

INFORMATION FOLDER / DOCUMENT:
MOBIFRAME/04/2022-00

PURSUANT TO UN/ECE REGULATIONS

No. 14-09

“UNIFORM PROVISIONS CONCERNING THE APPROVAL
OF VEHICLES WITH REGARD TO SAFETY-BELT
ANCHORAGES“
(as last amended)

and

No. 145-00

“UNIFORM PROVISIONS CONCERNING THE APPROVAL OF
VEHICLES WITH REGARD TO ISOFIX ANCHORAGE SYSTEMS
ISOFIX TOP TETHER ANCHORAGES AND I-SIZE SEATING
POSITIONS“
(as last amended)

FOR THE SEAT *MOBIFRAME*
TYPE *RAM02* and *RAM03*

.....
Damian Goliński
Vice President

Total number of pages: 109

Date of issue: 16.09.2022



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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.

D. Goliński

Date of issue: 16th September 2022

.....
Damian Goliński
Vice President



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0.	GENERAL	
0.1	Make (trade name of manufacturer):	MOBIFRAME
0.2	Type:	RAM02, RAM03
0.2.1	Commercial name(s) (if available):	RAM02, RAM03
0.2.2	Dedicated for vehicle(s):	See Enclosure 1
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, M2, N2
0.5	Name and address of manufacturer:	OKB SP. Z O.O. ul. Szkolna 9 95-006 Bukowiec Poland

1. GENERAL CONSTRUCTION CHARACTERISTICS OF THE VEHICLE

1.1	Photographs and/or drawings of a representative vehicle:	See Enclosure 1
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9. BODYWORK

9.1	Type of bodywork using the codes set out in Part C of Annex II of Directive 2007/46/EC or in Part C of Annex I to Regulation (EU) 2018/858:	AC, AF, BB, CA, SA, SH
9.10	Interior arrangement	
9.10.3	Seats	
9.10.3.1	Number of seating positions:	2
9.10.3.1.1	Location and arrangement:	In case of fixation by means of Fixation Plate - any position in the vehicle behind pillar B (see Enclosure 2) In case of fixation by means of dedicated underfloor reinforcements – pre-defined position (see Enclosure 2)
9.10.3.2	Seat(s) designated for use only when the vehicle is stationary:	N/A



9.10.3.3	Mass:	RAM02 – 62 kg – mass of the heaviest configuration RAM02 is double seat frame with two single seats S1NOV01 RAM03 – 62 kg – mass of the heaviest configuration RAM03 is double seat frame with two single seats S1NGR03
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 2, Enclosure 3
9.10.3.4.2	The adjustment system:	See Enclosures
9.10.3.4.3	The displacement and locking systems:	See Enclosures
9.10.3.4.4	The seat-belt anchorages (if incorporated in the seat structure):	see Enclosure 3
9.10.3.4.5	The parts of the vehicle used as anchorages:	See Enclosure 2
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:	See Enclosure 3
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:	See Enclosures
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:	See Enclosures
9.10.4.	Head restraints	
9.10.4.1.	Type(s) of head restraints:	integrated
9.10.4.2.	Type-approval number(s), if available:	N/A
9.10.4.3.	For head restraints not yet approved	N/A
9.13	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 Enclosures



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

Other rows 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

9.13.5 Drawings and/or photographs of the ISOFIX anchorages systems, of the top tether anchorages if any, and of the vehicle structure
 ISOFIX is optional for bodywork types: BB, CA, SA, SH

9.13.5.1 Number:

9.13.5.1.1 Of the low ISOFIX anchorages See Enclosure 3

9.13.5.1.2 Of the ISOFIX top tether anchorages See Enclosure 3

9.13.5.1.3 Of the integrated "built in" child restraint system(s) of mass groups 0, or 0+, or 1: N/A

9.13.5.2 Convertible vehicle, as defined in annex 7, paragraph 8.1 of the Consolidated Resolution on the Construction of Vehicles (R.E.3) N/A

9.13.5.3 Photographs and/or drawings of the bodywork showing the position and dimensions of the anchorages See Enclosure 2 and 3

9.13.5.4 Drawing and/or photographs of the ISOFIX anchorages systems, of the ISOFIX top tether anchorages See Enclosure 3

9.13.5.5 Drawing and/or photographs of the position and the form of the symbols of the ISOFIX anchorages system, if necessary See Enclosures



Enclosure 1: TABLE OF VEHICLES TYPES

Manufacturer	Commercial description / Type	Wheelbase
Daimler / Mercedes-Benz	Sprinter, e-Sprinter (906, 907)	3250, 3665, 4325
	Sprinter (910)	3259, 3924
	Vito/Viano/V-klasse, e-Vito (639, 639/2, 639/4)	3200, 3430
VW	Crafter (2E__)	3250, 3665, 4325
	Crafter, e-Crafter (SYN__ e.g. SYN1E, SYN2E, SYN2Z)	3640, 4490
	T5 (7H_, 7E_, 7J_)	3000, 3400
	T6, T6.1, e-Transporter (7H_, 7E_, 7J_)	3000, 3400
Citroen	Jumper, e-Jumper (Y)	3000, 3450, 4035
	Jumpy (X)	3000, 3122
	Jumpy, e-Jumpy (2016)	2925, 3275
	SpaceTourer, E-SpaceTourer	2925, 3275
	Berlingo, E-Berlingo	2785, 2975
Peugeot	Boxer, e-Boxer (Y)	3000, 3450, 4035
	Expert (VF3__)	3000, 3122
	Expert, e-Expert (2016-...)	2925, 3275
	Traveller, e-Traveller	2925, 3275
	Rifter, e-Rifter	2785, 2975
Fiat	Ducato, e-Ducato (250)	3000, 3450, 4035
	Scudo (270)	3000, 3122
	Scudo (2022-...)	2925, 3275
	Talento (FJL, FFL)	3098, 3498
Opel	Movano (MR, MS, MW)	3182, 3682, 4332
	Movano, Movano-e (Y)	3000, 3450, 4035
	Vivaro (F7)	3098, 3498
	Vivaro, Vivaro-e, Vivaro e-Kombi, Zafira Life	2925, 3275
	Combo Life, Combo-e Life	2785, 2975
Renault	Master, Master E-Tech (FV, MA, VA)	3182, 3682, 4332
	Trafic (FL, L)	3098, 3498
	Trafic 2014 (JL, L)	3098, 3498
Renault Trucks	Master (MF, VF)	3182, 3682, 4332
Ford	Transit, (FA_, FD_)	2933, 3300, 3750
	Transit, e-Transit (FC_)	3300, 3750, 3954
	Transit Custom (FA_, FC_), Turneo Custom	2933, 3300
	Transit Connect (PU2)	2662, 3062
Iveco	Daily, Daily Electric (IS_)	3000, 3300, 3520, 3950, 4100, 4750
Nissan	NV200	2725
	NV300, Primastar	3098, 3498
	NV400	3182, 3682, 4332

Toyota	Pro Ace (2013-2016)	3000, 3122
	Pro Ace, Pro Ace Verso, Pro Ace Electric (2016)	2925, 3275
MAN	TGE, eTGE (SYN__ e.g. SYN1E, SYN2E, SYN2Z)	3640, 4490
MAXUS (LDV)	V80, Maxus (SV6C)	3100, 3850
	V90, Deliver 9, E-Deliver 9	3000, 3366, 3760
	Deliver 3, E Deliver 3	2910, 3285
Hyundai	H350 (EU(V))	3435, 3670
RAM	ProMaster	3000, 3450, 4035
Freightliner/Dodge	Sprinter	3250, 3665, 4325



Enclosure 2: METHODS OF SEATS FIXATION TO THE VEHICLE

2.1 Fixation of double bench frame by means of underfloor reinforcements – dedicated for Fiat Ducato/Peugeot Boxer/Citroen Jumper/Opel Movano/RAM ProMaster

RAM02:

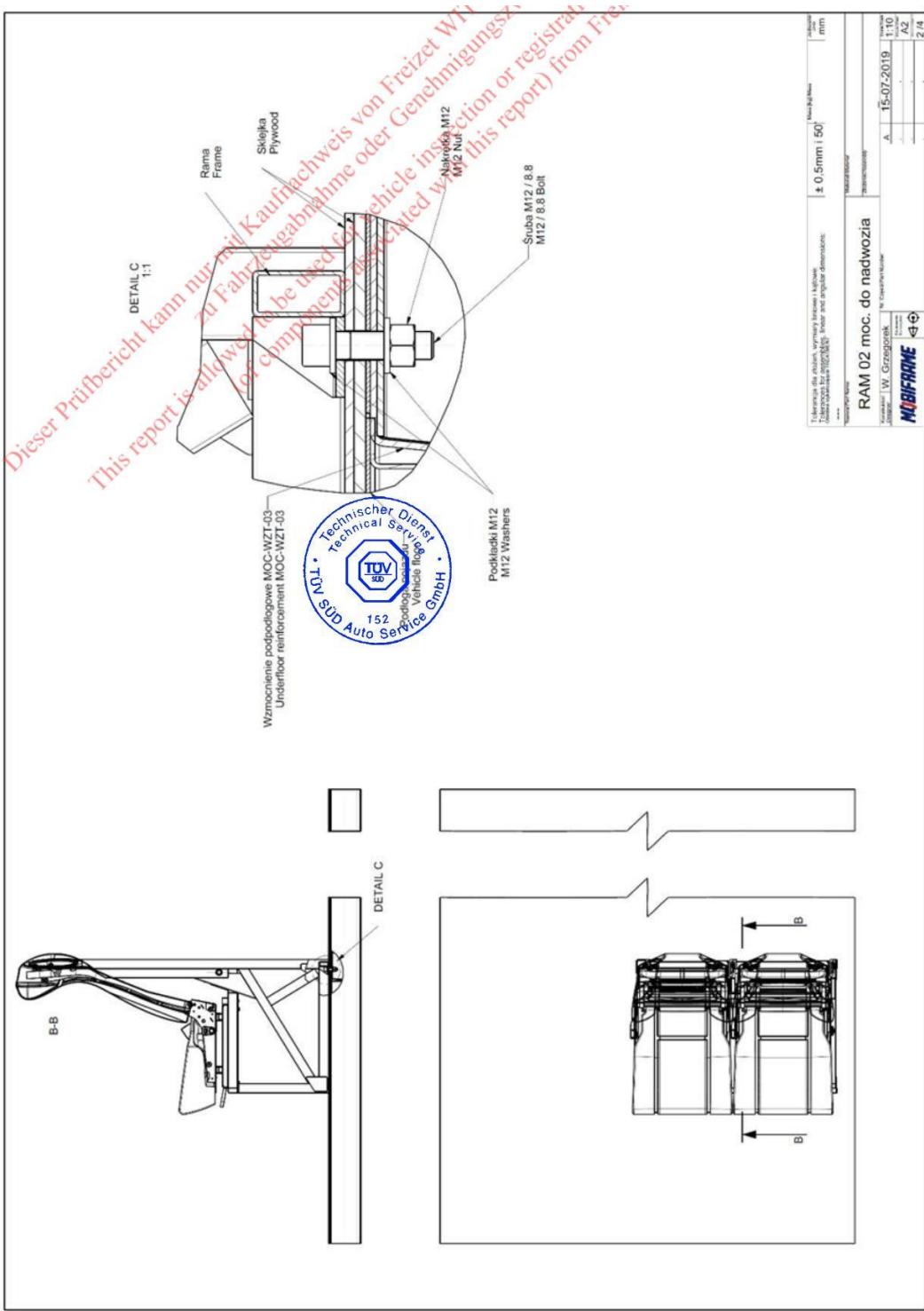
(see next pages)

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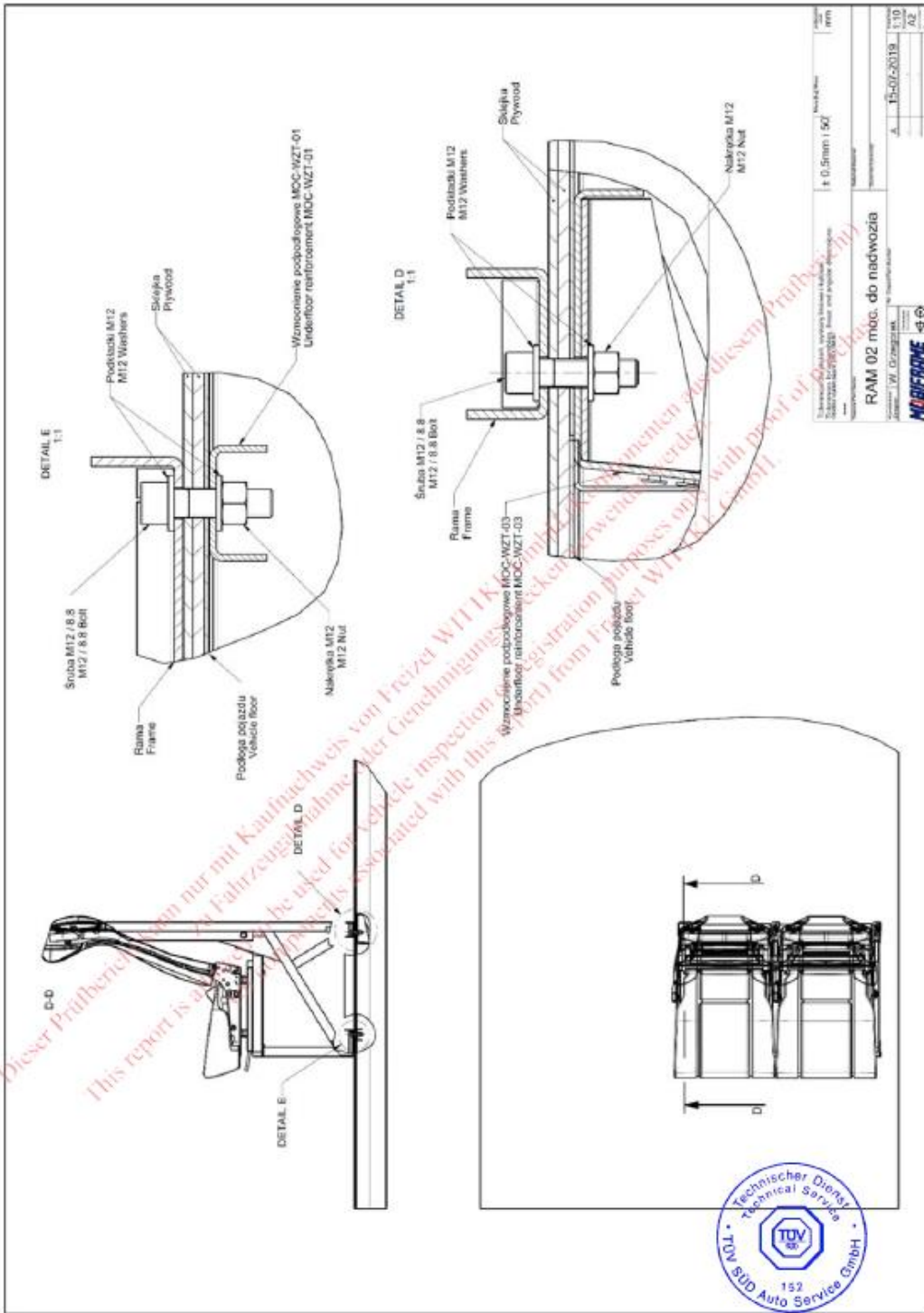


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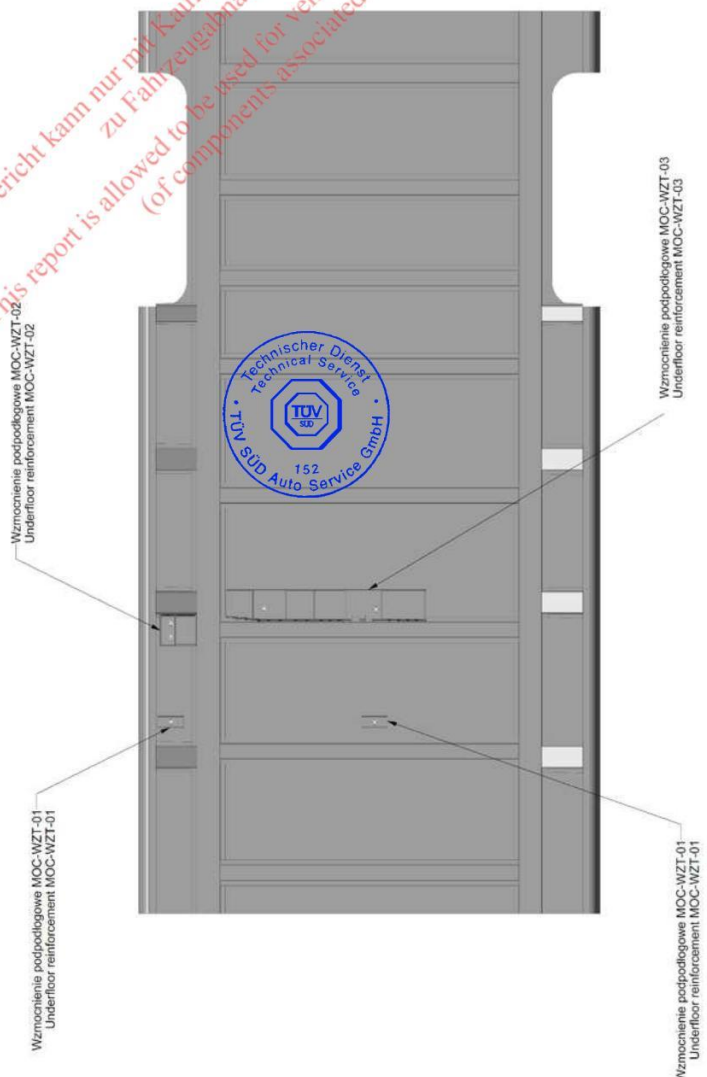
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Tabliczka dla ocenia, wymiary i inne dane techniczne: $\pm 0.5\text{mm} / 50'$ Max. Height: mm

RAM 02 moc. do nadwozia

Konstruktor: IW_Grzesiowski N: CiężarPrzebieg

15-07-2019

MOBIFRAME



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RAM03:

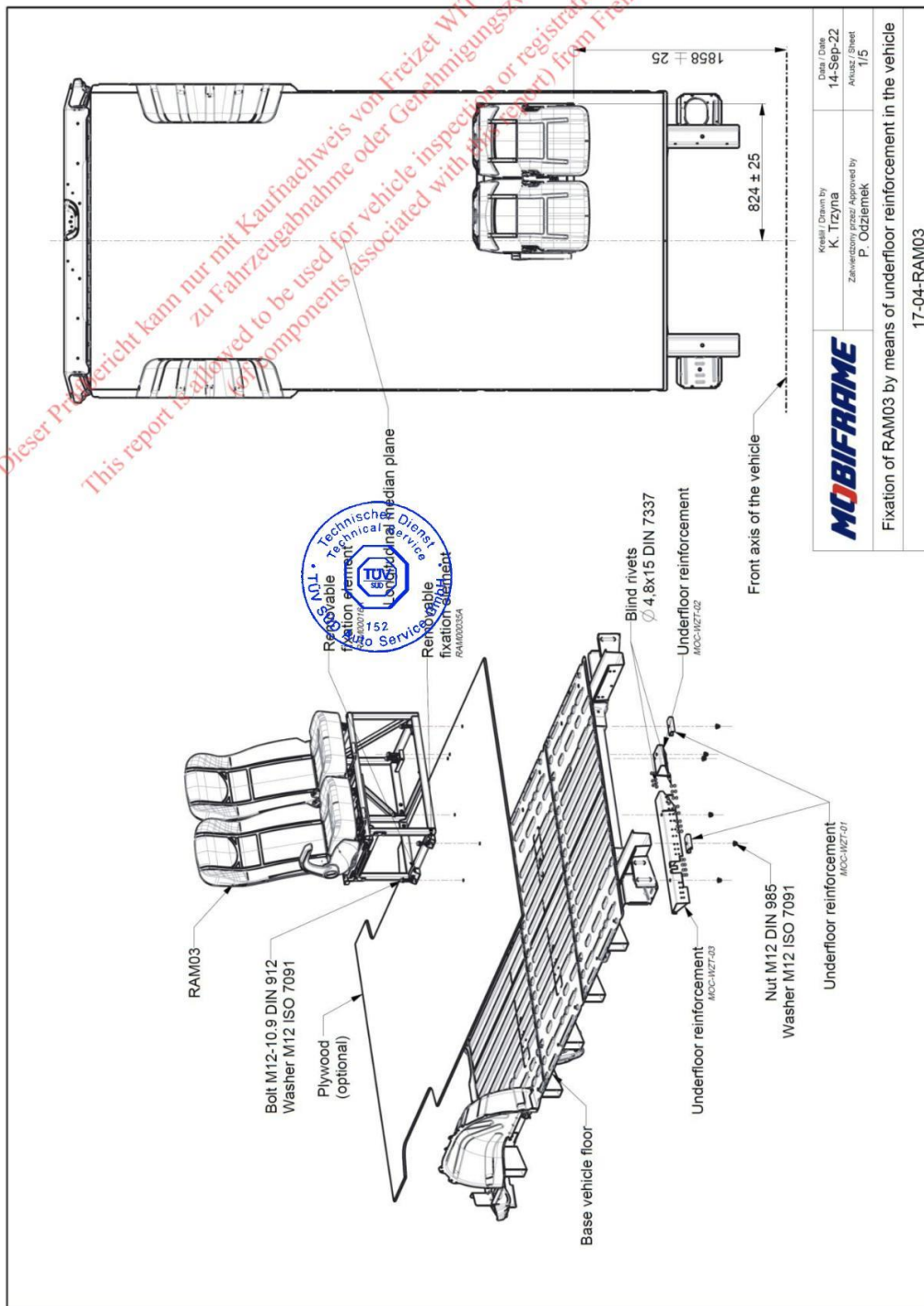
(see next pages)



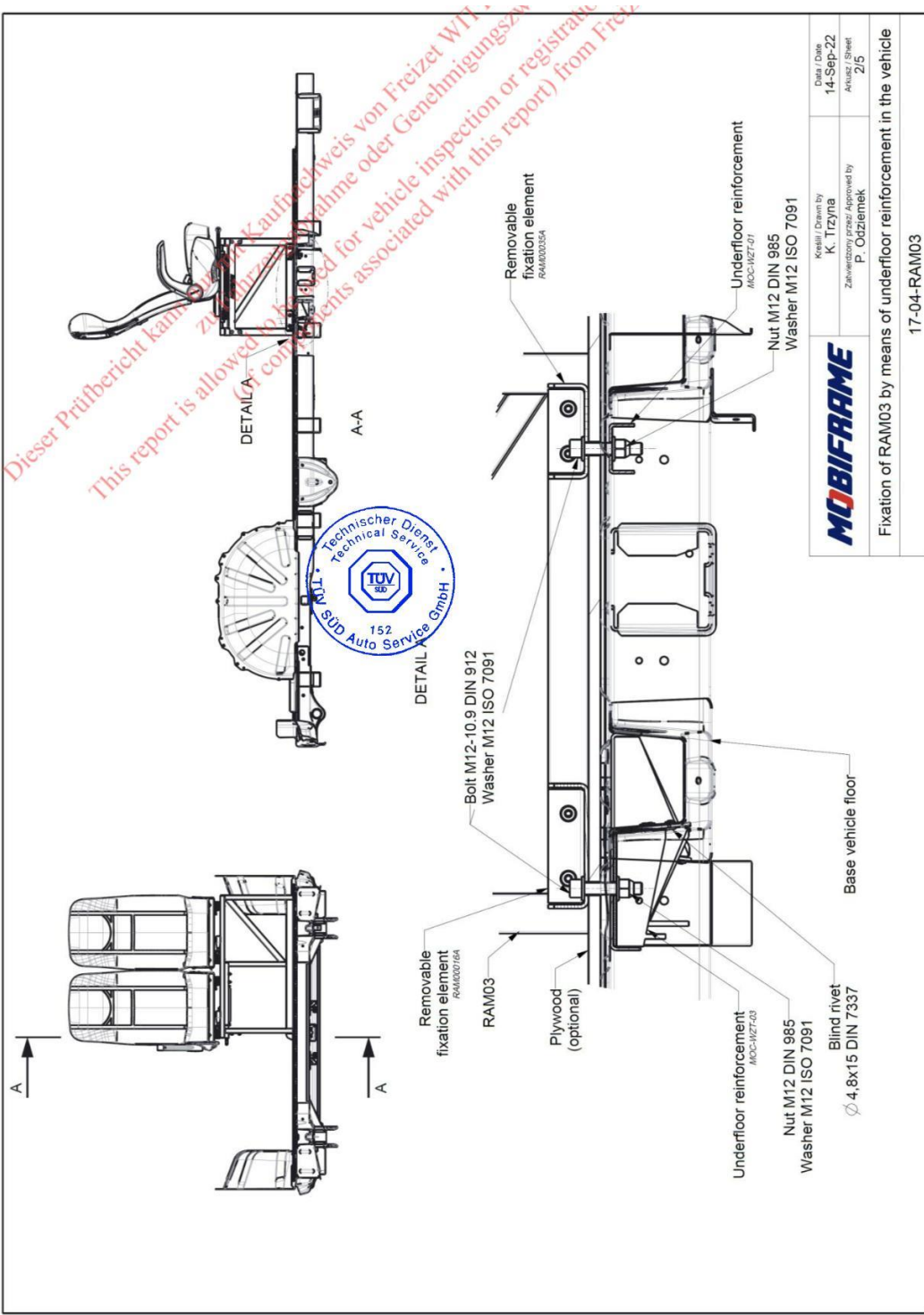
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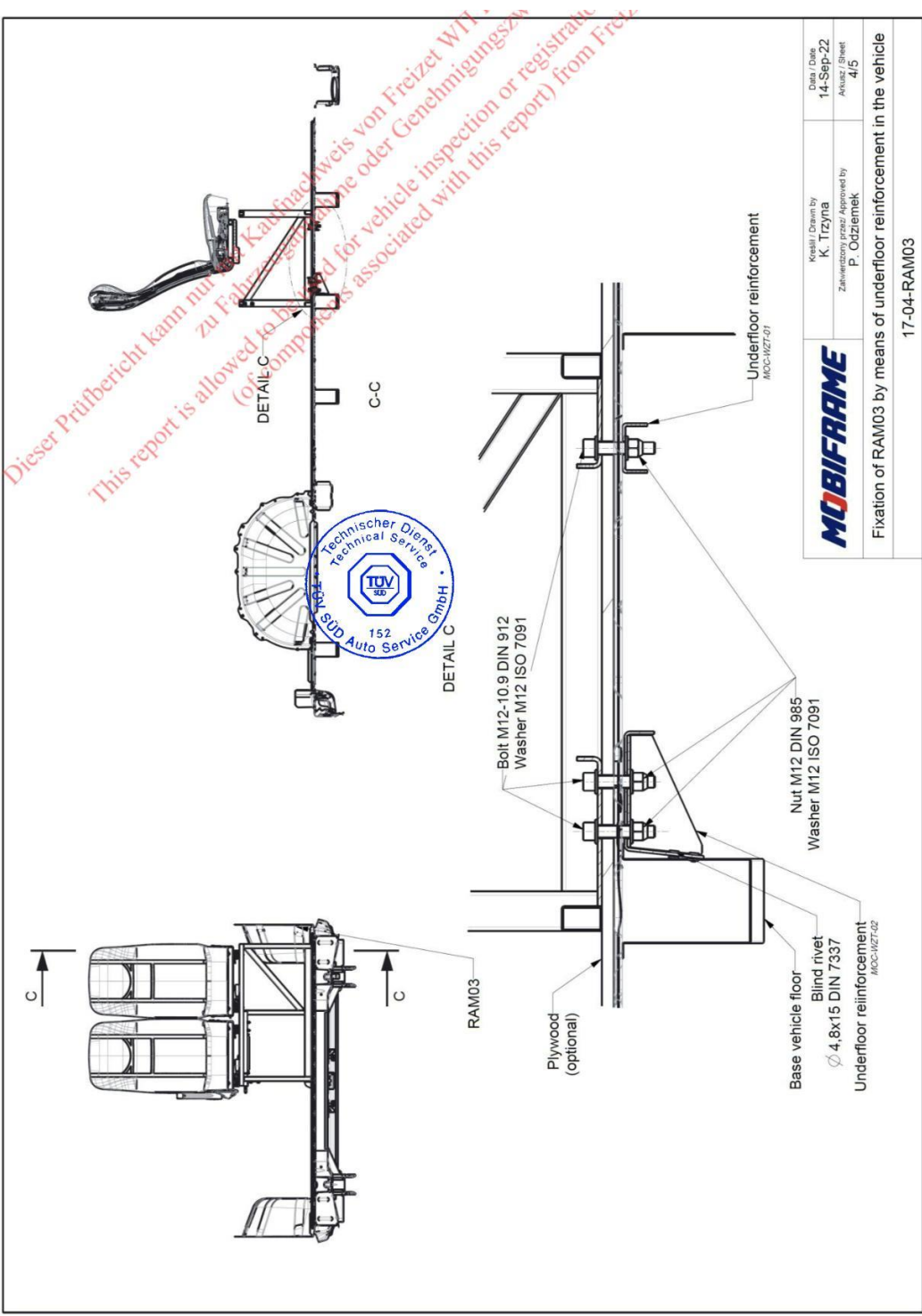


