

**INFORME N° / REPORT Nr. PL19070026****REGLAMENTO ONU 14.08 REFERENTE A LOS ANCLAJES DE CINTURONES DE SEGURIDAD /
UN REGULATION 14.08 RELATING TO THE SAFETY-BELT ANCHORAGES**

Solicitante / Applicant : OKB SP. Z O.O.
ul. Rokicińska 108/110
95-006 Bukowiec, Poland

Fabricante / Manufacturer : OKB SP. Z O.O.
ul. Rokicińska 108/110
95-006 Bukowiec, Poland

Marca / Mark : OKB

Tipo / Type : SAF04T

Denominación comercial /
Commercial description : OKBeeSAFE 04T

Categoría / Category : M1 (>2500 kg), N1, N2,

Lugar y fecha de emisión del informe /
Place and date of issue : L'Albornar, Santa Oliva (Tarragona), 18.07.2019

CONCLUSIONES / CONCLUSIONS: El vehículo / combinación de asientos presentado HA SIDO ENSAYADO de acuerdo con las prescripciones relativas a la homologación de los automóviles en lo que se refiere a los anclajes de cinturones en aplicación del ECE Reglamento 14 suplemento 00 de la serie 08 de enmiendas según se detalla en el anexo a este informe. / *This vehicle / seat combination HAS BEEN TESTED according to the prescriptions about the seatbelt anchorages in application to UN Reg. 14 supplement 00 to 08 series of amendments as detailed in annex to this report.*

Realizado / Performed by:

Kamil Ruthendorf- Przewoski
INGENIERO DE ENSAYOS
TEST ENGINEER

V. B° / Revised by:

Lluís Sans Gomis
JEFE DE DEPARTAMENTO
DEPARTMENT MANAGER

* LOS RESULTADOS PRESENTADOS SE REFIEREN UNICAMENTE A LA MUESTRA ENSAYADA.

* THE PRESENTED RESULTS REFER ONLY TO THE TESTED SAMPLE

* QUEDA TERMINANTEMENTE PROHIBIDA LA REPRODUCCIÓN PARCIAL DE ESTE INFORME SIN PERMISO EXPRESO DE IDIADA.
* THE PARTIAL REPRODUCTION OF THIS REPORT WITHOUT THE PERMISSION OF IDIADA IS COMPLETELY FORBIDDEN



**ANEXO AL INFORME /
ANNEX TO THE TEST REPORT**

1. Características del vehículo ensayado / Tested vehicle characteristics

Solicitante / Applicant	:	OKB SP. Z O.O. ul. Rokicińska 108/110 95-006 Bukowiec, Poland
Fecha de recepción de la muestra / Date of reception	:	27.06.2019
Marca / Trade mark	:	OKB
Tipo / Type	:	seat SAF04T on aluminum rails OKBeeRAIL 01S insalled on a floor of a vehicle Ford Transit (as the forces are taken by the floor itself, the results are representative also for other types of vehicles)
Denominación comercial / Commercial description	:	OKBeeSAFE 04T
Variante ensayada / Tested variant	:	the seat with adapter 120 mm OKBeeADA0403 was tests as the worst case (heigher, heavier, installed to the rails with the same screws M8 as the variant without the adapter)

2. Requisitos / Requirements

Párrafo / Paragraph	Requisito / Requirement	Resultado / Result
5.2.	Especificaciones generales. / <i>General specifications.</i>	Cumple / <i>Fulfils</i>
5.3.	Número mínimo de anclajes de cinturones / <i>Minimum number of belt anchorages to be provided.</i>	Cumple / <i>Fulfils</i>
5.4.	Localización de los anclajes de cinturones. / <i>Location of belt anchorages.</i>	Cumple / <i>Fulfils</i>
5.5.	Dimensiones de los agujeros de los anclajes roscados. / <i>Dimensions of threaded anchorage holes.</i>	Cumple / <i>Fulfils</i>

2.1. Generalidades / General

Ensayo sobre/Test on:	estructura de vehículo / <i>vehicle body</i> – Ford Transit with aluminum rails OKBeeRAIL 01S (as the forces are taken by the OKB floor itself, the results are representative also for other types of vehicles)
Situación puertas/Position of doors:	n/a
Situación ventanas/Position of windows:	n/a
Colocación asientos/Seats placing:	---
Ángulo de respaldo/Backrest angle:	5°

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Peso del asiento/ *Seat mass* (kg): 69,0

Observación: / *Remark*: ---

Emplazamiento de los anclajes de cinturones / *Location of seat belt anchorages*:
 Consulte la documentación técnica adjunta a este informe de prueba / *See technical documentation attached to this test report*

3. Fijación del componente / *Component fixing*

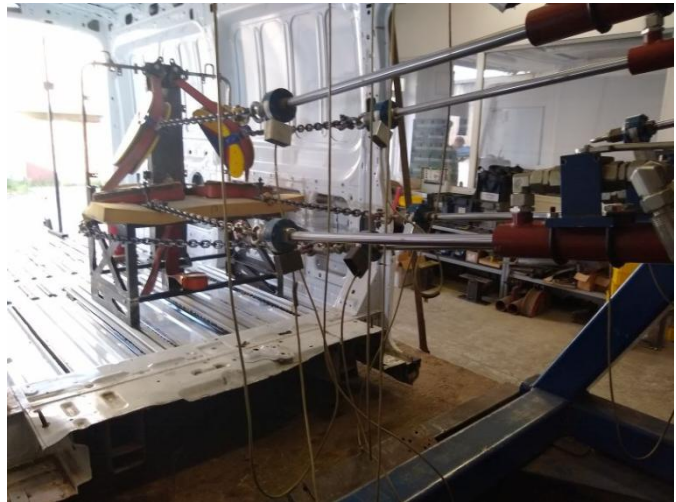
Los asientos se fijaron al riel OKB con 8 tornillos M8, clase 8,8. Para más detalles, consulte la documentación técnica adjunta a este informe de prueba. / *Seat were fixed to OKB rail by 8 screws M8, class 8,8. For details see technical documentation attached to this test report.*

4. Prescripciones generales del ensayo / *General test provisions*

Ángulo de las fuerzas de tracción respecto a la horizontal: $10^\circ \pm 5^\circ$, cumpliendo las prescripciones del apartado 6.3.2 del Reglamento ONU 14.08.
 Tiempo de accionamiento de las cargas límite sobre anclajes: $t > 0,2$ s.
Angle of traction forces with regard to the horizontal line: $10^\circ \pm 5^\circ$, complying with the prescriptions of paragraph 6.3.2 of UN Reg. 14.08.
Actuation time of limit forces on anchorages: $t > 0,2$ s.

4.1 Ensayo de anclajes de cinturones de 3 puntos / *Test of 3 point seat belts anchorages*:

Antes del ensayo / *Before test*:

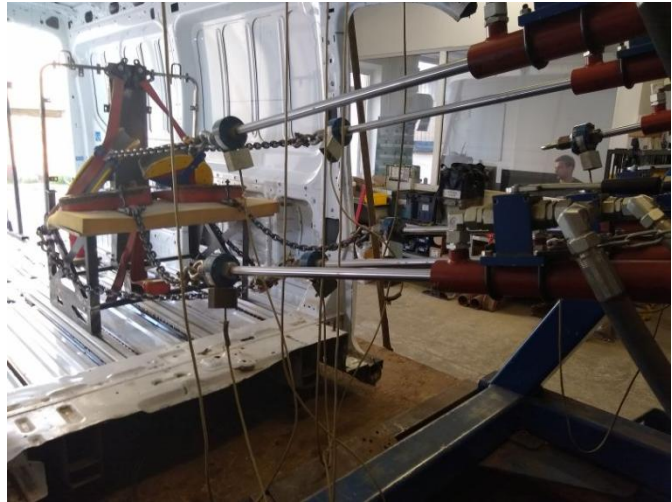


Validate this report with the security code «WJDUODG» at: <https://extranet.idiada.com/hom-cve>
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Después del ensayo / After test:



	Carga Mínima <i>Minimum Load</i> (daN)	Carga Alcanzada <i>Reached Load</i> (daN)	
		Izquierda / <i>Left</i>	Derecha / <i>Right</i>
Entre anclajes superiores <i>Between upper anchorages</i>	1350 ± 20	1349,3	1332,3
Entre anclajes inferiores <i>Between lower anchorages</i>	1350 ± 20	1408,5	1402,6
Carga de inercia del asiento probado. / <i>Inertia load of the tested seat</i> 20 x Peso del asiento / <i>Seat mass</i>	1354	1392,1	

OBSERVACIONES / REMARKS: La prueba se realizó con los requisitos de categoría M1 y N1 con masa > 2500 kg. / Test was performed with requirements as for M1 and N1 category with mass > 2500 kg

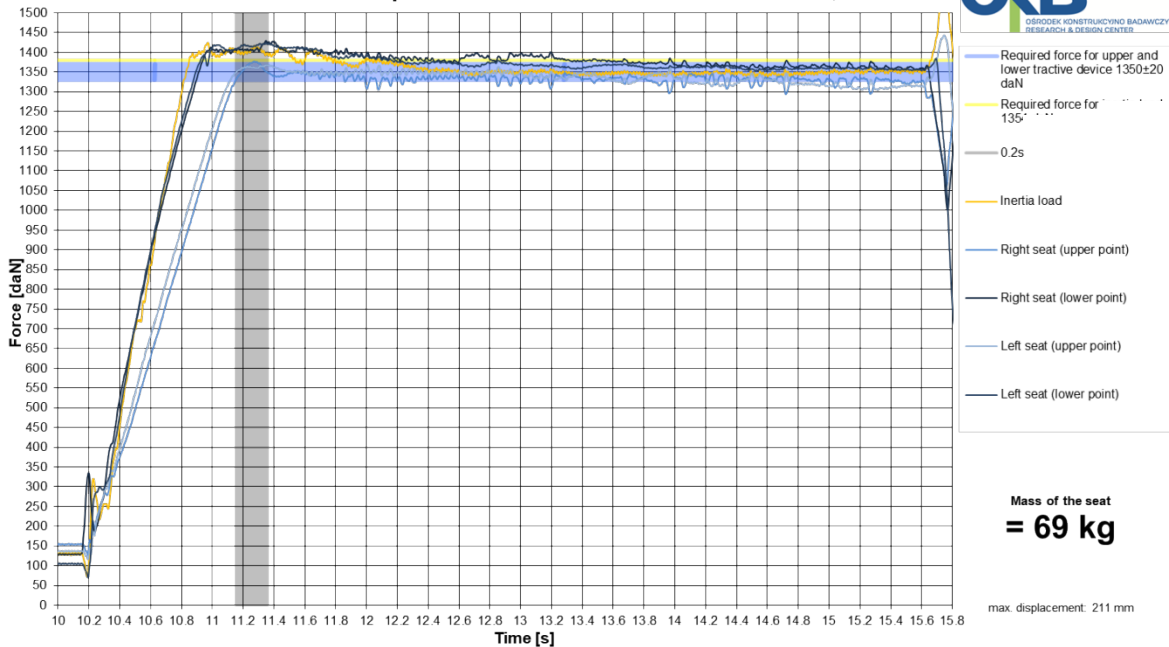
	Máximo desplazamiento / <i>Maximum displacement</i> (mm)	Desplazamiento medido / <i>Measured displacement</i> (mm)
		max
Desplazamiento anclaje superior efectivo / <i>Effective upper anchorage displacement</i>	281	211

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Date: 27.06.2019
 Test number: 2019_06_27_07
**Camper double seat frame on the vehicle body, SAF04
 with adapters 120 mm + OKBeeRAIL01 + v-bolt, M1**



5. Comprobaciones después de los ensayos / Checks done after tests

Las deformaciones o roturas parciales apreciadas en el ensayo, cumplen con el apartado 7.1 del Reglamento ONU 14.08.

