

INFORMATION FOLDER / DOCUMENT:

PURSUANT TO UN/ECE REGULATION No. 14
“UNIFORM PROVISIONS CONCERNING THE APPROVAL
OF VEHICLES WITH REGARD TO SAFETY-BELT
ANCHORAGES, ISOFIX ANCHORAGES SYSTEMS
AND ISOFIX TOP TETHER ANCHORAGES”
(as last amended)

FOR A SEATS TYPE

OKBeeSAFE 04

.....
Marcin Jankowski
CO-OWNER

Total number of pages: 29

Date of issue: 11.08.2015

List of documentation and supplements

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Confirmation

We hereby declare that the vehicle specimens submitted for this approval test have been manufactured and assembled on conditions of ordinary mass production and that they are compatible with the enclosed documentation.

Date of issue: *11 August 2015*

.....
Marcin Jankowski
CO-OWNER

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0. GENERAL
- 0.1 Make (trade name of manufacturer): OKBee
- 0.2 Type: SAF04,
- 0.2.1 Commercial name(s) (if available): OKBeeSAFE 04,
- 0.3 Means of identification of type: N/A
- 0.3.1 Location of that marking: N/A
- 0.4 Category of vehicle: M1
- 0.5 Name and address of manufacturer: OKB JANKOWSKI GOLIŃSKI SP. J.
ul. Rokicińska 108/110
Bukowiec, 95-006 Brójce, Polska
- 0.8 Name(s) and address(es) of assembly plant(s): OKB JANKOWSKI GOLIŃSKI SP. J.
ul. Rokicińska 108/110
Bukowiec, 95-006 Brójce, Polska
1. GENERAL CONSTRUCTION CHARACTERISTICS OF THE VEHICLE
- 1.1 Photographs and/or drawings of a representative vehicle: N/A
9. BODYWORK
- 9.1 Type of bodywork using the codes set out in Part C of Annex II of Directive 2007/46/EC: N/A
- 9.10 Interior arrangement N/A
- 9.10.3 Seats
- 9.10.3.1 Number of seating positions: N/A
- 9.10.3.1.1 Location and arrangement: N/A
- 9.10.3.2 Seat(s) designated for use only when the vehicle is stationary: N/A
- 9.10.3.3 Mass: OKBeeSAFE 04 – 30 kg – mass of the heaviest configuration
- 9.10.3.4 Characteristics: for seats not type-approved as components, description and drawings of
- 9.10.3.4.1 The seats and their anchorages: See Enclosure 1, Enclosure 2
- 9.10.3.4.2 The adjustment system: N/A
- 9.10.3.4.3 The displacement and locking systems: N/A

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- 9.10.3.4.4 The seat-belt anchorages
(if incorporated in the seat structure): OKBeeSAFE 04 – see Enclosure 1
- 9.10.3.4.5 The parts of the vehicle used as anchorages: N/A
- 9.10.3.5 Coordinates or drawing of the R-point
- 9.10.3.5.1 Driver's seat: N/A
- 9.10.3.5.2 All other seating positions: OKBeeSAFE 04 – see Enclosure 1
- 9.10.3.6 Design torso angle
- 9.10.3.6.1 Driver's seat: N/A
- 9.10.3.6.2 All other seating positions: OKBeeSAFE 04 – 15°-23°
- 9.10.3.7 Range of seat adjustment
- 9.10.3.7.1 Driver's seat: N/A
- 9.10.3.7.2 All other seating positions: N/A
- 9.10.4. Head restraints
- 9.10.4.1. Type(s) of head restraints: OKBeeSAFE 04 – adjustable,
- 9.10.4.2. Type-approval number(s), if available: N/A
- 9.10.4.3. For head restraints not yet approved N/A
- 9.12. Safety belts and/or other restraint systems
- 9.12.1. Number and position of safety belts and restraint systems and seats on which they can be used:
(L = left, R = right, C = centre)

		Complete EC type-approval mark	Variant (if applicable)	Belt adjustment device for height
First row	L	N/A	N/A	N/A
	C	N/A	N/A	N/A
	R	N/A	N/A	N/A
Other rows	L or R	E1 16R-04 0876*	E20 16R-04 0656* E1 16R-04 0396*	N/A

*- seats alternatively mounted symmetrically about the longitudinal symmetry line

- 9.12.2. Nature and position of supplementary restraint system:
(L = left, R = right, C = centre)

ISOFIX anchorages mounted on both seating positions.

- 9.12.3. Nature and position of safety belt anchorages and proof of compliance with ECE R 14 or Directive 76/115/EEC: N/A

- 9.12.4. Brief description of the electrical/electronic components (if any): N/A

9.13 Safety belt anchorages

- 9.13.1 Photographs and/or drawings of the bodywork showing the position and dimensions of the actual and effective anchorages including the R-points: See Enclosures

- 9.13.2 Drawings of the belt anchorages and parts of the vehicle structure where they are attached (with the material indication): See Enclosure 1

- 9.13.3 Designation of the types of safety belt authorised for fitting to the anchorages with which the vehicle is equipped:

	Anchorage location	
	Vehicle structure	Seat structure
First row of seats	N/A	N/A

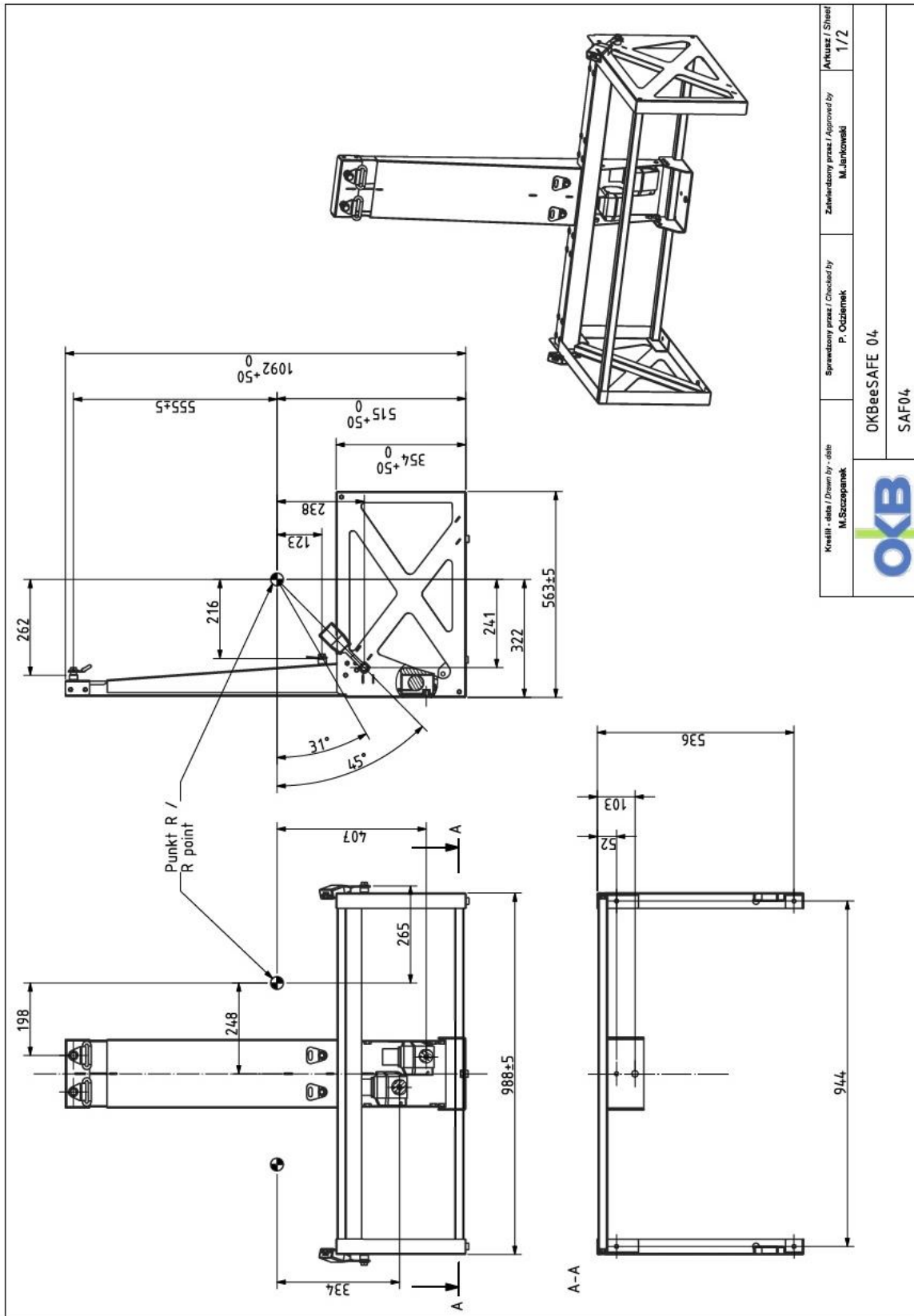
Second row of seats			Anchorage location	
			Vehicle structure	Seat structure
Left-hand seat	Lower anchorages	outboard	--	Ar
		inboard	--	Ar
	Upper anchorages		--	Ar
Right-hand seat	Lower anchorages	outboard	--	Ar
		inboard	--	Ar
	Upper anchorages		--	Ar