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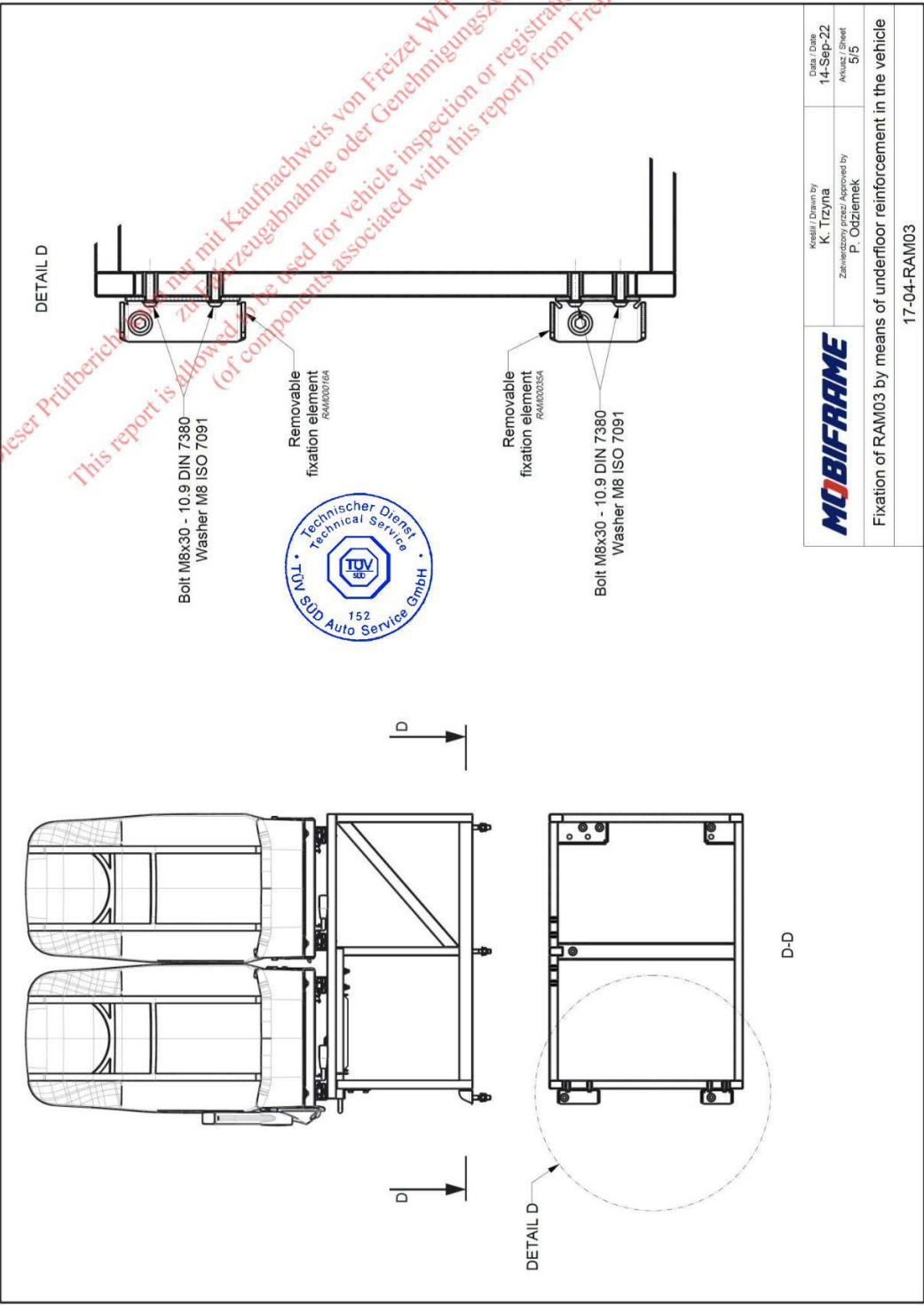
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	Zatwierdzenie przez / Approved by P. Odziemtek	Arbeits / Sheet 3/5
Fixation of RAM03 by means of underfloor reinforcement in the vehicle		
17-04-RAM03		



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RAM02 and RAM03 fixation components (underfloor reinforcements):

(see next pages)

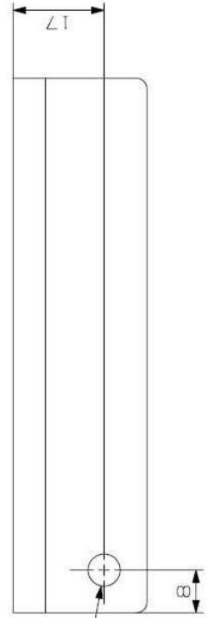
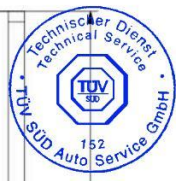
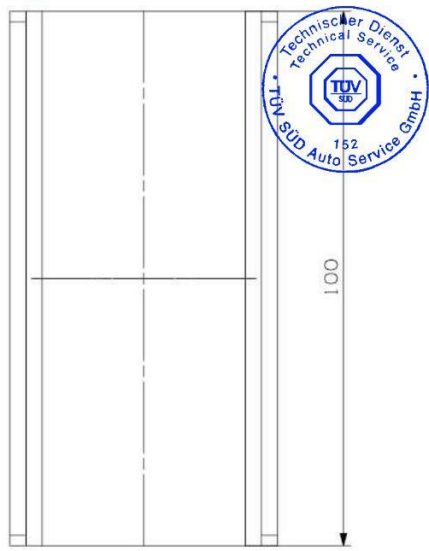
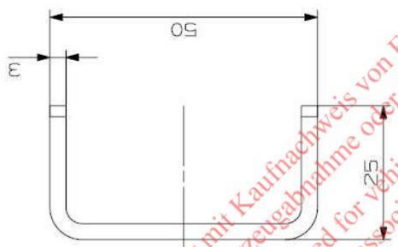
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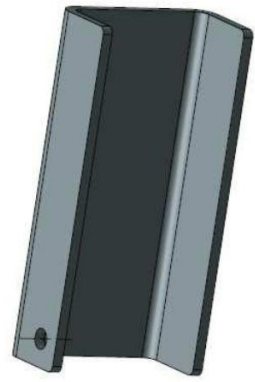
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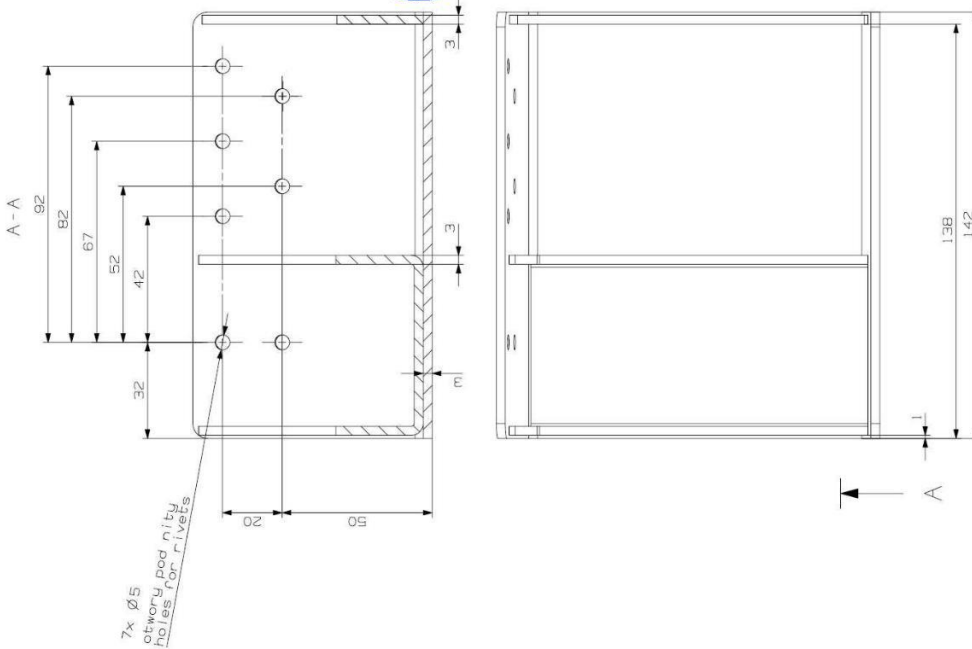


Zaprojektował P. Dądziałek	Sprawdził L. Walczak	Zatwierdził M. Jankowski	Data 19.11.2014	Masa -
Nazwa Mocowanie podpodłogowe/Underfloor reinforcement			Materiał SZ35JR	
Numer rysunku MOC-WZI-01			Arkusze 1/1	



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Zapraszamy do współpracy / We invite you to cooperate	Imię i nazwisko / Name	Adres / Address	Telefon / Phone	Strona internetowa / Website
F-002 Lemiek, L. Wojcik	M. Jankowski	14-01-2013		
MOBIFRAME				
Kodowanie podłogowe/Underfloor reinforcement				
Numer / No. MOU-WZT-02				
Materiał / Material 5235JA				
Wersja / Version 1.1.1				



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2.2 Fixation of double bench frame by means of underfloor reinforcements – dedicated for

Mercedes Sprinter (906, 907)/Volkswagen Crafter (2006-2016)

RAM02:

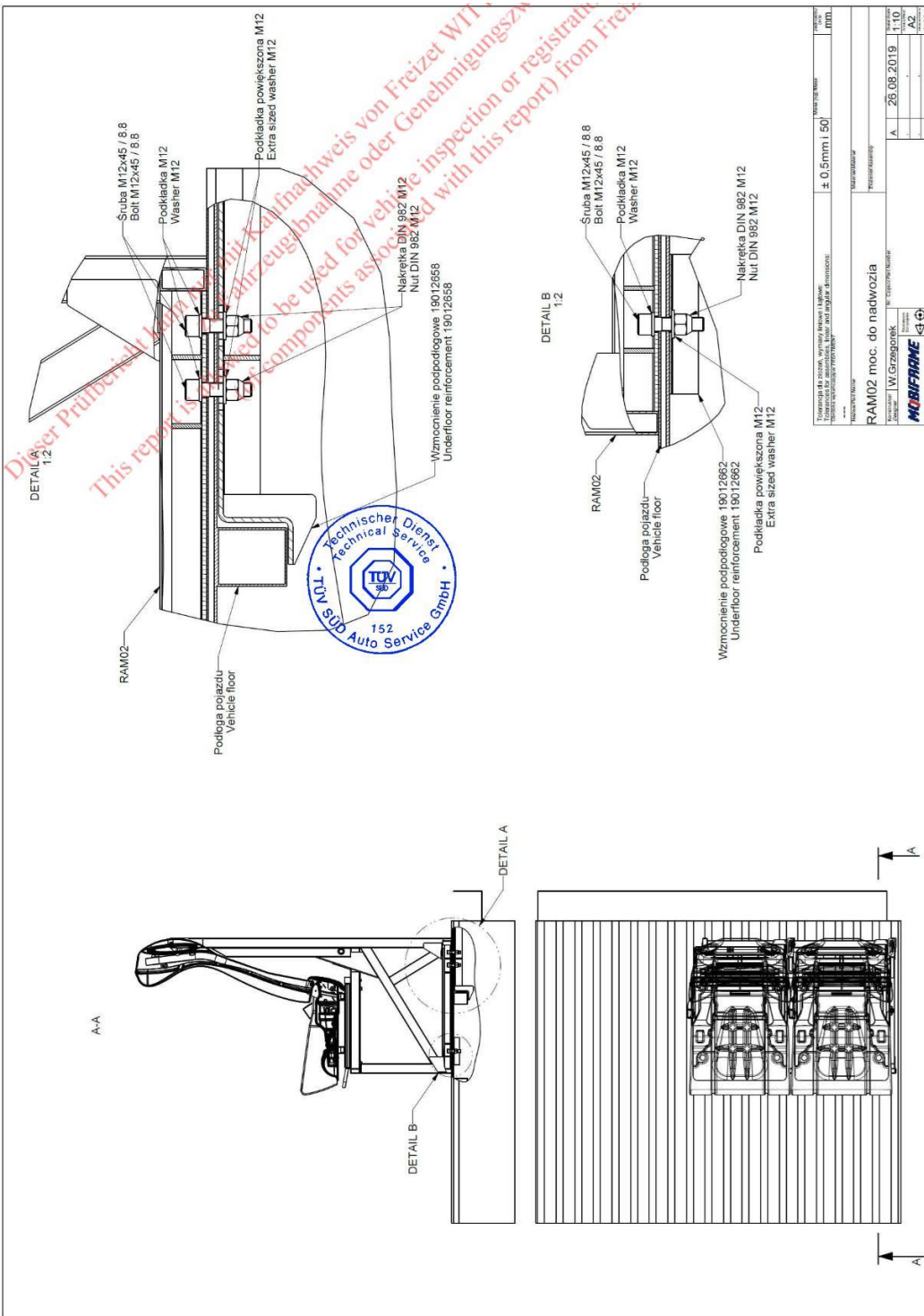
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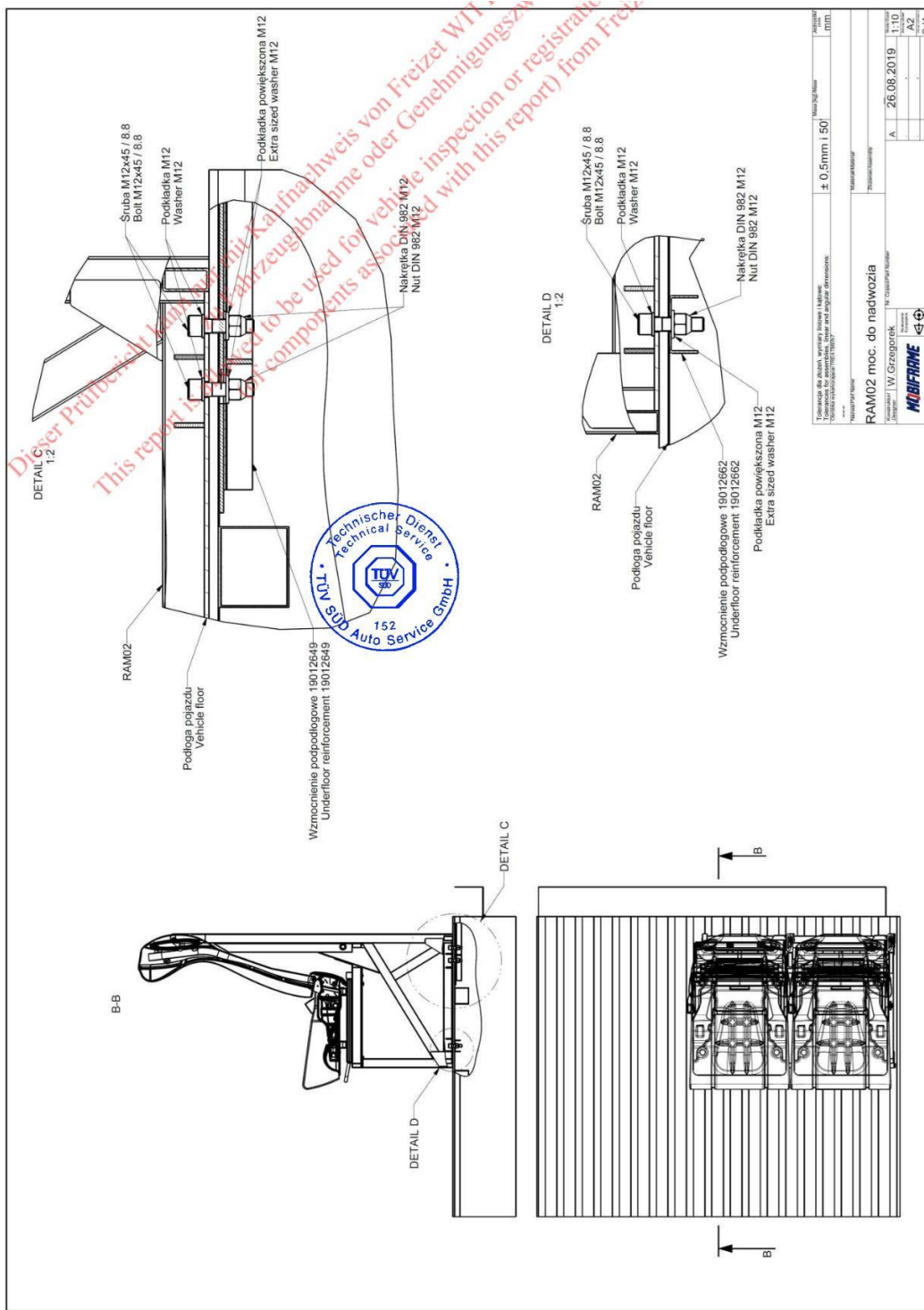


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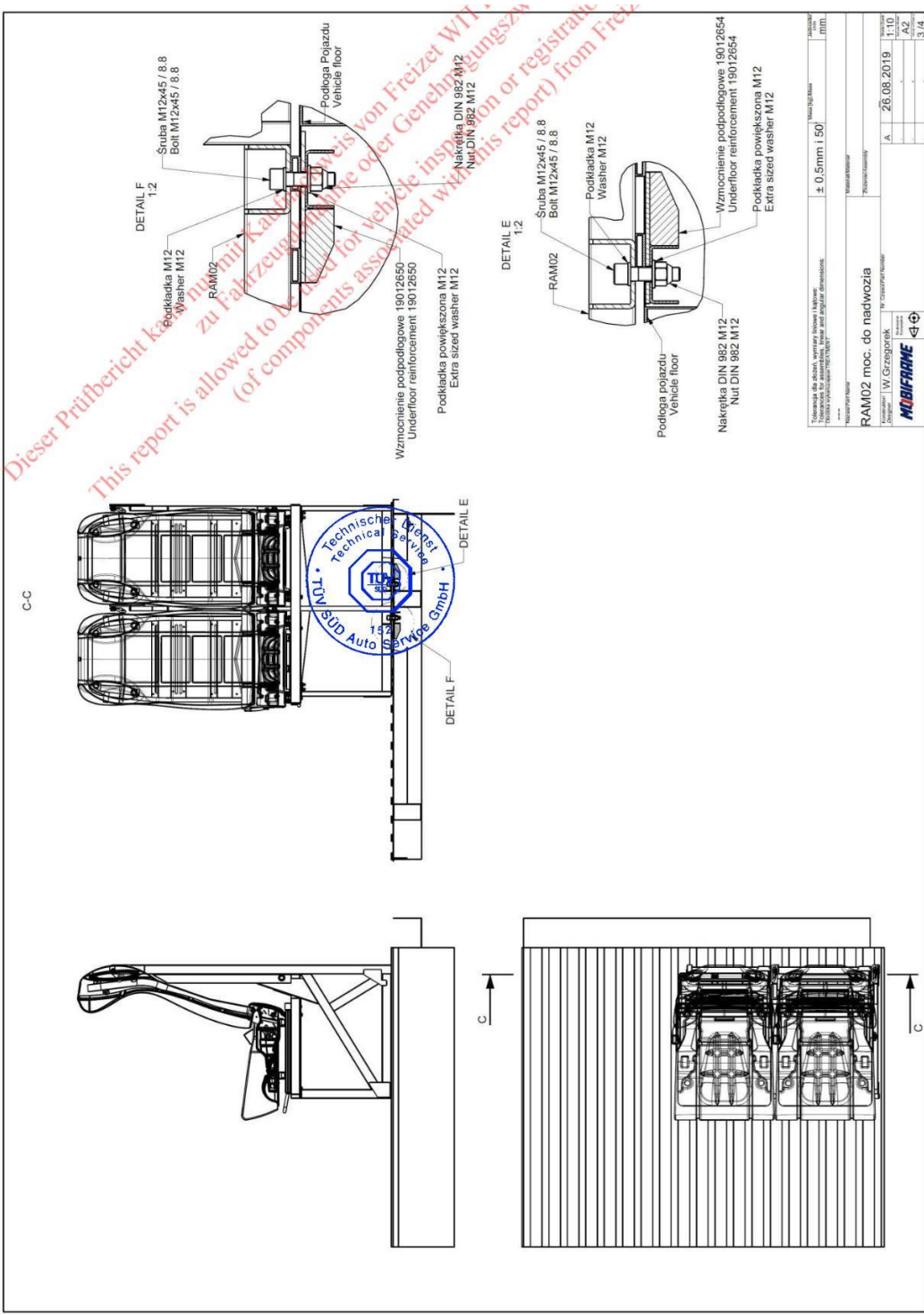
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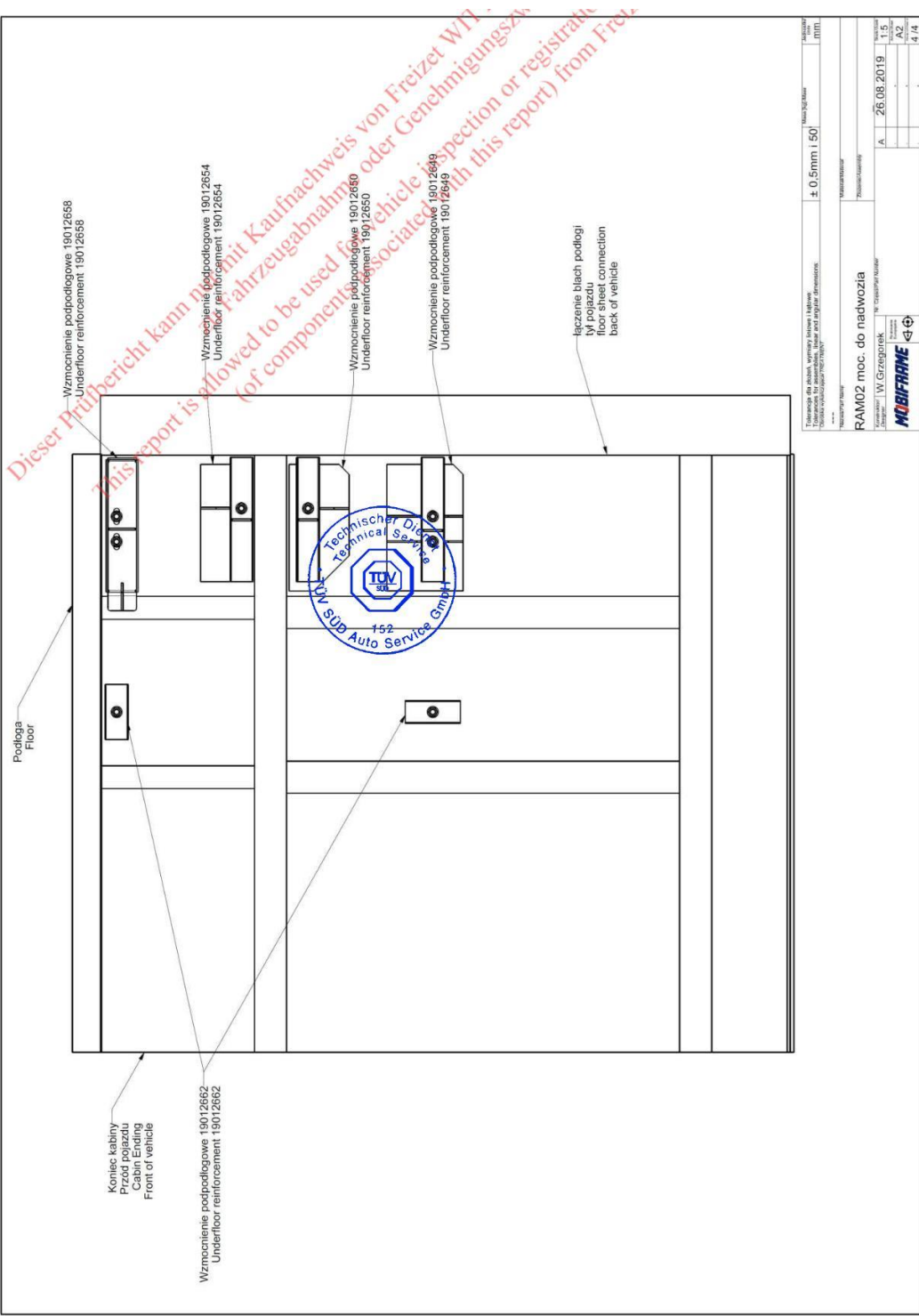
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RAM03:

(see next pages)