Deformations or partial breakages observed in the test fulfil the requirements of paragraph 7.1 of UN REG. 14.08.

Lugar de ensayo / Test place: Bukowiec, Poland
 Fecha de ensayo / Test date: 27.06.2019

Kamil Ruthendorf- Przewoski
 INGENIERO DE ENSAYOS
 TEST ENGINEER

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DOCUMENTACIÓN TÉCNICA /
TECHNICAL DOCUMENTATION

INFORMATION FOLDER / DOCUMENT:

PURSUANT TO UN/ECE REGULATION No. 14,16,17

FOR A SEAT TYPE

OKBeeSAFE 04T

Total number of pages: 25

Date of issue: 23.05.2019

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List of documentation and supplements

Confirmation 3

0. General 4

1. General construction characteristics of the vehicle 4

List of enclosures

Drawings of seats and seatbelt anchorages - ECE 14 Enclosure 1

Drawing of ISOFIX anchorages Enclosure 2

Drawings ECE 17 Enclosure 3

Fixation to the vehicle body Enclosure 4

Optional components Enclosure 5

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0.	GENERAL	
0.1	Make (trade name of manufacturer):	OKB
0.2	Type:	SAF04T,
0.2.1	Commercial name(s) (if available):	OKBeeSAFE 04T,
0.3	Means of identification of type:	N/A
0.3.1	Location of that marking:	N/A
0.4	Category of vehicle:	M1, N1, N2
0.5	Name and address of manufacturer:	OKB SP. Z O.O. ul. Rokicińska 108/110 95-006 Bukowiec Poland
0.8	Name(s) and address(es) of assembly plant(s):	OKB SP. Z O.O. ul. Rokicińska 108/110 95-006 Bukowiec Poland
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 04T – 69 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
9.10.3.4.2	The adjustment system:	N/A

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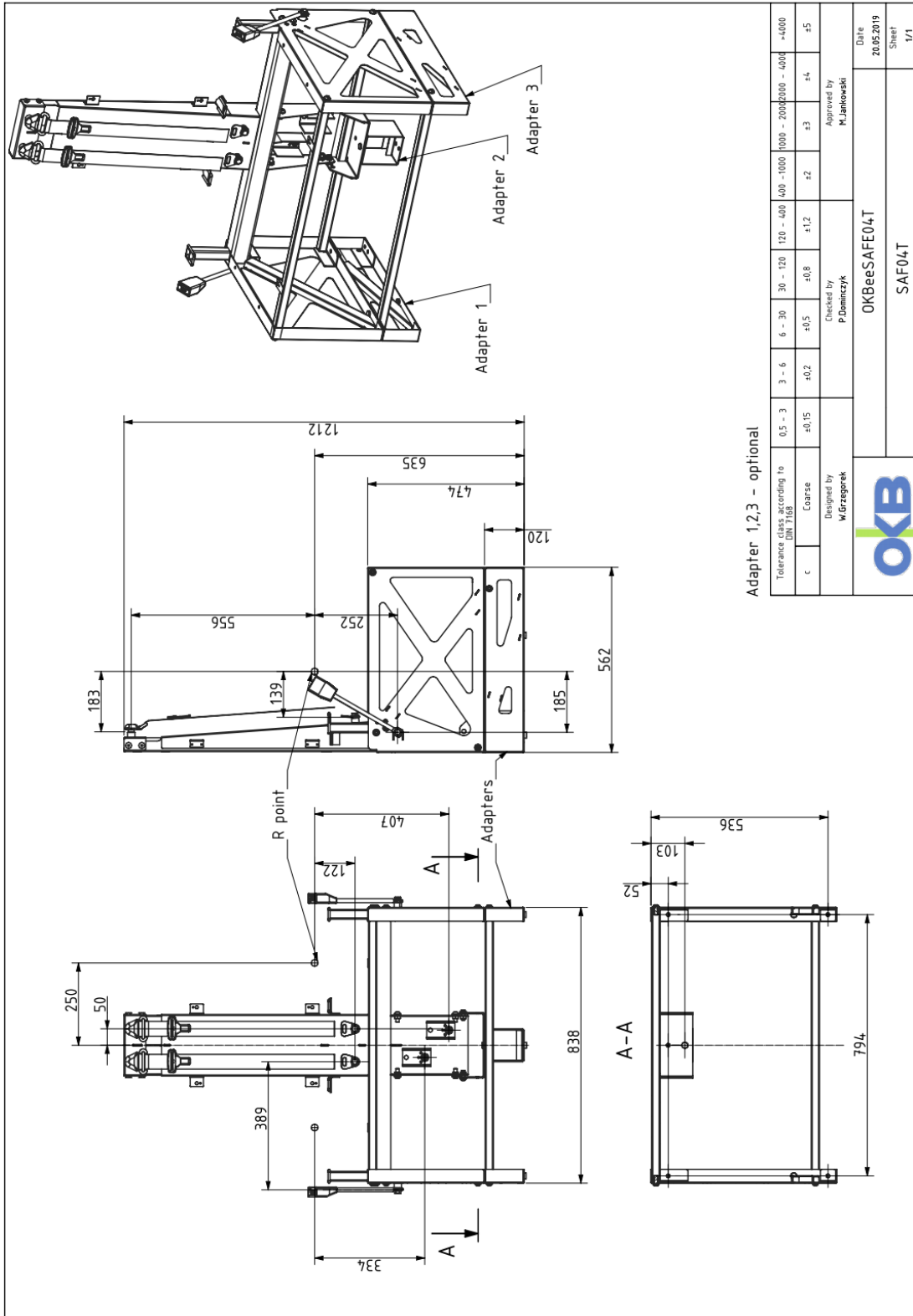
9.10.3.4.3	The displacement and locking systems:	N/A																									
9.10.3.4.4	The seat-belt anchorages (if incorporated in the seat structure):	OKBeeSAFE 04T – see Enclosure 1																									
9.10.3.4.5	The parts of the vehicle used as anchorages:	N/A																									
9.10.3.5	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 04T – 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 04T – 11°-19°																									
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 04T – 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.	<p>Number and position of safety belts and restraint systems and seats on which they can be used: (L = left, R = right, C = centre)</p> <table border="1" data-bbox="352 1379 1423 1845"> <thead> <tr> <th colspan="2"></th> <th>Complete EC type-approval mark</th> <th>Variant (if applicable)</th> <th>Belt adjustment device for height</th> </tr> </thead> <tbody> <tr> <td rowspan="3">First row</td> <td>L</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> </tr> <tr> <td>C</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> </tr> <tr> <td>R</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> </tr> <tr> <td>Other rows</td> <td>L or R</td> <td>E1 16R-04 0876*</td> <td>E2 16R-06 17007* E4 16R-06 37192* E1 16R-04 0396* E2 16R-04 0886</td> <td>N/A</td> </tr> </tbody> </table> <p>*- seats alternatively mounted symmetrically about the longitudinal symmetry line</p>						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*	E2 16R-06 17007* E4 16R-06 37192* E1 16R-04 0396* E2 16R-04 0886	N/A
		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*	E2 16R-06 17007* E4 16R-06 37192* E1 16R-04 0396* E2 16R-04 0886	N/A																							