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- 9.13.4 Description of a particular type of safety belt where an anchorage is located in the seat backrest or incorporates an energy dissipating device: Ar4m

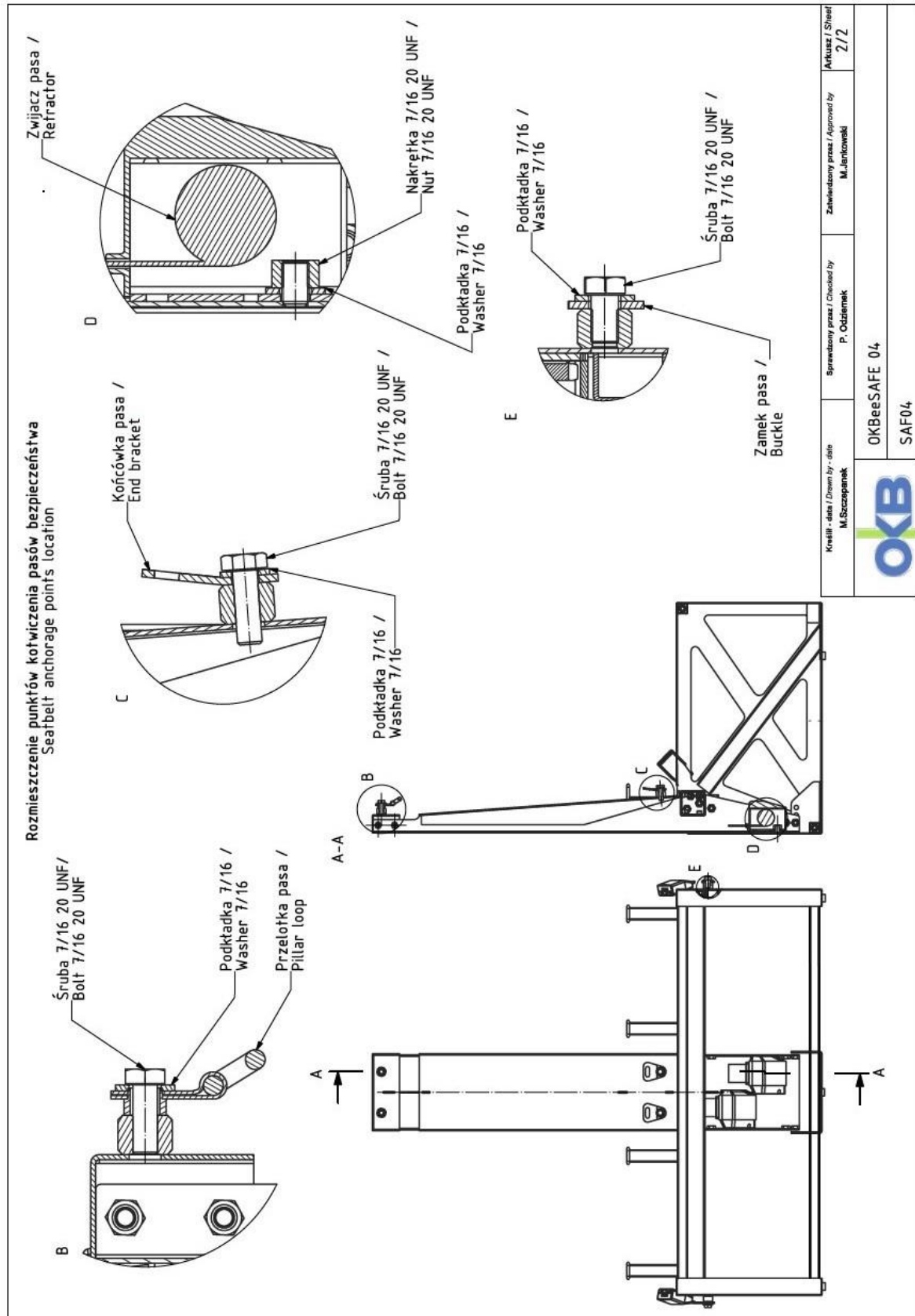
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Enclosure 1: DRAWINGS OF SEATS AND SEATBELTS ANCHORAGES

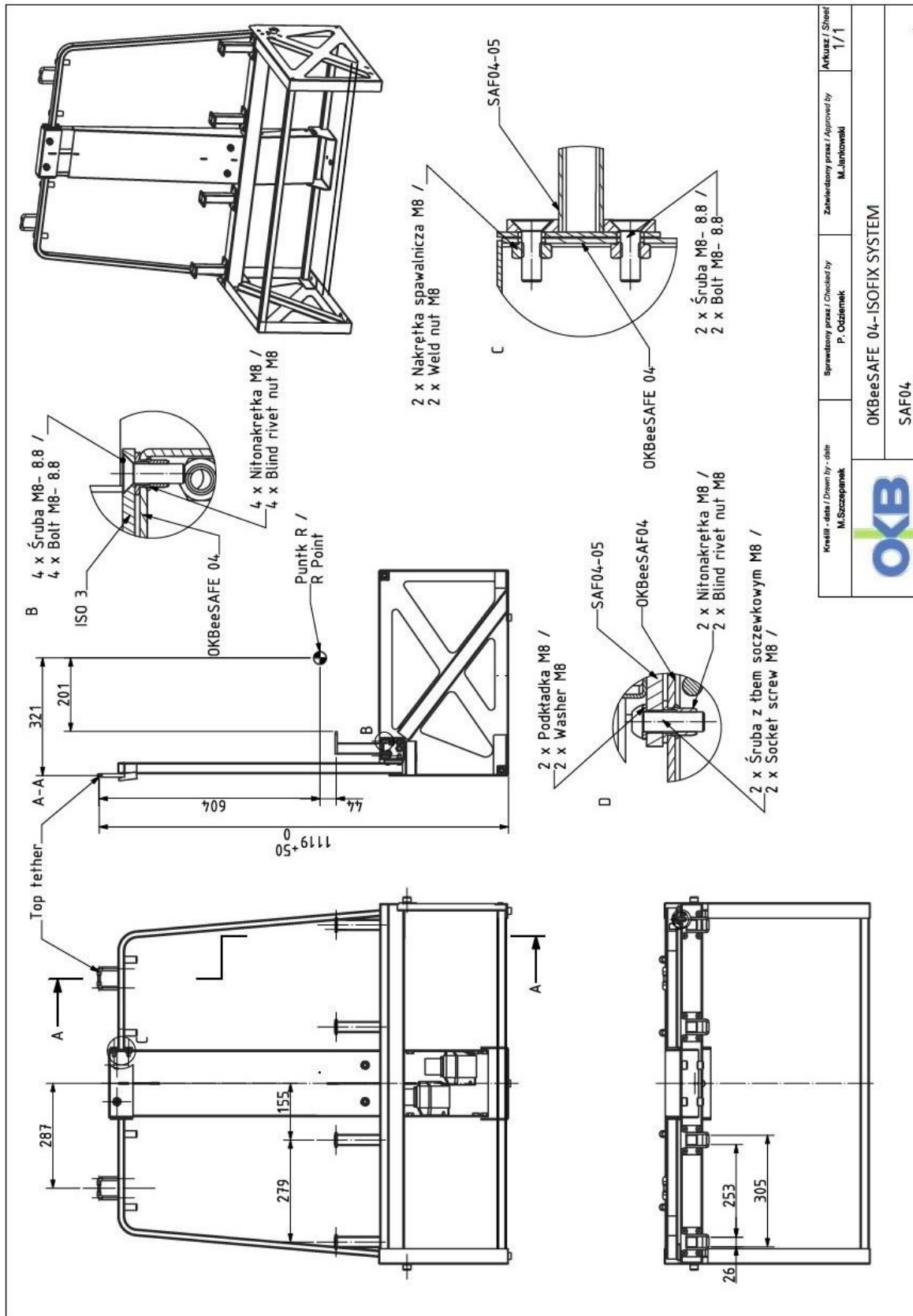


Kreślił - data / Drawn by - date M. Szczepaniak	Sprawdził projekt / Checked by P. Odiłmek	Zatwierdził projekt / Approved by M. Jankowski	Arkusz / Sheet 1 / 2
OKBeSAFE 04			SAF04