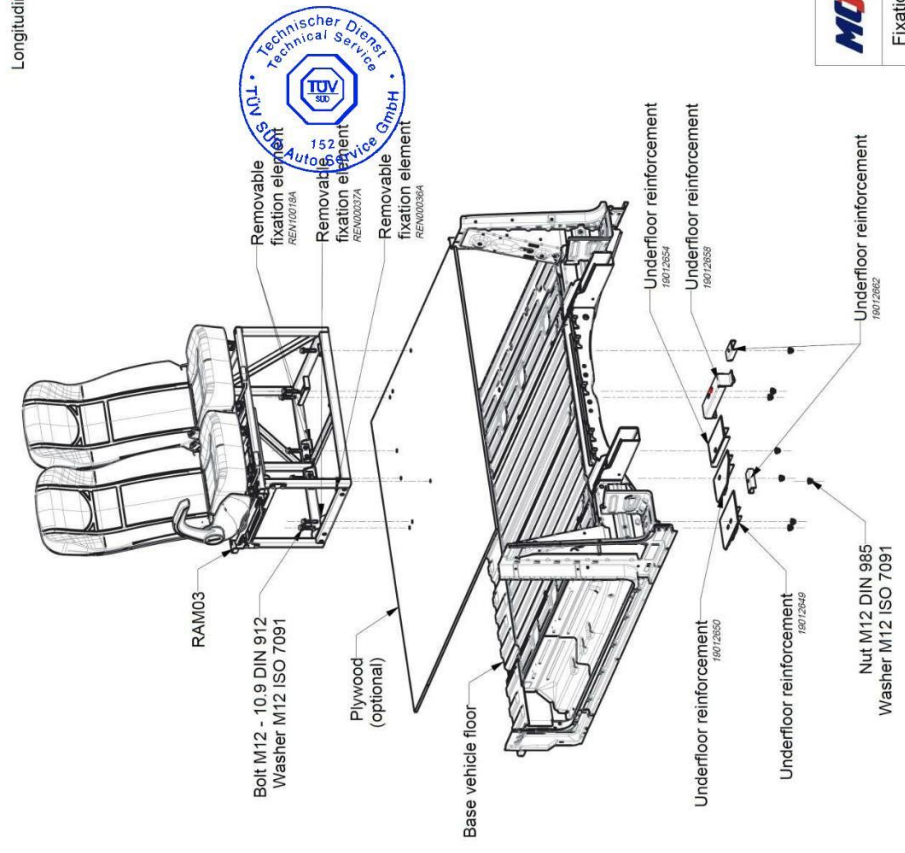
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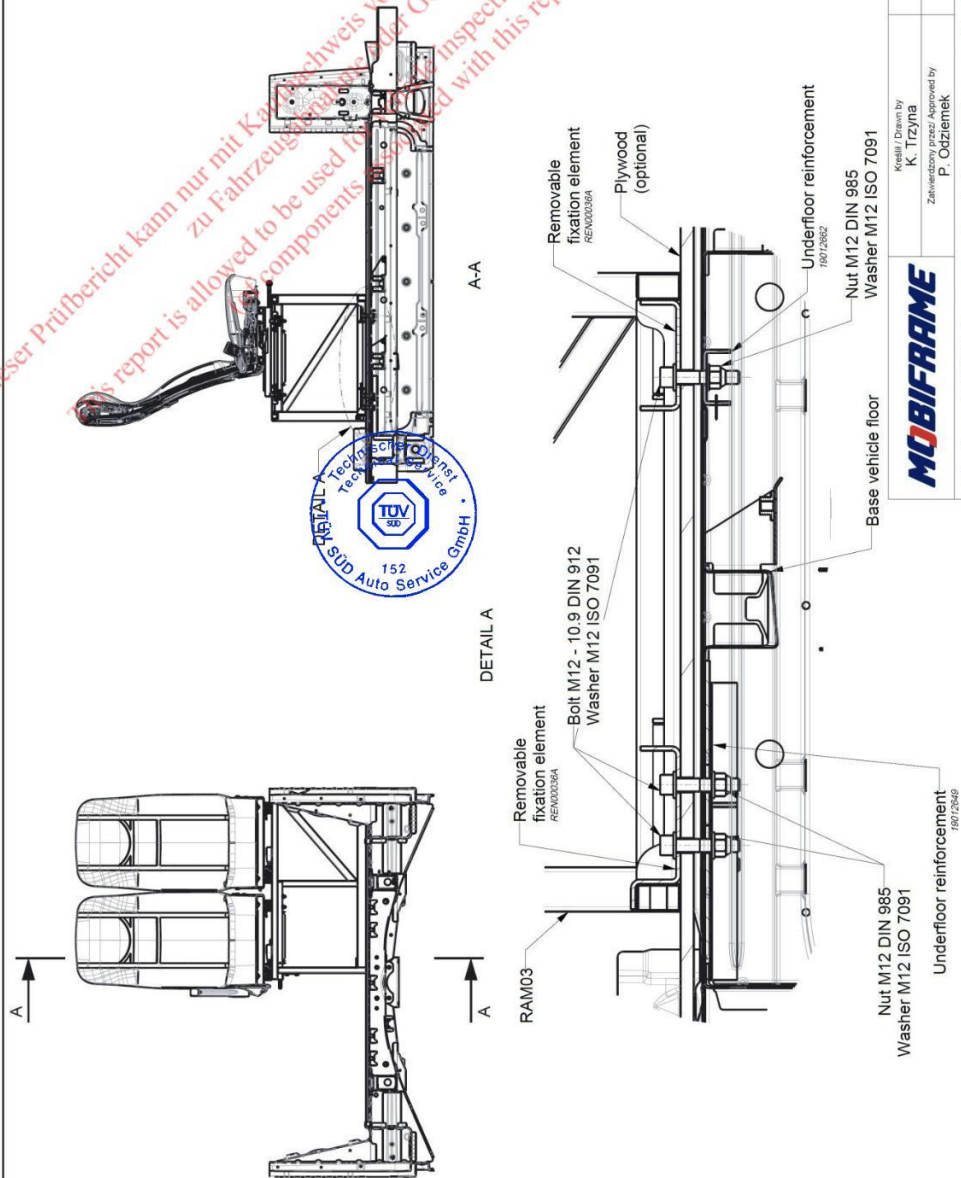


MOBIFRAME	KRAFT / Created by K. Trzyna Zaprojektował / Approved by P. Odziemek	Data / Date 16-Sep-22 Artykuł / Sheet 1/5
	Fixation of RAM03 by means of underfloor reinforcement in the vehicle 17-05-RAM03	



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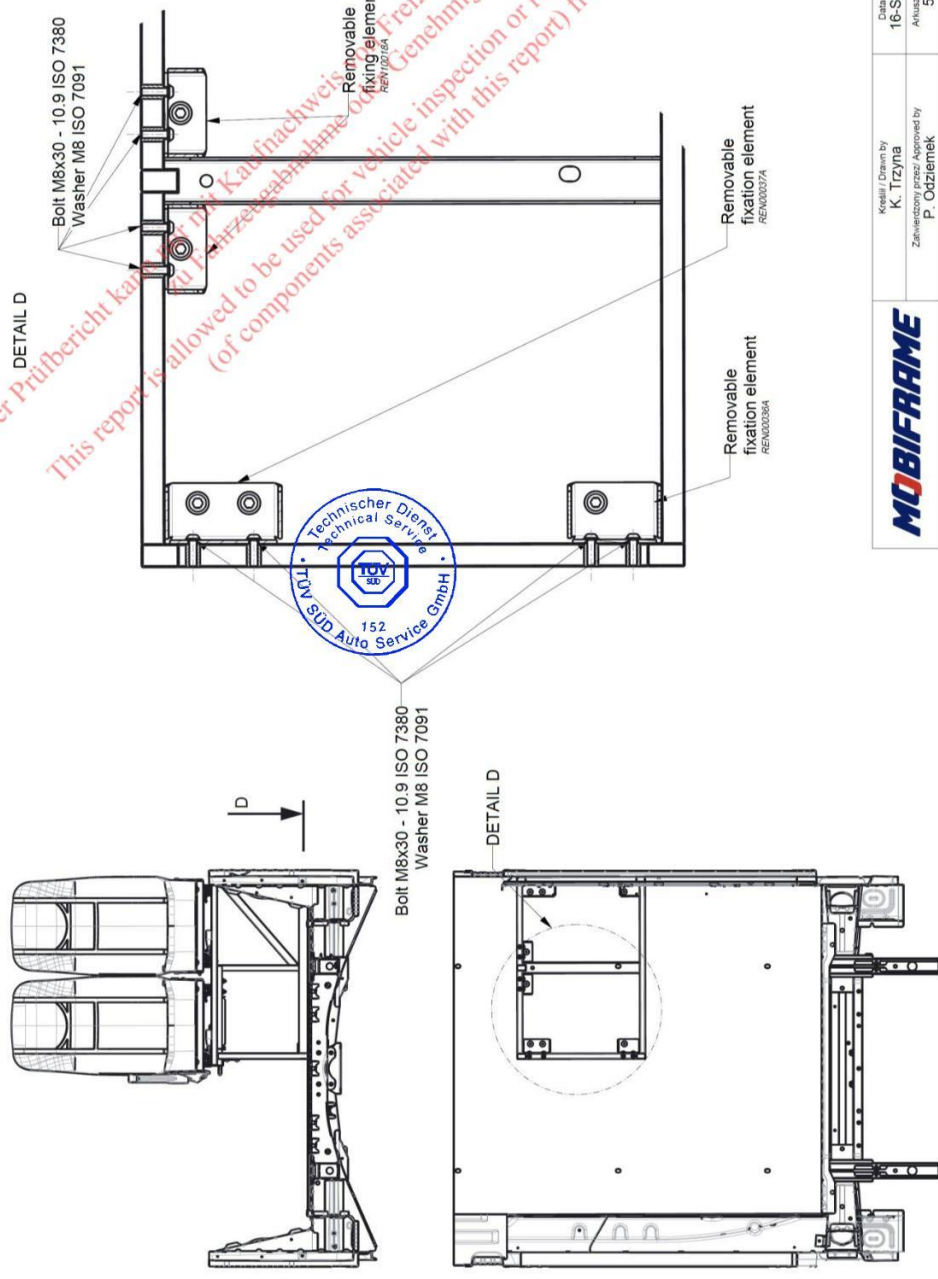


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Fixation of RAM03 by means of underfloor reinforcement in the vehicle 17-05-RAM03	
Date / Date	16-Sep-22
Revision / Sheet	2/5



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	Fixation of RAM03 by means of underfloor reinforcement in the vehicle 17-05-RAM03	



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RAM02 and RAM03 fixation components (underfloor reinforcements):

(see next pages)

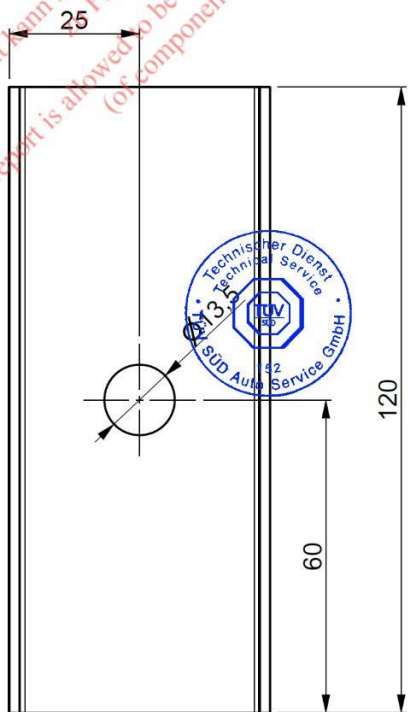
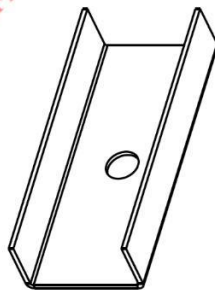
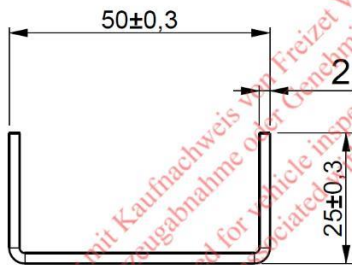
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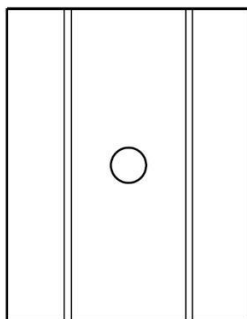
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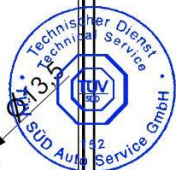


Płaski wzór / Flat pattern:



UWAGI:
 Laser: 19012662A.dxf

Powierzchnia
 Surface
 0,023 m²



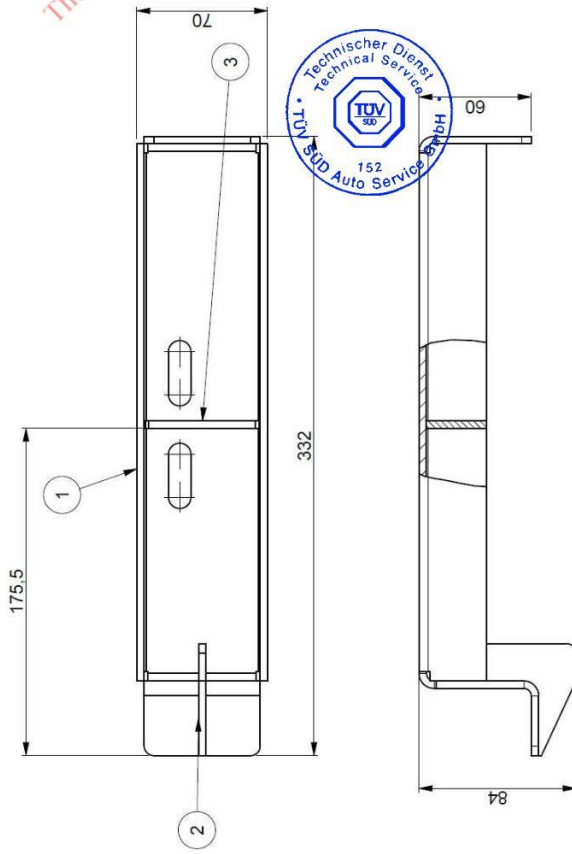
Tolerancje wg ISO 2768-1 i ISO2768-2, klasa: Tolerances according to ISO 2768-1; ISO2768-2, class:		mK	Masa [kg]/Mass 0,175	Jednostki Units mm
Nazwa/Part Name WZP01		Material/Material S355JR (EN 10027-1)		
Konstruktor/ Designer S.Chrzanowski		Nr. Części/Part Number 19012662		Skala/Scale 1:1
 		A 18-06-2019		A4 1/2



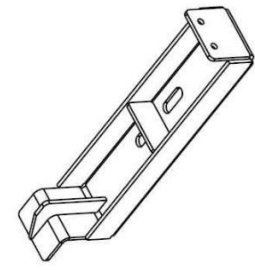
Diese Seite gilt nicht für das angebotene Produkt!
 This page does not apply to the product offered!

	Date: 16.09.2022
	MOBIFRAME/04/2022-00 Page / pages: 32/109

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 zu Fahrzeugabnahme oder Genehmigungszul...
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 (of components associated with this report) from Frey...



3	1	ZASTRZAL_G	19012661	A	0,061
2	1	ZASTRZAL_F	19012660	A	0,064
1	1	WZ_KABE_MID1	19012659	A	1,452
Pozycja / loc.:			Kod	Waga / Masa	Uwagi
Tolerancja dla zwozeń, wymiary liniowe i kątowe: Tolerances for assemblies, linear and angular dimensions: Toleranz für Baugruppen, Liniär- und Winkelmaße:			± 0.5mm i 50	1,577	
Nazwa / Part Name: WD_MOCOWANIE_SLUPKA Nazwa / Assembly: Wzmocnienia Konstruktor / Designer: W.Gizegorek Nr. rysunku / Drawing No.: 19012658 Data / Date: 03.07.2019 Powierzchnia / Surface: 0,108 m² Logo: MOBIFRAME					



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5	1 BLACHA_MOCUJACA	19012648	A	1.416
4	1 CEOWNIK_WZMACNIAJACY	19012647	A	0.390
3	2 ZASTRZAL_C	19012646	A	0.024
2	1 ZASTRZAL_A	19012645	A	0.032
1	2 ZASTRZAL_B	19012644	A	0.044

Tolerancja dla złożeń, wymiary liniowe i kątyowe: ±0,5mm i 50' Malować RAL 9005 / Paint RAL 9005

Powierzchnia Surface 0,159 m²

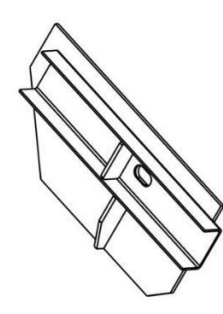
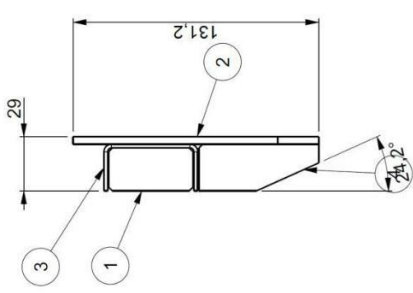
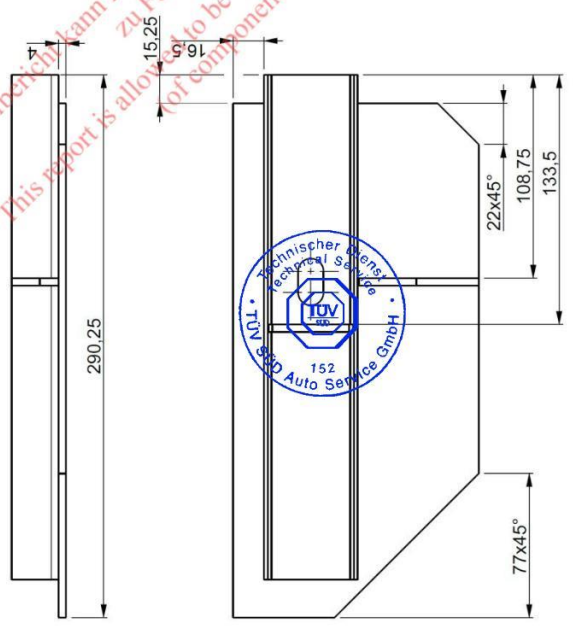
Wzmocnienia: W. Grzegorek, 03.07.2019

MOBIFRAME



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 (of components associated with this report) from Freizeit WITKE



QTY	Part Name	Code	Material	Weight
4	ZASTRZAL_D	19012653	A	0.042
3	CEOWNIK_WZMAC_2	19012652	A	0.391
2	BLACHA_MOCUJACA_2	19012651	A	1.023
1	ZASTRZAL_A	19012645	A	0.032

Tolerancje dla zleceń, wymiary liniowe i katowe:
 Tolerances for assemblies, linear and angular dimensions:
 Tolerances for assemblies, linear and angular dimensions:
 Tolerances for assemblies, linear and angular dimensions:
 Malowac RAL 9005 / Paint RAL 9005
 ± 0.5mm i 50' 1,489 mm

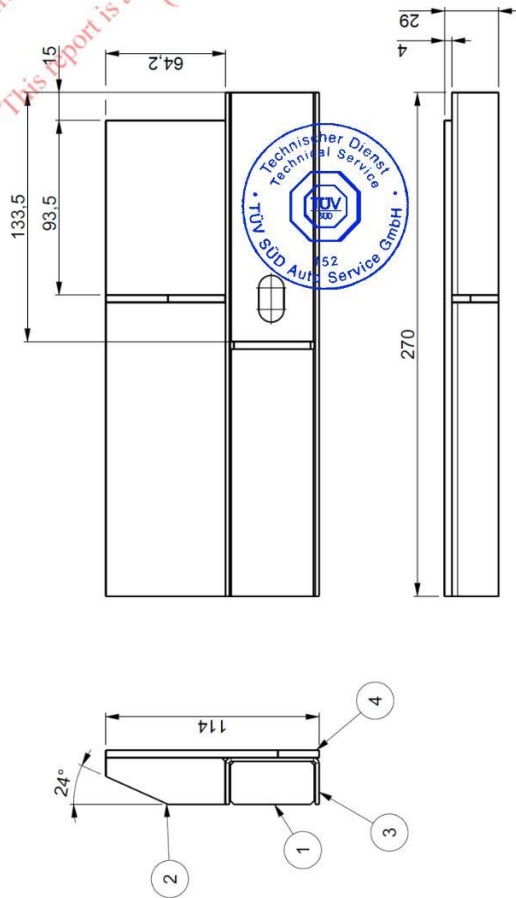
Powierzchnia
Surface
0,126 m²

WD_WZMOC_TYLNE_2		Wzmocnienia	
Wzrost	1,2	Wzrost	1,2
Waga	A3	Waga	A3
Wzrost	1/2	Wzrost	1/2



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 zu Fahrzeugabnahme oder Genehmigungszwecken
 (of components associated with this report) from Freizeit WITKE



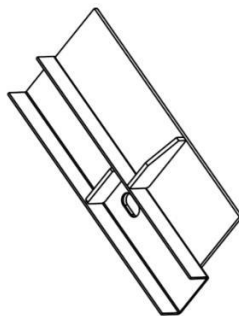
4	1	BLACHA_MOCUJACA_3	19012656	A	0.897
3	1	CEOWNIK_WZMAC_3	19012655	A	0.395
2	1	ZASTRZAL_D	19012653	A	0.042
1	1	ZASTRZAL_A	19012645	A	0.032

Tolerancje dla złożeń, wymiary liniowe i katowe:
 Tolerances for assemblies, linear and angular dimensions:
 ± 0,5mm i 50'

Nazwa: Malować RAL 9005 / Paint RAL 9005
 Nazwa partii: WDMOCOWANIE_TYLNE

Konstruktor: W.Grzegorek
 Inżynier: W.Grzegorek
 N°: 03.07.2019
 Wzmocnienia: A3

Powierzchnia Surface: 0,118 m²
 Wzrost: 1,2
 Szerokość: A3
 Skala: 1/2



Diese Seite gilt nicht für das angebotene Produkt!
 This page does not apply to the product offered!

2.3. Fixation of double seat bench by means of Fixation Plate – dedicated for all vehicles
presented in Enclosure 1

RAM02:

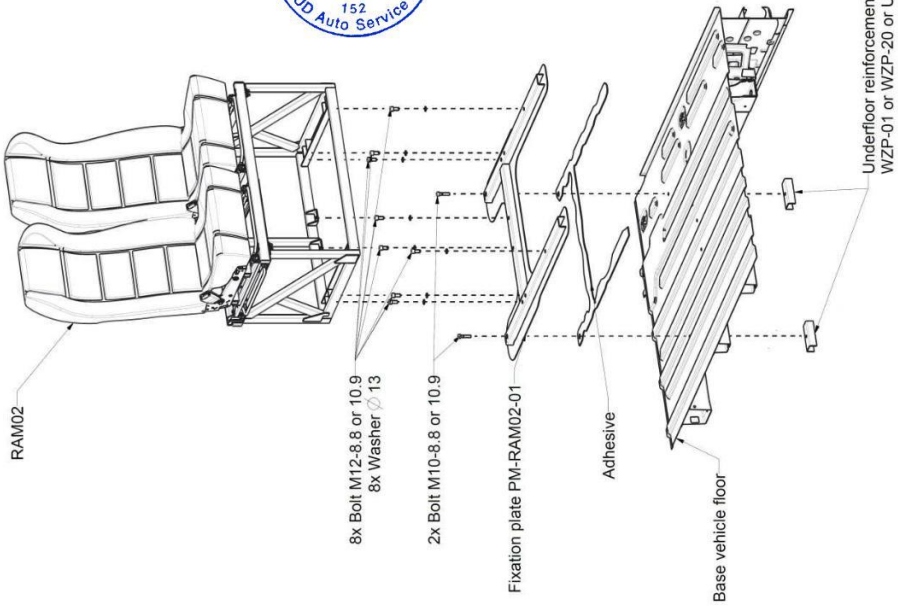
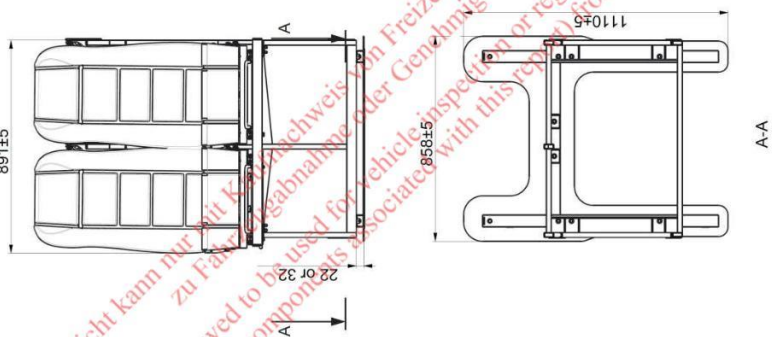
(see next pages)

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zu Fahrzeugabnahme oder
This report is allowed to be used for vehicle insp.
(of components associated with th.*



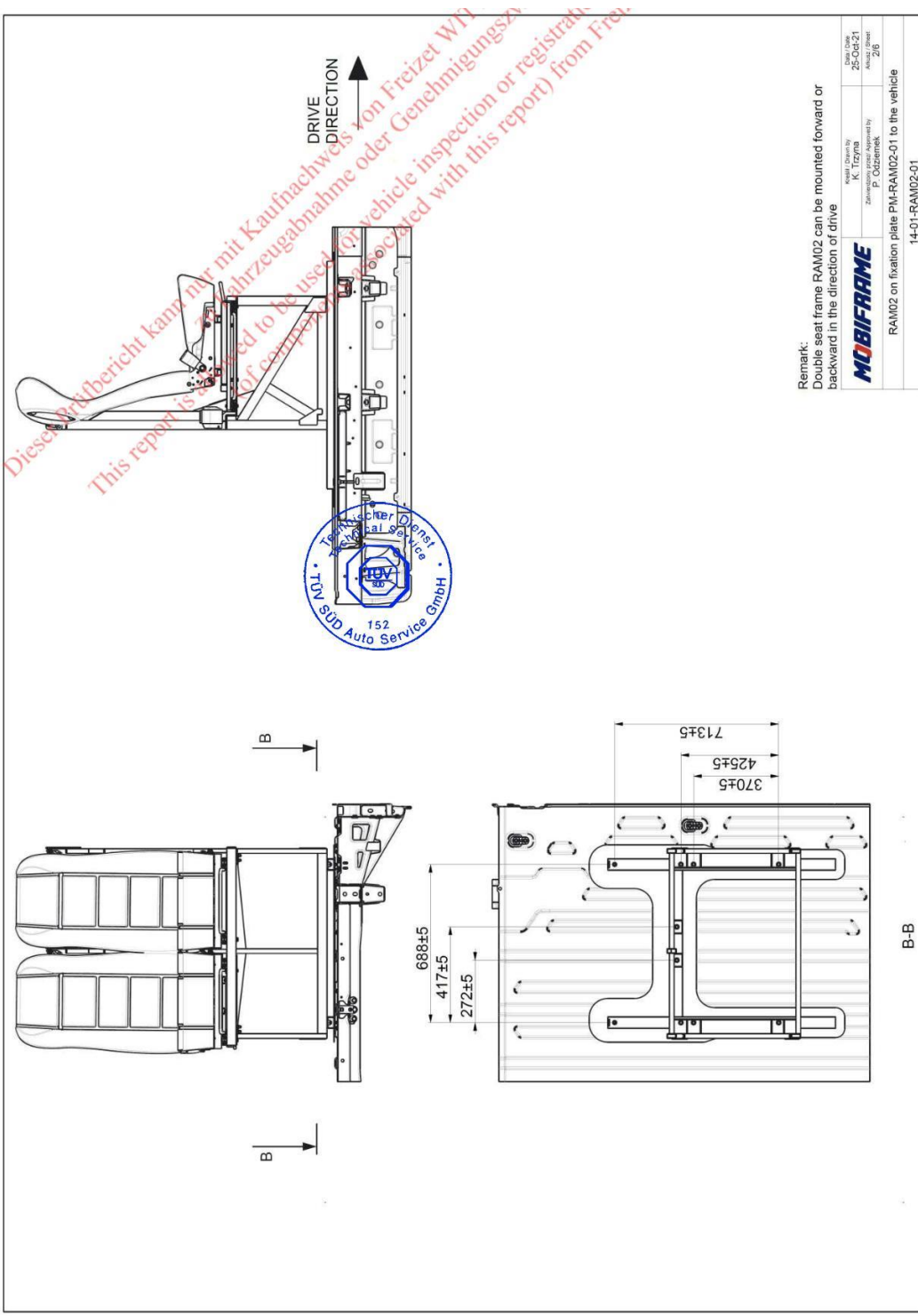
MOBIFRAME		Date: 16.09.2022
	MOBIFRAME/04/2022-00	Page / pages: 37/109

Dieser Prüfbericht kann nur mit Kassenstempel und Unterschrift des Sachverständigen
 zu Fallentnahme oder Entnahme der Zulassung
 (of components associate with this report) from Freizeitanlagen



MOBIFRAME	Date / Datum: 25-Oct-21 Prepared / Prepared by: K. Trzyna Checked / Checked by: P. Olszanski Drawing / Drawing: 1/6
RAM02 on fixation plate PM-RAM02-01 to the vehicle	
14-01-RAM02-01	

In case of use of underfloor reinforcement UWP-01 additional nut M10 and washer Ø10,5 should be applied.



