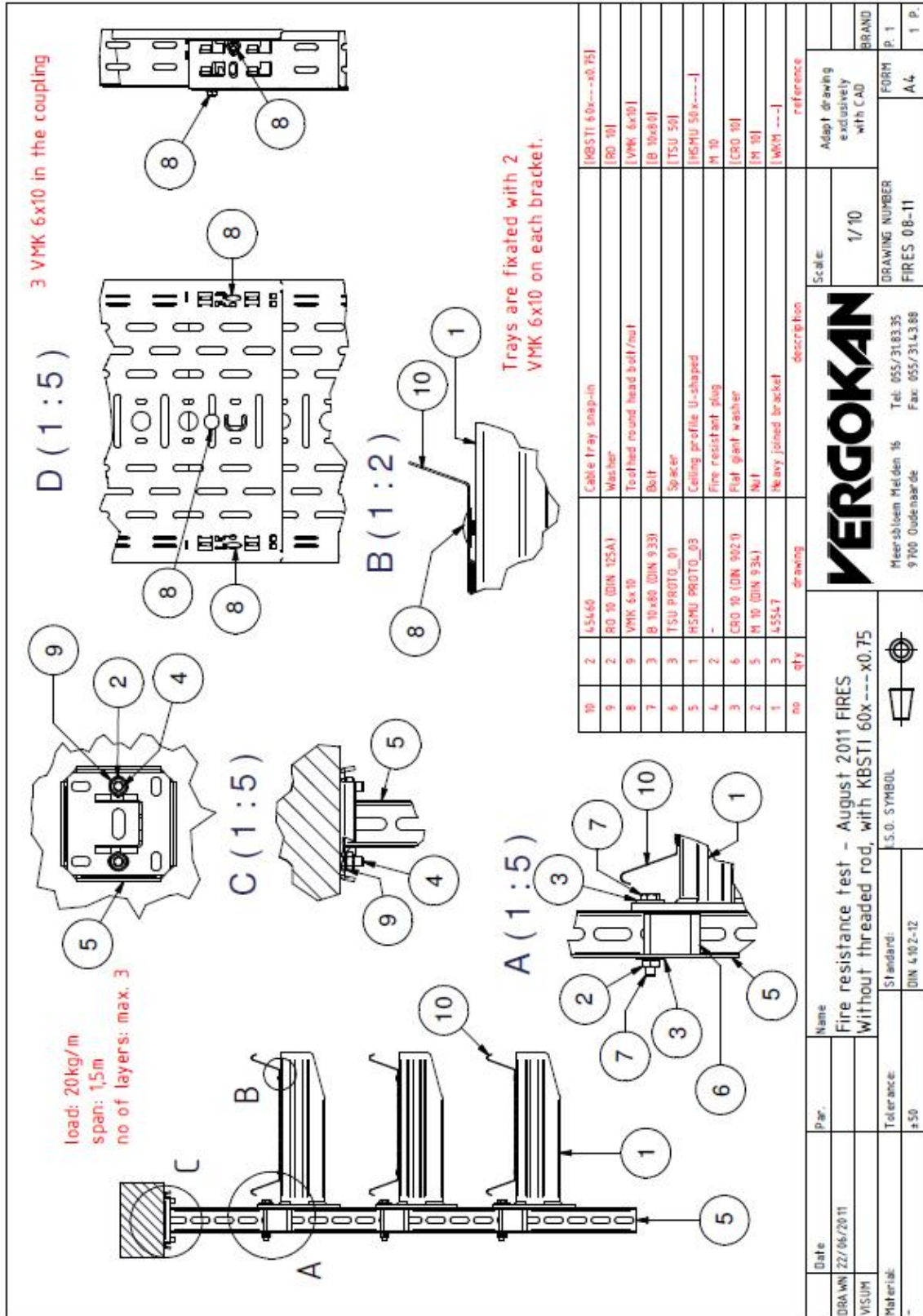
Miroslav Hudák  
technician of the testing laboratory















**NOT FOR PRODUCTION**

1	A	Scherptekening afwerkingspatroon (NF 484) voor type (00 25/05/2010)	05/05/2010	-	-
soort	Nr.	omschrijving afwerkingspatroon	datum	get.	revisie
		<b>MERCKMAN</b>			
		Tel. 055/244335 Fax. 055/244338 Heerstraten 16 6705 Oudegraven			
		Schaal : 1/5 PLANNUMMER : 44.001 / 4 / -			
		Benaming : Kabelbaan ineenstuurbaar Perforatiepatronen			
		Naam : U.S.A. SYRIBEL			
		Datum : 02-01-08			
		Par. : -			
		Toleranties : 10 - 5			
		Tekening : 1.0037_Schermkabel			
		Form : FORM 05/MS			
		K. 1			
		12 p.			