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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 Enclosure 1																																									
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:																																										
	<table border="1"> <thead> <tr> <th colspan="2" rowspan="2"></th> <th colspan="2">Anchorage location</th> </tr> <tr> <th>Vehicle structure</th> <th>Seat structure</th> </tr> </thead> <tbody> <tr> <td colspan="2">First row of seats</td> <td>N/A</td> <td>N/A</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="3" rowspan="2">Second row of seats</th> <th colspan="2">Anchorage location</th> </tr> <tr> <th>Vehicle structure</th> <th>Seat structure</th> </tr> </thead> <tbody> <tr> <td rowspan="3">Left-hand seat</td> <td rowspan="2">Lower anchorages</td> <td>outboard</td> <td>--</td> <td>Ar</td> </tr> <tr> <td>inboard</td> <td>--</td> <td>Ar</td> </tr> <tr> <td colspan="2">Upper anchorages</td> <td>--</td> <td>Ar</td> </tr> <tr> <td rowspan="3">Right-hand seat</td> <td rowspan="2">Lower anchorages</td> <td>outboard</td> <td>--</td> <td>Ar</td> </tr> <tr> <td>inboard</td> <td>--</td> <td>Ar</td> </tr> <tr> <td colspan="2">Upper anchorages</td> <td>--</td> <td>Ar</td> </tr> </tbody> </table>				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
		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																																							
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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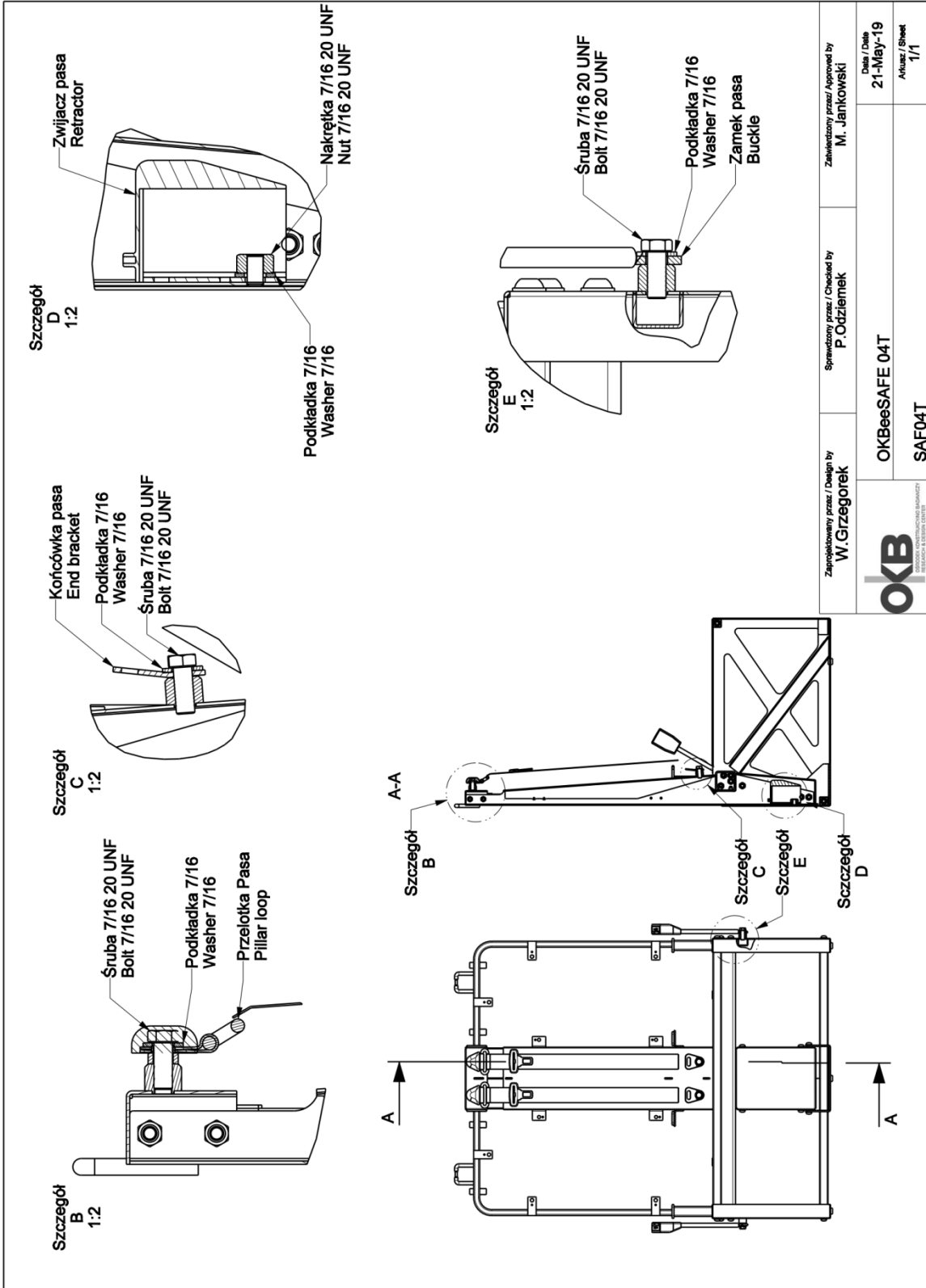
Enclosure 1: DRAWINGS OF SEATS AND SEATBELTS ANCHORAGES – ECE14



Adapter 1,2,3 – optional

Tolerances class according to DIN 7168	0,5 - 3	3 - 6	6 - 30	30 - 120	120 - 400	400 - 1000	1000 - 2000	2000 - 4000	+4000
C	±0,15	±0,2	±0,5	±0,8	±1,2	±2	±3	±4	±5
Designed by W. Grzegorek	Checked by P. Dominczyk								
Approved by M. Janowski									
OKBeeSAFE04T									
Date 20.05.2019									
Sheet 1/1									
OKB									
SAF04T									

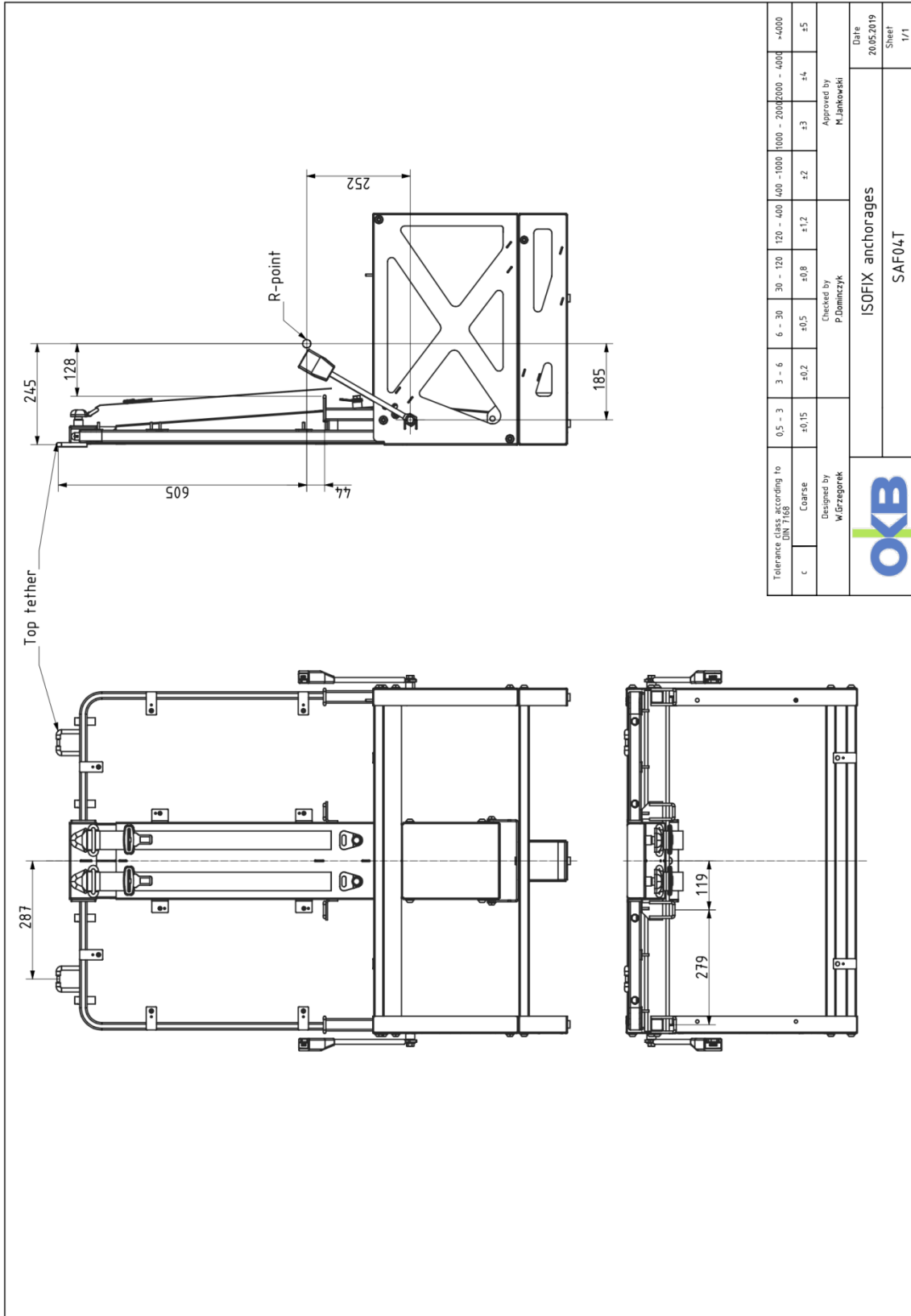
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Zaprojektowany przez / Design by W. Grzegorek	Sprawdzony przez / Checked by P. Odziemek	Zatwierdzony przez / Approved by M. Jankowski	Data / Date 21-May-19
OKBeeSAFE 04T			Arkuż / Sheet 1/1
OKB <small>OSRODEK KONSTRUKCYJNO BADAWCZY</small> <small>RESEARCH AND DESIGN CENTER</small>			SAF04T

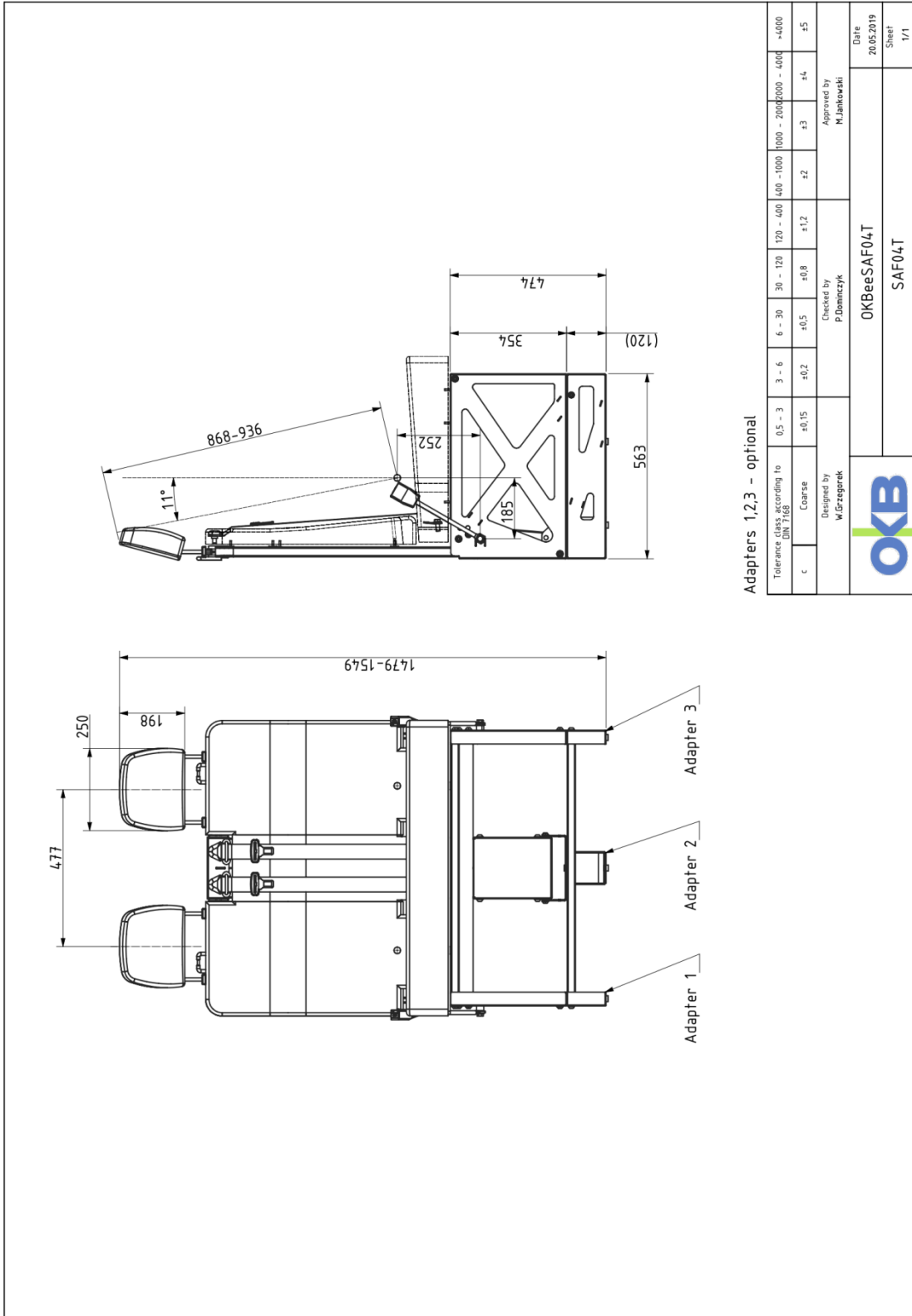
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Enclosure 2 : Drawings of ISOFIX anchorages ECE14