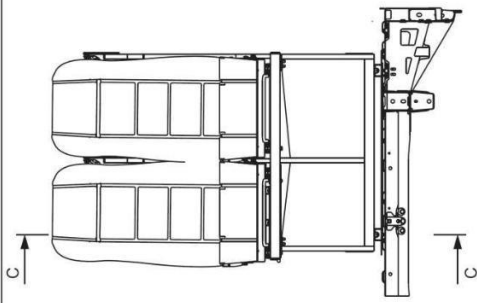
Remark:
Double seat frame RAM02 can be mounted forward or
backward in the direction of drive



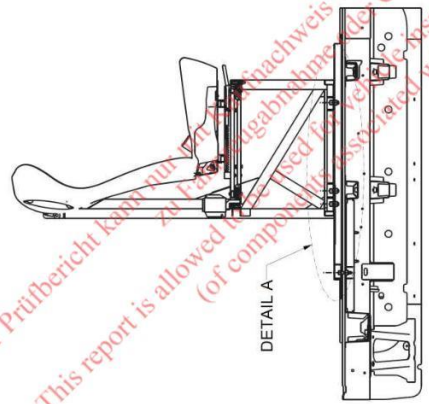
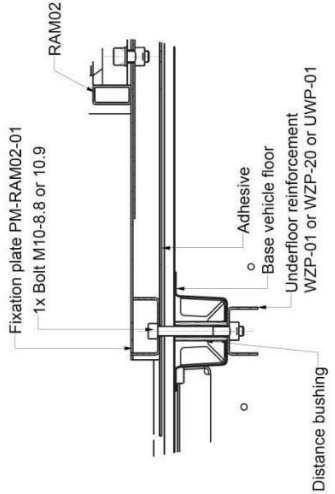
RAM02 on fixation plate PM-RAM02-01 to the vehicle
14-01-RAM02-01

Model / Version by
K. Tizymb
Zustimm. P. Özdemek
Date / Date
25-08-21
Revision
2/6

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 (of companies associated with this report) from Freizet



DETAIL A
 version 2 - fixation of underfloor reinforcement by vehicle floor
 (and longitudinal beam or cross-member)

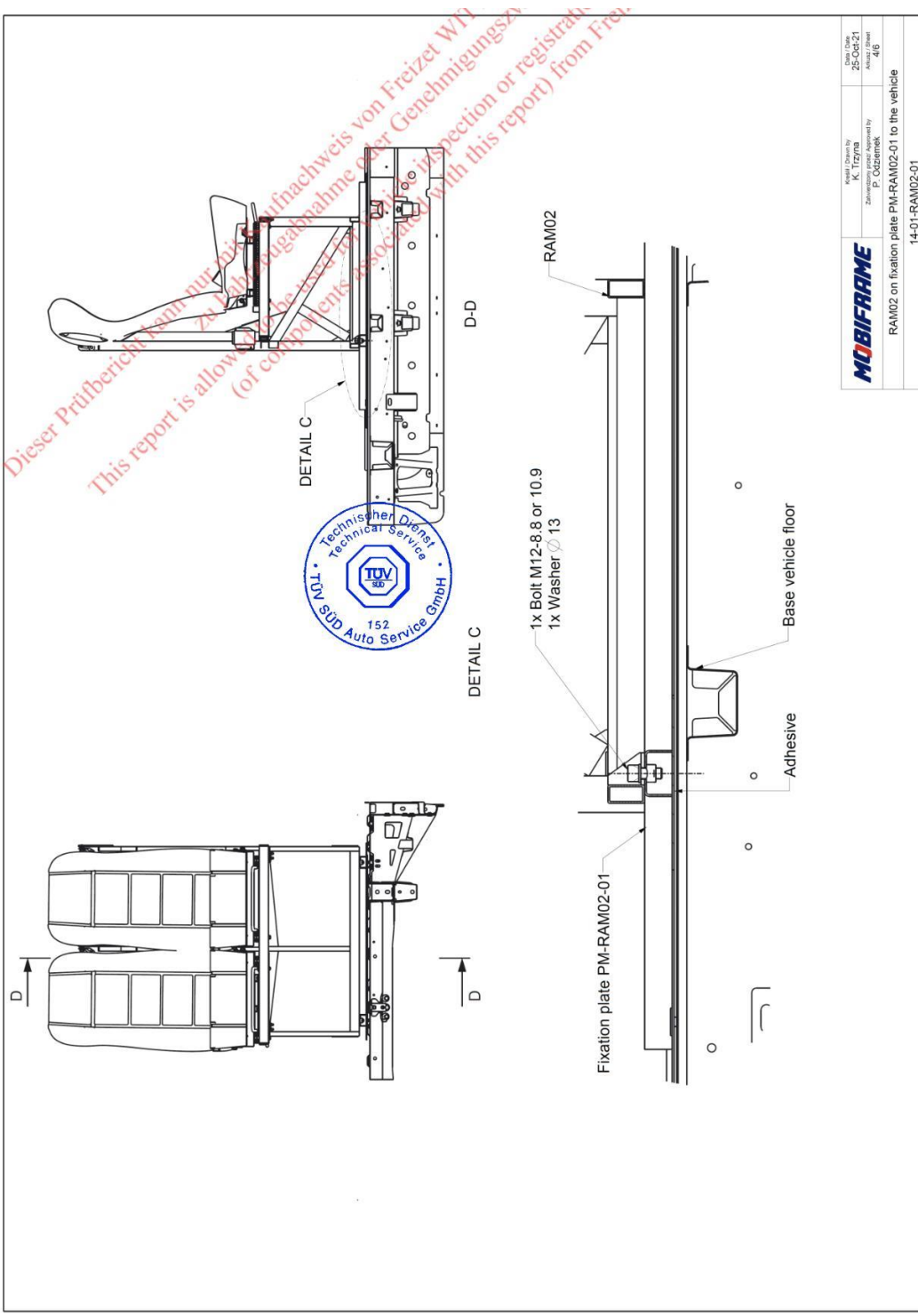


DETAIL A
 version 1 - fixation of underfloor reinforcement
 only by vehicle floor

MOBIFRAME
 RAM02 on fixation plate PM-RAM02-01 to the vehicle
 14-01-RAM02-01

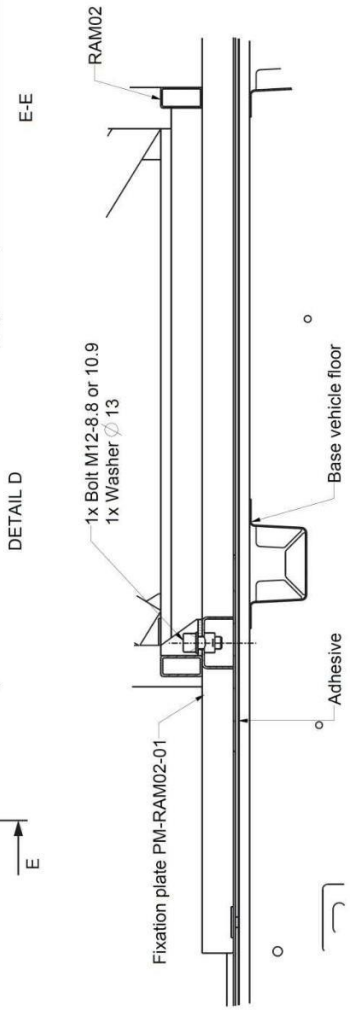
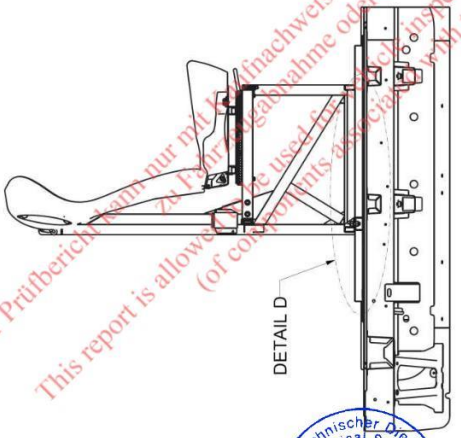
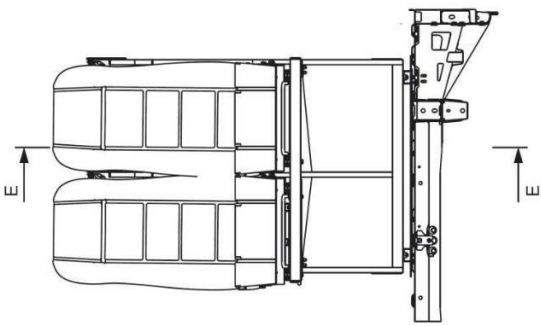
Project No.	25-002-21
Author	K. Trzyna
Checked by	
Approved by	
Issue No.	3/0

In case of use of underfloor reinforcement UWP-01 additional nut M10 and washer Ø10,5 should be applied.

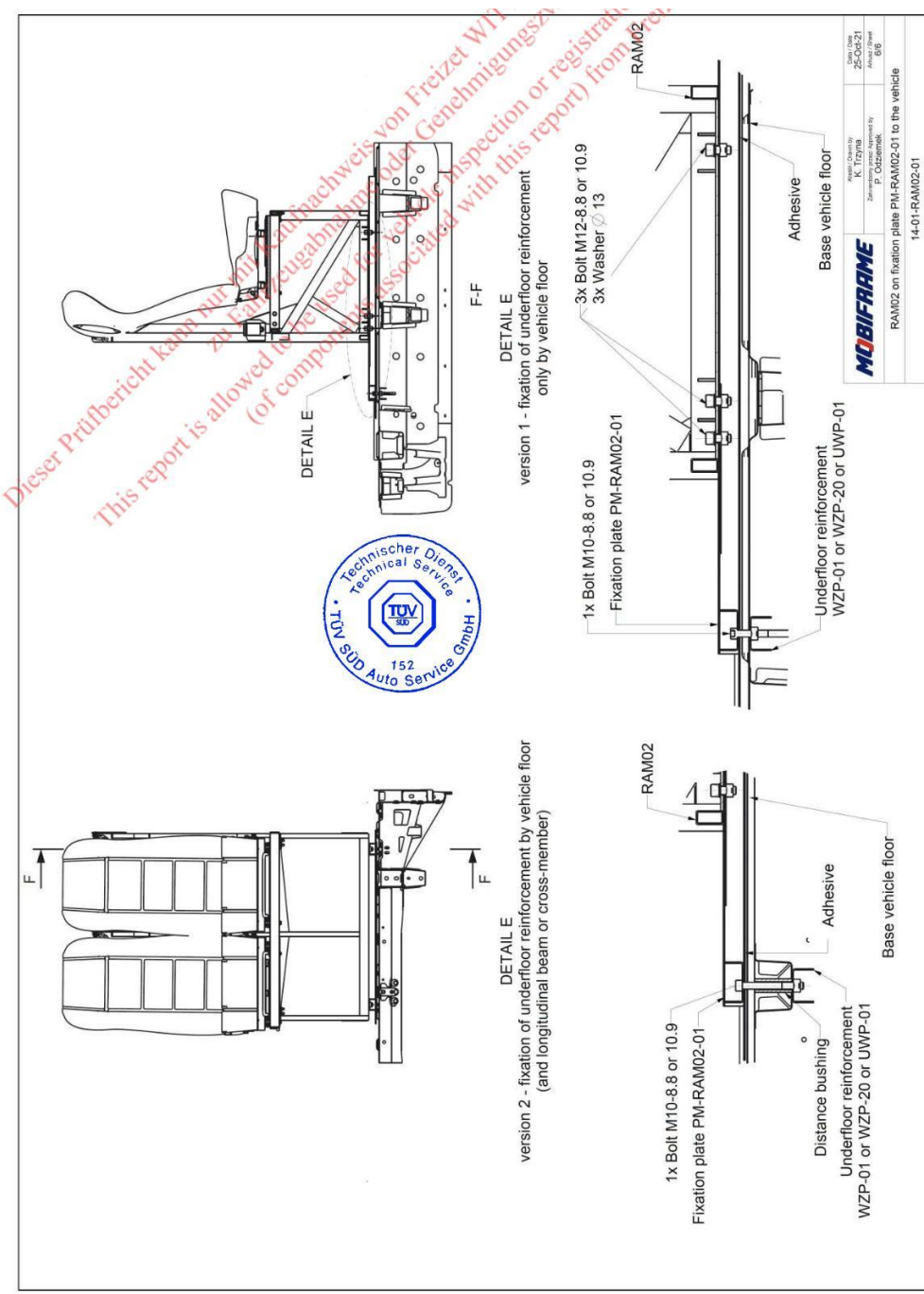


MOBIFRAME RAM02 on fixation plate PM-RAM02-01 to the vehicle 14-01-RAM02-01	Model / Drawn by K. Trzyna	Date / Date 25-06-21
	Author / Author P. Cizmek	Version / Version 4/6

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 This report is allowed to be used for inspection or registration (of components associated with this report) from Freizeitanlagen e.V.



MOBIFRAME	Projekt / Drawn by K. Trzymała	Date / Issue 25-Oct-21
	Zeichner / Drawn by P. Czajkowski	Prüfer / Checked by S.G.
RAM02 on fixation plate PM-RAM02-01 to the vehicle		
14-01-RAM02-01		



In case of use of underfloor reinforcement UWP-01 additional nut M10 and washer Ø10,5 should be applied.

Installation guide:

Fixation of RAM02 to the vehicle floor



Step 1. Preparation of the vehicle body and fixation plate

Clean vehicle floor before installation. Surface must be clean, dry and free from all traces of grease, oil and dust. Use Betaclean (cleaner) to degrease the vehicle's floor and the bottom side of the fixation plate.



Step 2. Primmering

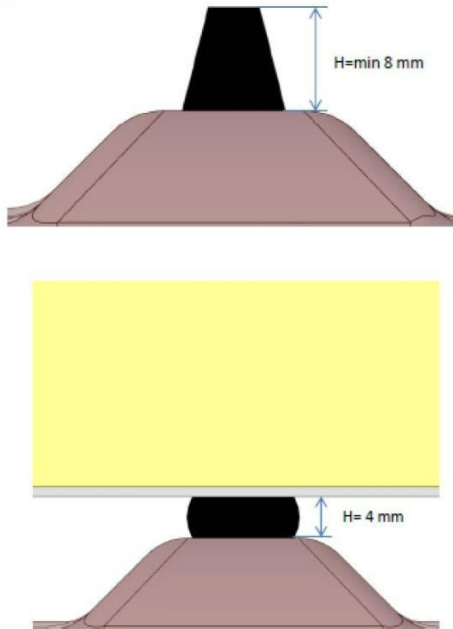
Apply Betaprime on the vehicle's floor and also on bottom side of the fixation plate. Primer can be applied with a brush or roller. Contact surfaces (of vehicle floor and fixation plate) must be covered by Betaprime.



Step 3. Gluing

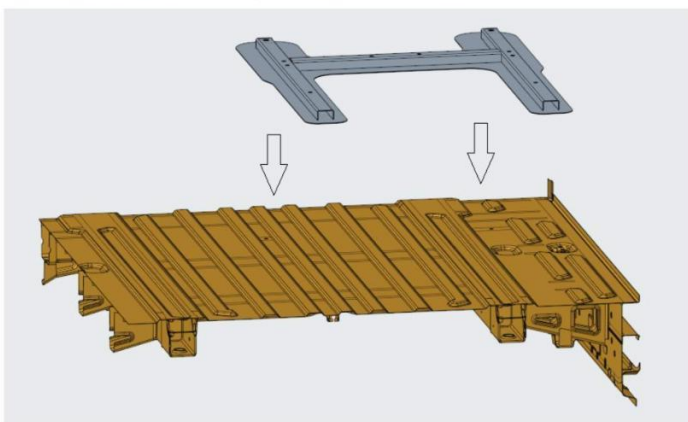
Don't walk on the primed surfaces. Use a piece of carton for protection. Apply Betamate glue on raised floor ribs of vehicle floor in the place where the bench is attached. Primer should be dry. The adhesive must be applied on the surfaces coated previously by Betaprime.

Recommended glue bead





Place and glue the fixation plate to the desired location on the vehicle floor. Leave the floor for at least 24 h. Don't walk on the fixation plate and don't move the vehicle.

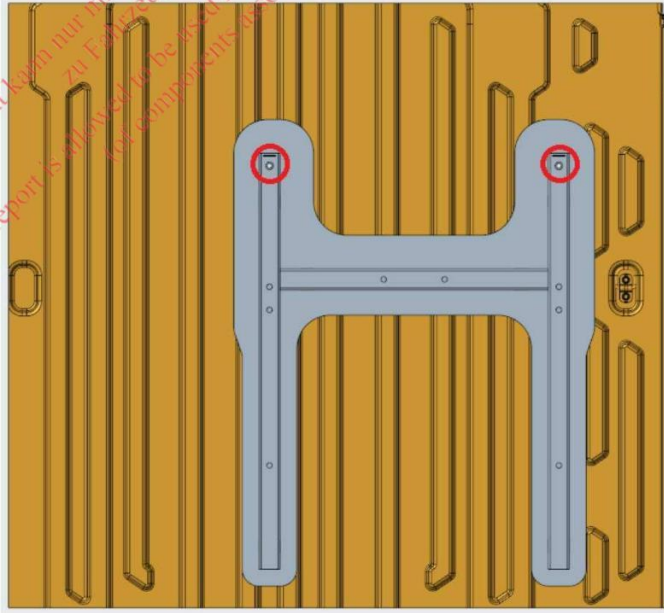


ul. Łódzka 106a
93-232 Łódź, POLAND
www: www.mobiframe.eu



Step 4. Underfloor reinforcements

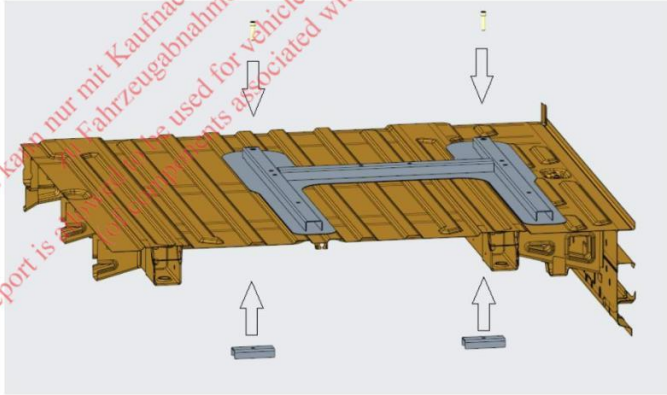
Drill holes $\phi 11$ in the vehicle floor according existing holes in fixation plate.



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Strona 6 z 8





Screw the underfloor reinforcements. Tightening torque 30 Nm. Use liquid anaerobic glue to secure the bolts.

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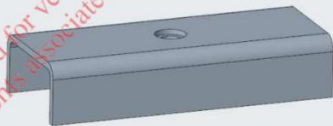
Strona 7 z 8



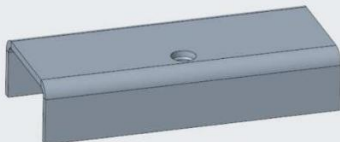
MOBIFRAME		Date: 16.09.2022
	MOBIFRAME/04/2022-00	Page / pages: 50/109

MOBIFRAME

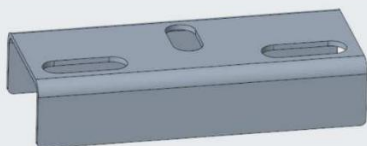
Devices for comfort and safety



Underfloor reinforcement WZP-01
C-profile 50x25x120 with M10 nut



Underfloor reinforcement WZP-20
C-profile 50x25x120 with M10 nut



Underfloor reinforcement UWP-01
C-profile 50x25x120

Underfloor reinforcement can be rotated by 90 degrees. Put the rubber blank plugs into the installation holes.



RAM03:

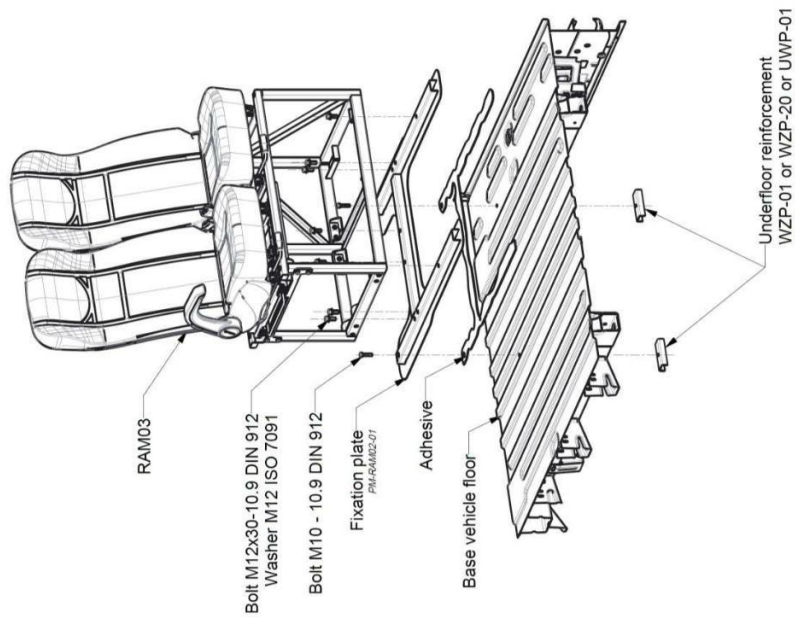
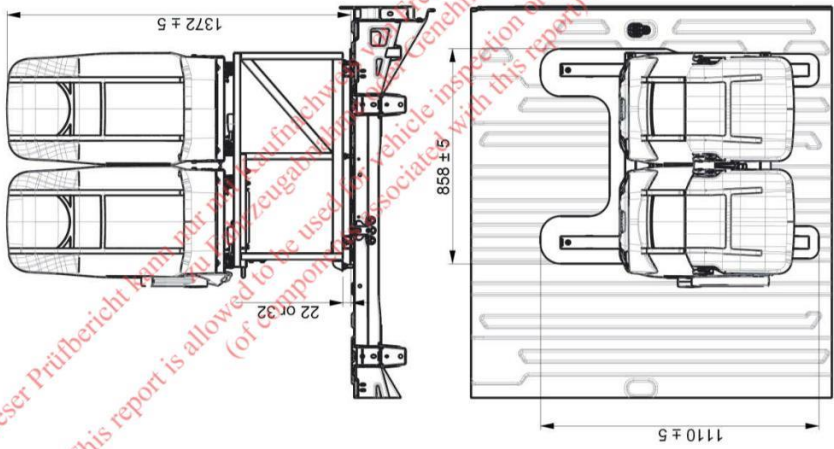
(see next pages)

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zu Fahrzeugabnahme oder
This report is allowed to be used for vehicle insp.
(of components associated with th.



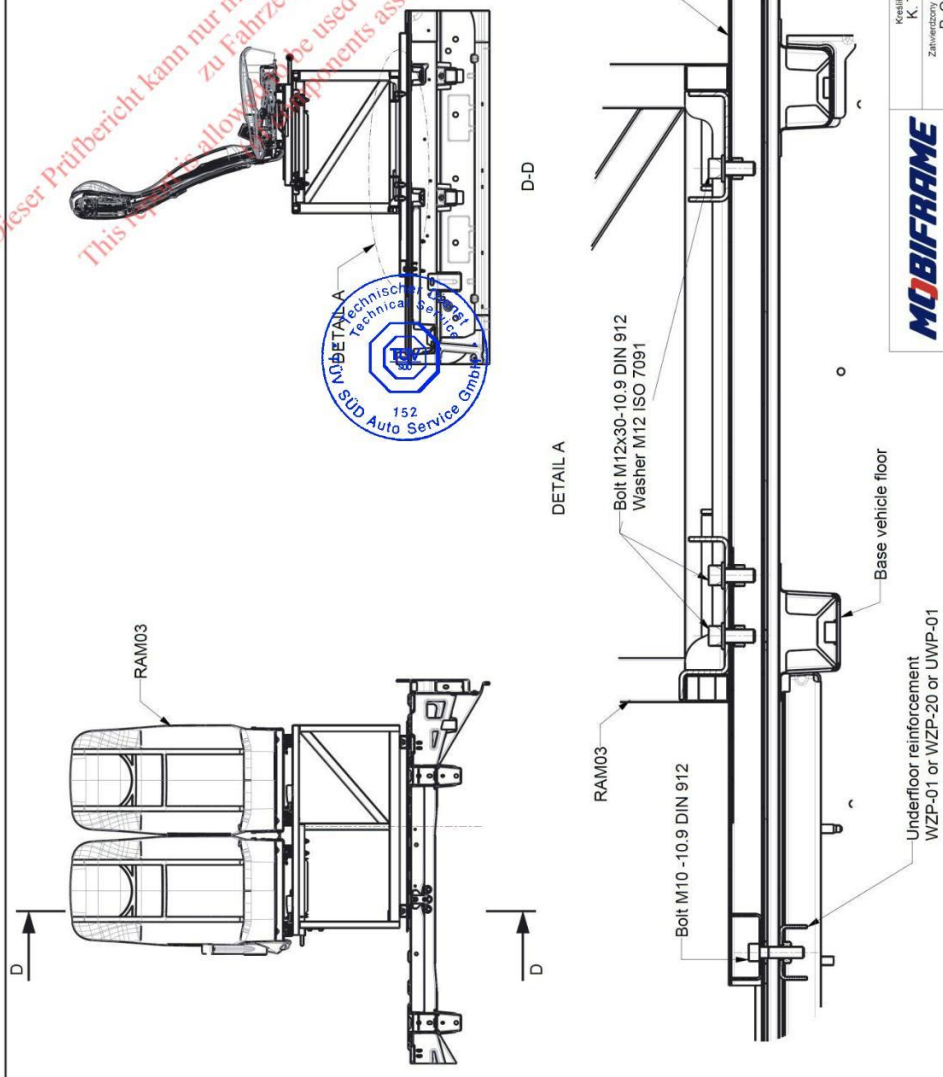
MOBIFRAME		Date: 16.09.2022
	MOBIFRAME/04/2022-00	Page / pages: 52/109

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MOBIFRAME	Created / Drawn by K. Trzyna	Date / Date 13-Sep-22
	Checked / Approved by P. Oczalitek	Analysis / Sheet 1/3
Fixation of RAM03 to fixation plate in the vehicle		
17-03-RAM03		

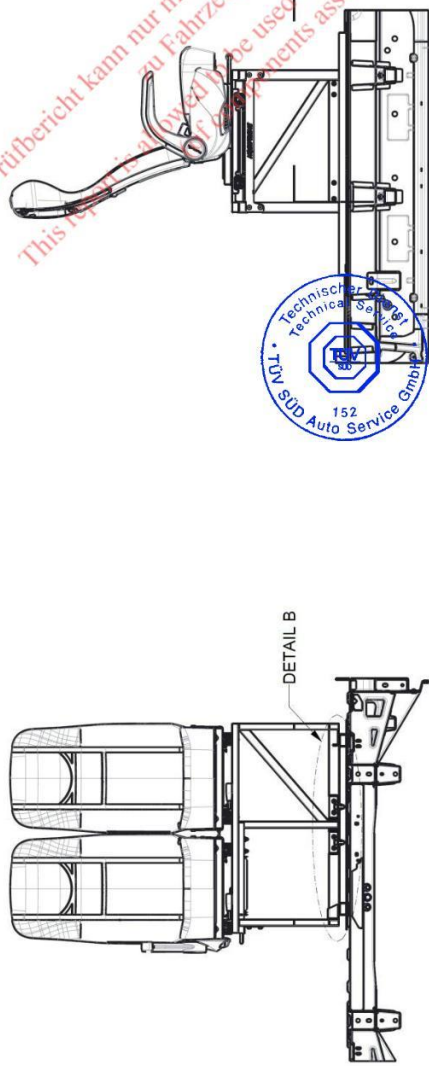
Dieser Prüfbericht kann nur mit Kaufnachweis von Freizeid WFA
 zu Fahrzeugabnahme oder Genehmigungszulassung
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 documents associated with this report) from Freizeid WFA



MOBIFRAME	Kestler / Drawn by K. Trzyna	Date / Date 13-Sep-22
	Zulassung durch / Approved by P. Odziemek	Akquis / Sheet 2/3
Fixation of RAM03 to fixation plate in the vehicle		
17-03-RAM03		

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 Of documents associated with this report) from Freizeiter WTA

E



E-E

E

DETAIL B

Bolt M12x30 - 10.9 DIN 912
Washer M12 ISO 7091

RAM03

Fixation plate
PM-RAM02-01

Adhesive

Base vehicle floor



Kopiert / Drawn by
K. Trzyna
Zatwierdzony przez / Approved by
P. Odziemek

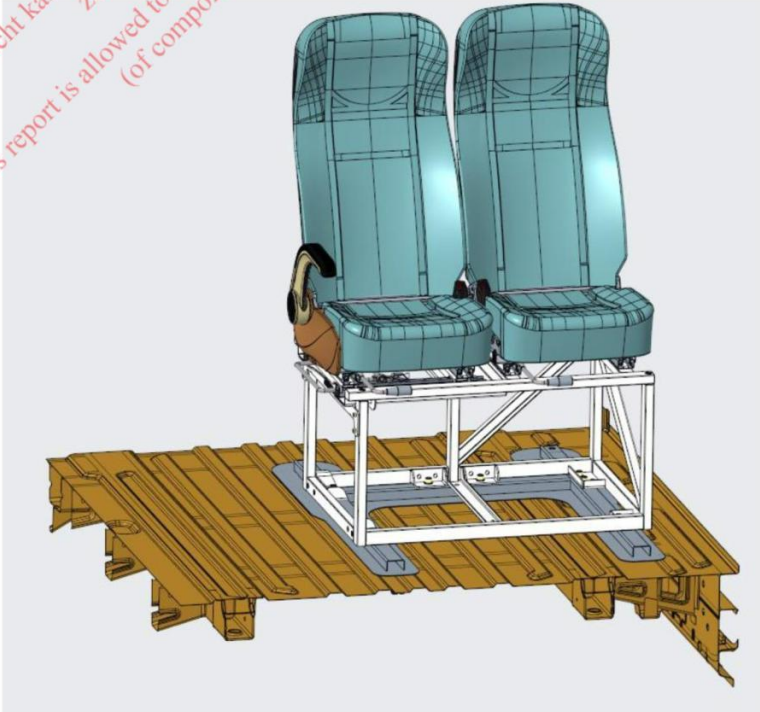
Data / Date
13-Sep-22
Arkusz / Sheet
3/3

Fixation of RAM03 to fixation plate in the vehicle

17-03-RAM03

Installation guide:

Fixation of RAM03 to the vehicle floor



Step 1. Preparation of the vehicle body and fixation plate

Clean vehicle floor before installation. Surface must be clean, dry and free from all traces of grease, oil and dust. Use Betaclean (cleaner) to degrease the vehicle's floor and the bottom side of the fixation plate.