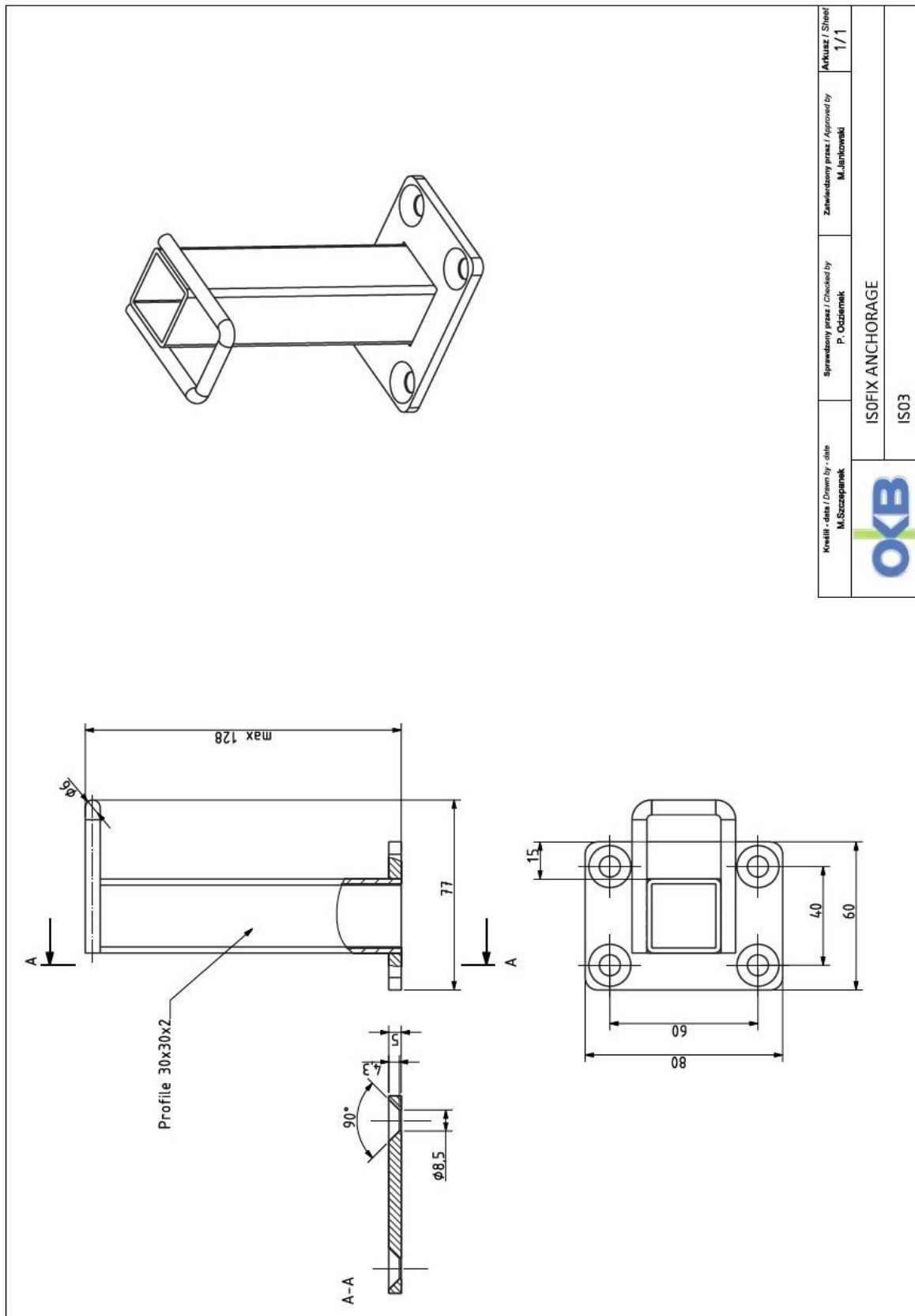
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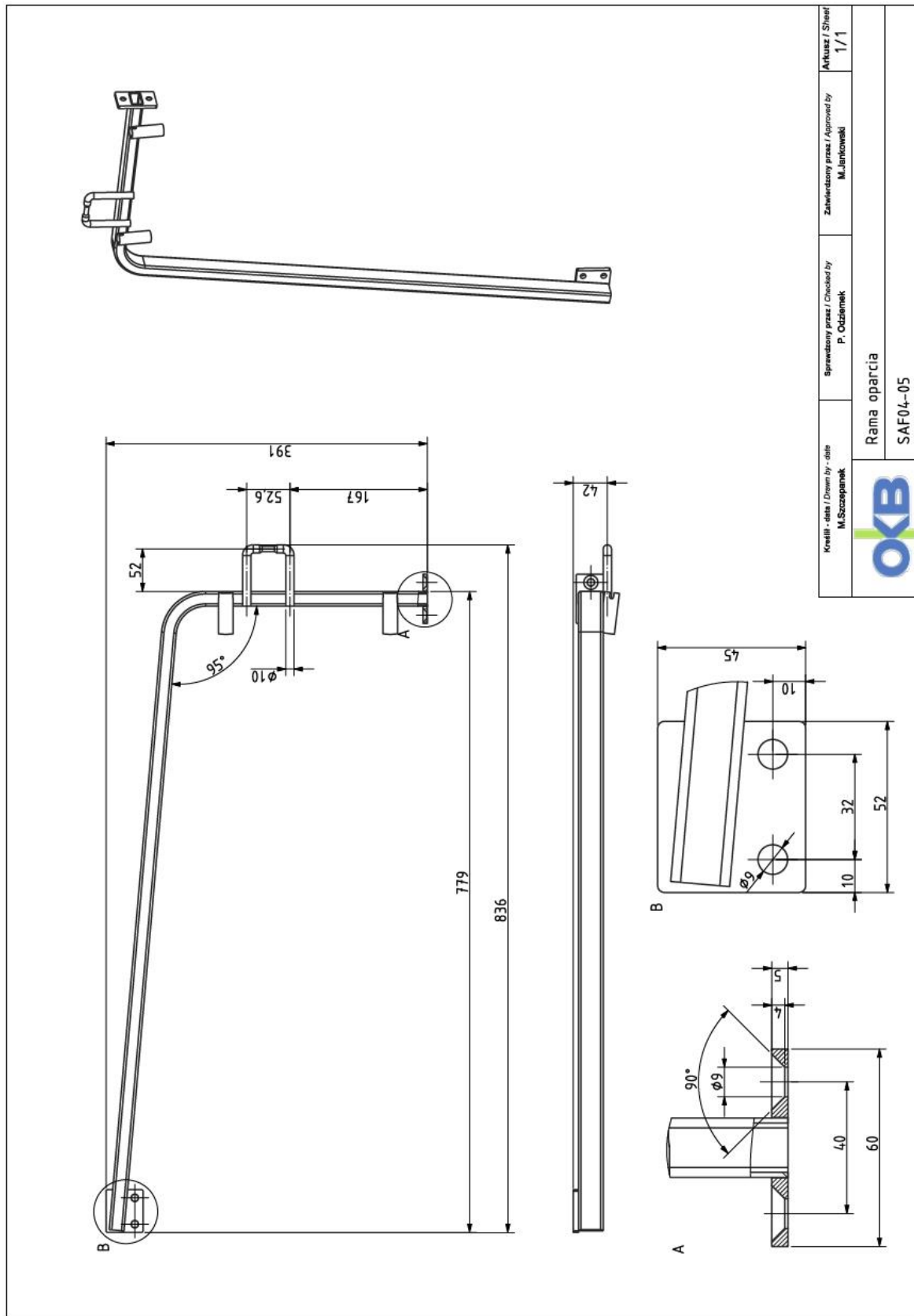


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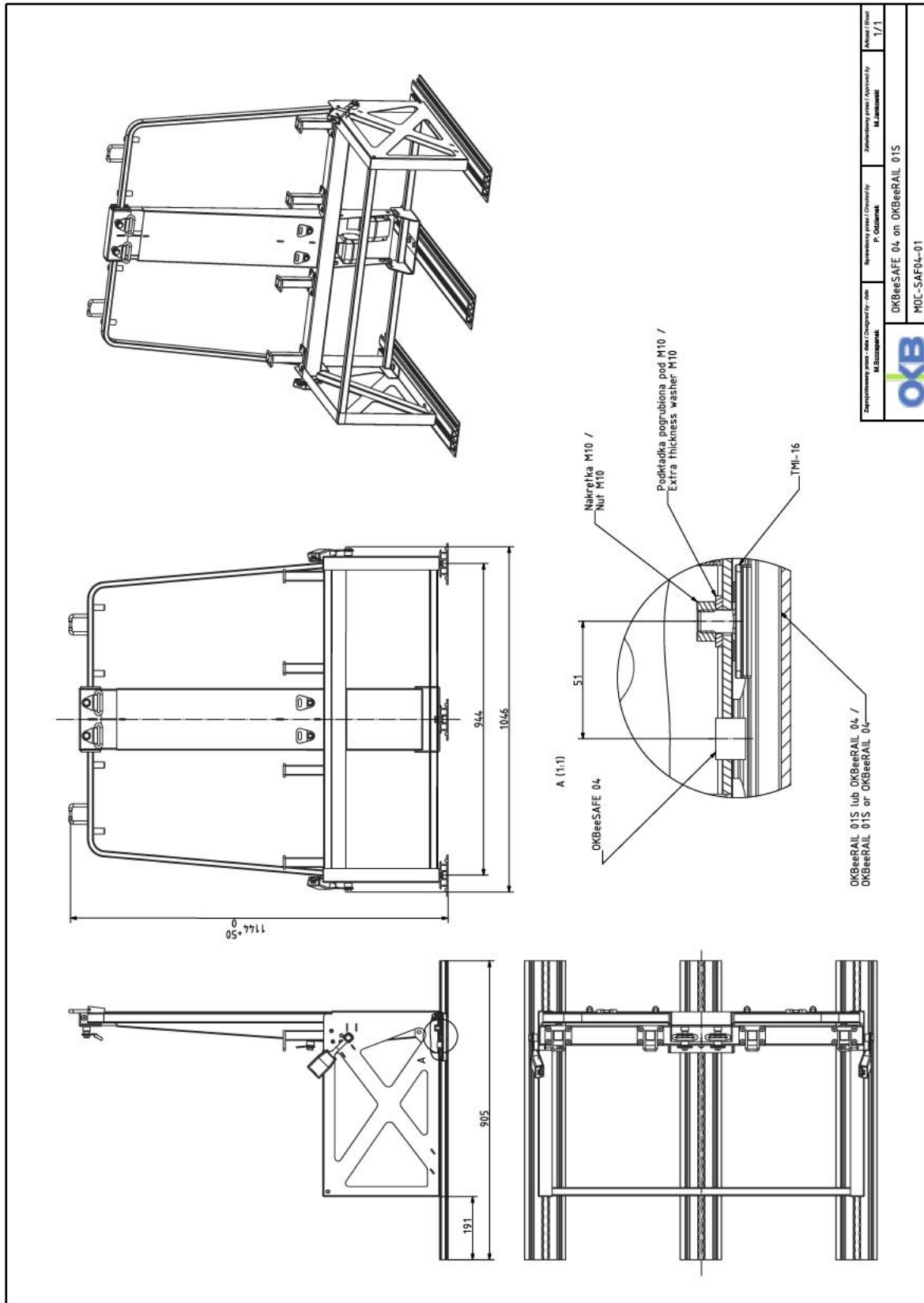
Kreślił - data / Drawn by - date	M. Szczepaniak	Sprawdzający projekt / Checked by	P. Odtłonek	Zatwierdzający projekt / Approved by	M. Marikowski	Arkusz / Sheet	1 / 1
ISOFIX ANCHORAGE							
IS03							