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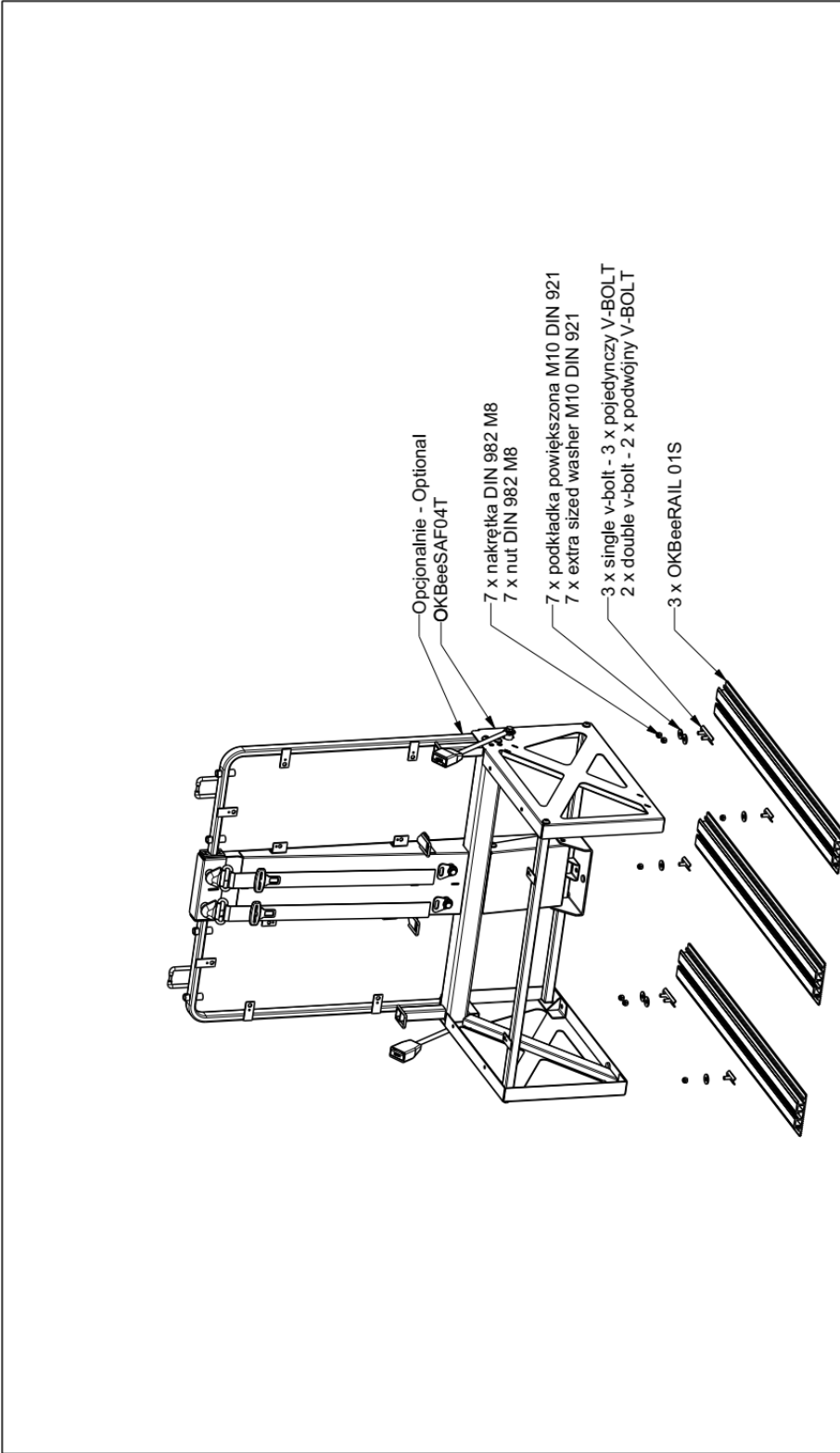
Enclosure 3 : Drawing ECE17



Adapters 1,2,3 – optional

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ENCLOSURE 4 – Fixation to the vehicle body



Opcjonalnie - Optional
OKBeeSAF04T

7 x nakrętka DIN 982 M8
7 x nut DIN 982 M8

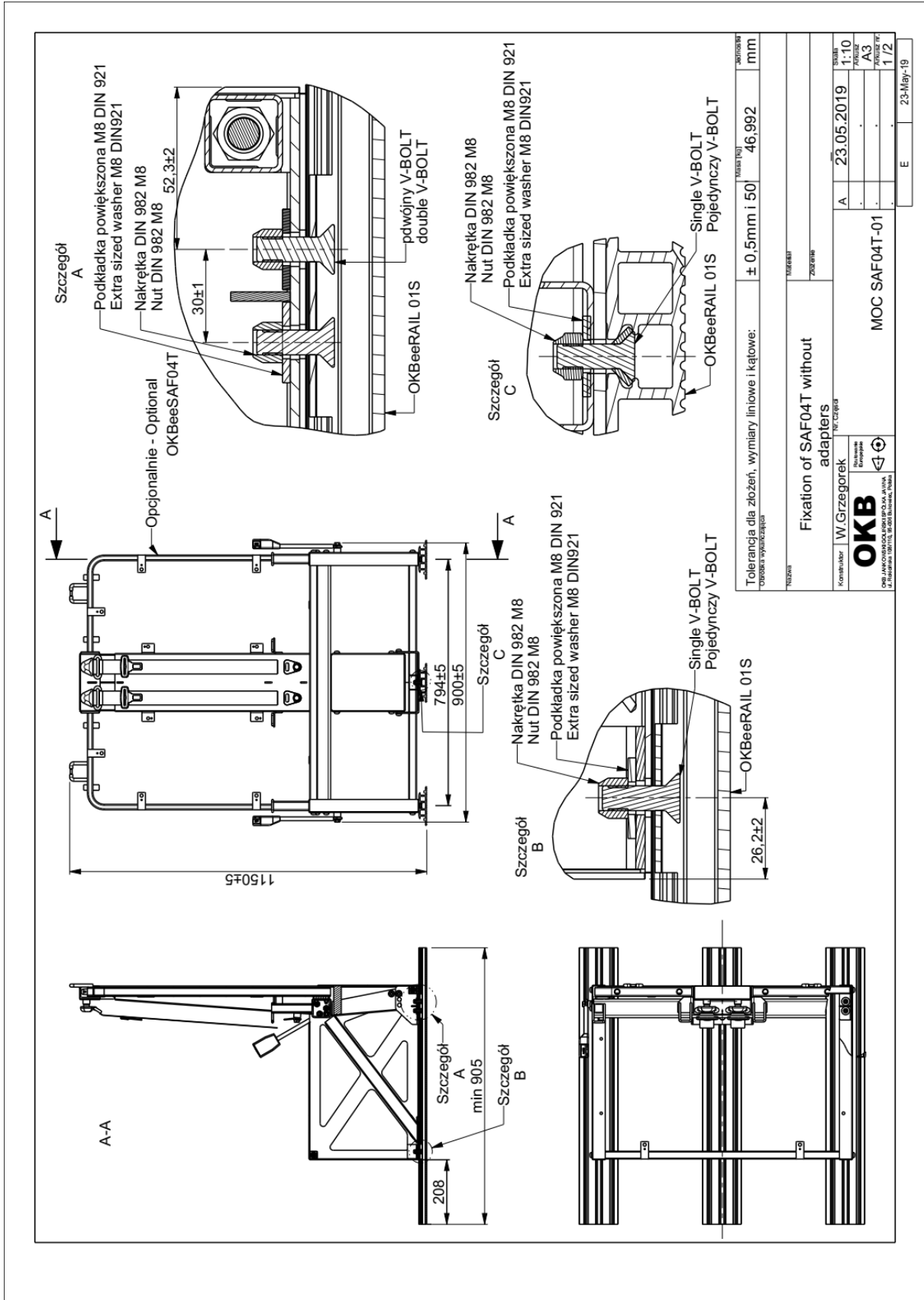
7 x podkładka powiększona M10 DIN 921
7 x extra sized washer M10 DIN 921

3 x single v-bolt - 3 x pojedynczy V-BOLT
2 x double v-bolt - 2 x podwójny V-BOLT