Step 2. Primmering

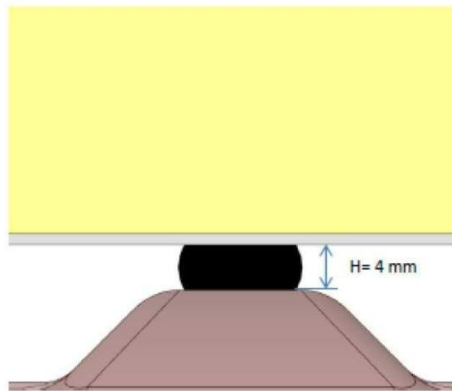
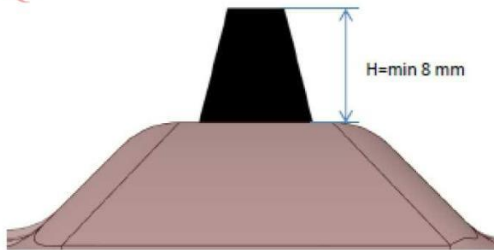
Apply Betaprime on the vehicle's floor and also on bottom side of the fixation plate. Primer can be applied with a brush or roller. Contact surfaces (of vehicle floor and fixation plate) must be covered by Betaprime.



Step 3. Gluing

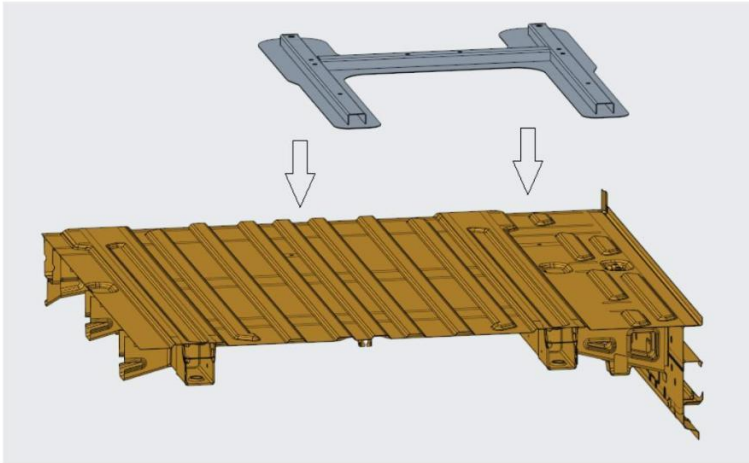
Don't walk on the primed surfaces. Use a piece of carton for protection. Apply Betamate glue on raised floor ribs of vehicle floor in the place where the bench is attached. Primer should be dry. The adhesive must be applied on the surfaces coated previously by Betaprime.

Recommended glue bead



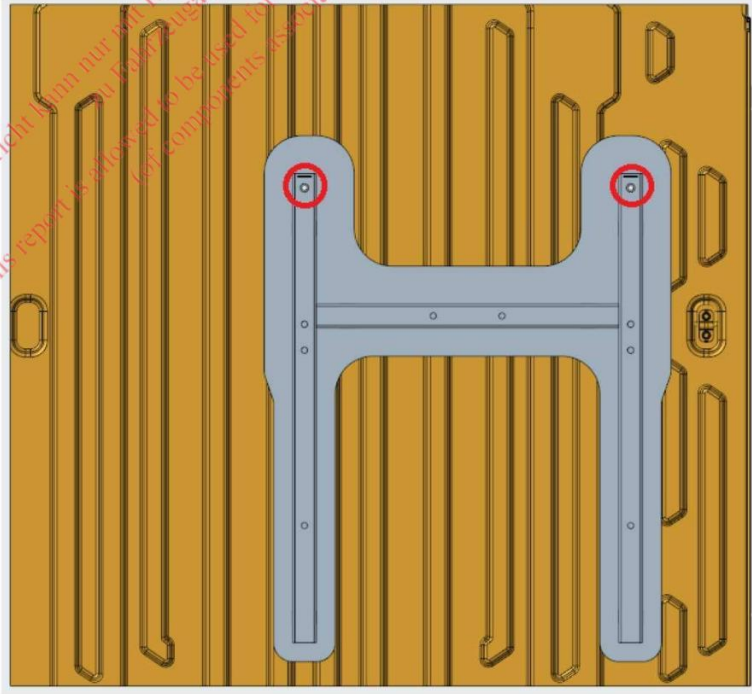


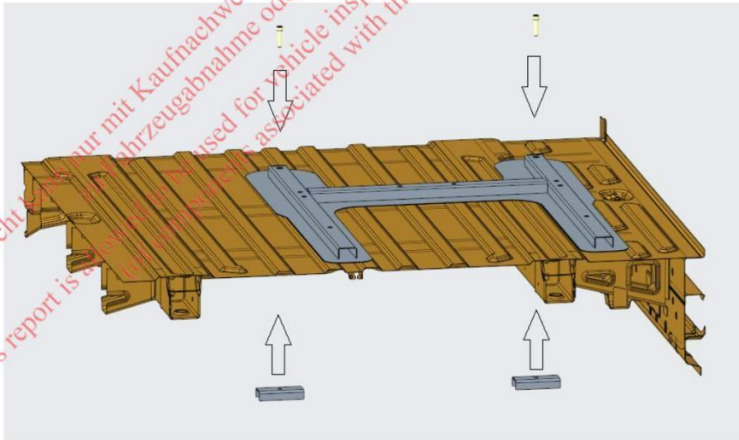
Place and glue the fixation plate to the desired location on the vehicle floor. Leave the floor for at least 24 h. Don't walk on the fixation plate and don't move the vehicle.



Step 4. Underfloor reinforcements

Drill holes $\phi 11$ in the vehicle floor according existing holes in fixation plate.



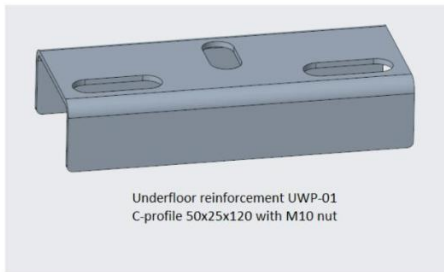
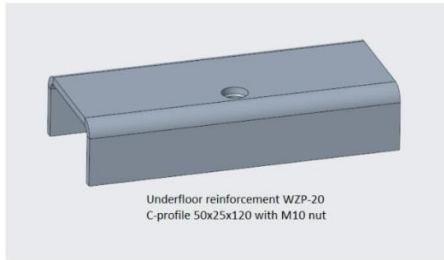


Screw the underfloor reinforcements. Tightening torque 30 Nm. Use liquid anaerobic glue to secure the bolts.



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Underfloor reinforcement can be rotated by 90 degrees. Put the rubber blank plugs into the installation holes.



RAM02 and RAM03 fixation components:

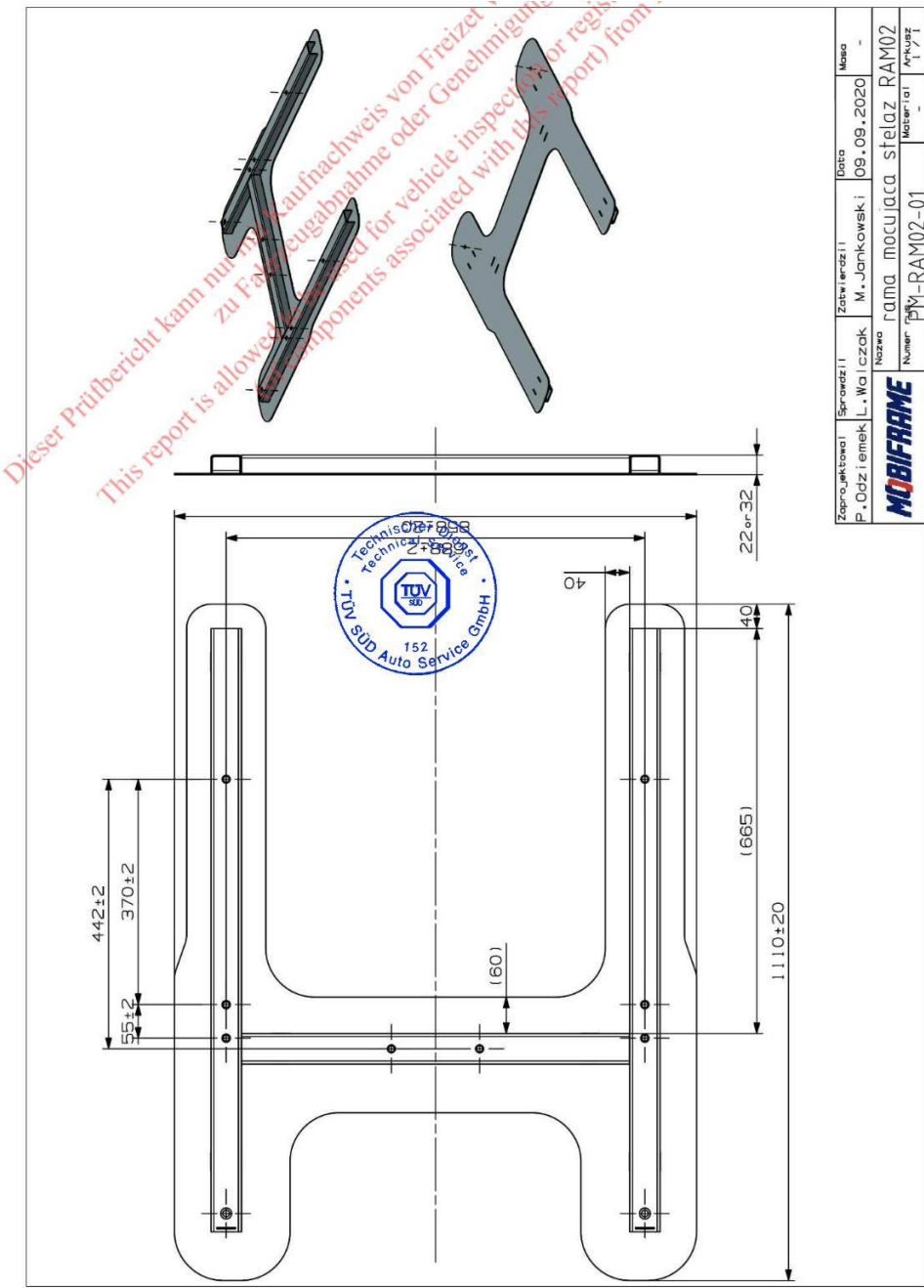
(see next pages)

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zu Fahrzeugabnahme oder
This report is allowed to be used for vehicle insp.
(of components associated with th.



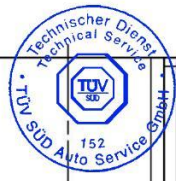
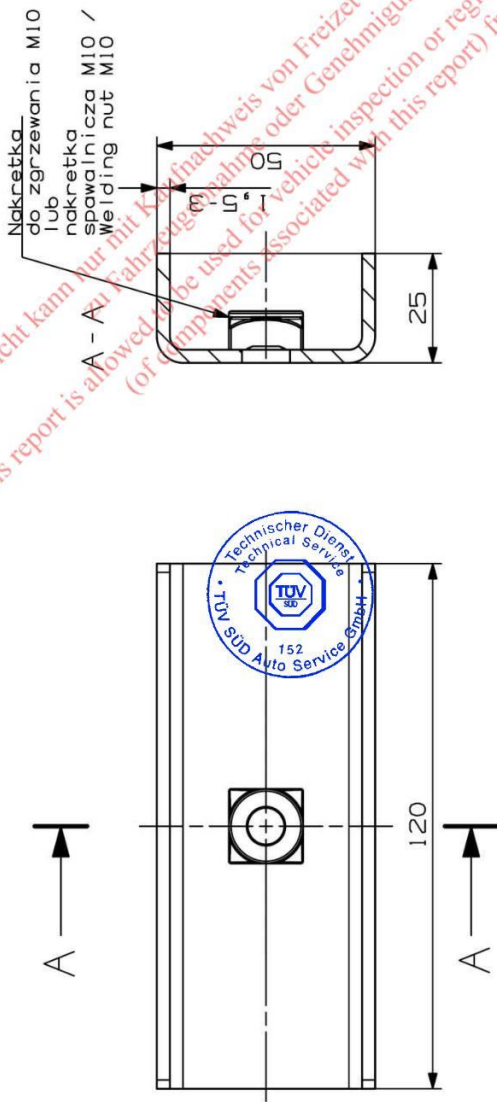
MOBIFRAME		Date: 16.09.2022
	MOBIFRAME/04/2022-00	Page / pages: 64/109

Fixation Plate:



Zaprojektował / Sprawdził	Zatwierdził	Data	Masa
P. Odziejewski / L. Walczak	M. Jankowski	09.09.2020	-
Nazwa		Materiał	
ramo mocujaca stelaz RAM02		PM-RAM02-01	
Numer		1/1	

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 This report is allowed to be used for vehicle inspection or registration
 (of components associated with this report) from Freizeital

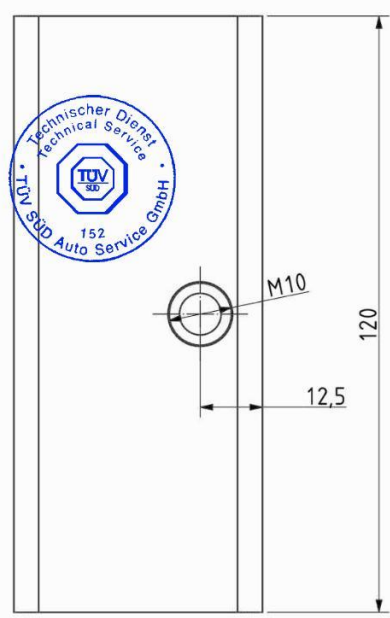
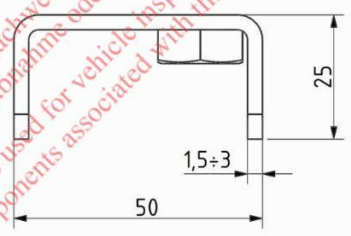
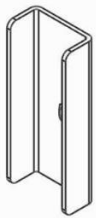


Zaprojektował / Sprawdził	Zatwierdził	Data	Masa
P. Odziemek / L. Walczak	M. Jankowski	18.05.2020	—
Nazwa Wzmocnienia / podłogowe 01 / Underfloor reinforcement 01			
Numer rys. / WZP-01			
Materiał / S235 or 1 / 1			



Underfloor reinforcement WZP-01 can be mounted interchangeably to UWP-01 or WZP-20

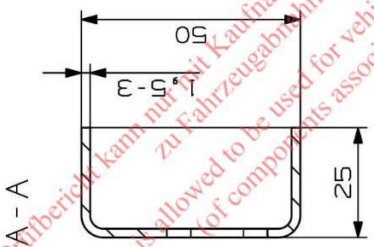
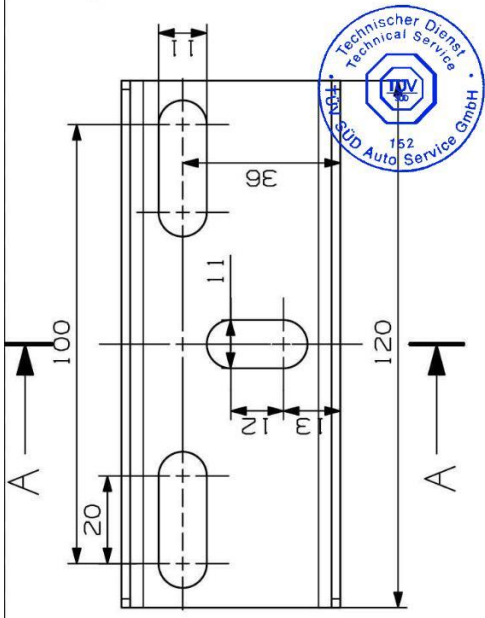
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zu Fahrzeugabnahme oder Genehmigungs-
This report is allowed to be used for vehicle inspection or registration
(of components associated with this report) from Frey.



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	Medium	±0,1	±0,1	±0,2	±0,3	±0,5	±0,8	±1,2	±2	±3
Designed by P.D			Checked by			Approved by			Mass [kg] 0,265	
MOBIFRAME	Underfloor reinforcement						Material S235JR or stronger			
	WZP-20						Date 13.08.2019	Sheet 1/1		

Underfloor reinforcement WZP-20 can be mounted interchangeably to WZP-01 or UWP-01

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 zu Fahrzeugabnahme oder Genehmigungszulassung
 This report is allowed to be used for vehicle inspection or registration
 (of components associated with this report) from Freizeit WTI



Zaprojektował	Sprawił	Zatwierdził	Data	Masa
P. Odziemek	L. Walczak	M. Jankowski	08.09.2020	—
Nazwa			Materiał	
UNIwersalne wzmocnienie podpodłogowe			5235 or	
Numer rys. UWP-01			Arkuszy 1 / 1	

In case of use of underfloor reinforcement UWP-01 additional nut M10 and washer Ø10,5 should be applied.

Underfloor reinforcement UWP-01 can be mounted interchangeably to WZP-01 or WZP-20

Enclosure 3: DRAWINGS OF SEATS AND COMPONENTS

RAM02 – fixation by means of underfloor reinforcements – dedicated for Fiat
Ducato/Peugeot Boxer/Citroen Jumper/Opel Movano/RAM ProMaster

(see next pages)

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(of components associated with th...



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MOBIFRAME		Date: 16.09.2022
	MOBIFRAME/04/2022-00	Page / pages: 69/109

Dieser Prüfbericht kann nur mit Genehmigung von Freizeithaus Wittke zu Fahrzeugabnahme oder Genehmigung für die Montage von Komponenten verwendet werden. (of components associated with this vehicle)

This report is allowed to be used for vehicle inspection or approval (of components associated with this vehicle)

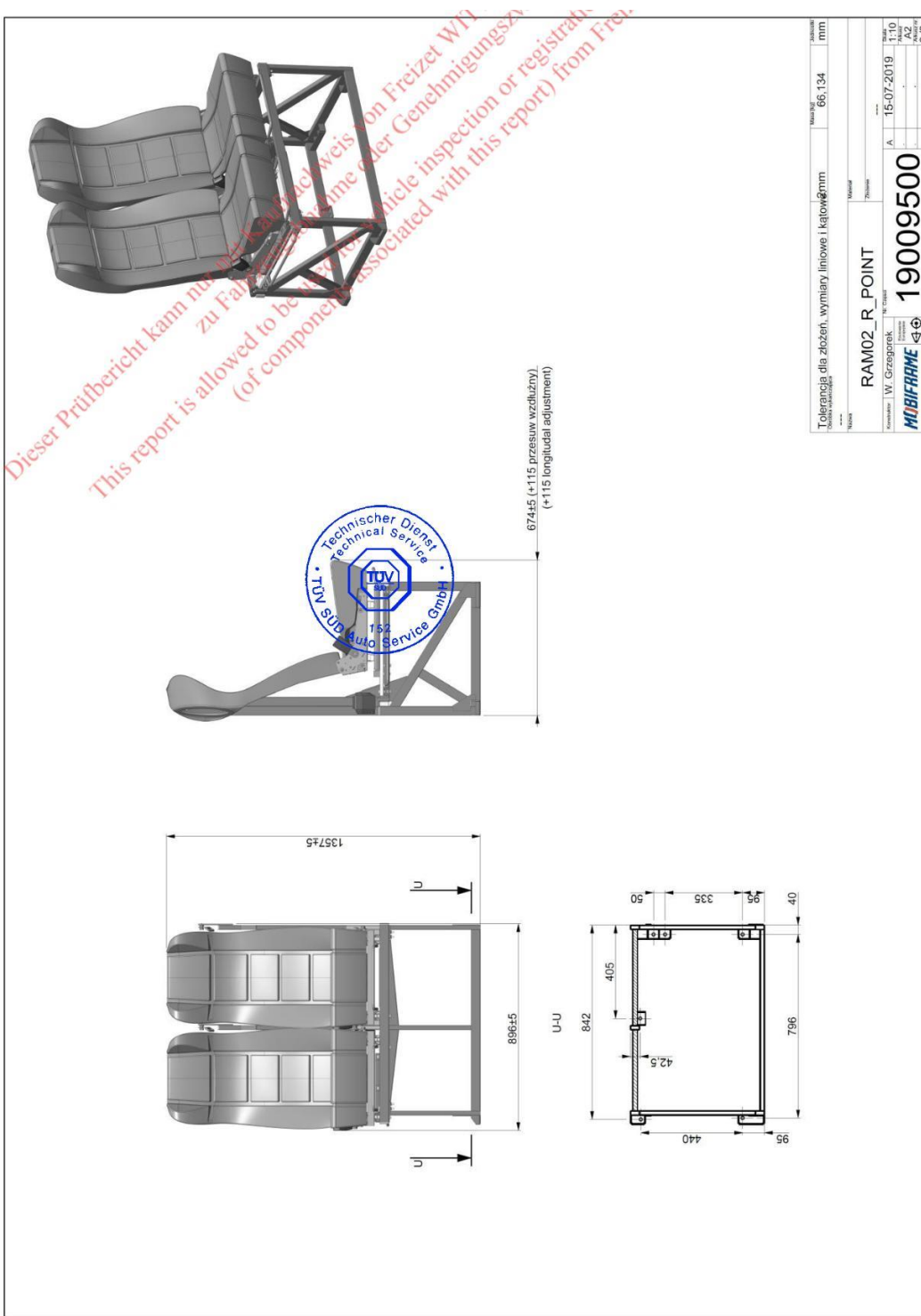
SEATBELT ANCHORAGE POINTS LOCATION

LEFT SEAT		RIGHT SEAT	
R1 point	R2 point	R1 point	R2 point
Rx1	0 mm	Rx2	0 mm
Ry1	0 mm	Ry2	0 mm
Rz1	0 mm	Rz2	0 mm
Pillar loop 1			
Ax1	330 mm	Ax2	330 mm
Ay1	-220 mm	Ay2	-222 mm
Az1	533 mm	Az2	533 mm
Buckle 1			
Bx1	89 mm	Bx2	89 mm
By1	208 mm	By2	208 mm
Bz1	-130 mm	Bz2	-130 mm
∠ B1	56 deg	∠ B2	56 deg
End bracket 1			
Cx1	46 mm	Cx2	46 mm
Cy1	-210 mm	Cy2	-210 mm
Cz1	-165 mm	Cz2	-165 mm
∠ C1	74 deg	∠ C2	74 deg
Retractor 1			
Dx1	300 mm	Dx2	300 mm
Dy1	-205 mm	Dy2	-207 mm
Dz1	-197 mm	Dz2	-197 mm
Retractor 2			
Dx1	300 mm	Dx2	300 mm
Dy1	-205 mm	Dy2	-207 mm
Dz1	-197 mm	Dz2	-197 mm
2mm			

RAM02_R_POINT
 W. Grzegorek
 MOBIFRAME 4-5
 15-07-2019
 19009500



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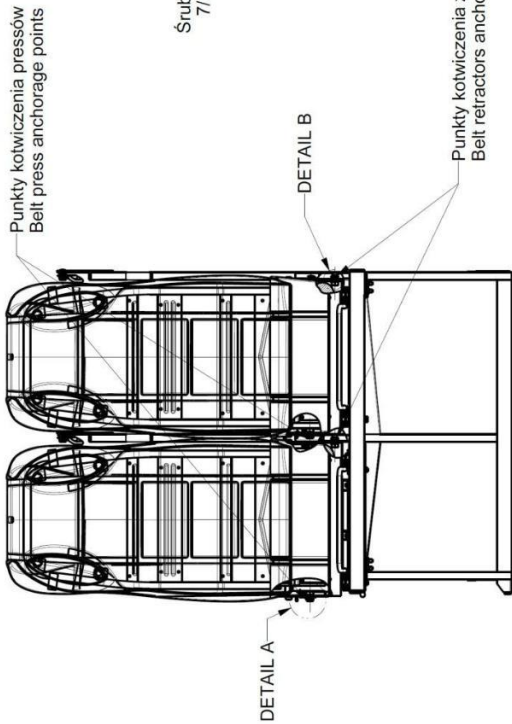


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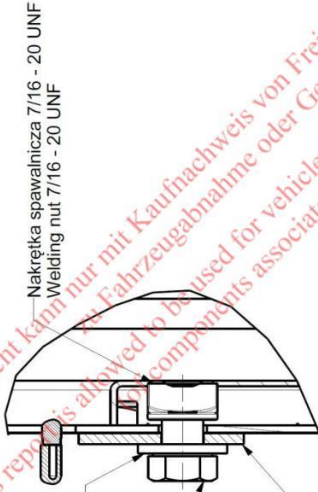
Dieser Prüfbericht kann nur mit Kaufnachweis von Freizeit WITTKE
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 This report is not to be used for components associated with this report from Freiz.