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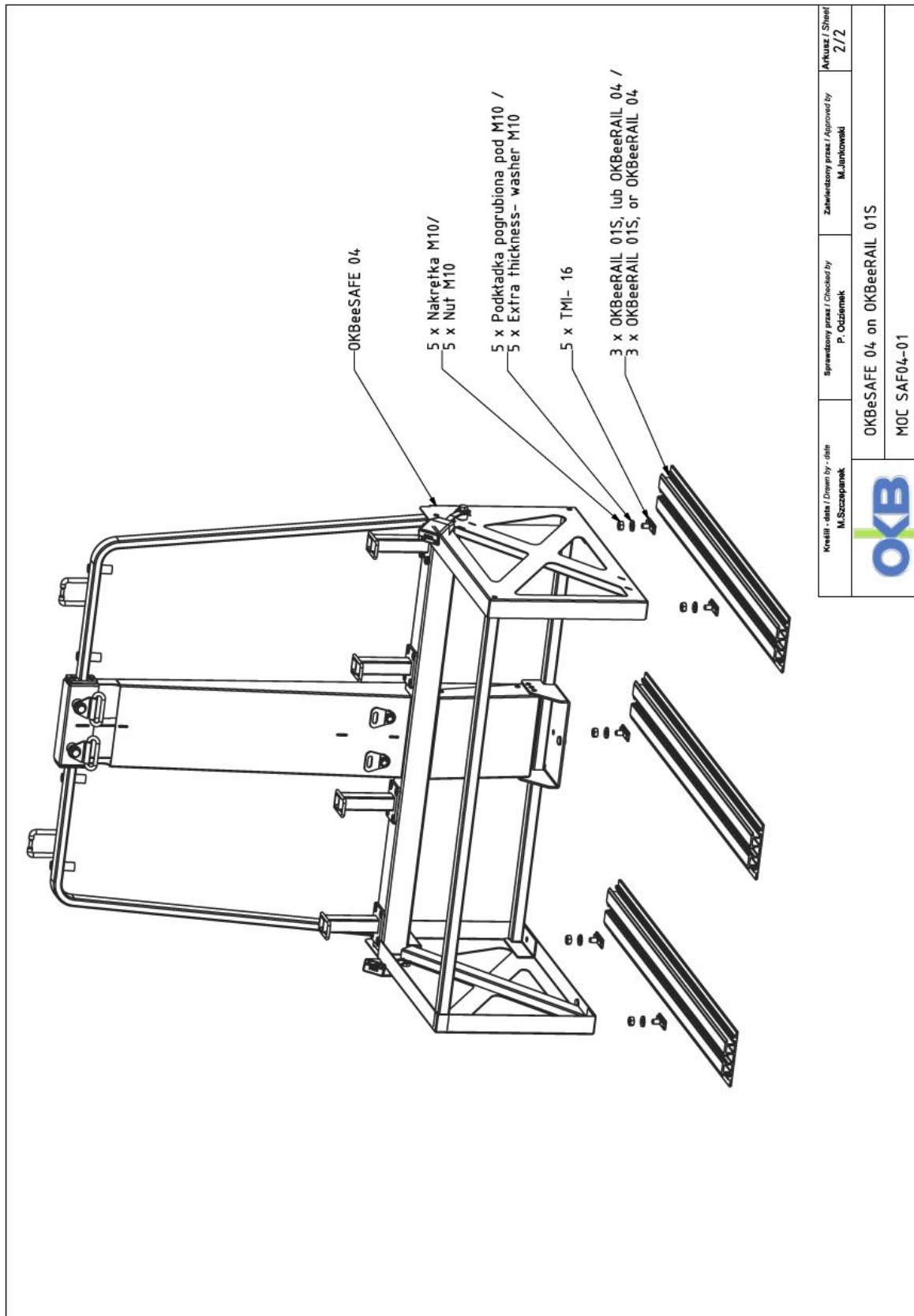


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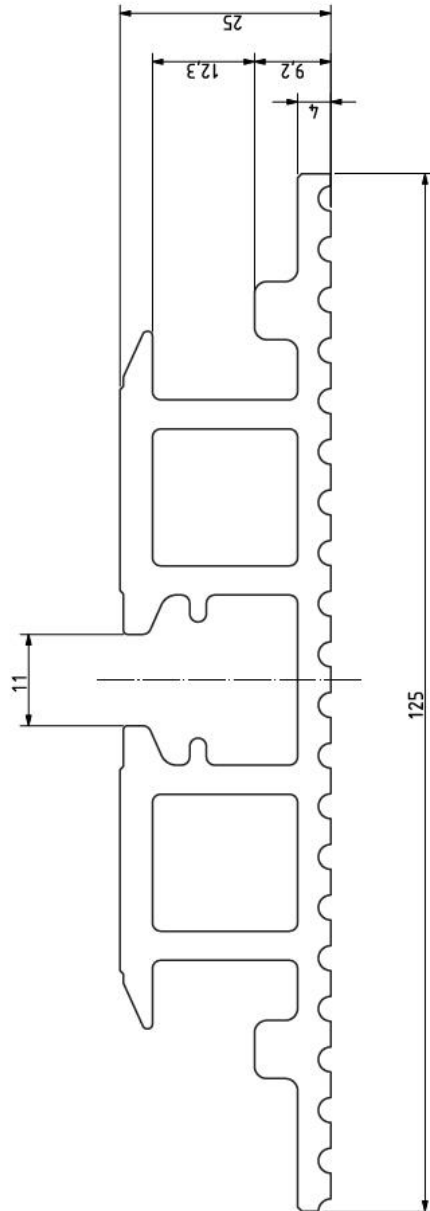
Enclosure 2: SEATS ANCHORAGES



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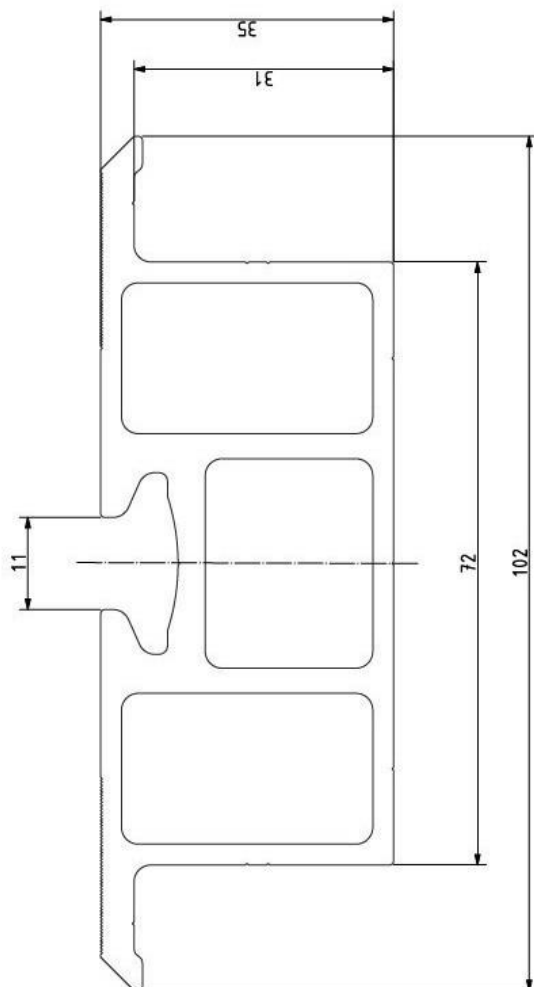