**NOT FOR PRODUCTION**

Type	dim WT	dim WT(in)	dim WB	material thickness
KBSTI 60x150	154	125	85	0.6-0.75-1
KBSTI 60x200	204	175	135	0.6-0.75-1
KBSTI 60x250	254	225	185	0.6-0.75-1
KBSTI 60x300	304	275	235	0.75-1
KBSTI 60x400	404	375	335	0.75-1

Daum: 24/06/2016

VISUM

Materiaal: 1.0037 (Sandzink)

**VERGOKAN**

Meer sbl oem Melden 16  
9700 Oudenaarde

Tel: 055/31.83.35  
Fax: 055/31.43.88

Norm: I.S.O. SYMBOL

Toleranties: IEC 61537

Schaal: PLANNUMMER 4.54-60

Tekening enkel m.b.v. CAD aangepast

FORM P. 10 A4

KBAAN 12 P.



KBSTI 300

KBSTI 400

KBSTI 150

KBSTI 200

KBSTI 250

**NOT FOR PRODUCTION**

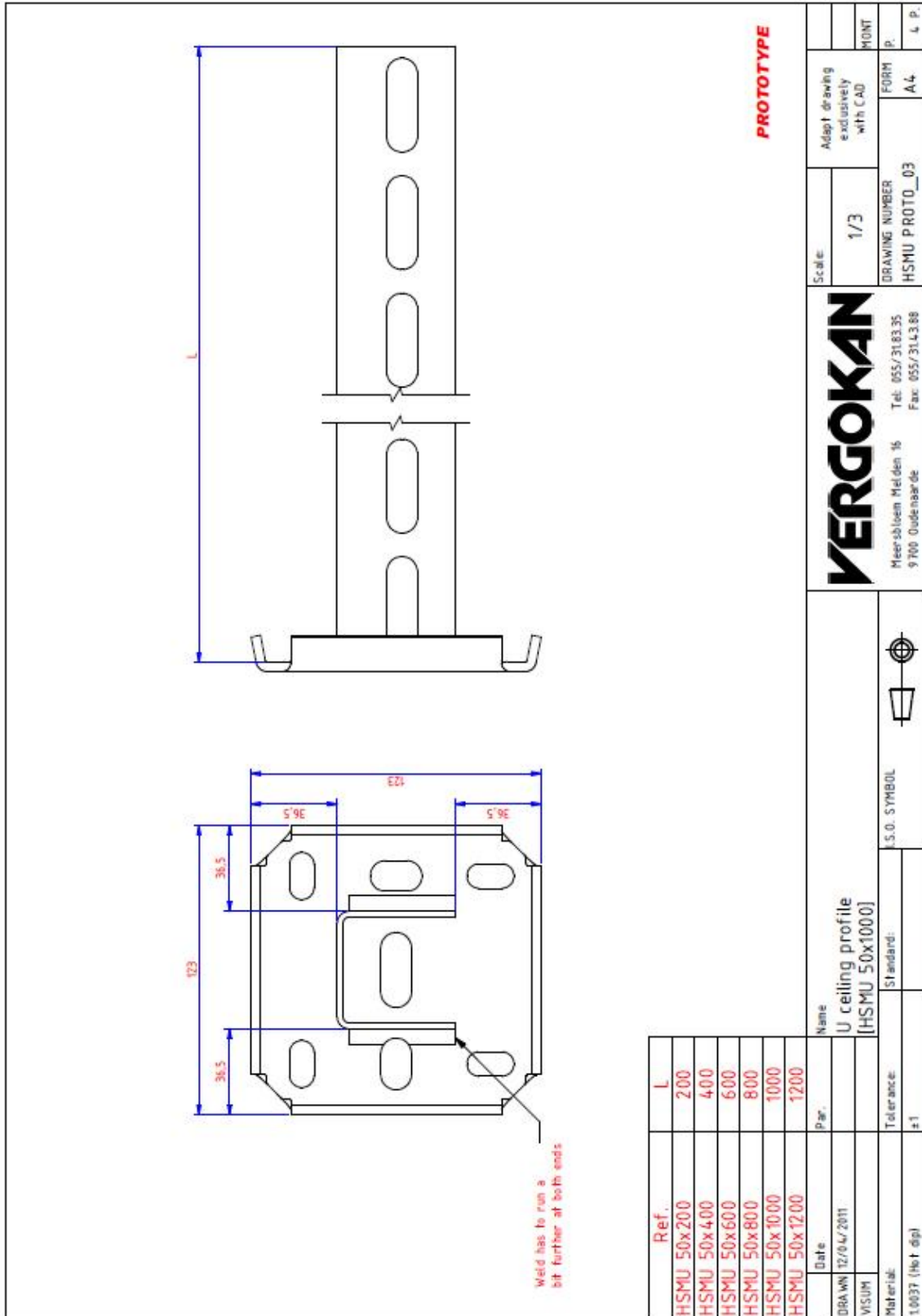
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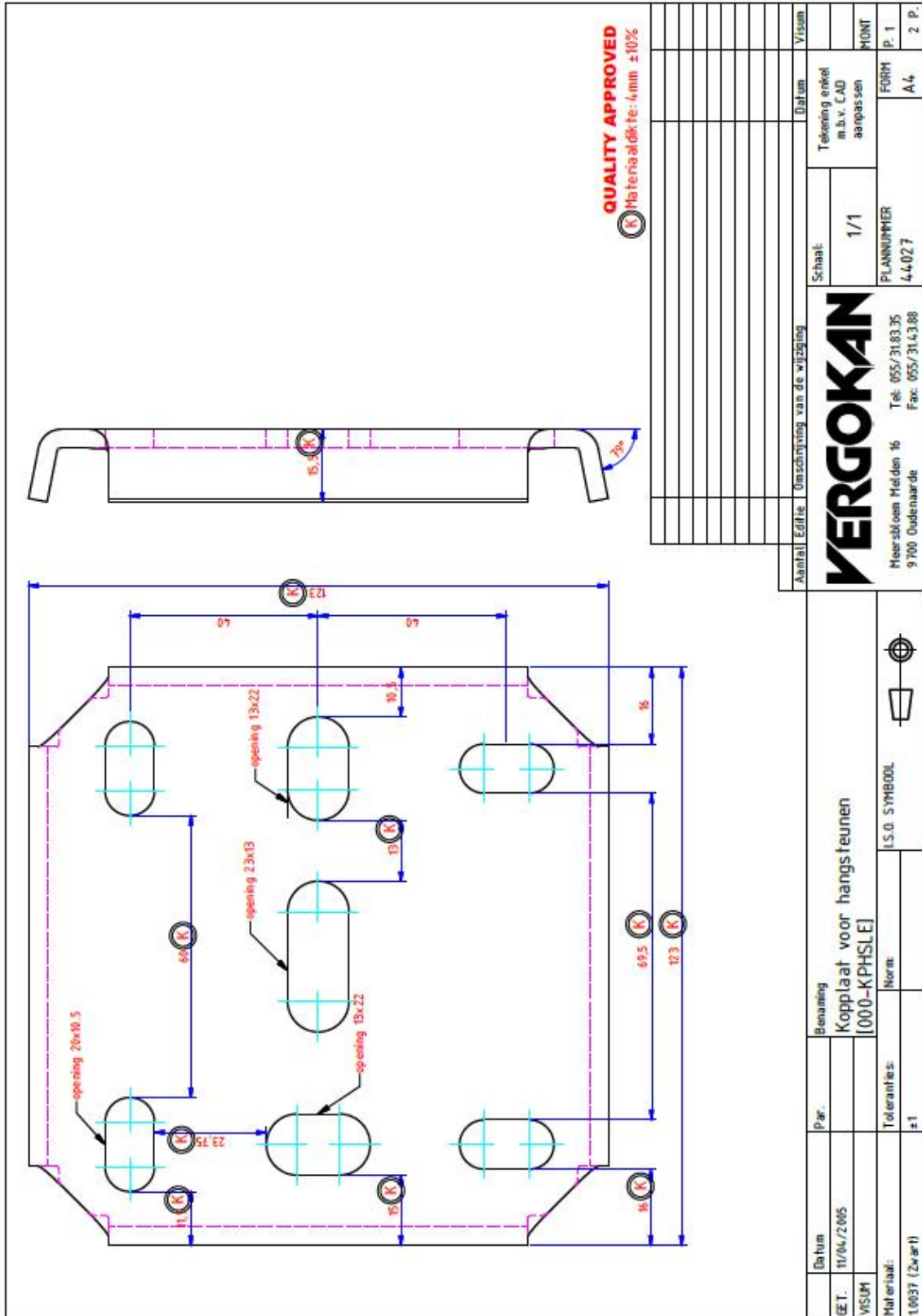
Datum	Par.	Benaming	Schaal:	Tekening enkel	KBAAN
GET. 3/03/2009		Bodemperforatie : KBSTI 60x x	1/5	m.b.v. CAD	
VISUM		Bottom perforation	PLAANNUMMER	aangepassen	FORM P. 12
Materiaal:		Norm:	45460		A4
1.0037 (Sendzimir)		S.S.O. SYMBOL			12 P.