Rozmieszczenie punktów kotwienia pasów bezpieczeństwa
 Seatbelt anchorage points location

B-B
A-A



DETAIL A
1:1



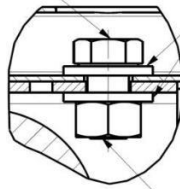
Nakretna spawalnicza 7/16 - 20 UNF
 Welding nut 7/16 - 20 UNF

Podkładka M12
 M12 Washer

Śruba 7/16 - 20 UNF
 7/16 - 20 UNF Bolt



DETAIL B
1:1

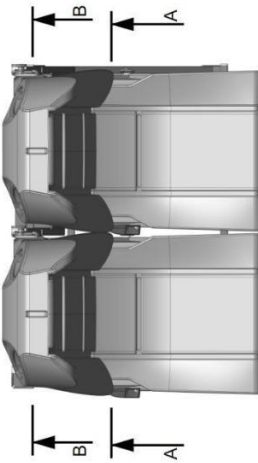


Śruba 7/16 - 20 UNF
 7/16 - 20 UNF Bolt

Podkładki M12
 M12 Washers

Nakretna 7/16 - 20 UNF
 7/16 - 20 UNF Nut

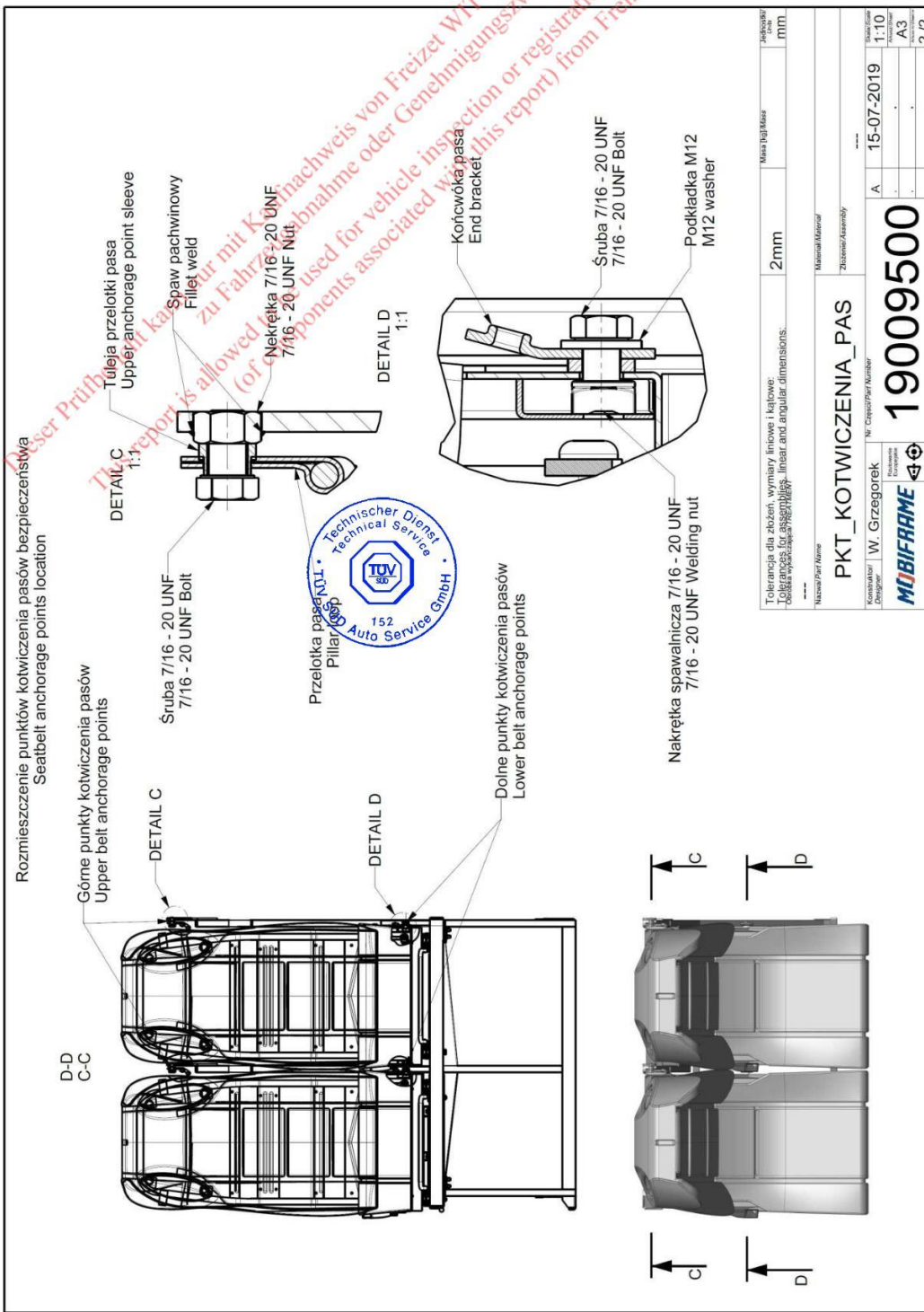
Punkty kotwienia zwijaczy
 Belt retractors anchorage points



Tolerancja dla złożeń, wymiary liniowe i kątowe: Tolerances for assemblies, linear and angular dimensions: Tolerances for assemblies		Maks. pogłębienie Max. Depth	
		2mm	
Nazwa Part Name: PKT_KOTWICZENIA_PAS			
Material/Material			
Zbiórca/Assembler			
Konstruktor/ Designer: W. Grzegorek	Nr. Części/Part Number: 19009500		Skala/Scale: 1:10
MIBIFRAME		15-07-2019	
		A3	
		1/2	



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RAM02 – dedicated for Mercedes Sprinter (906, 907)/Volkswagen Crafter (2006-2016)
(fixation by means of underfloor reinforcements)
and
dedicated for all vehicles presented in Enclosure 1 (fixation by means of Fixation Plate)

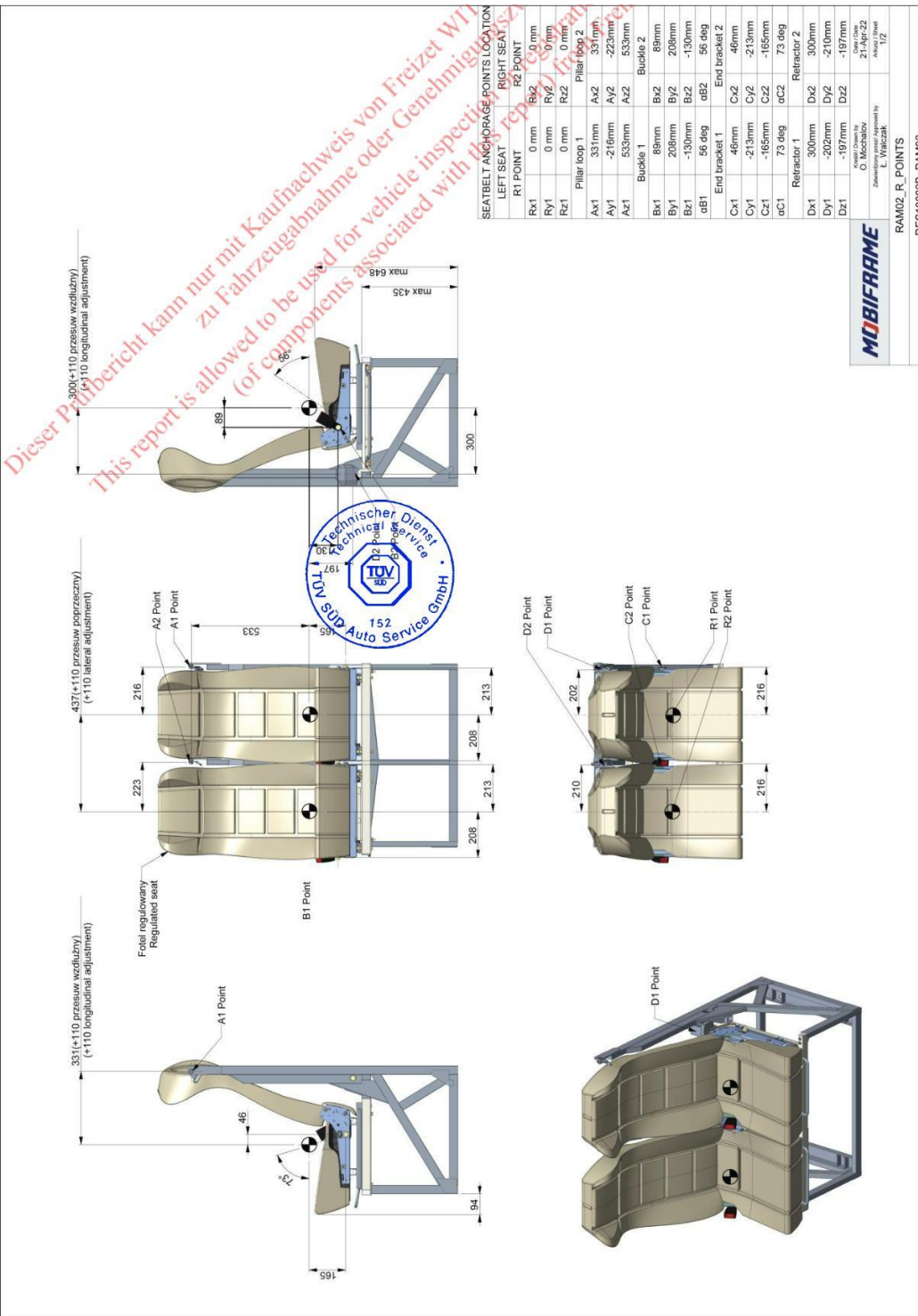
(see next pages)

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(of components associated with th.*

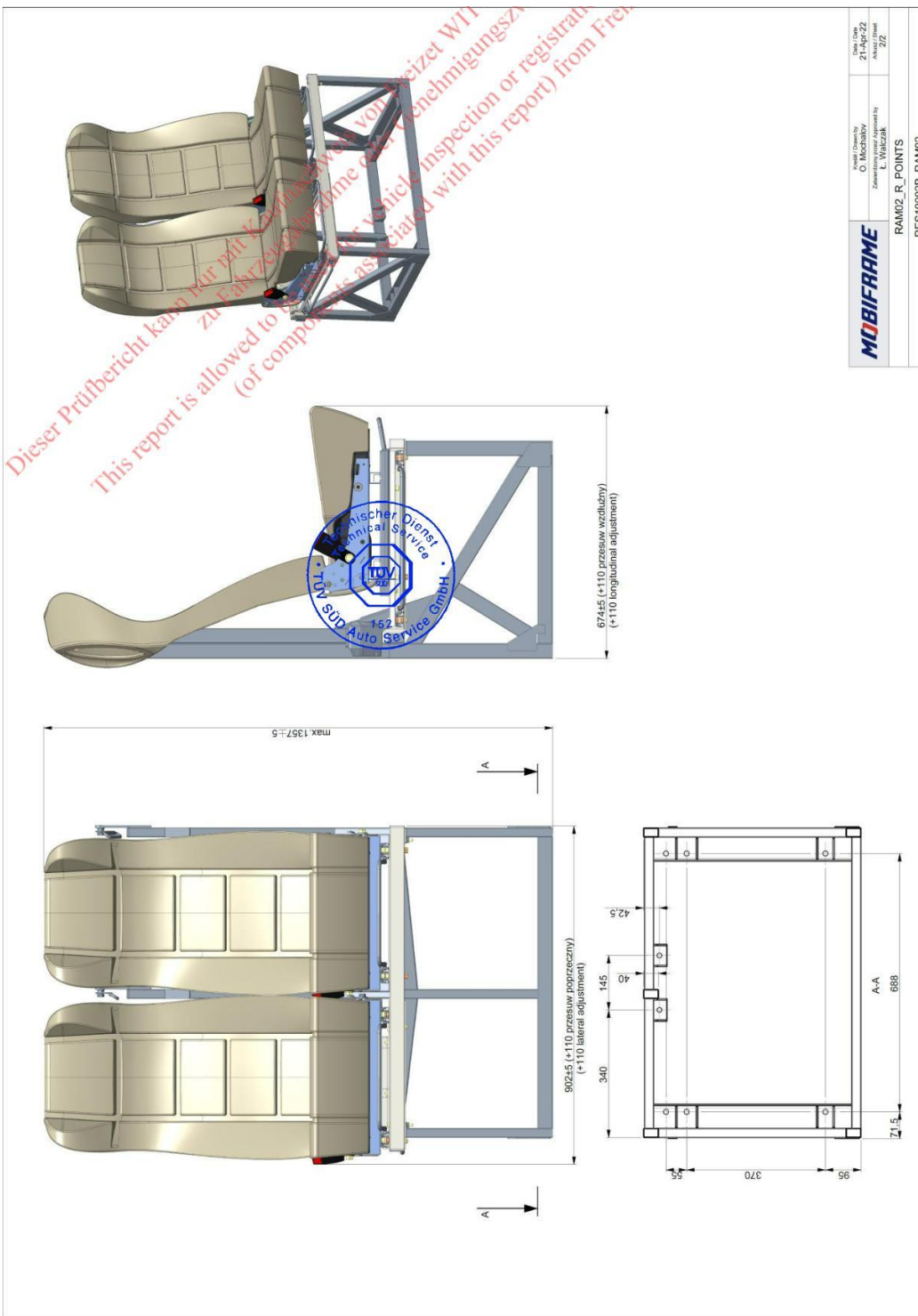


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	MOBIFRAME/04/2022-00	Page / pages: 74/109



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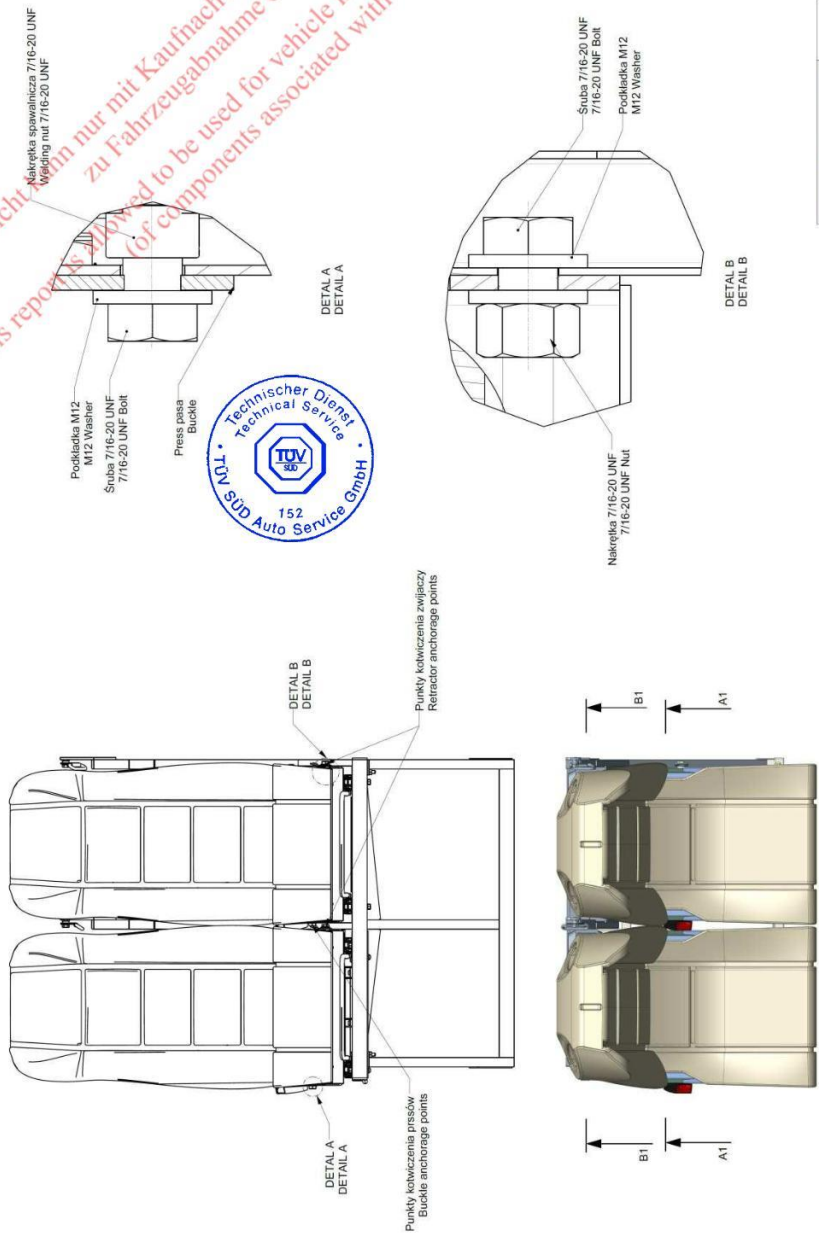
MOBIFRAME	Model / Owner by O. Mochalov	Date / Date 21-Apr-22
	Zamawiający / L. Wittke	Pracownia / ZiZ
RAM02_R_POINTS		
RES10002B_RAM02		



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	MOBIFRAME/04/2022-00	Page / pages: 76/109

Rozmieszczenie punktów kotwienia pasów bezpieczeństwa
Seat belt anchorage points location

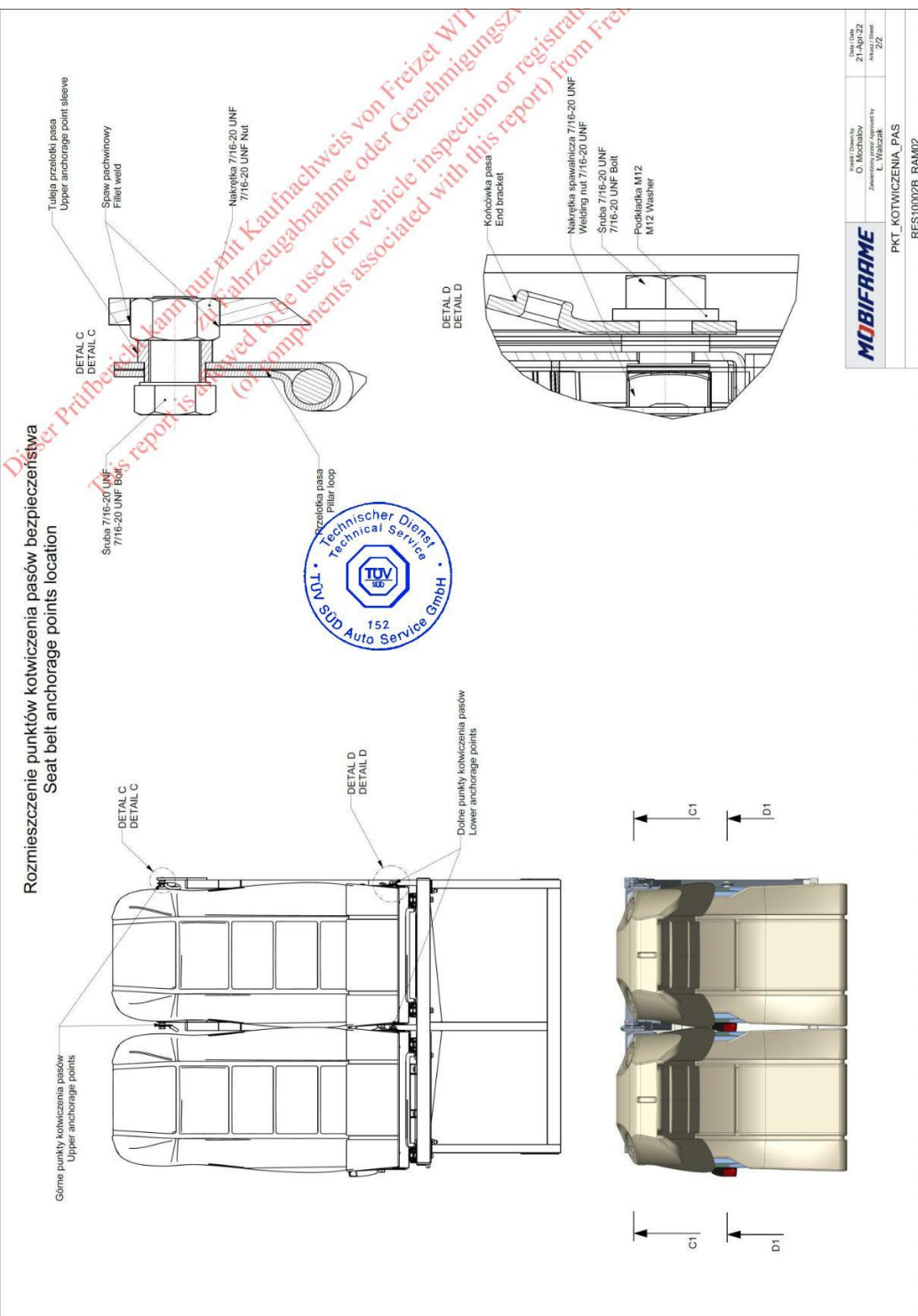


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(of components associated with this report) from Freizeit WITTKE

MOBIFRAME	Model / Oznaczenie: O. Mochabov	Date / Data: 21-Apr-22
	Zamawiający / Klient: L. Witkacz	Pracownik / Employee: L. IZ
	PKT_KOTWICZENIA_PAS RES10002B_RAM02	



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MOBIFRAME	Date / Data: 21-Apr-22
Author / Autor: O. Mochalov	Project / Projekt: 212
Checked / Sprawdzony: L. Wójcik	Part / Część: PKT_KOTWICZENIA_PAS
RES10002B_RAM02	



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Fixation of seats to RAM02 frame:

(see next pages)

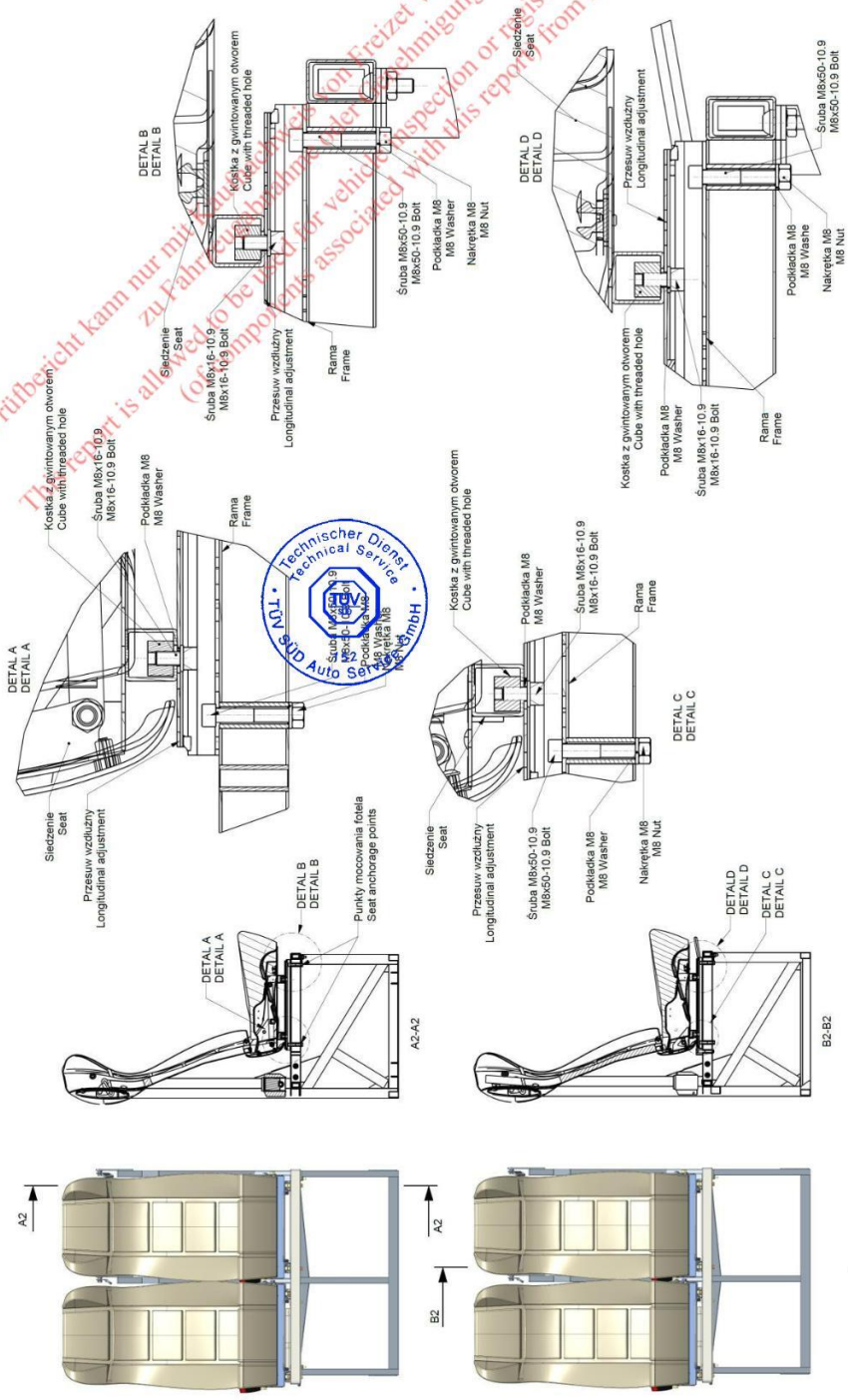
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		Date: 16.09.2022
	MOBIFRAME/04/2022-00	Page / pages: 79/109

Punkty mocowania fotela / Seat anchorage points

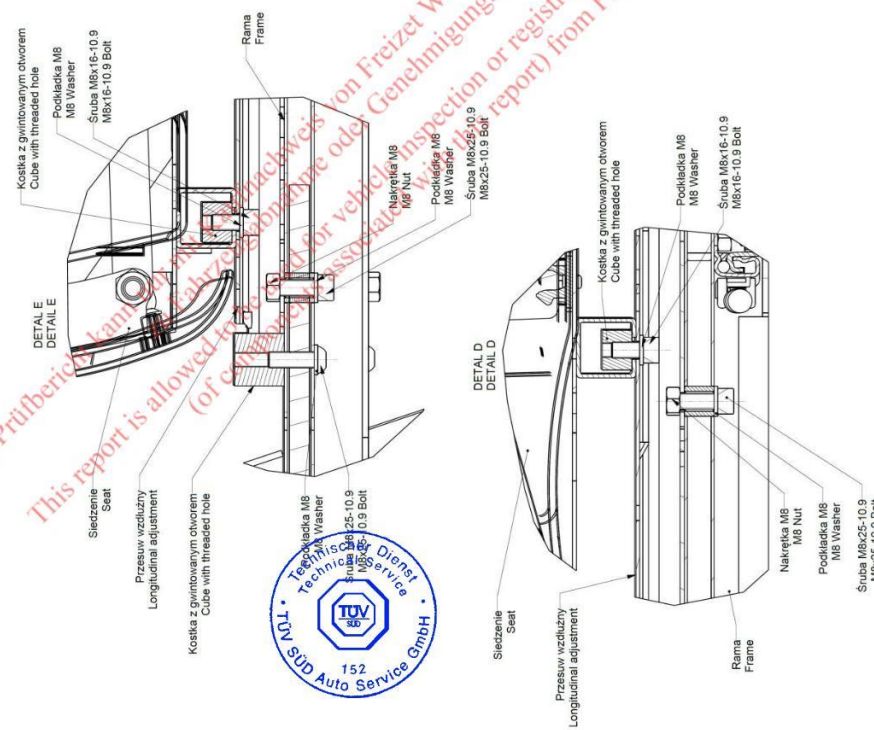
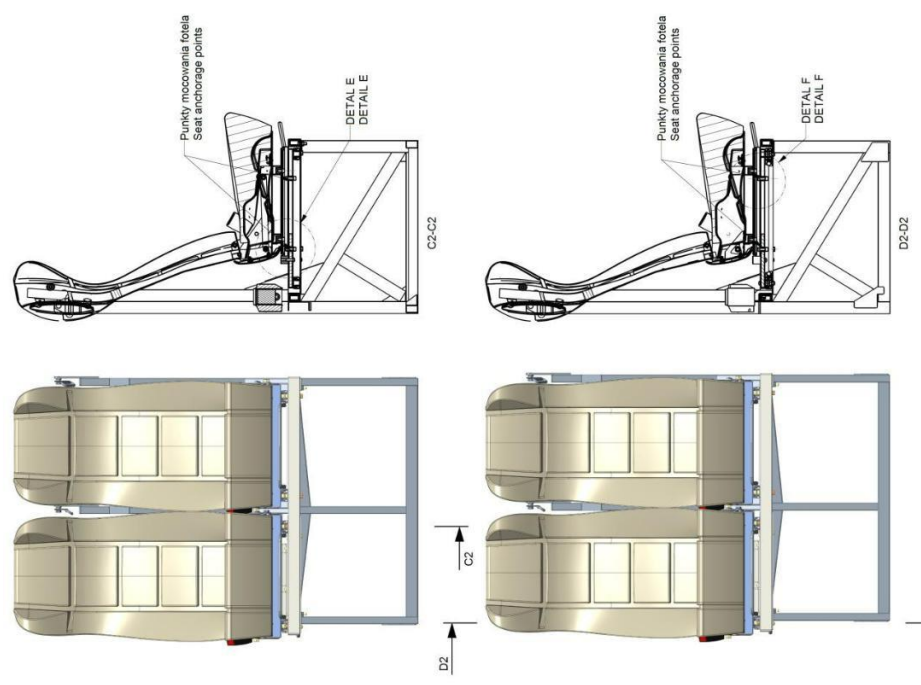