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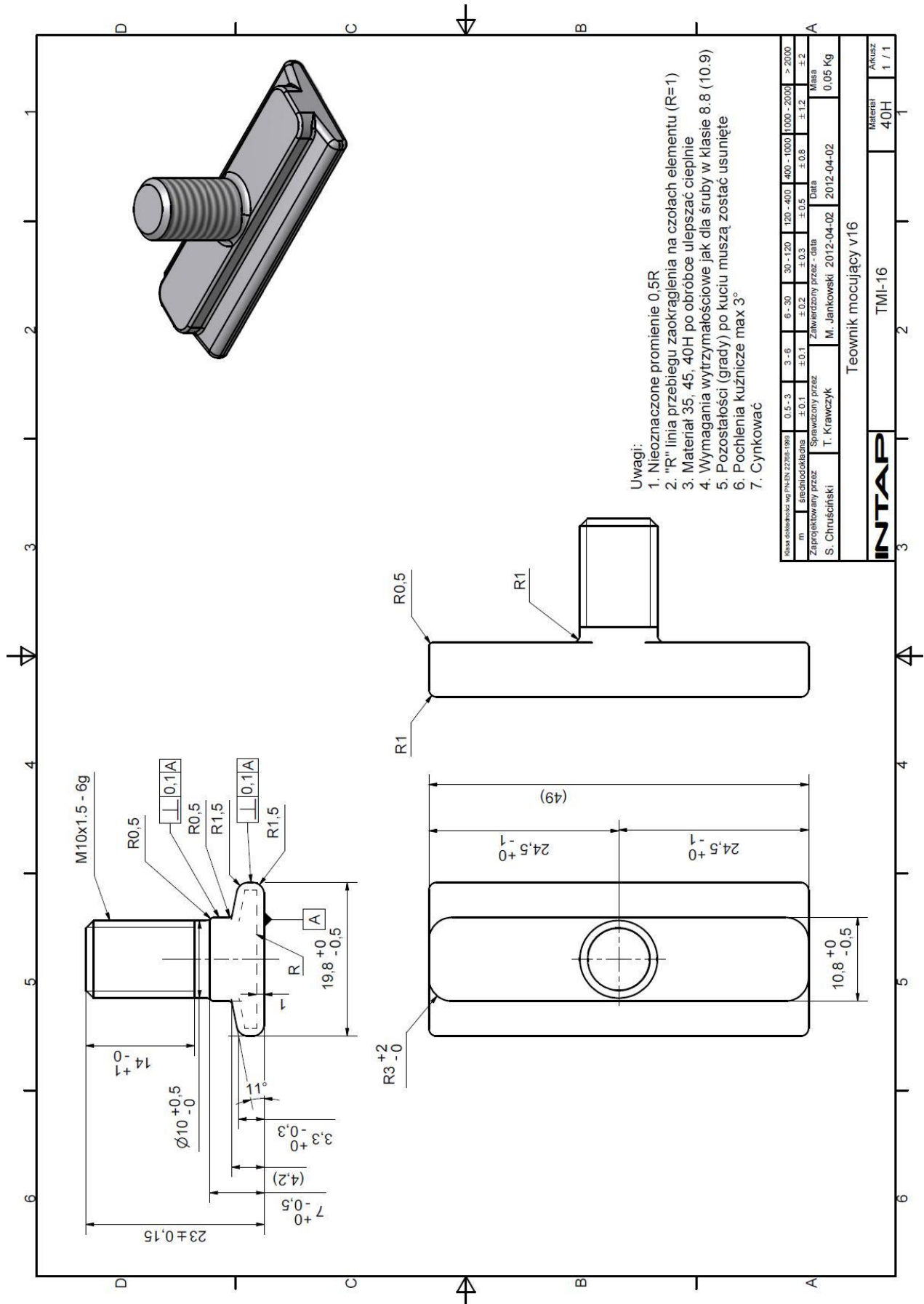
Klasa tolerancji wg DIN 7168/ Tolerance class according to DIN 7168		0,5 - 3	3 - 6	6 - 30	30 - 120	120 - 400	400 - 1000	1000 - 2000	2000 - 4000	>4000
m	Średnia / Medium	±0,1	±0,1	±0,2	±0,3	±0,5	±0,8	±1,2	±2	±3
Zaprojektowany przez - data / Designed by - date		Sprawdzony przez / Checked by		Zawierzający przez / Approved by		Masa / Mass [kg]		Materiał / Material		
M. Szczepaniak		P. Oczko		M. Jankowski		2,476		EN AW 6061 T6		
OKB		OKBeeRAIL 01S		RA101		1/1				

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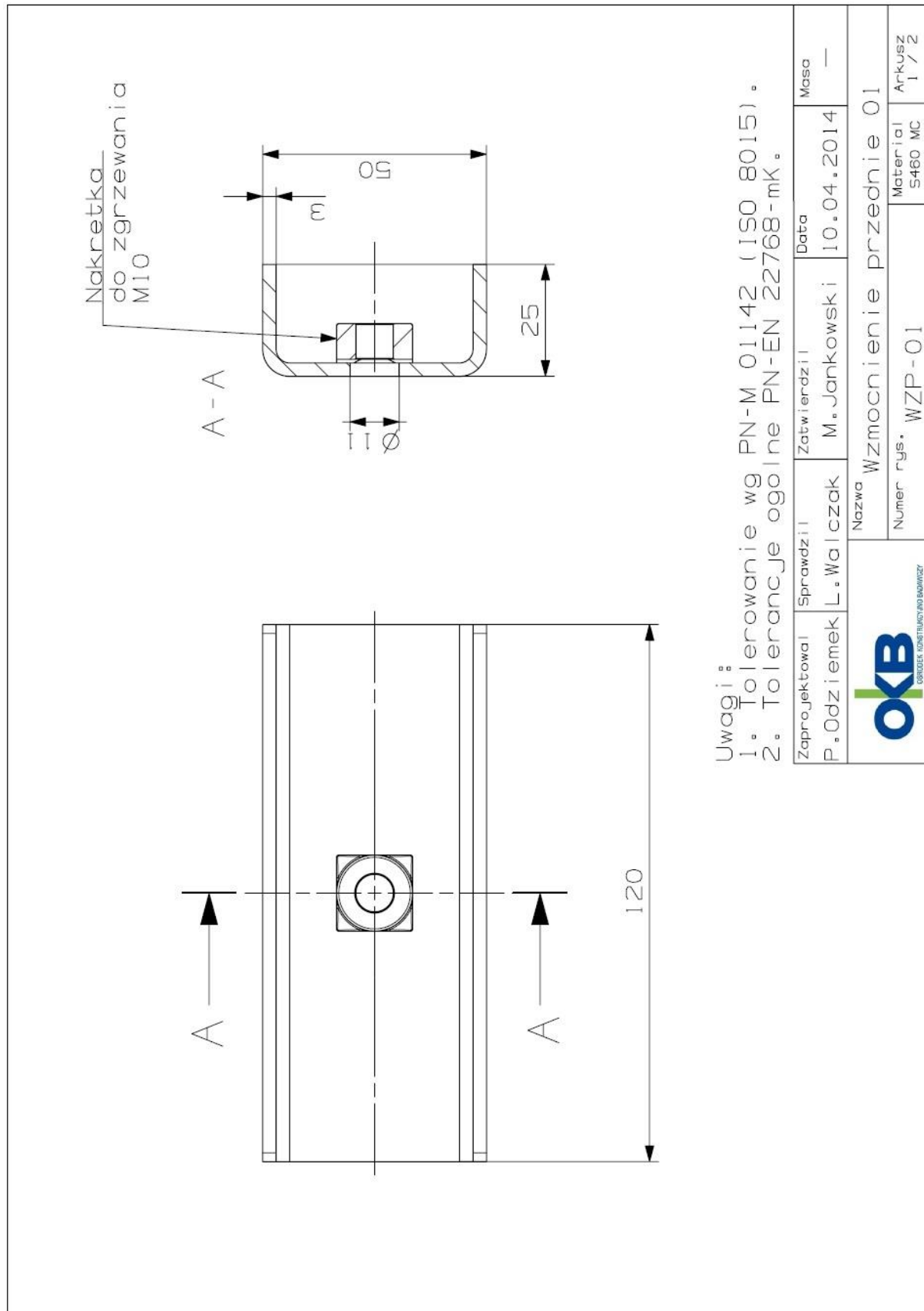


Klasa tolerancji wg DIN 7189 Tolerance class according to DIN 7189		0,5 - 3	3 - 6	6 - 30	30 - 120	120 - 400	400 - 1000	1000 - 2000	2000 - 4000	>4000
m	Średnia / Medium	±0,1	±0,1	±0,2	±0,3	±0,5	±0,8	±1,2	±2	±3
Zaprojektowany przez - data / Designed by - date M. Szczepaniak		Sprawdzający przez / Checked by P. Olszaniek		Zatwierdzający przez / Approved by M. Jankowski		Masa / Mass [kg] 1,2		Materiał / Material EN AW 60051 T8		
OKB		OKBeeRAIL 04		RA104		Arkusz / Sheet 1/1				