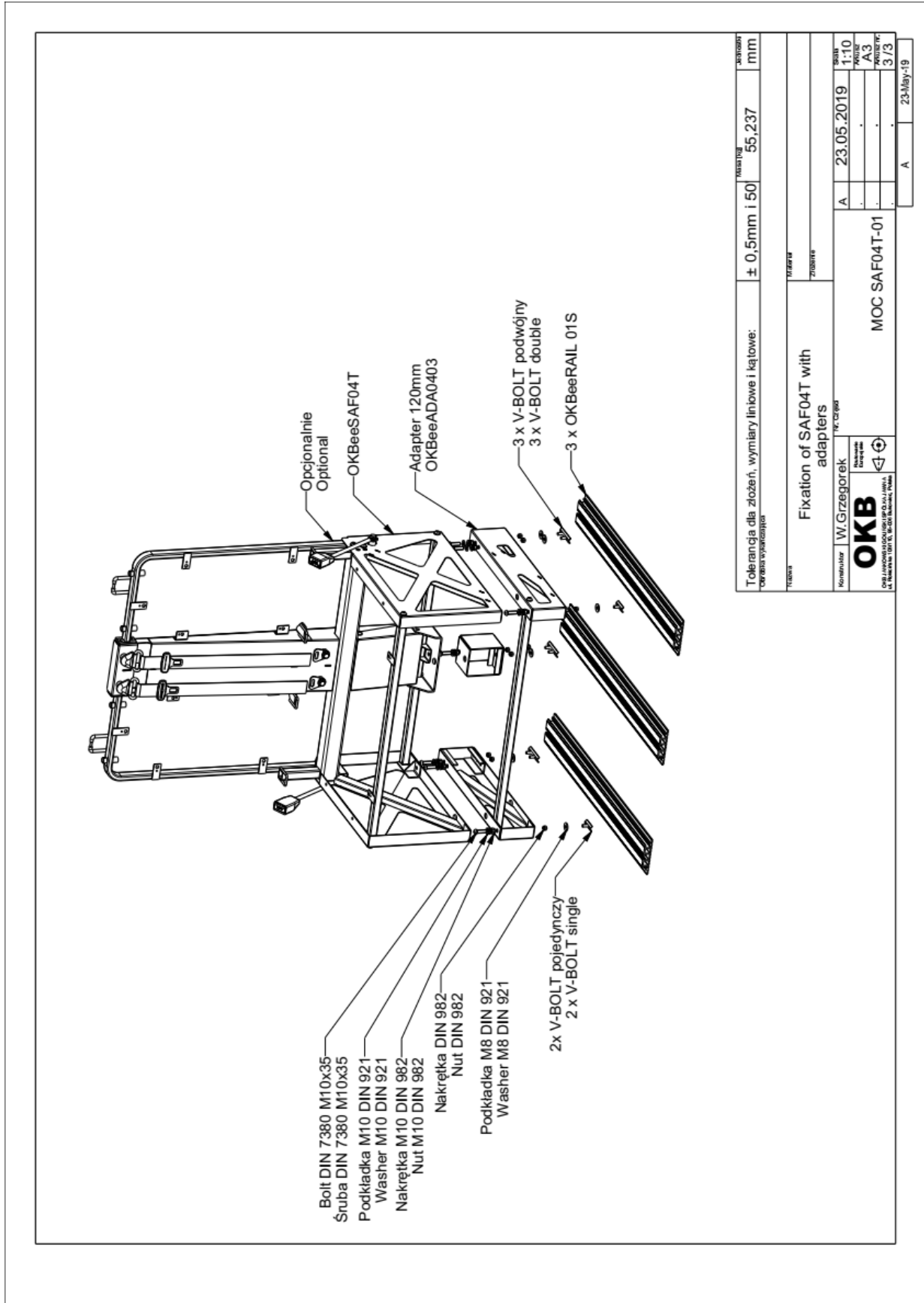
3 x OKBeeRAIL 01S

Tolerancja dla złożeń, wymiary liniowe i kątowe:		± 0,5mm i 50'	Masa [kg]	46,992	Jednostka	mm
Tabela specyfikacji						
Nazwa						
Fixations of SAF04T without adapters						
Zobacz						
Numer						
Konstruktor W.Grzegorek						
Numer części						
MOC SAF04T-01						
Data wydania 23.05.2019						
Skala 1:10						
Format A3						
Kod dokumentu 2/2						
Data zatwierdzenia 23-May-19						

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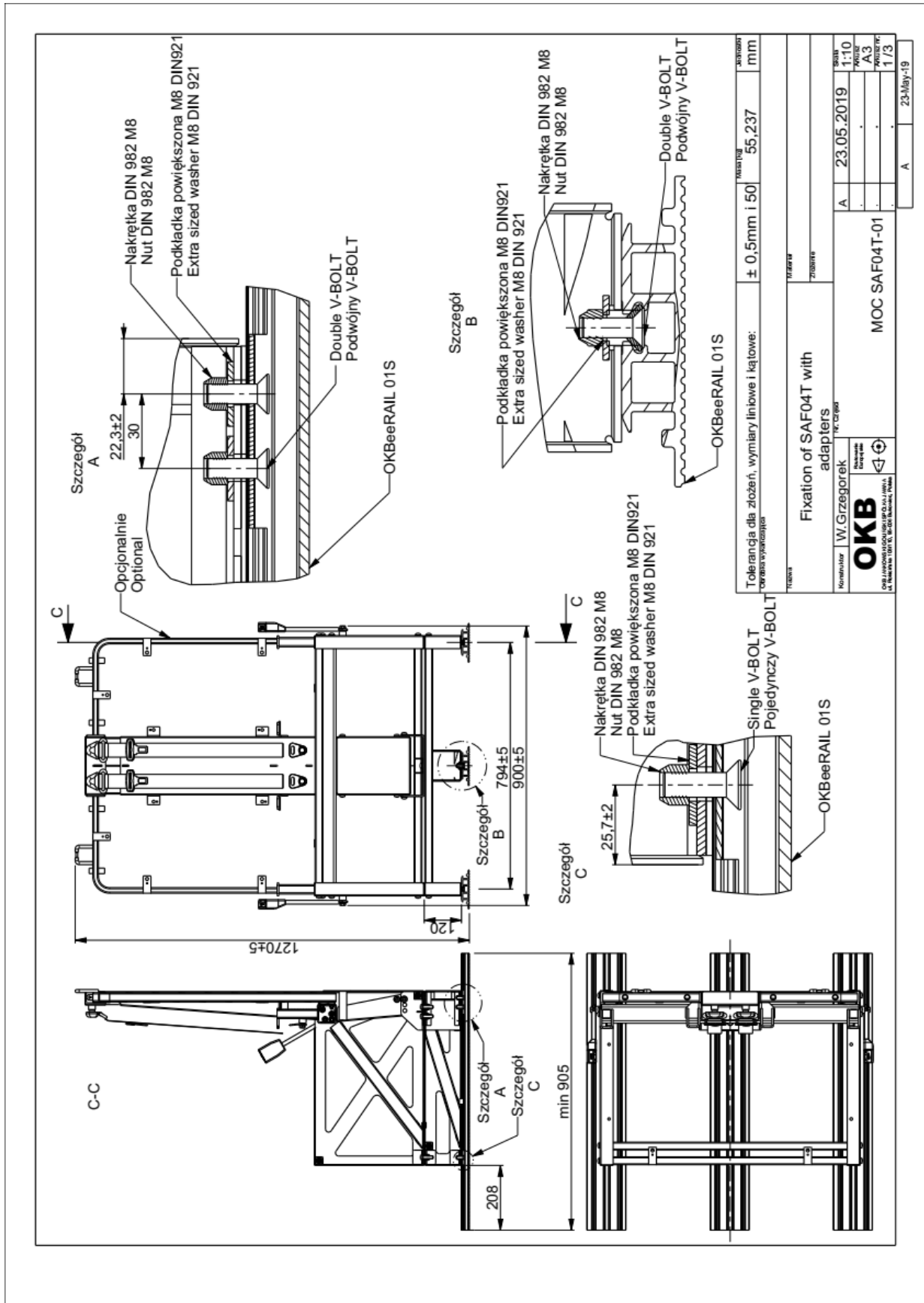


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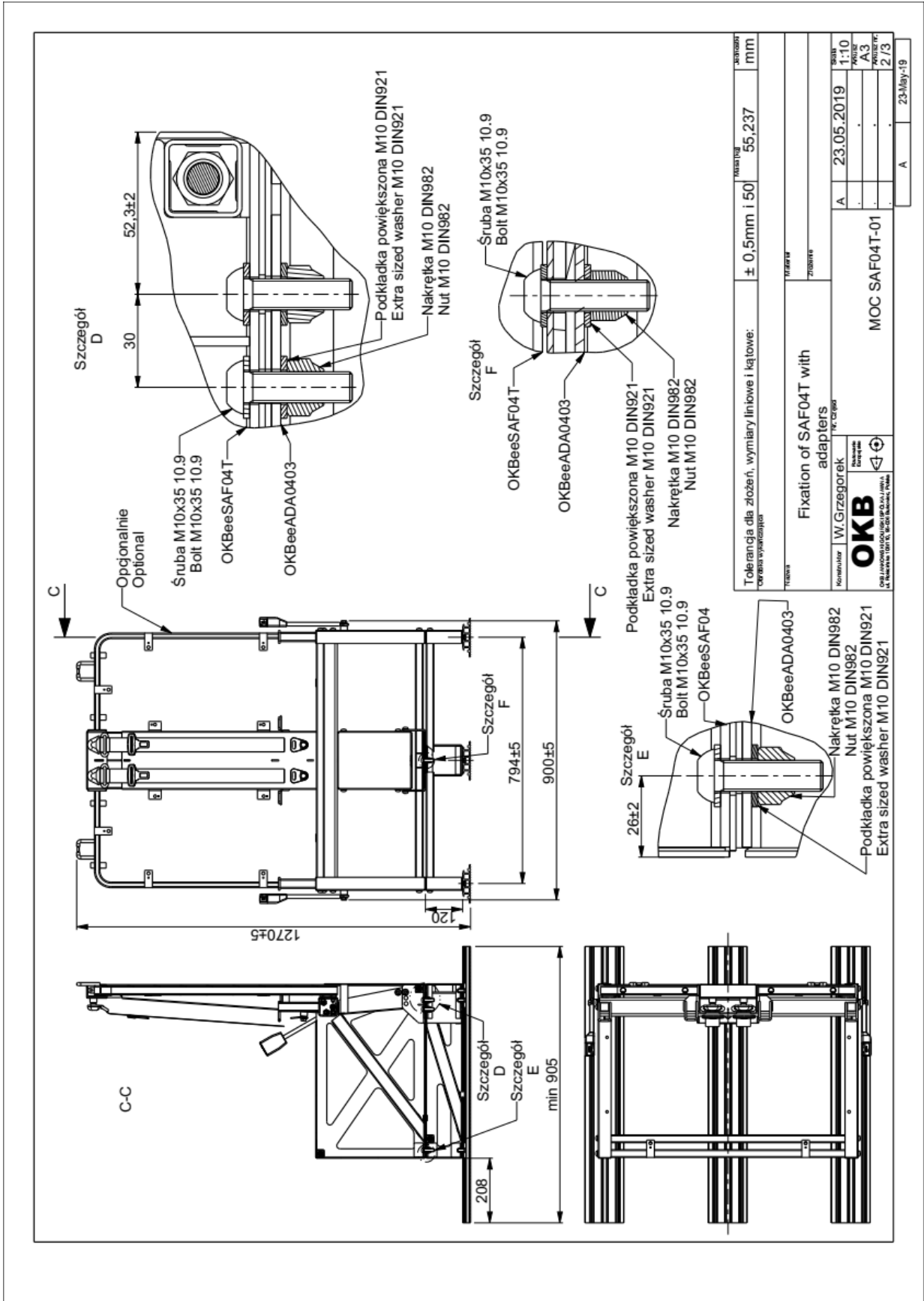


Tolerancja dla złożeń, wymiary liniowe i kątowe: Tolerances for assemblies		± 0,5mm i 50	55,237	mm
Fixation of SAF04T with adapters				
Konstruktor	W. Grzegorek	MOC SAF04T-01		
OKB		MOC SAF04T-01		
OKB JAROSŁAWIŃSKIEGO UL. POLSKA 14, 76-100 JAROSŁAW, POLSKA		23.05.2019		
M. C. 01/004		1:10		
M. C. 01/004		A3		
M. C. 01/004		3 / 3		
M. C. 01/004		A		
M. C. 01/004		23.05.2019		