MOBIFRAME
 RAM02.MOCOWANIE FOTEIA
 RES10002B_RAM02



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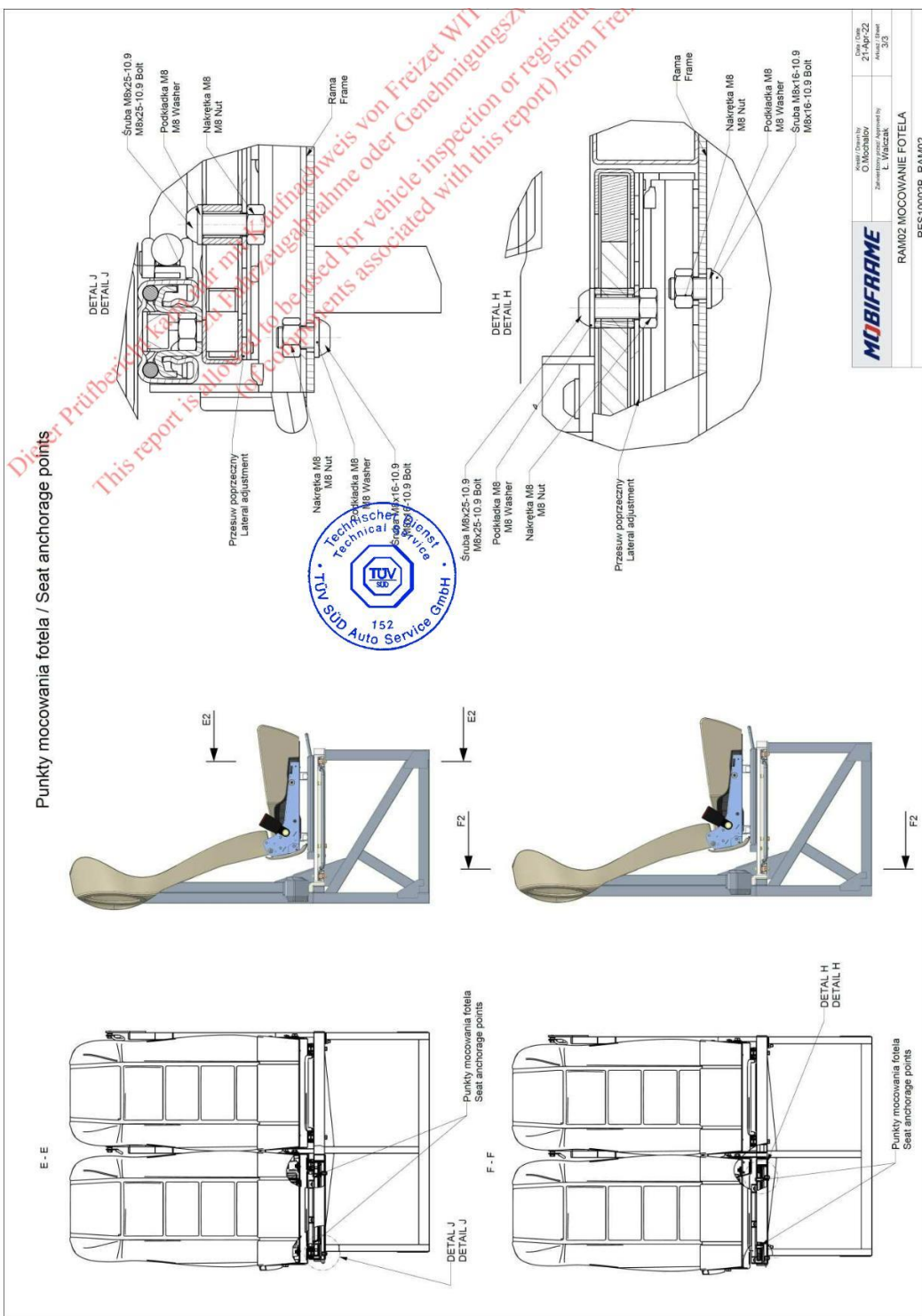
Punkty mocowania fotela / Seat anchorage points



MOBIFRAME
 RAM02.MOCOWANIE FOTEIA
 RES10002B_RAM02
 Date: 21-Apr-22
 Drawn by: O. Mochalov
 Checked by: L. Vlasov
 Approved by: A. Zeleny



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Seats mounted to RAM02 frame:

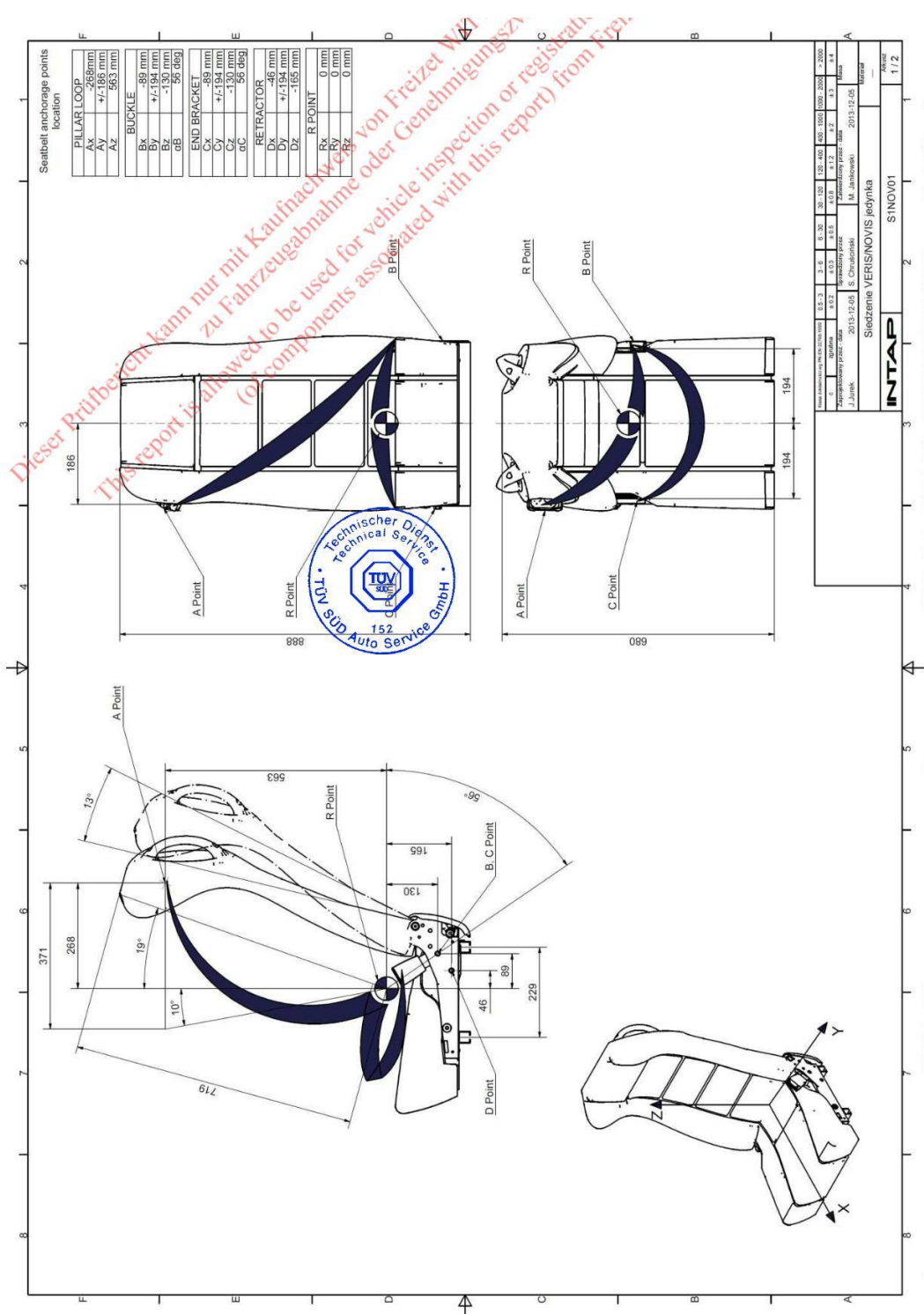
(see next pages)

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(of components associated with th...

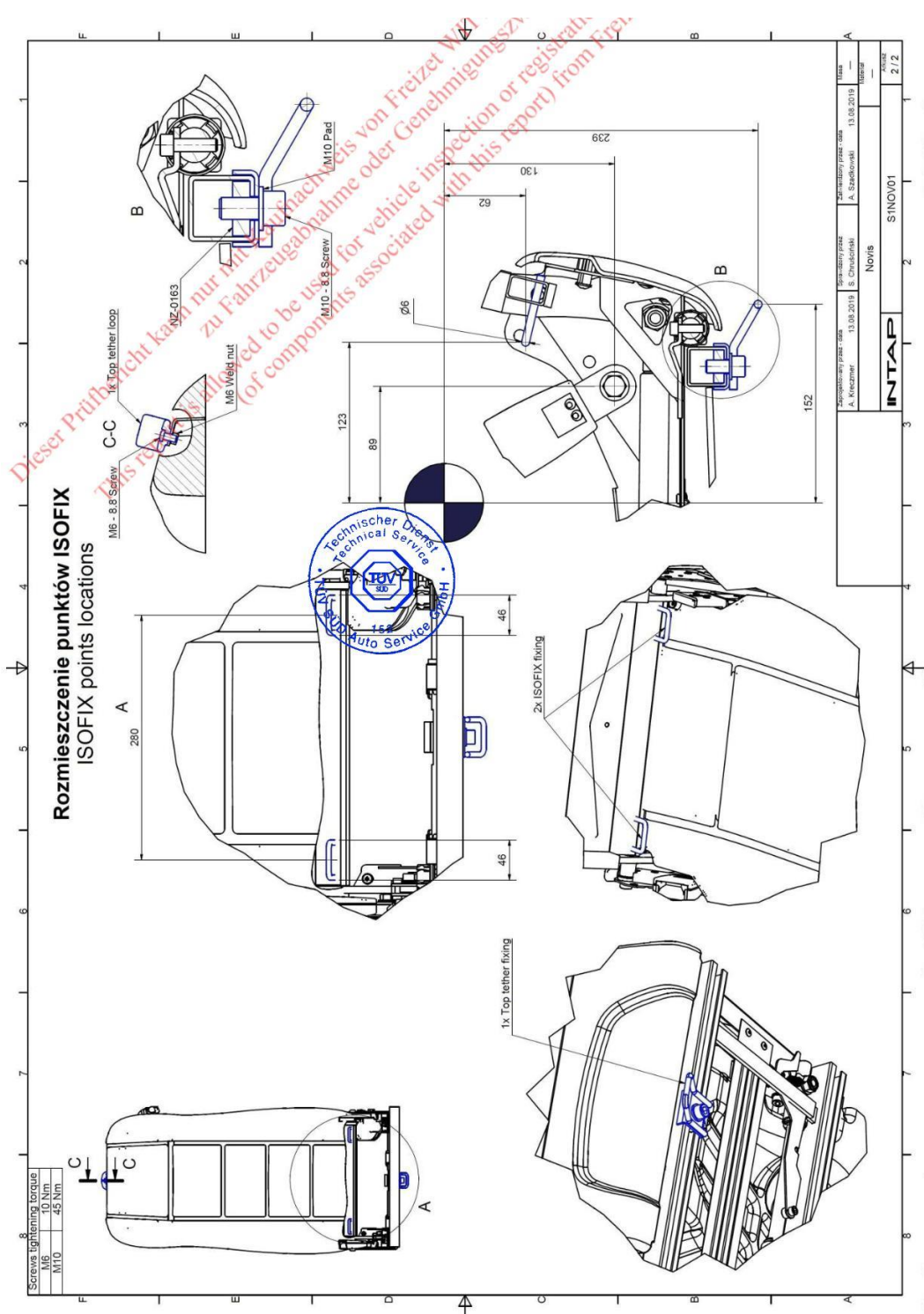


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MOBIFRAME		Date: 16.09.2022
	MOBIFRAME/04/2022-00	Page / pages: 83/109



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RAM03 – dedicated for all fixation solutions:

RAM03 is equipped with additional removable fixation elements used for different fixation solutions:

- fixation details of these elements - see Enclosure 2
- drawings of removable fixation elements – see drawings below

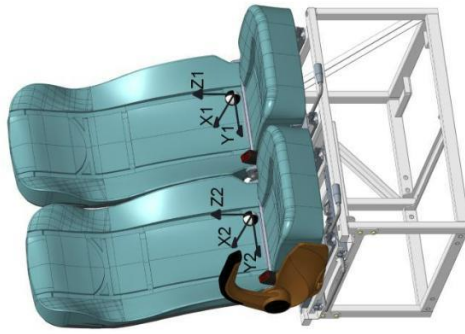
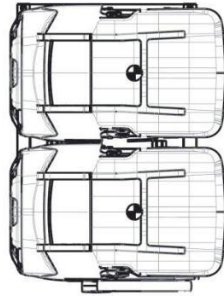
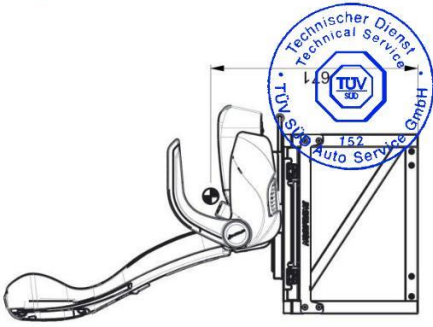
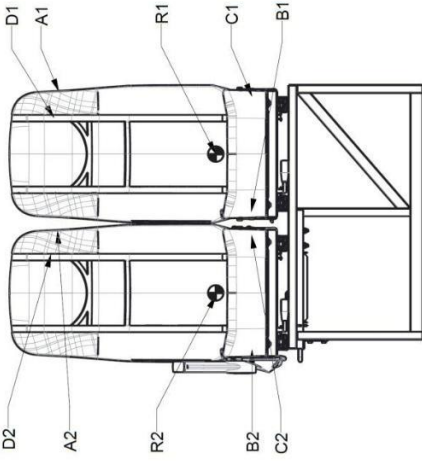
(see next pages)

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(of components associated with th.*



MOBIFRAME		Date: 16.09.2022
	MOBIFRAME/04/2022-00	Page / pages: 86/109

RAM03		LEFT SEAT	RIGHT SEAT
		R POINT 1	R POINT 2
Rx1	0 mm	Rx2	0 mm
Ry1	0 mm	Ry2	0 mm
Rz1	0 mm	Rz2	0 mm
		Pillar loop 2	
Ax1	358 mm	Ax2	358 mm
Ay1	±208 mm	Ay2	±208 mm
Az1	525 mm	Az2	525 mm
		Buckle 2	
Bx1	80 mm	Bx2	80 mm
By1	±189 mm	By2	±189 mm
Bz1	-120 mm	Bz2	-120 mm
α1	56°	α2	56°
		End bracket 2	
Cx1	80 mm	Cx2	80 mm
Cy1	±189 mm	Cy2	±189 mm
Cz1	-120 mm	Cz2	-120 mm
α1	56°	α2	56°
		Retractor 1	
Dx1	327 mm	Dx2	327 mm
Dy1	±121 mm	Dy2	±121 mm
Dz1	517 mm	Dz2	517 mm



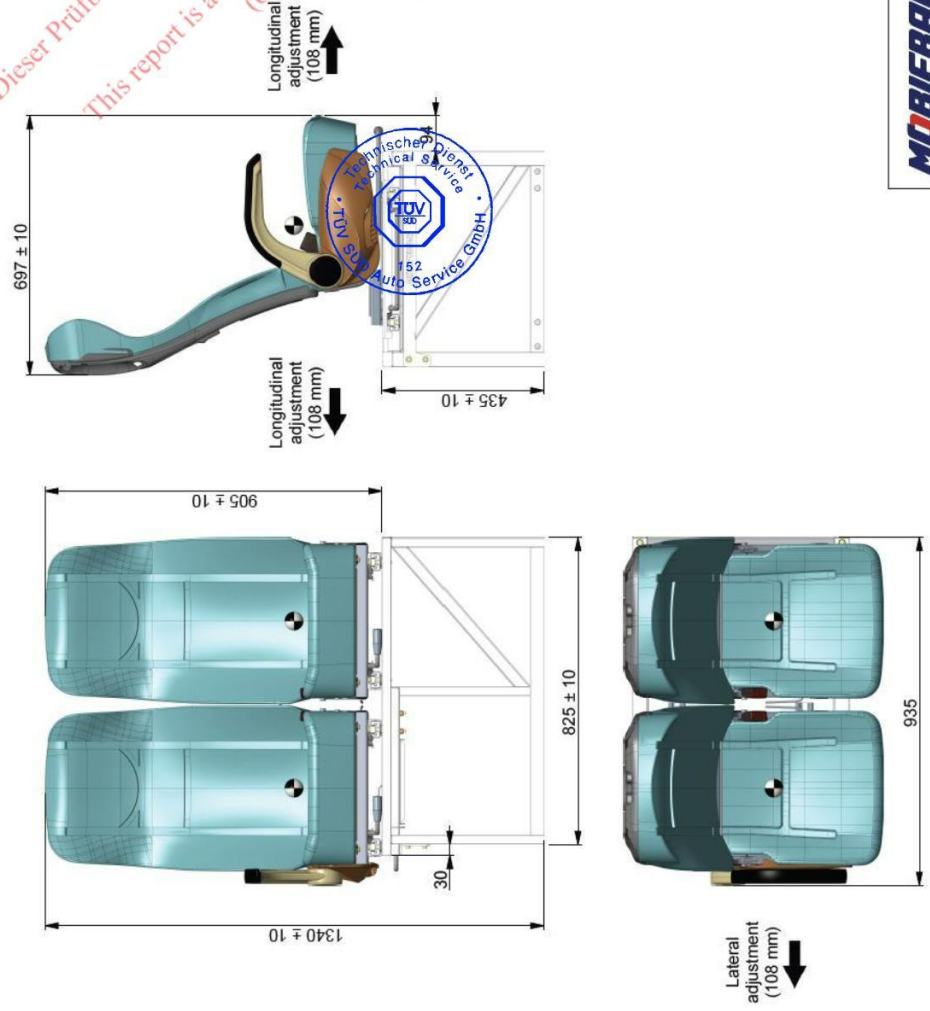
Kreiert / Drawn by
K. Trzyna
Zulassungs / Issue / Approved by
P. Odziemek

Date / Date
19.Sep.22
Anzahl / Sheet
1/1

R point and seatbelt anchorage points

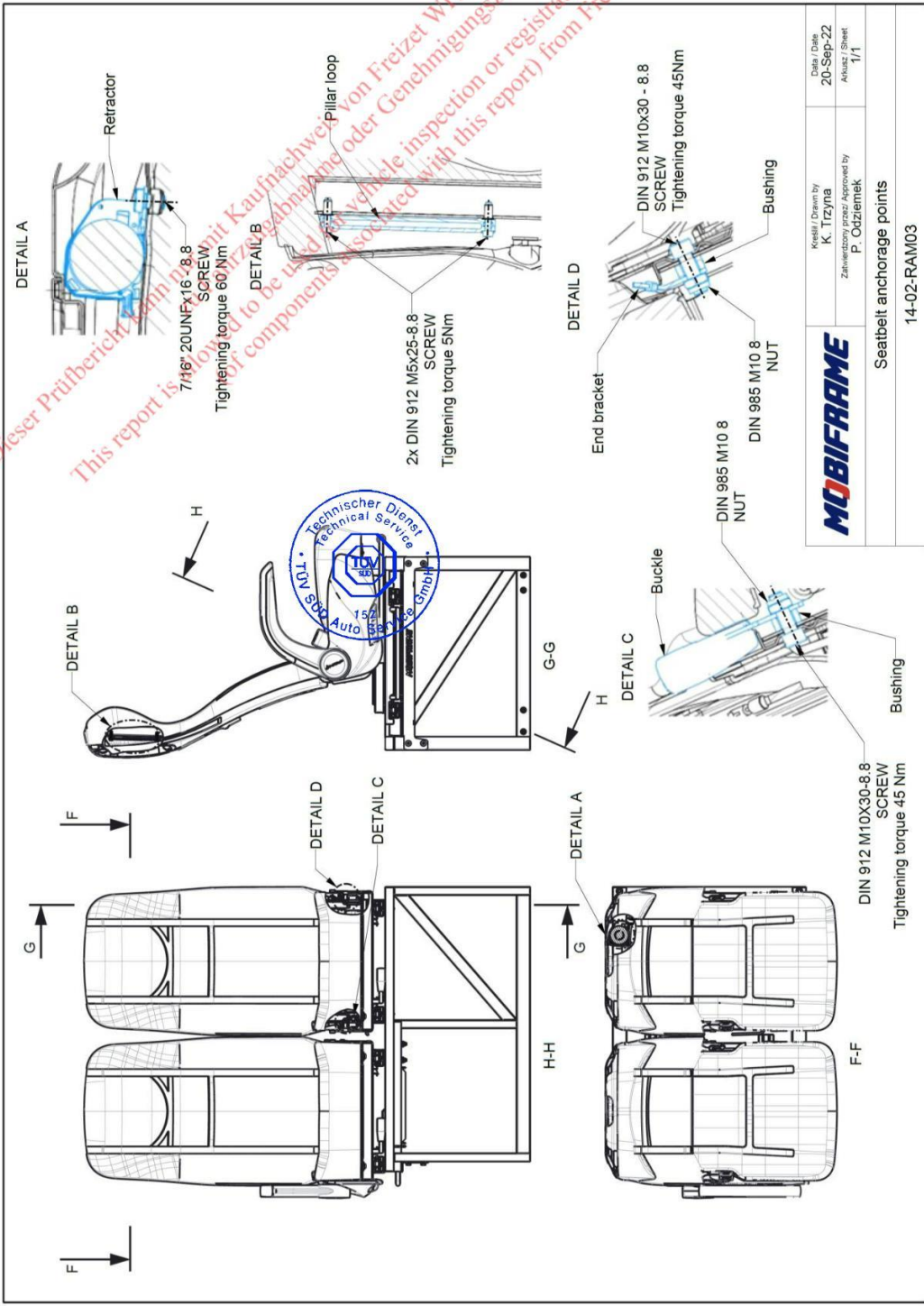
14-01-RAM03

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(of components associated with this type of motor cycle)



MOBIFRAME	Model / Drawn by K. Trzyna	Date / Date 13-Sep-22
	Zamówiono przez / Approved by P. Odziemek	Aruszy / Sheet 1/1
General view		
17-01-RAM03		

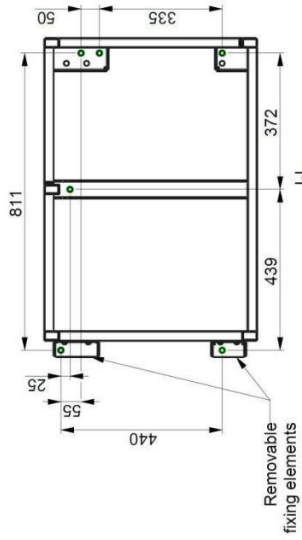
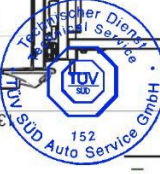
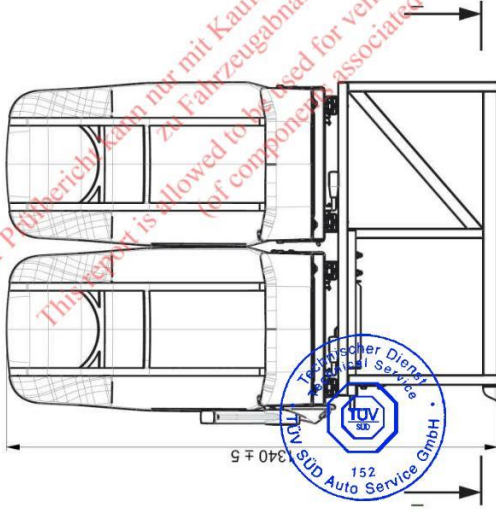
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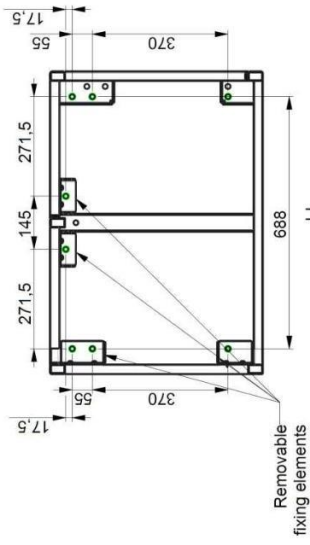
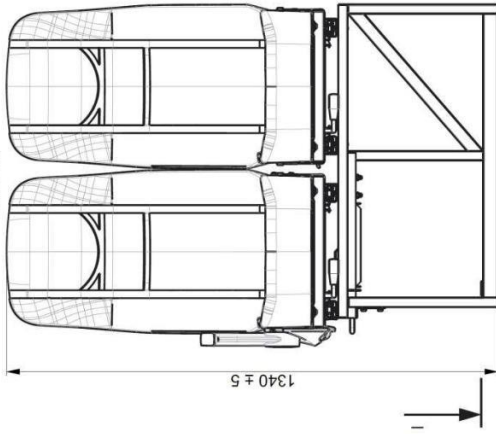
MOBIFRAME	Kyšeň / Drawn by K. Trzyna	Date / Date 20-Sep-22
	Základový list / Approved by P. Odziemek	Archiv / Sheet 1/1
Seatbelt anchorage points		
14-02-RAM03		

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Version 2



Version 1



MOBIFRAME	Kopiert / Drawn by K. Trzyna	Data / Date 20-Sep-22
	Zatwierdzony przez / Approved by P. Odziemek	Aktualiz / Sheet 1/1

Grid of mounting holes
14-03-RAM03

Fixation of seats to RAM03 frame:

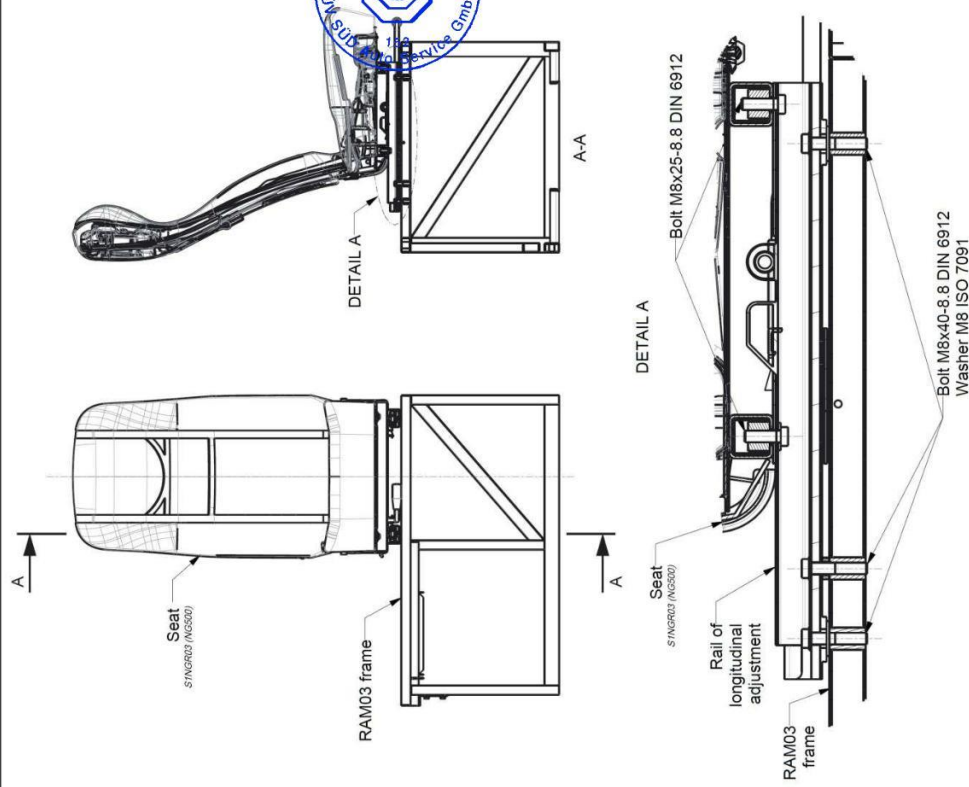
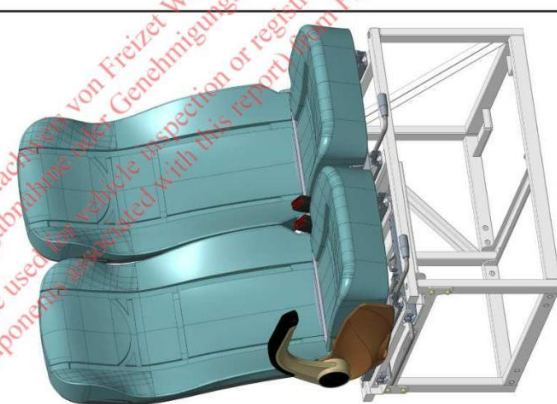
(see next pages)

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zu Fahrzeugabnahme oder
This report is allowed to be used for vehicle insp.
(of components associated with th.



MOBIFRAME		Date: 16.09.2022
	MOBIFRAME/04/2022-00	Page / pages: 91/109

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 zu Fahrzeugabnahme oder Genehmigungszulassung
 This report is allowed to be used for vehicle inspection or registration
 (of components associated with this report) only.