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Instruction of OKBeeRAIL installation



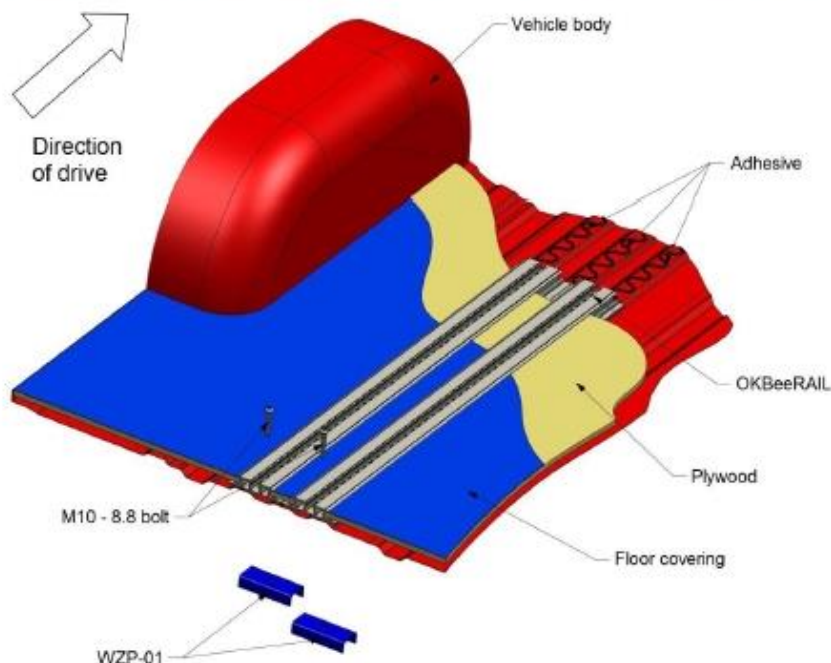
Instrukcja montażu: / Installation:

Sposób przygotowania powierzchni: / Surface preparation of:

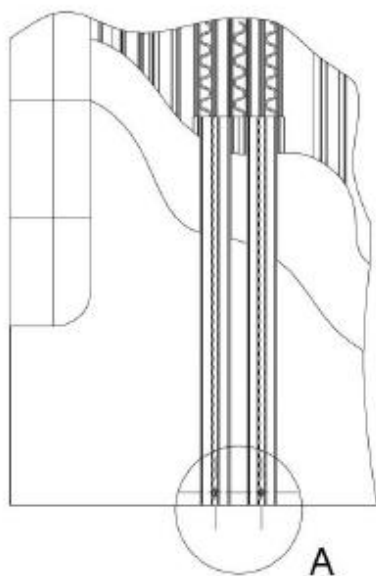
- aluminium surowe lub powlekane / raw or coated aluminum
 - blacha lakierowana fabrycznie lub powlekana na gorąco / originally or powder coated steel sheet
- 1) zmatowić / roughen
 - 2) odtłuścić przy pomocy Sika Aktivator 205 lub BETACLEAN 3350 / degrease with Sika Aktivator 205 or BETACLEAN 3350
 - 3) zagruntować przy pomocy Sika 206G+P lub BETAPRIME 5061 / prime with Sika 206G+P or BETAPRIME 5061

Na powierzchnię przygotowane w ten sposób, stosować 1 ścieżkę kleju Sikaflex 252 lub 552 lub BETAMATE 7120 w kształcie litery S (na każdą szynę pojedynczą OKBeeRAIL 01, lub OKBeeRAIL 04). Na fragmencie podłogi pojazdu, gdzie zastosowano klej, użyć dystansu (np. podkładki) o grubości ~3 mm, a następnie położyć i docisnąć szynę. / For surfaces prepared in this way, apply 1 path of Sikaflex 252 or 552 or BETAMATE 7120 in an S pattern (on each "single" rail OKBeeRAIL 01, or OKBeeRAIL 04). In the fragment of the vehicle floor, where adhesive is applied, use separator (e.g. washer) of ~3 mm thickness, and afterwards attach and press the rail.

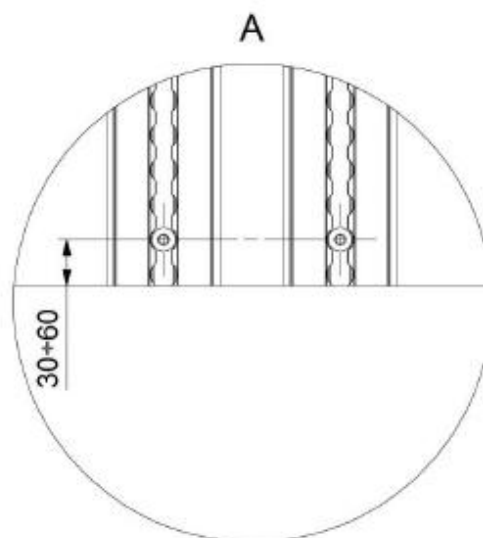
W tylnej części szyny (30 ÷ 60 mm od zakończenia szyny) muszą być zastosowane dwa wzmocnienia podpodłogowe – ceowniki WZP-01 (przykręcane śrubą M10-8.8). / In the rear part of the rail (30 ÷ 60 mm from rail's rear end) there must be two underfloor reinforcements – C-profiles WZP-01 (fixed by M10-8.8 bolt).



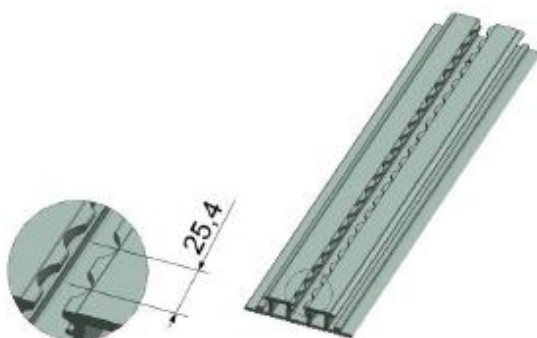
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OKBeeRAIL 01 Single – szyna frezowana pojedyncza



OKBeeRAIL 04 – szyna frezowana



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Technical Data Sheet

Dow Automotive

BETACLEAN 3350

Description / Application:

BETACLEAN 3350 is a cleaner for removing dirt and grease from plastics, paints and glass

All Dow Automotive products are primarily developed in co-ordination with the automobile manufacturers, according to their needs and their specifications; they are approved for the specific applications as defined by the customer.

The use of the product other than approved application have to be released in writing by the Technical Service of Dow Automotive.

Technical Data:

Basis	Heptane
Colour	Colourless, transparent
Density	0,68 g/cm ³ at 23°C
Flash point	-4°C
Instructions for use	Wipe contaminated surface with BETACLEAN 3350 saturated, binder-free tissues or cloths. Preliminary trials carried out by our technical service department are recommended.
Shelf life	12 months in unopened containers
Containers	100, 250, 1000ml aluminium containers
Protection measures	See health and safety data sheet.

DOW AUTOMOTIVE Quality Management

Quality is our highest priority. Dow Automotive works with a highly modern Quality Management System which meets all international requirements of QS 9000, VDA-6 and ISO 9001.

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Technical Datasheet

Aftermarket Division

BETAPRIME 5061

Description / Application:

One-Step adhesion promoter for glass, ceramic serigraphy in combination with BETASEAL and BETAMATE PUR Adhesives. A prior cleaning of the bonding surface with BETACLEAN 3300 is necessary.

All Dow Automotive products are primarily developed in co-operation with the automobile manufacturers, according to their needs and their specifications; they are approved for the specific applications as defined by the customer.

The use of the product other than approved application have to be released in written form by the Technical Service of Dow Automotive.

Technical Data:

Basis	Silane modified polymers
Colour	black
Pigments	carbon black
Density	0.91 - 0.93 g/cm ³
Viscosity (DIN-cup 4)	10 - 14 s @ 23°C
Flash Point	approx. -8°C
Processing temperature	ideal 10 - 35°C
Tack free time	50 - 150 sec @ 23°C / 50 % r.h.
Evaporation time	min. 10 min @ 23°C / 50 % r.h., max. 6h Reactivation with IBP 5061 or BW 4001/4002 possible.
Instruction for use	Shake container well before opening. Continue to shake for at least 60s after steel balls inside the container are released. Caution! The product is extremely hygroscopic! Close container immediately after use to preserve remaining contents. Use up remainder within a few days.
Bonding surface preparation	Clean bonding areas with the BETACLEAN 3300. Verify compatibility or consult our technical service department.
Cleaning	Clean Equipment with BETACLEAN 3000

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Shelf life	9 months in unopened containers (see "use before" date printed on the container)
Storage once opened	- applicator: single use, do not store - 100 ml bottle: 5 days in original container
Storage	Temperature: 5°C to 25°C Short term up to 40°C
Containers	Single use applicator, 100 ml aluminium bottle
Protection measures	See health and safety data sheet

DOW AUTOMOTIVE Quality Management

quality is our highest priority. Dow Automotive works with a highly modern quality management system which meets all international requirements of QS 9000, VDA-6 and ISO 9001.