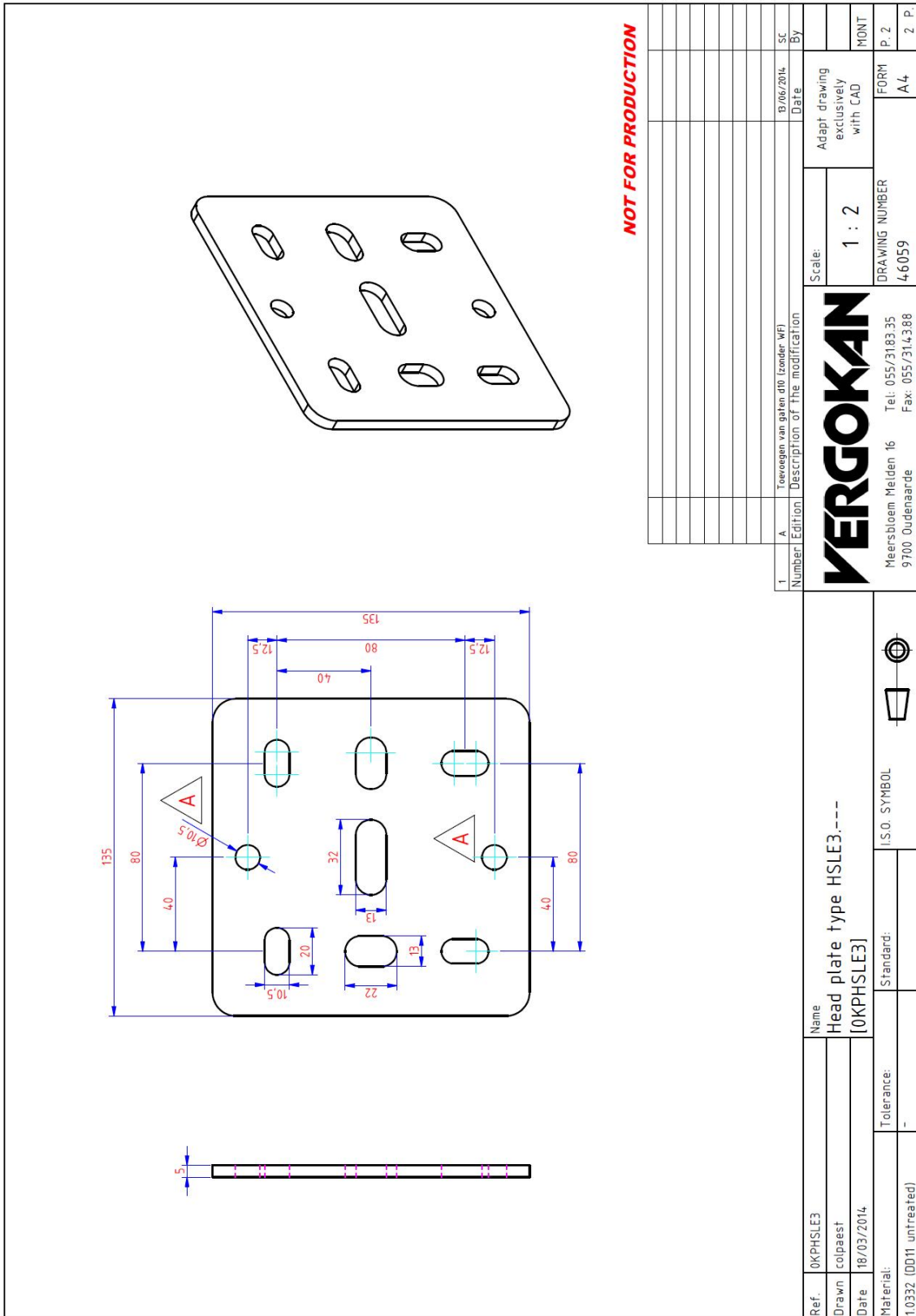
**VERGOKAN**

Meersbloem Meiden 16 Tel: 055/31.83.35  
 9700 Oudenaarde Fax: 055/31.43.88









NOT FOR PRODUCTION

Ref.	0KPHSLE3	Name	Head plate type HSLE3:---	Number	1	Edition	A	Toevoegen van gaten d10 (zonder WF)	Date	18/06/2014	By	SC
Drawn	colpaest			Description of the modification								
Date	18/03/2014			Scale:		1 : 2		Adapt drawing exclusively with CAD		FORM		P. 2
Material:	1.0332 (0011 untreated)	Tolerance:	-	DRAWING NUMBER		46059		DRAIVING NUMBER		A4		2 P.
		Standard:	I.S.O. SYMBOL	VERGOKAN		Meersbloem Melden 16		Tel: 055/318335		Fax: 055/314388		