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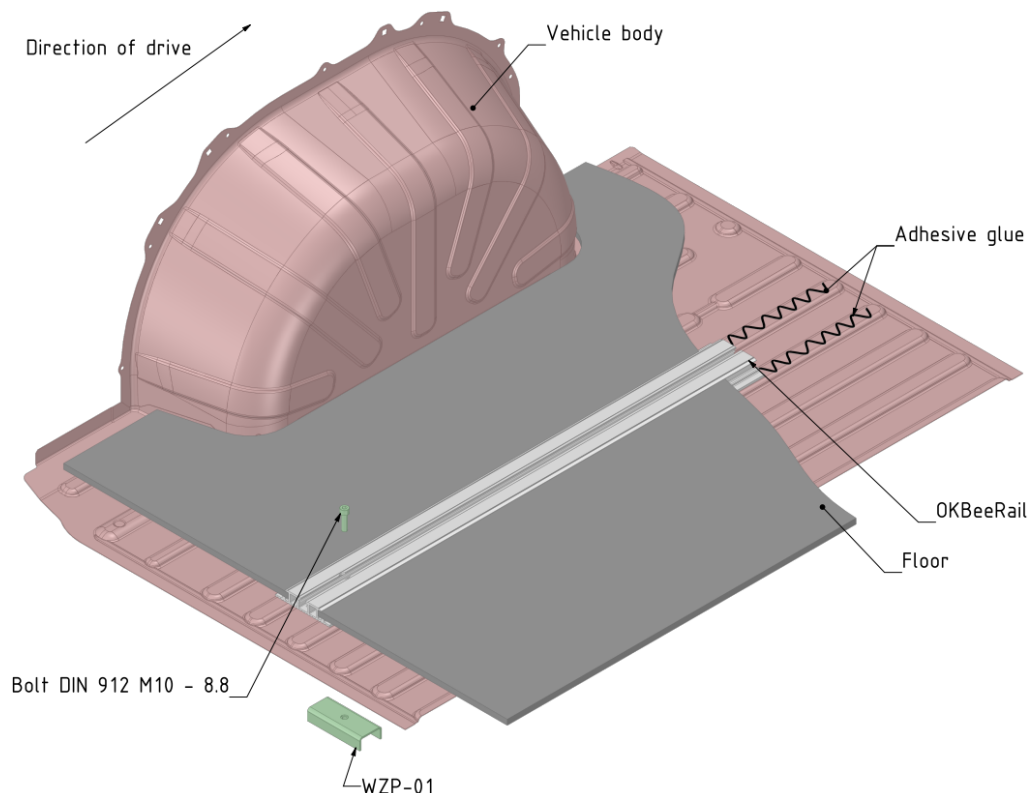
Instrukcja przyklejnia szyn aluminium do podłogi pojazdu/ Instruction of gluing aluminium rails

Sposób przygotowania powierzchni: / *Surface preparation of:*

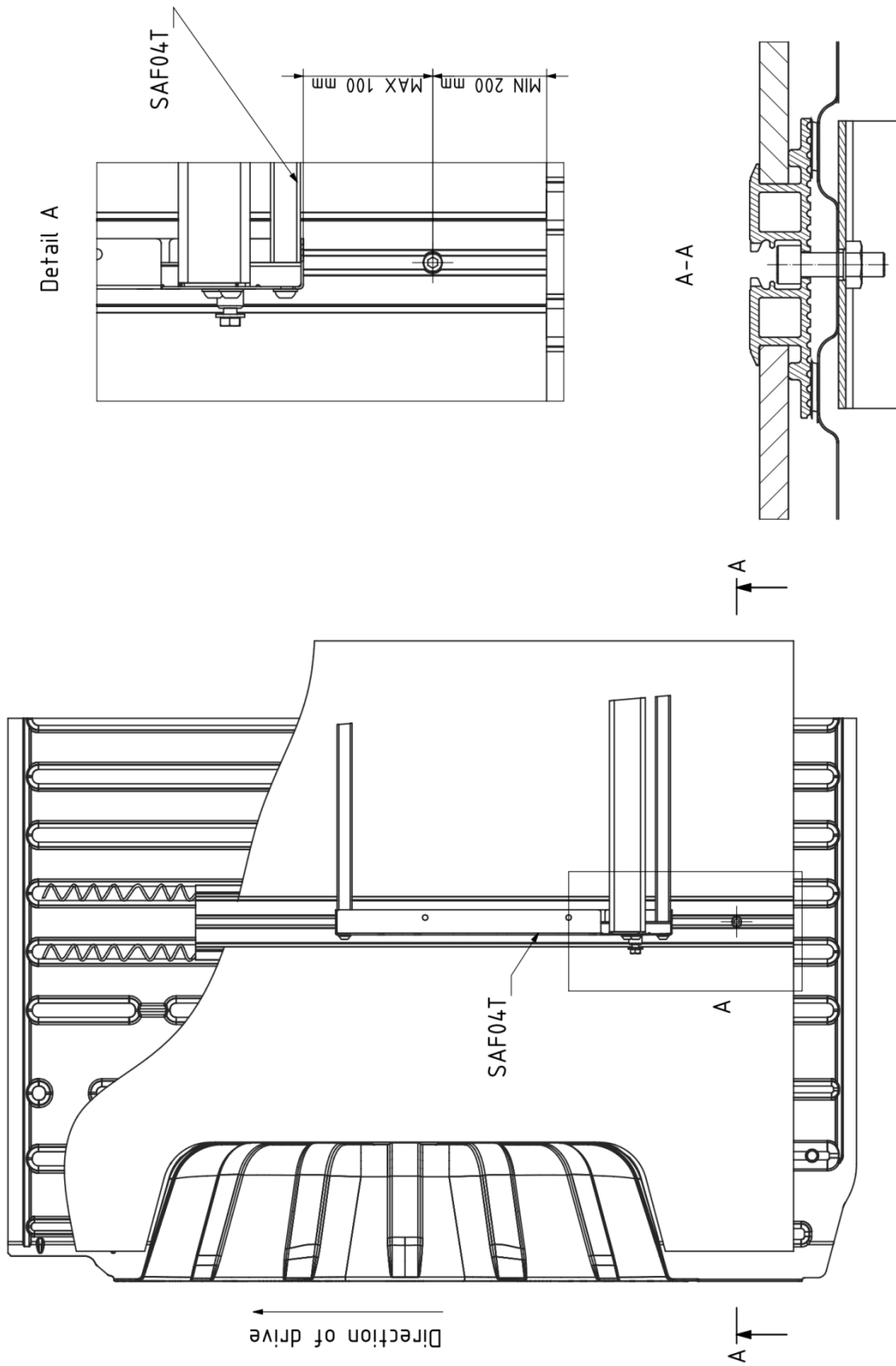
- aluminium surowe lub powlekane / *raw or coated aluminum*
- blacha lakierowana fabrycznie lub powlekana na gorąco / *originally or powder coated steel sheet*
 - 1) zmatowić / *roughen*
 - 2) odtłuścić przy pomocy Sika Aktivator 205 lub BETACLEAN 3350 / *degrease with Sika Aktivator 205 or BETACLEAN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

Na powierzchni przygotowane w ten sposób, stosować 3 ścieżki kleju Sikaflex 252 lub 552 lub BETAMATE 7120 w kształcie litery S (na każdą szynę podwójną OKBeeRAIL). 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 3 paths of Sikaflex 252 or 552 or BETAMATE 7120 in an S pattern (on each "double" rail). 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.*

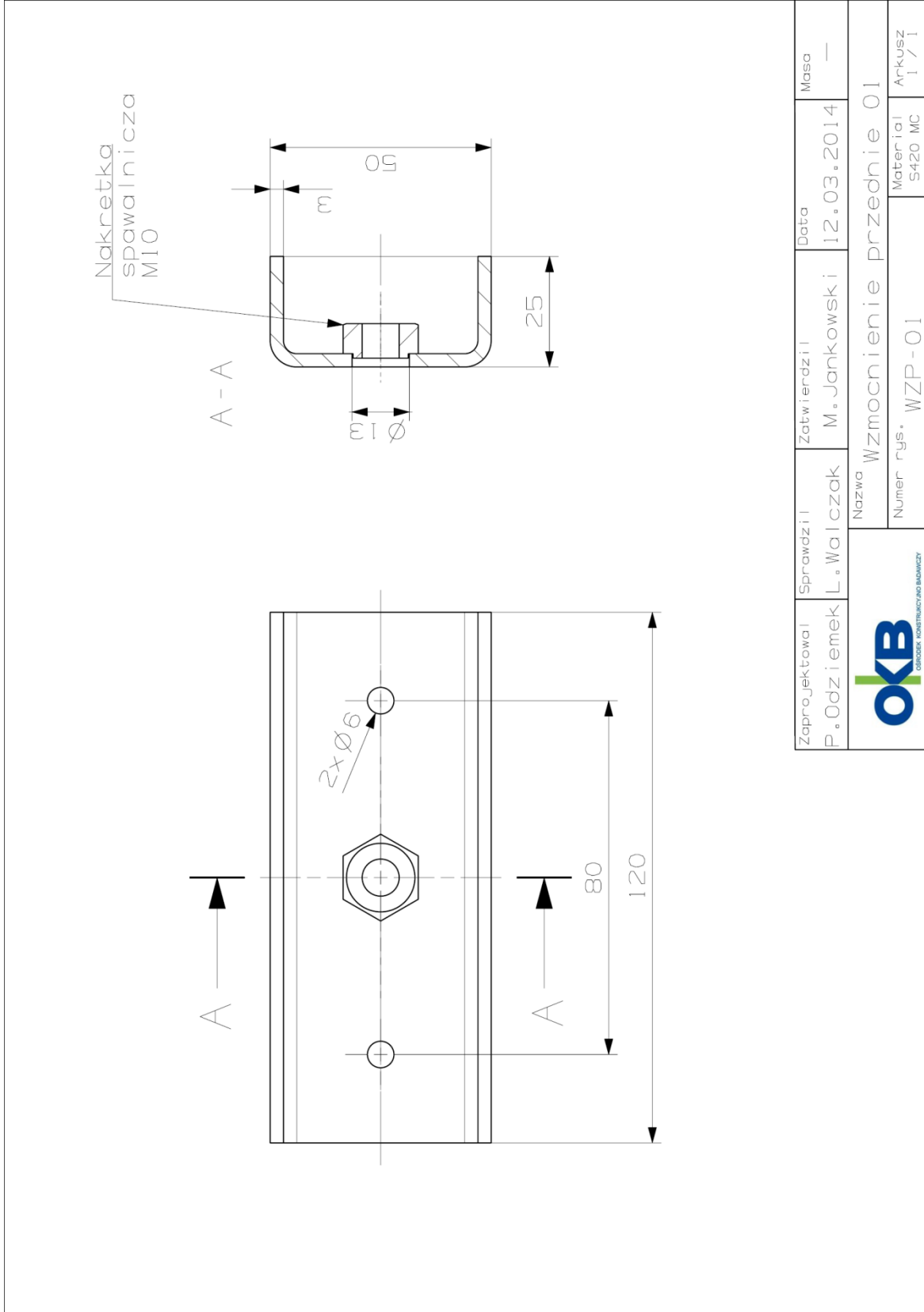
W tylnej części szyny (30 ÷ 60 mm od zakończenia szyny) musi być zastosowane wzmocnienie podpodłogowe – ceownik WZP-01 (przykręcane śrubą M10-8.8). / *In the rear part of the rail (30 ÷ 60 mm from rail's rear end) there must be underfloor reinforcement – C-profile WZP-01 (fixed by M10-8.8 bolt).*