The above information implies no liability as to the usage of our products, since the applications, utilisation and processing of our products are beyond our control, the information given is not intended to replace your own trials with the products to establish their suitability for your particular application. Our liability is limited to the value of the products supplied by us and used by you. The information on this data sheet corresponds to the latest findings and supersedes all previous versions.

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BETAMATE 7120

Description / Application:

Single-component, high-viscosity, atmospheric humidity-curing polyurethane bonding/sealing compound for high-strength, permanently elastic adhesive joints. This material is used in the direct glazing process of the automotive industry in combination with glass-primer and wipe and paint primer. It is also suitable for bonding certain plastic parts in conjunction with the plastic primer BETAPRIME 5404 and/or a specific pretreatment according to prior test results.

All Dow Automotive products are primarily developed in co-ordination with the automobile manufacturers, according to their needs and their specifications; they are approved for the specific applications as defined by the customer.

The use of the product other than approved application have to be released in writing by the Technical Service of Dow Automotive.

Technical Data:

Basis	polyurethane prepolymers
Colour	black
Density	ca. 1.23 g/cm ³ at 23°C
Solid contents	> 98%
Viscosity (Extrusion, Ballan 4 mm nozzle, 4 bar)	pasty, pumpable 12 - 18 g/min at 23°C
Flash point	> 100°C
Processing temperature	10 - 40°C
Open time	max. 15 min at 23°C/50% rh primerless
Sagging behavior	very good, non-sagging
Tack-free time	approx. 30 min at 23°C/50% rh
Cure rate	> 4 mm in 48 h at 23°C/50%rh
Tensile strength (DIN 53 504)	9 ± 1 MPa
Elongation at break (DIN 53 504)	> 500%
Lap shear resistance (EN 1465)	min. 5 MPa (height of adhesive layer: 2mm) 23°C/50% rh,
Resistance to tear propagation (DIN 53 515)	approx. 15 N/mm
Shore A hardness (DIN 53 505)	60 +/- 5
Abrasion resistance	Extremely high

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Temperature stability	-40°C to 100°C, for short periods up to 120°C
Resistance to chemicals	Highly resistant to aqueous chemicals, petrol, alcohol and mineral oils. Conditionally resistant to esters, ketones, aromatics and chlorinated hydrocarbons
Bonding surface preparation	All bonding surfaces must be free of dirt, dust, water, oil and grease. In general surfaces should be primed. Verify compatibility or consult our technical service department.
Processing equipment	Cartridges: hand-operated or pneumatic gun with mechanical piston Drums, pails: commercial pumping system with connection to automatic applicator, if required.
Cleaning	Uncured BETAMATE 7120 residues can easily be removed with BETACLEAN 3000 or BETACLEAN 3500. Hardened BETAMATE 7120 residues can only be removed mechanically. Immerse equipment in BETACLEAN 3000.
Shelf life	6 months at +5°C to +25°C in unopened containers. (See "use before" date printed on container).
Containers	300 ml cartridges, cardboard packs of 12 Pails: 22 litres Drums: 200 litres
Protection measures	See health and safety data sheet.

Dow Automotive Quality Management

Quality is our highest priority. Curit-Essex works with a highly modern Quality Management System which meets all international requirements of QS 9000, VDA-6 and ISO 9001.

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Product Data Sheet
Version 4 (06 / 2012)

Sikaflex®-252

Assembly adhesive

Technical Product Data

Chemical base	1-C polyurethane
Colour (CQP ¹ 001-1)	Black, white
Cure mechanism	Moisture-curing
Density (uncured) (CQP 005-4)	depending on colour 1.2 kg/l approx.
Non-sag properties	Good
Application temperature	ambient 10 - 35°C (50 - 95°F)
Tack-free time ² (CQP 019-1)	40 min. approx.
Open time ² (CQP 026-1)	35 min. approx.
Curing speed (CQP 049-1)	see diagram 1
Shrinkage (CQP 014-1)	6 % approx.
Shore A hardness (CQP 023-1 / ISO 868)	50 approx.
Tensile strength (CQP 036-1 / ISO 37)	3 MPa approx.
Elongation at break (CQP 036-1 / ISO 37)	400 % approx.
Tear propagation resistance (CQP 045-1 / ISO 34)	7 N/mm approx.
Tensile lap-shear strength (CQP 046-1 / ISO 4587)	2.5 MPa approx.
Glass transition temperature (CQP 509-1 / ISO 4663)	-40°C (-40°F) approx.
Volume resistivity (CQP 079-2 / ASTM D 257-99)	5 x 10 ⁸ Ωcm approx.
Service temperature (CQP 513-1)	-40 - 90°C (-40 - 195°F)
	4 hours 130°C (265°F)
	1 hour 150°C (300°F)
Shelf life (storage below 25°C) (CQP 016-1)	12 months

¹ CQP = Corporate Quality Procedure

² 23°C (73°F) / 50% r.h.

Description

Sikaflex®-252 is a non-sag 1-c polyurethane adhesive of stiff, paste-like consistency that cures on exposure to atmospheric humidity to form a durable elastomer. Sikaflex®-252 is manufactured in accordance with ISO 9001 / 14001 quality assurance system and the responsible care program.

Product Benefits

- 1-C formulation
- Elastic
- Can be overpainted
- Good gap-filling properties
- Capable of withstanding high dynamic stresses
- Vibration-damping
- Non-corrosive
- Electrically non-conductive
- Bonds well to a wide variety of substrates

Areas of Application

Sikaflex®-252 is suitable for structural joints that will be subjected to dynamic stresses. Suitable substrate materials are timber, metals, particularly aluminium (incl. anodized components), sheet steel (incl. phosphated, chromated and zinc-plated components), metal primers and paint coatings (2-c systems), ceramic materials and plastics. Seek manufacturer's advice before using on plastics that are prone to stress cracking. This product is suitable for professional experienced users only. Test with actual substrates and conditions have to be performed to ensure adhesion and material compatibility.



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Cure Mechanism

Sikaflex®-252 cures by reaction with atmospheric moisture. At low temperature the water content of the air is generally lower and the curing reaction proceeds slower (see diagram).

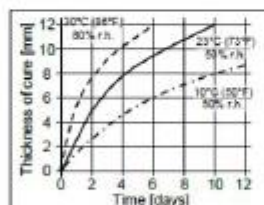


Diagram 1: Curing speed for Sikaflex®-252

Chemical Resistance

Sikaflex®-252 is **resistant** to fresh water, seawater, limewater, sewage effluent, dilute acids and caustic solutions; **temporarily resistant** to fuels, mineral oils, vegetable and animal fats and oils; **not resistant** to organic acids, alcohol, concentrated mineral acids and caustic solutions or solvents. The above information is offered for general guidance only. Advice on specific applications will be given on request.

Method of Application

Surface preparation

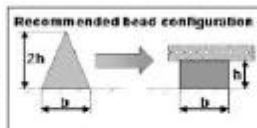
Surfaces must be clean, dry and free from grease, oil and dust. The substrates must be prepared in accordance with the instructions given in the actual corresponding Sika Pre-treatment Chart.

Advice on specific applications is available from the Technical Service Department of Sika Industry.

Application

Do not apply at temperatures below 10°C or above 35°C. The optimum temperature for substrate and adhesive is between 15°C and 25°C. For cartridge application we recommend the use of a compressed air piston type cartridge gun.

To ensure uniform thickness of adhesive when compressed, we recommend to apply the adhesive in the form of a triangular bead (see illustration).



For advice on selecting and setting up a suitable pump system contact the System Engineering Department of Sika Industry.

Tooling and finishing

Tooling and finishing must be carried out within the tack-free time of the adhesive. We recommend the use of Sika® Tooling Agent N. Other finishing agents or lubricants must be tested for suitability / compatibility.

Removal

Uncured Sikaflex®-252 may be removed from tools and equipment with Sika® Remover-208 or another suitable solvent. Once cured, the material can only be removed mechanically.

Hands and exposed skin should be washed immediately using Sika® Handclean Towel or a suitable industrial hand cleaner and water. Do not use solvents!

Overpainting

Sikaflex®-252 can be overpainted after formation of a skin. In case the paint requires a bake process it may be necessary to wait for a full cure. 1C-PUR and 2C-acrylic based paints are usually suitable. Not suitable are oil based paints. All paints have to be tested by carrying preliminary trials under manufacturing conditions. The elasticity of paints is lower than of polyurethanes. This could lead to cracking of the paint film in the joint area.

Further information

Working instructions issued for a defined application may further specify technical data contained in this Product Data Sheet. Copies of the following publications are available on request:

- Material Safety Data Sheets
- Sika Pre-treatment Chart for 1C-Polyurethanes
- General Guidelines - Bonding and Sealing with Sikaflex®

Packaging Information

Cartridge	300 ml
Unipack	400 ml
	600 ml
Pail	23 l
Drum	195 l

Value Bases

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

Health and Safety Information

For information and advice regarding transportation, handling, storage and disposal of chemical products, users shall refer to the actual Material Safety Data Sheets containing physical, ecological, toxicological and other safety-related data.