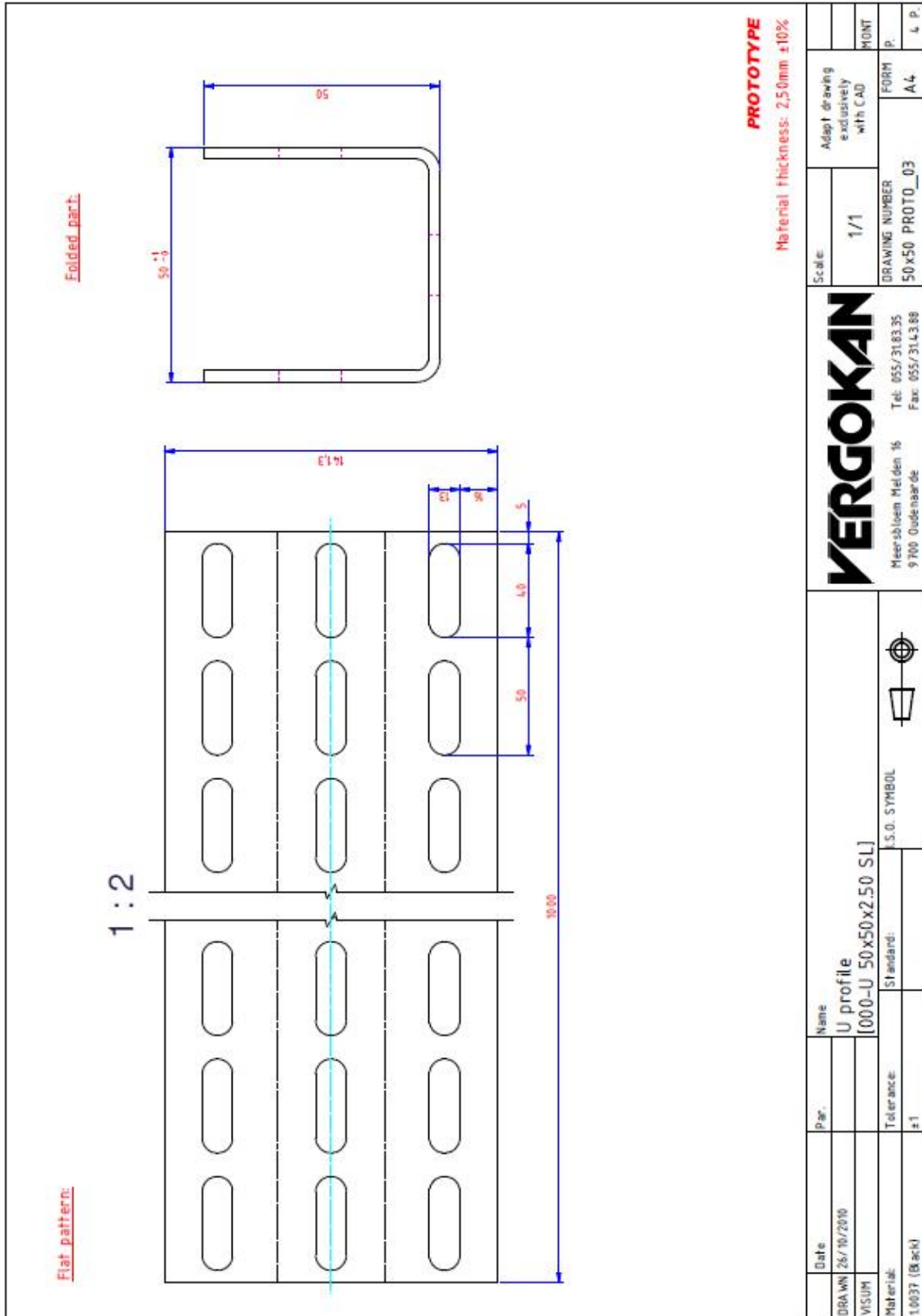
**NOT FOR PRODUCTION**

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.

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

Ref.	L	Name
HDHSMU50.200	200	Ceiling profile medium heavy, U shape
HDHSMU50.300	300	[HDHSMU50.1000]
HDHSMU50.400	400	Standard:
HDHSMU50.500	500	I.S.O. SYMBOL
HDHSMU50.600	600	Tolerance:
HDHSMU50.800	800	-
HDHSMU50.1000	1000	
HDHSMU50.1200	1200	
HDHSMU50.1500	1500	

Ref.	Paul Note	Material
HDHSMU50.-----		1.0332 (DD11 hot dip)
Drawn	11/04/2011	



Date:	26/10/2010	Par.:		Name:	U profile	Scale:	1/1	Adapt drawing exclusively with CAD		
DRAWN:	VISUM				[000-U_50x50x2.50 SL]				FORM P.	
Material:	1.0037 (Black)	Tolerance:	#1	Standard:	S.S.O. SYMBOL	DRAWING NUMBER	50x50 PROTO_03		A4	
					Meersbloem Meiden 16 9700 Oudenaarde		Tel: 055/31.83.35 Fax: 055/31.43.88		L. P.	