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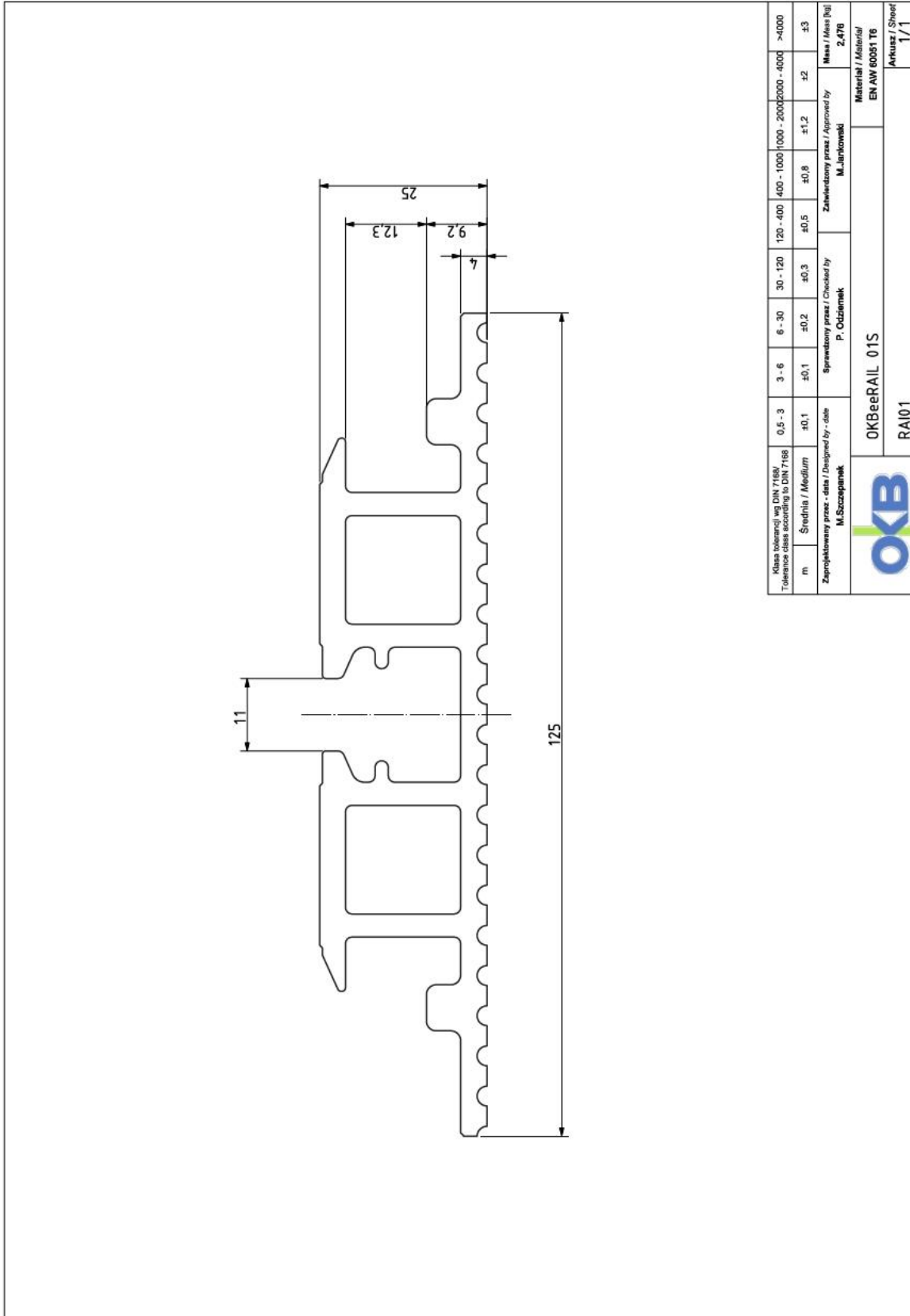


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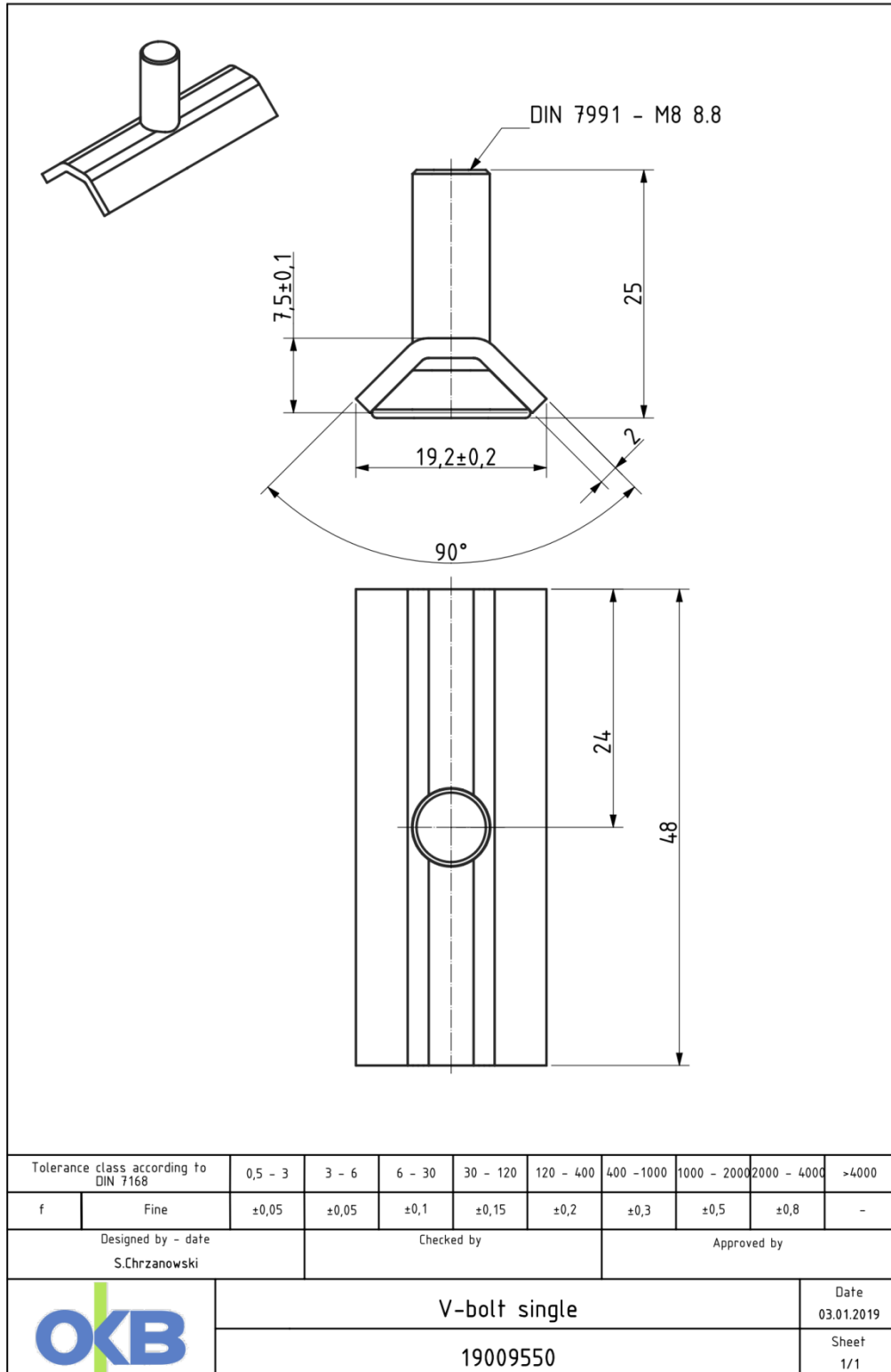
Zaprojektował P. Odziejemek	Sprawił L. Walczak	Zatwierdził M. Jankowski	Data 12.03.2014	Masa —
		Nazwa Wzmocnienie przednie 01		
		Numer rys. WZP-01		Material S420 MC
				Arkusze 1 / 1