Legal Notes

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.



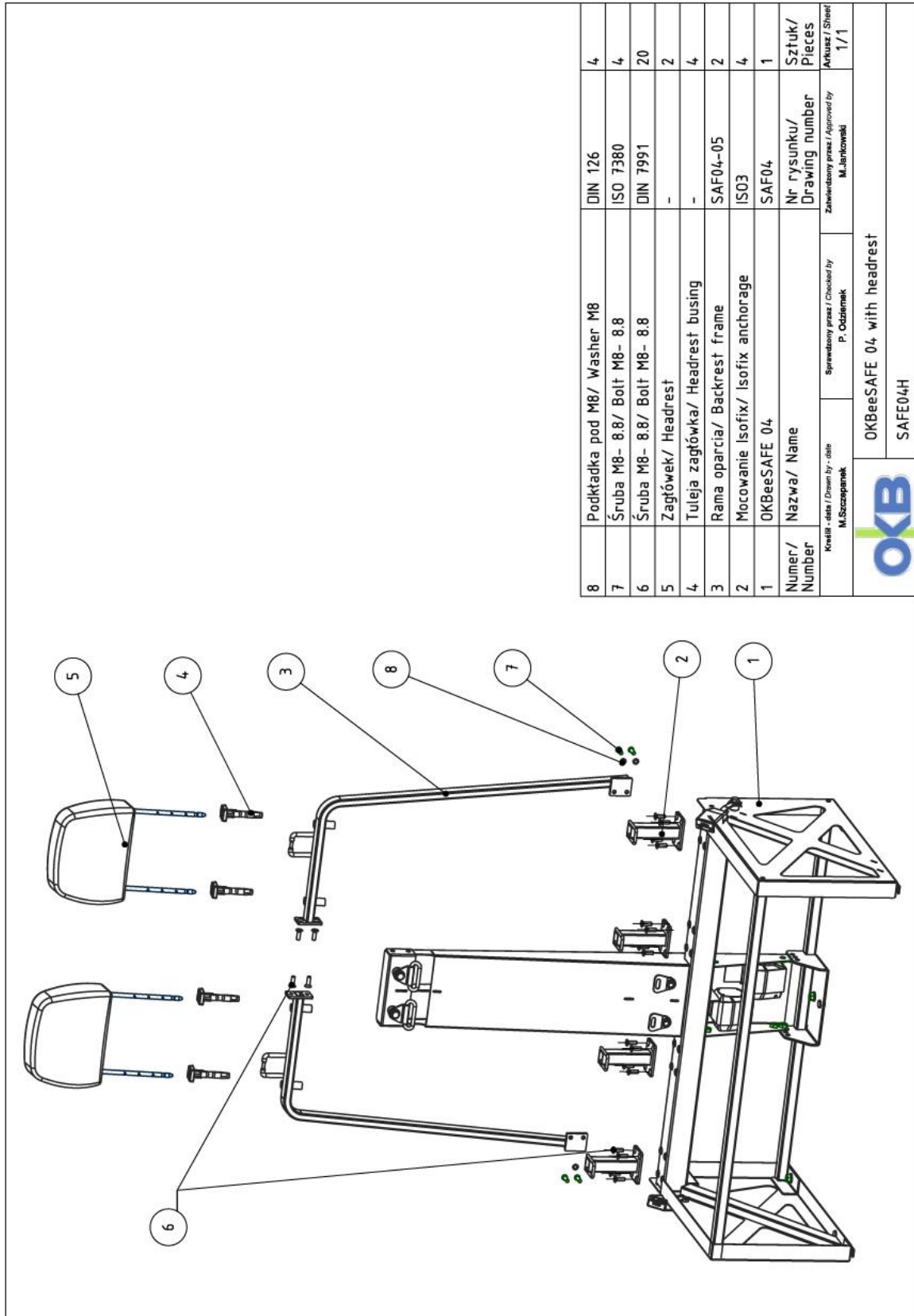
Further information available at:
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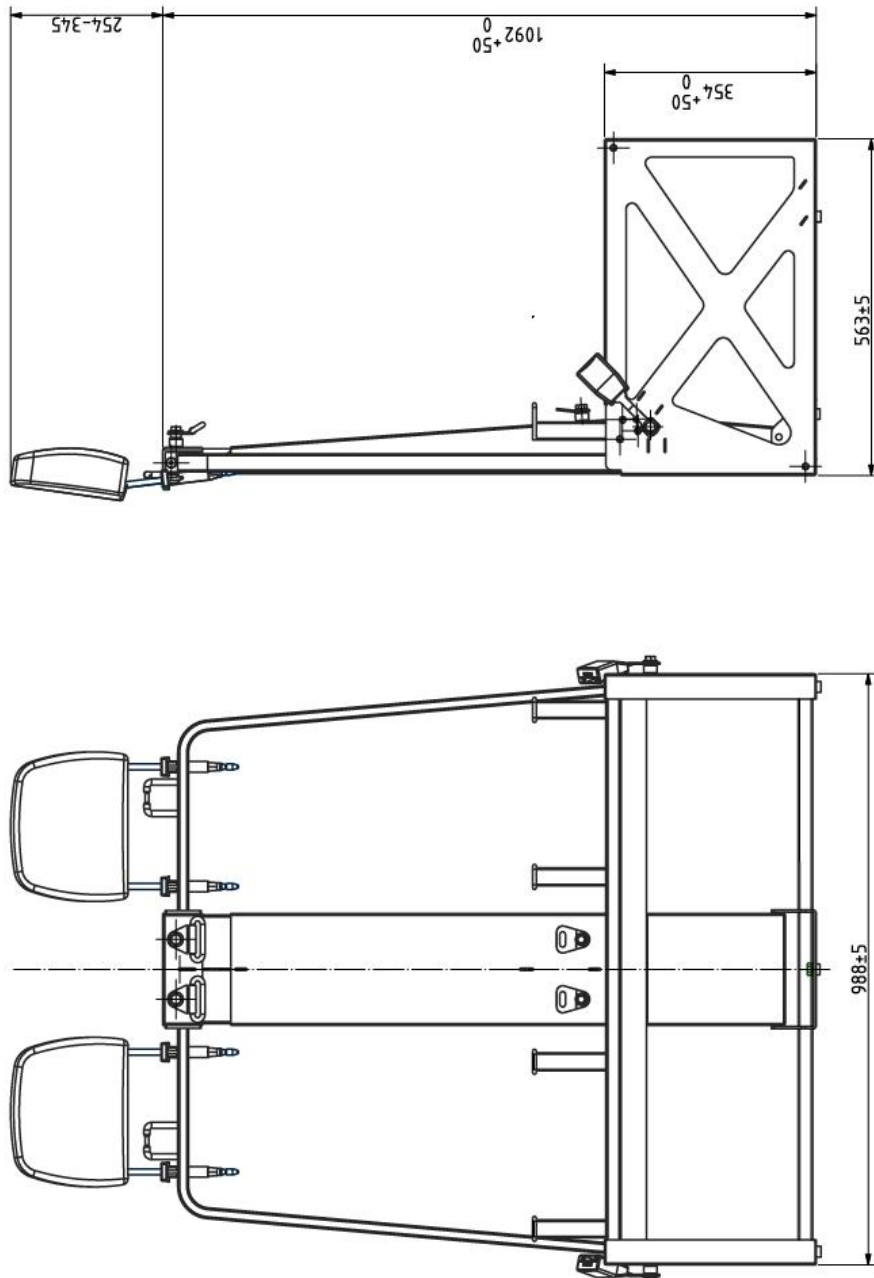
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Enclosure 3: ASSEMBLY DRAWINGS



8	Podkładka pod M8/ Washer M8	DIN 126	4
7	Śruba M8- 8.8/ Bolt M8- 8.8	ISO 7380	4
6	Śruba M8- 8.8/ Bolt M8- 8.8	DIN 7991	20
5	Zagłówek/ Headrest	-	2
4	Tuleja zagłówek/ Headrest busing	-	4
3	Rama oparcia/ Backrest frame	SAF04-05	2
2	Mocowanie Isofix/ Isofix anchorage	ISO3	4
1	OKBeeSAFE 04	SAF04	1
Numer/ Number	Nazwa/ Name	Nr rysunku/ Drawing number	Sztuk/ Pieces
Kreśli - data / Drawn by - date M. Szczepaniak		Sprawdzony przez / Checked by P. Oddziemek	Zatwierdzony przez / Approved by M. Jankowski
OKB			OKBeeSAFE 04 with headrest
			SAFE04H
			Arkusz / Sheet 1 / 1

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Kreślił - data / Drawn by - date M. Szczepaniak	Sprawdził inżynier / Checked by P. Odziemak	Zatwierdził inżynier / Approved by M. Jankowski	Aktualizacja / Sheet 2/2
OKBeeSAFE 04 with headrest			
SAF01H			

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