**VERGOKAN**





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 - 21 10 2015)	27/02/2015
Number	Edition	Description of the modification	Date

<b>VERGOKAN</b>	Scale: 1 : 2
Meersbloem Meiden 16 9700 Oudenaarde	DRAWING NUMBER 45730
Tel. 055/3183 35 Fax. 055/314388	FORM A4

Ref.	TSU--	Name	Spacer HDHSMU 50
Drawn		Paul Note	[TTSU50]
Date	15/06/2011	Tolerance:	-
Material:	1.0226 (DX51 Pregalva)	Standard:	
		I.S.O. SYMBOL	

	Adapt drawing exclusively with CAD
	MONT
	P.
	3 P.



**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:		Name:	
DRAWN 21/03/2011		Heavy joined bracket	
VSJUM		[WKM 400]	
Material:		Standard:	
1.0037 (Hot dip)		S.O. SYMBOL	
Tolerance:		S.O. SYMBOL	
±1			

Scale:		Adapt drawing exclusively with CAD	
1/5		MONT	
DRAWING NUMBER		FORM	
WKM FIRES 05-2011		A4	
PROTTO_05		11 P.	

**VERGOKAN**

Meersbloem Meiden 16  
9700 Oudehaarde  
Tel: 055/31.83.35  
Fax: 055/31.43.88