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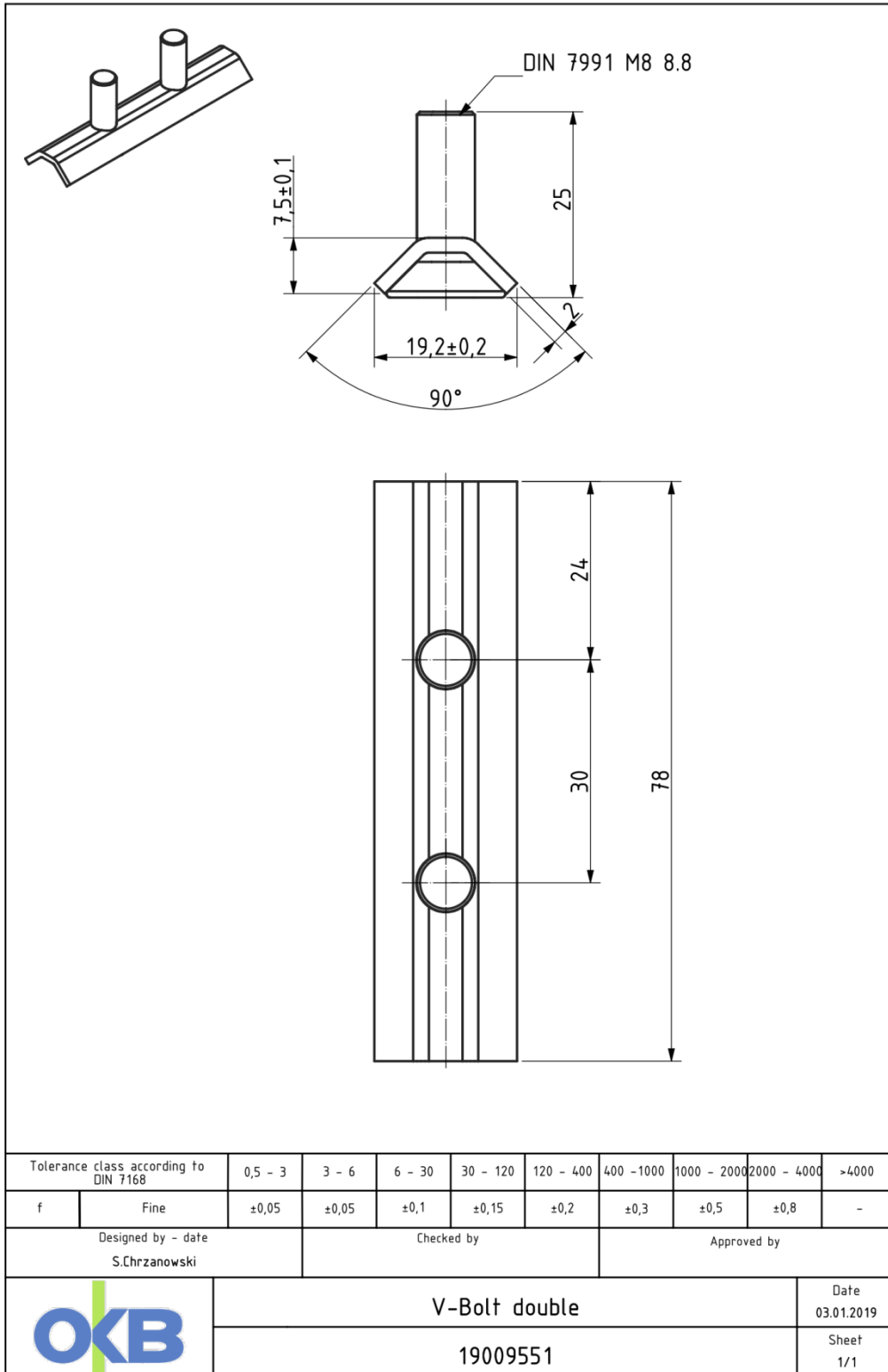


Klasa tolerancji wg DIN 7185/ Tolerance class according to DIN 7185		0,5 - 3	3 - 6	6 - 30	30 - 120	120 - 400	400 - 1000	1000 - 2000	2000 - 4000	>4000
m	Srednia / Medium	±0,1	±0,1	±0,2	±0,3	±0,5	±0,8	±1,2	±2	±3
Zaprojektowany przez - data / Designed by - date		M. Szczepaniak		Sprawdzony przez / Checked by		P. Ocielesek		Zawierzony przez / Approved by		M. Lankowski
Masa / Mass [kg]		2,478		Material / Material		EN AW 6061 T6		Arkusz / Sheet		1 / 1
OKB		OKBeeRAIL 01S		RAI01						

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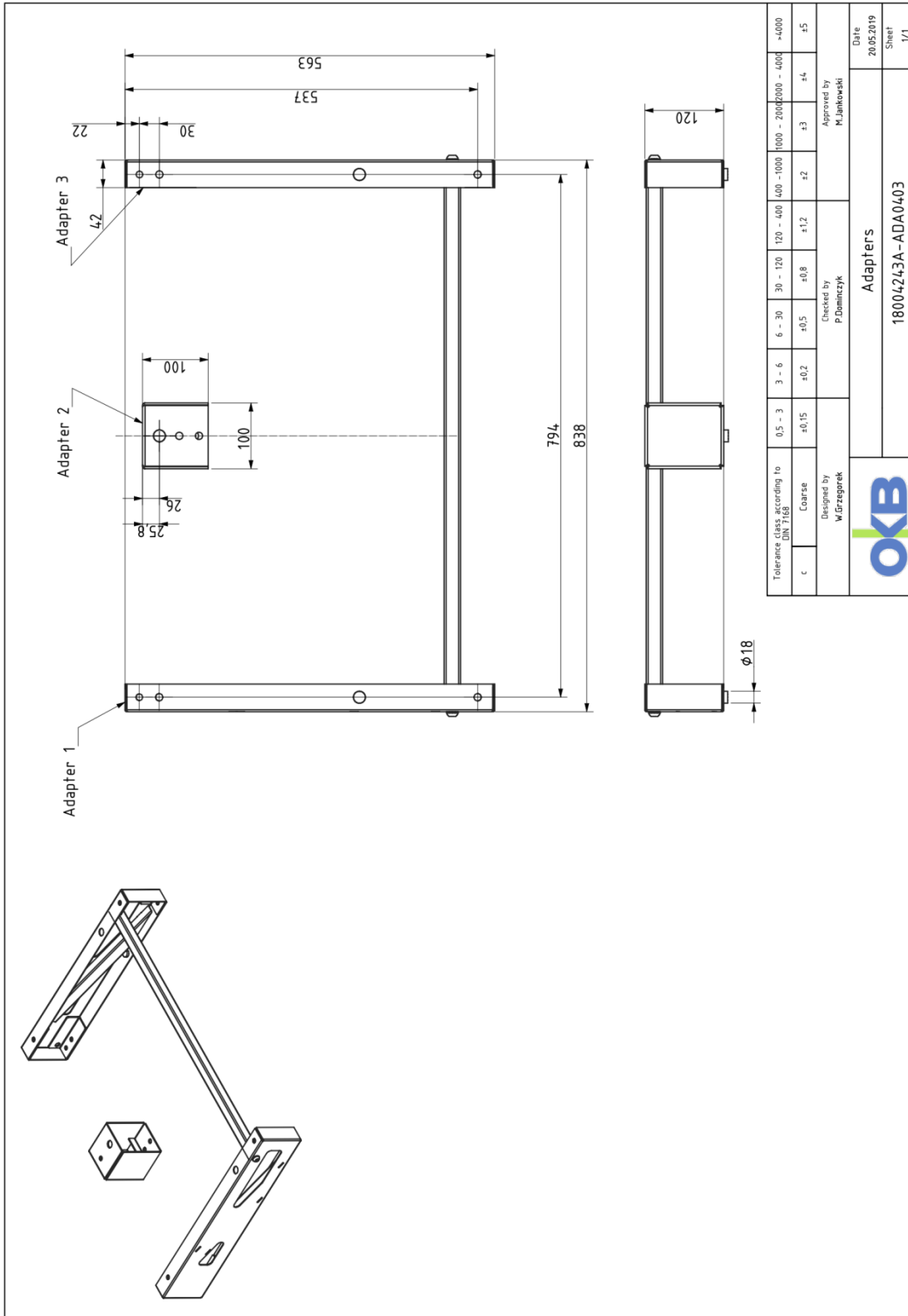


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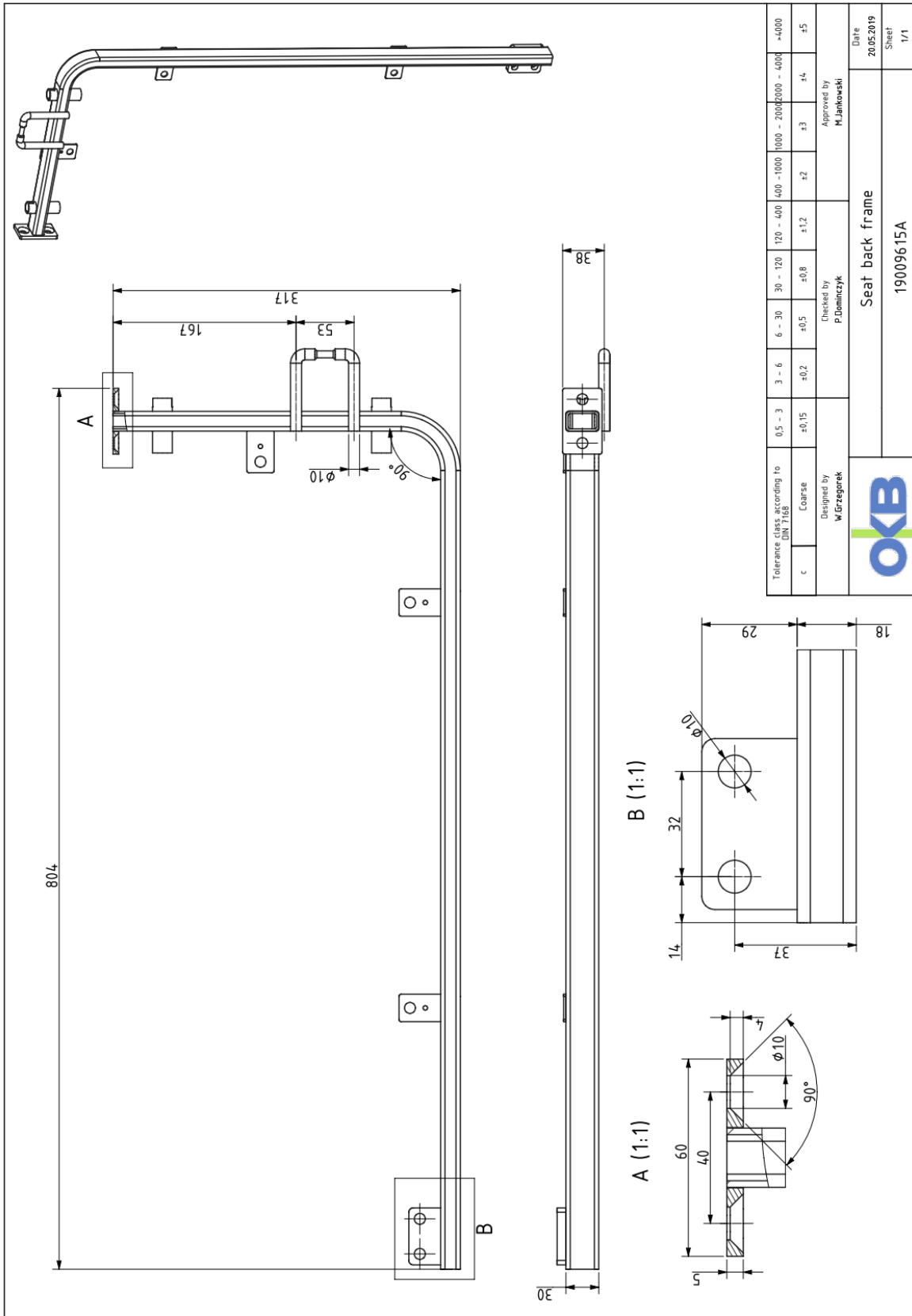


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ENCLOSURE 5: Other components



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