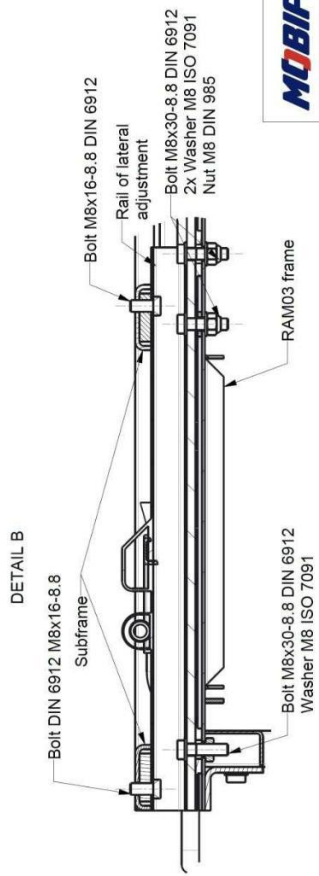
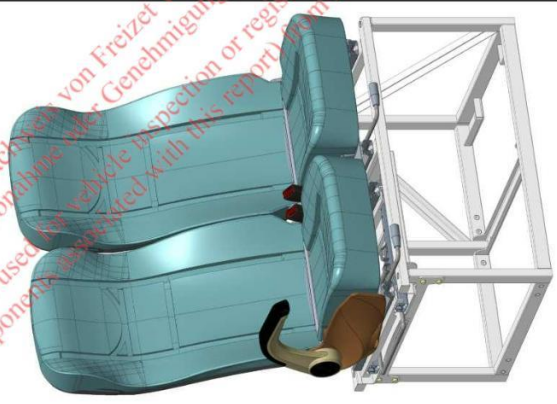
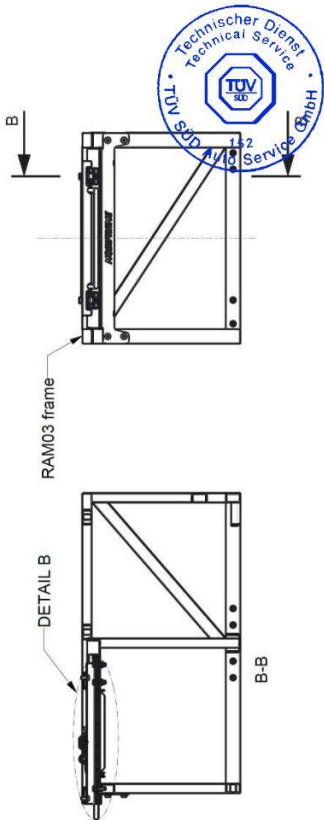
Kresztel / Drawn by
 K. Trzyna
 Zaprojektowany przez / Approved by
 P. Odziemek

Data / Date
 13-Sep-22
 Arkusz / Sheet
 1/3

Fixation of seats and adjustments to the RAM03 frame

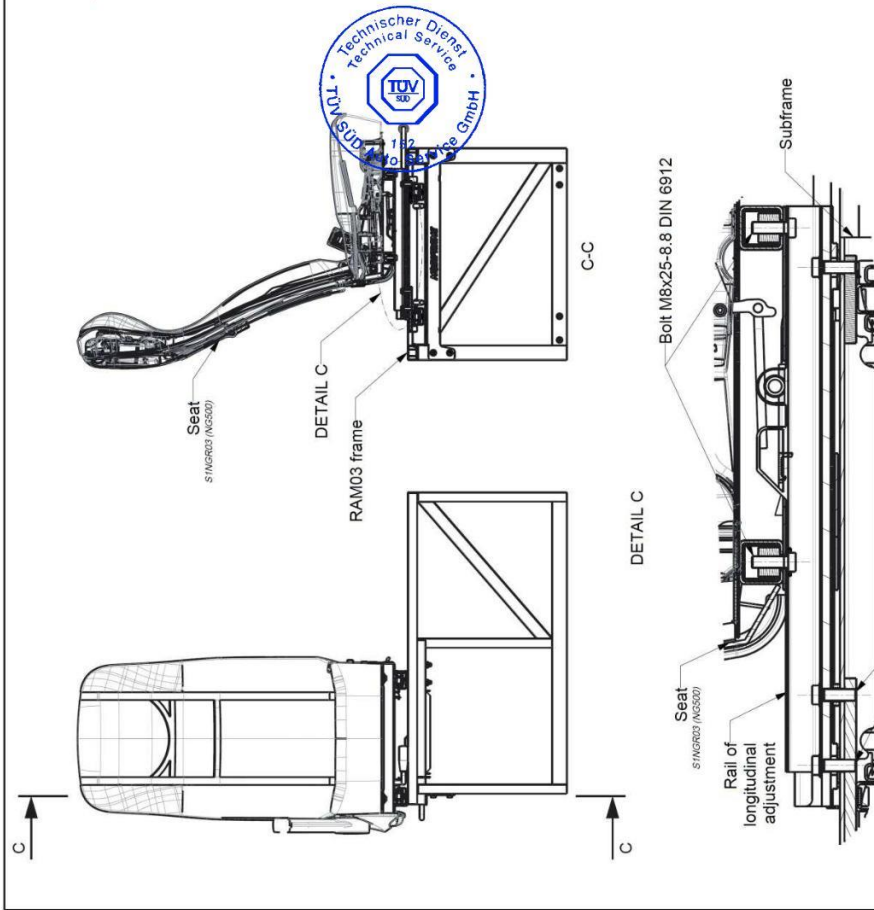
17-02-RAM03

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 zu Fahrzeugabnahme oder Genehmigungszulassung
 This report is allowed to be used for vehicle inspection or registration
 (of components associated with this report) from Freizeithilfen



MOBIFRAME	Kreiert / Drawn by K. Trzyna	Data / Date 13-Sep-22
	Zatwierdzony przez / Approved by P. Odziemek	Aktualiz / Sheet 2/3
Fixation of seats and adjustments to the RAM03 frame		
17-02-RAM03		

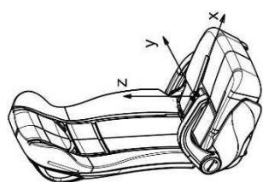
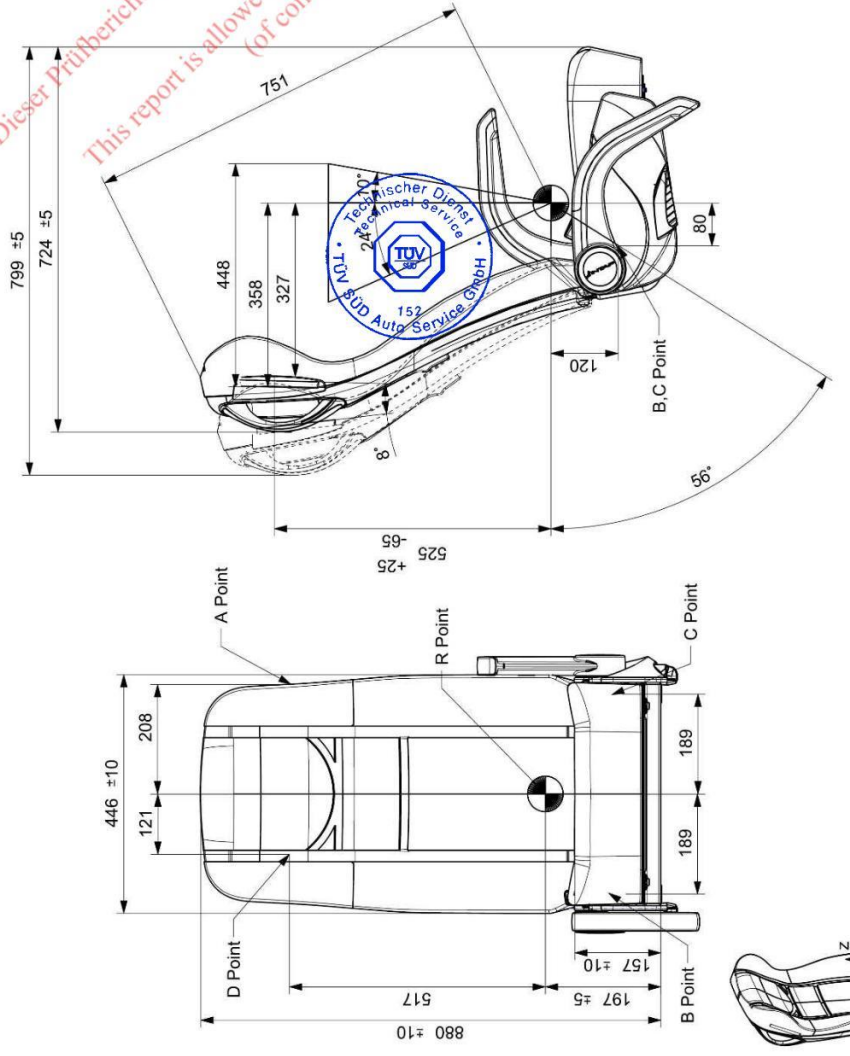
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 (of components associated with this report) from Freizer



MOBIFRAME	Kopial / Drawn by K. Trzyna	Data / Date 13-Sep-22
	Zatwierdzony przez / Approved by P. Odziemek	Aktualiz / Sheet 3/3
Fixation of seats and adjustments to the RAM03 frame		
17-02-RAM03		

Dieser Prüfbericht kann nur mit Käufers Unterschrift und Stempel (Vollständiger Name oder Firmenname) zu Fahrzeugabnahme oder (Einzelprüfung) für die Zulassung (of components associated with this report) from Intap.

PILLAR LOOP	
Ax	-358 mm
Ay	±208 mm
Az	525 mm
BUCKLE	
Bx	-80 mm
By	±189 mm
Bz	-120 mm
αB	56°
END BRACKET	
Cx	-80 mm
Cy	±189 mm
Cz	-120 mm
αC	56°
RETRACTOR	
Dx	-327 mm
Dy	±121 mm
Dz	-517 mm
R POINT	
Rx	0 mm
Ry	0 mm
Rz	0 mm

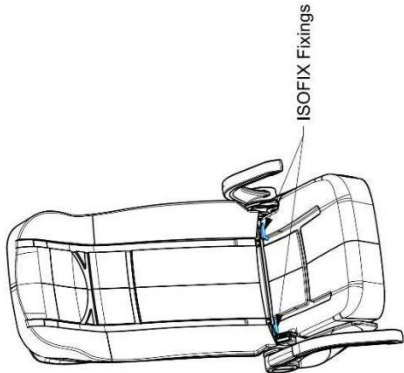
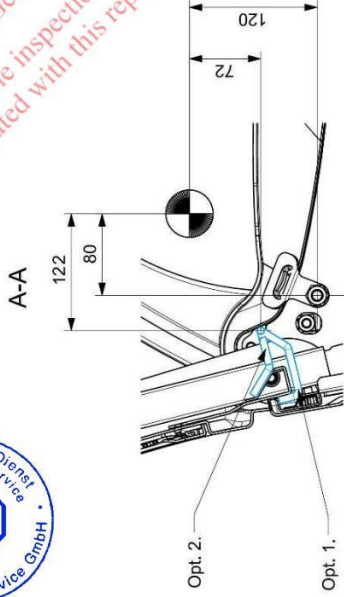
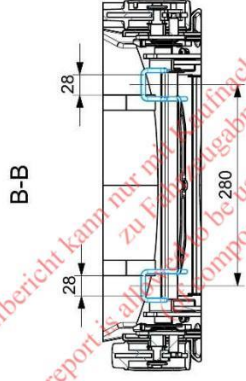
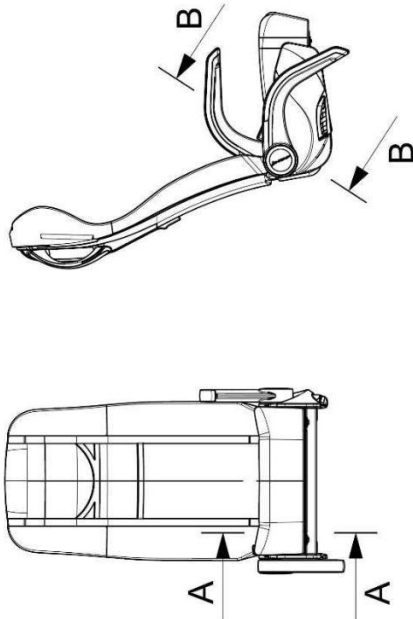


Zaprojektowany przez - data L. Dumka - 09-07-2020	Sprawdzony przez S. Chruscinski	Zatwierdzony przez - data A. Szadkowski - 2020-07-16	Masa -
NG500 R-point			Material
H015-S1NGR03			Arkusze 1 z 3



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ISOFIX points locations



Zaprojektowany przez - data L. Dumka - 09-07-2020	Sprawdzony przez S. Chrusciński	Zatwierdzony przez - data A. Szadkowski - 2020-07-16	Masa -
NG500 - ISOFIX points location			Materiał -
JINTAP			Arkusz 3 z 3
H001-S1NGR05			

RAM03 – removable fixation elements (fixation details and applicability – see Enclosure 2):

(see next pages)

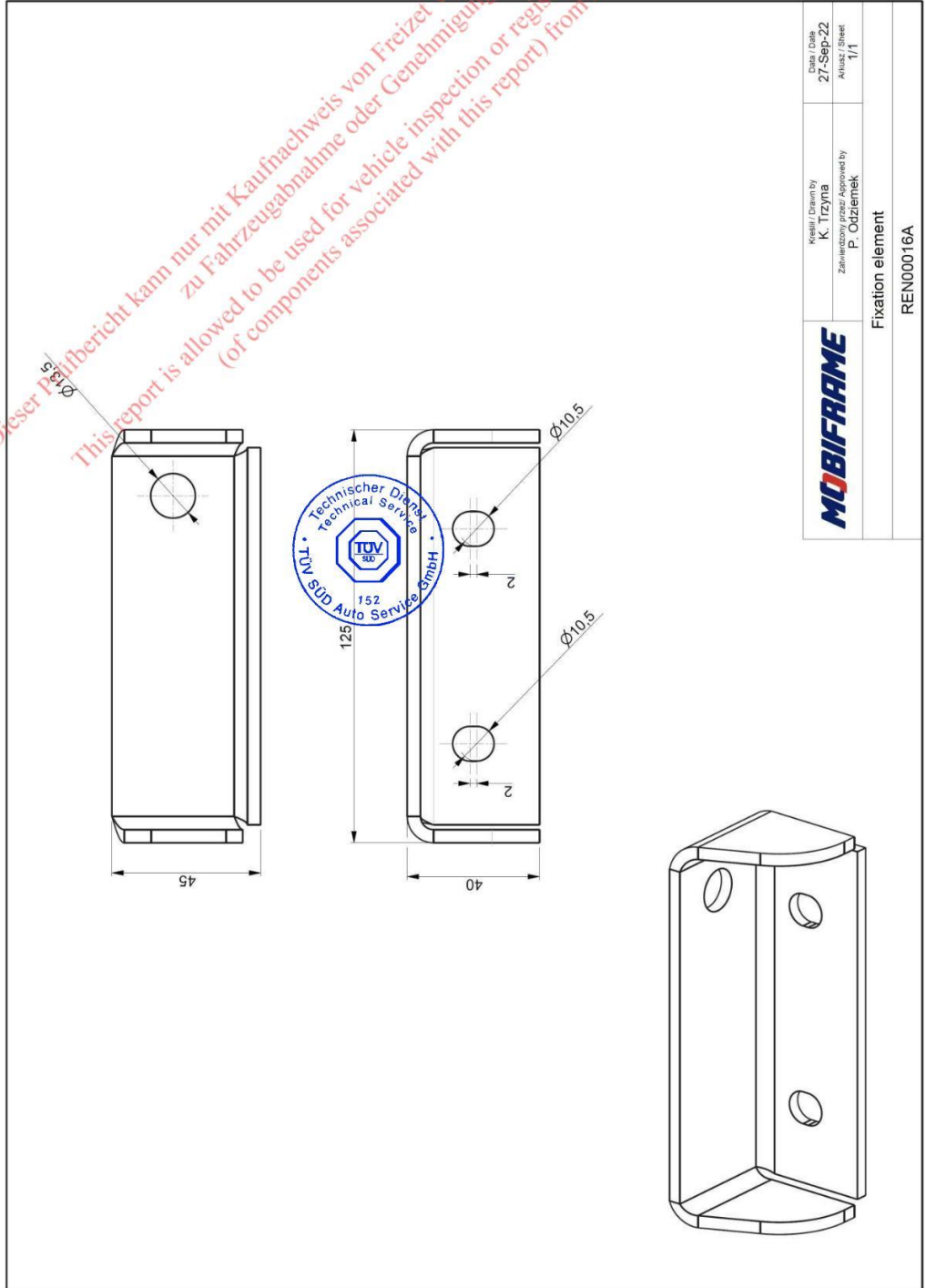
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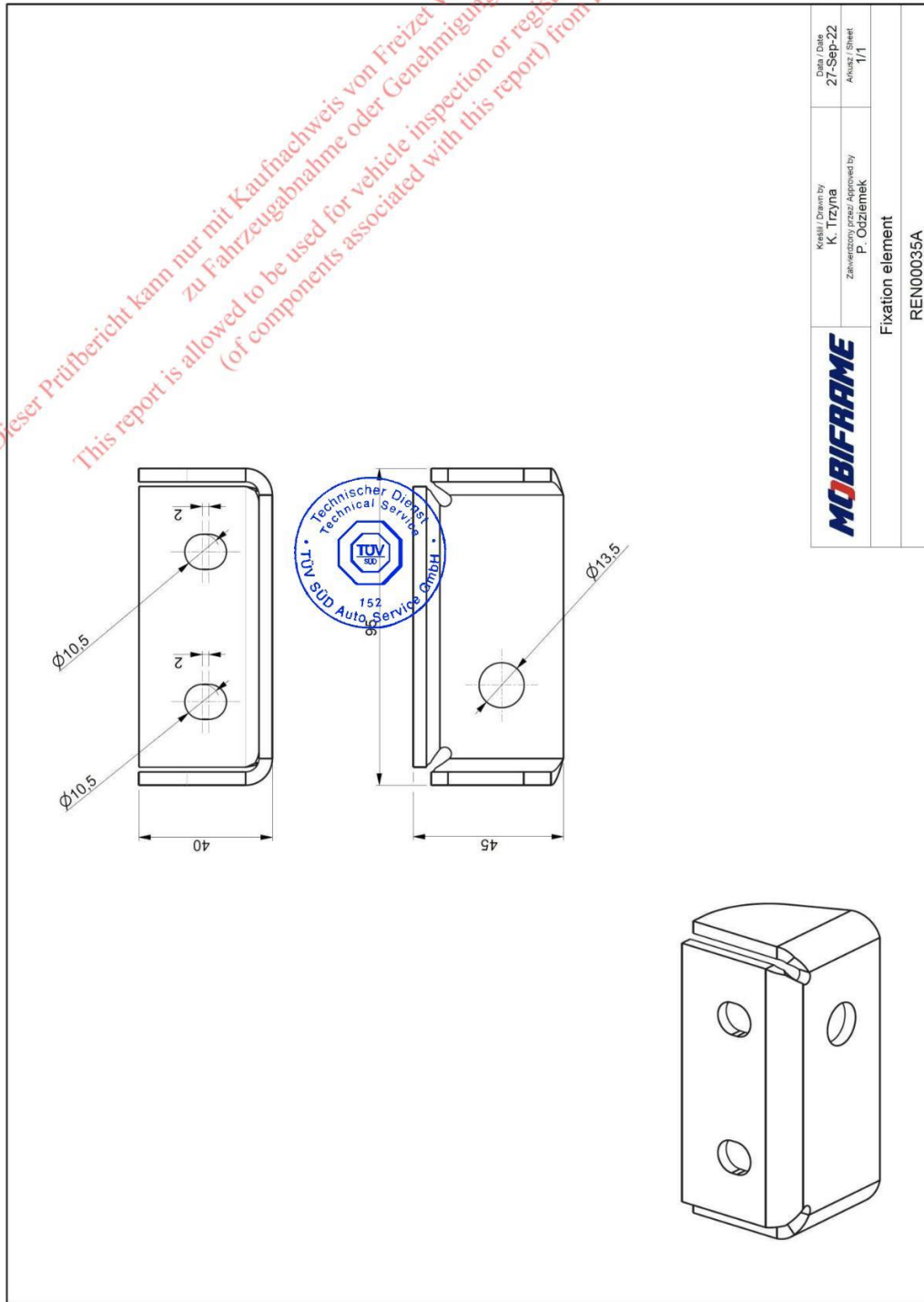


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Fixation element		
REN00016A		



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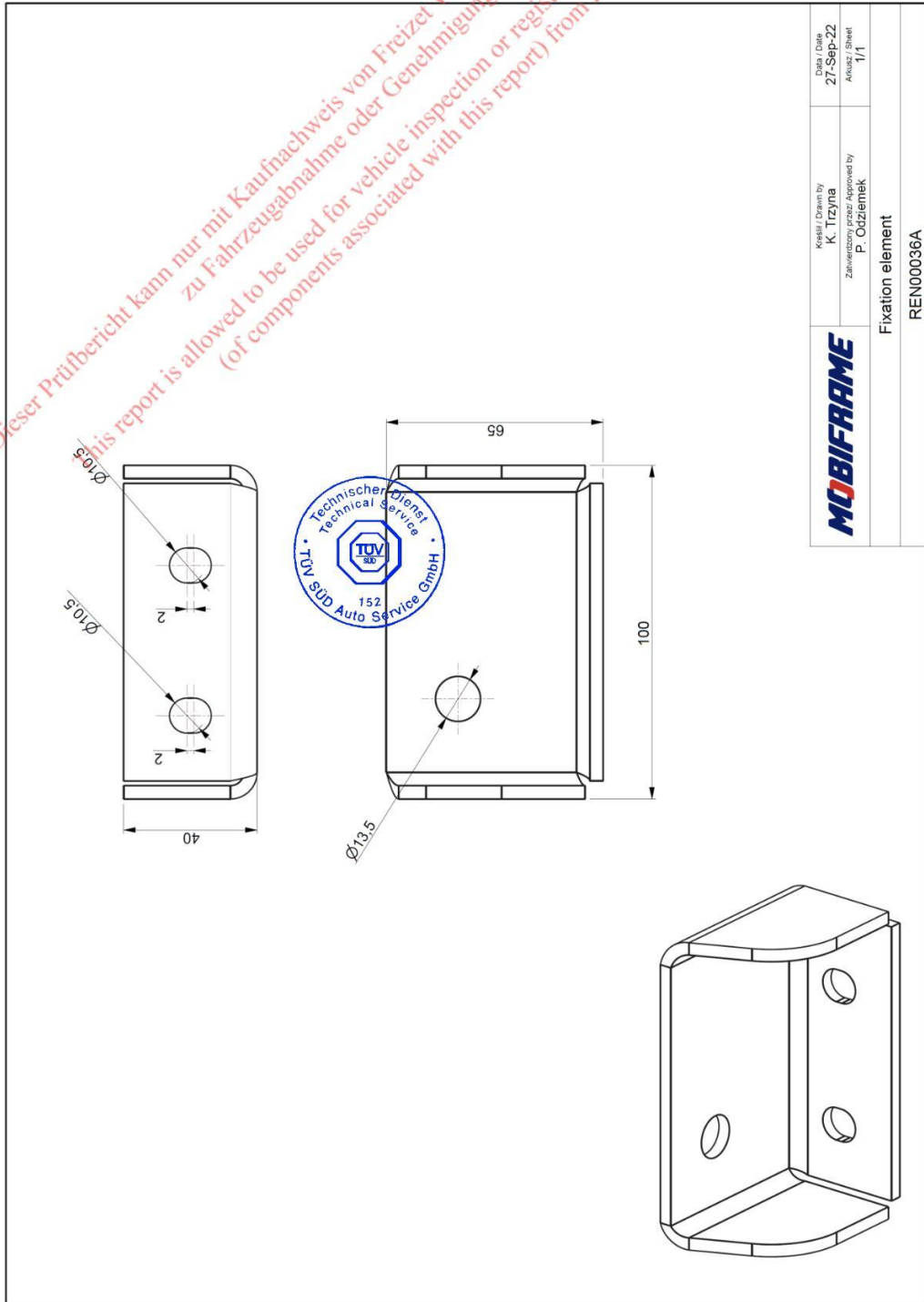


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	Zugewilligt / Checked / Approved by P. Odziemek	Ausgabe / Sheet 1/1
Fixation element		
REN00035A		



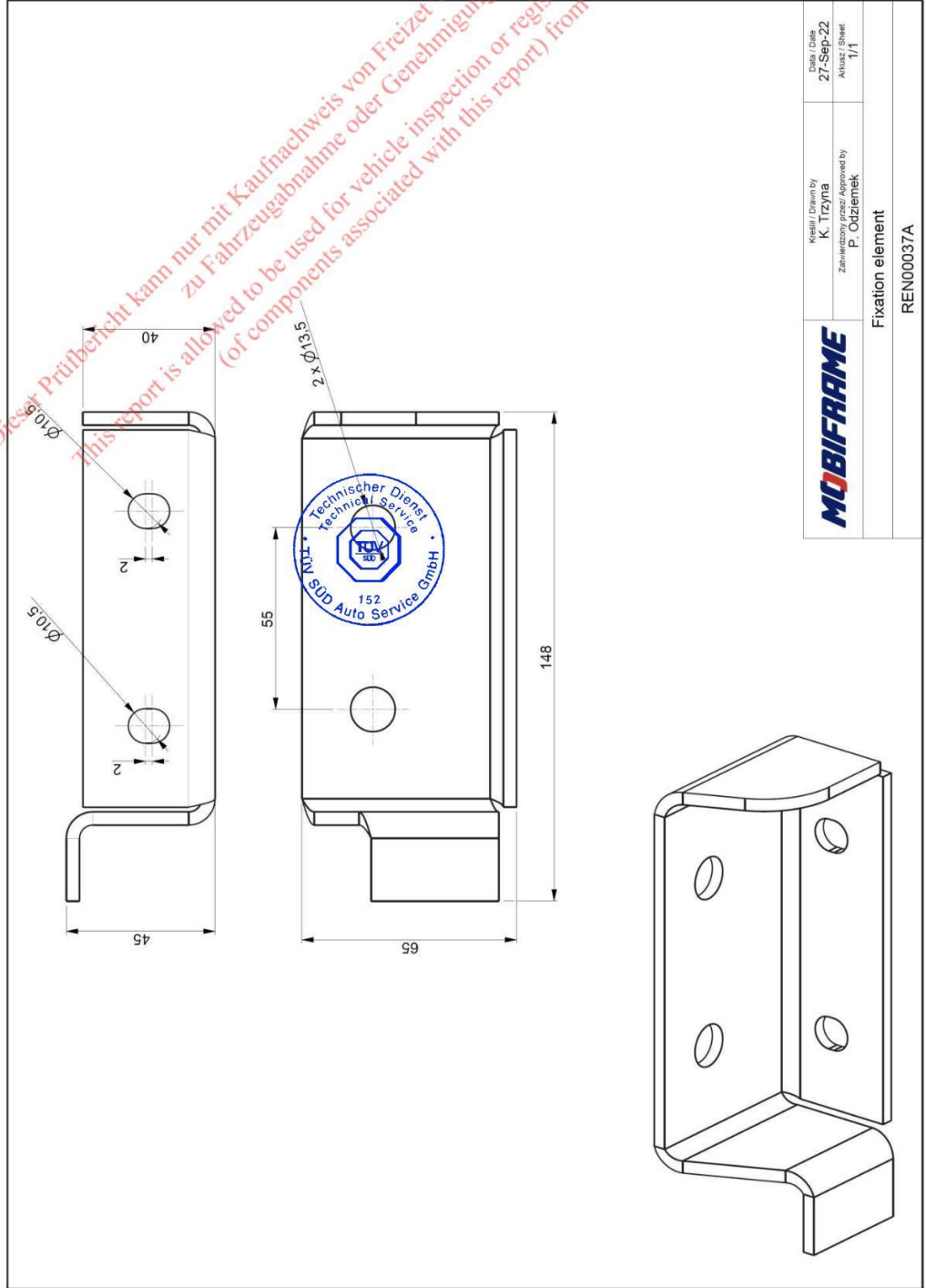
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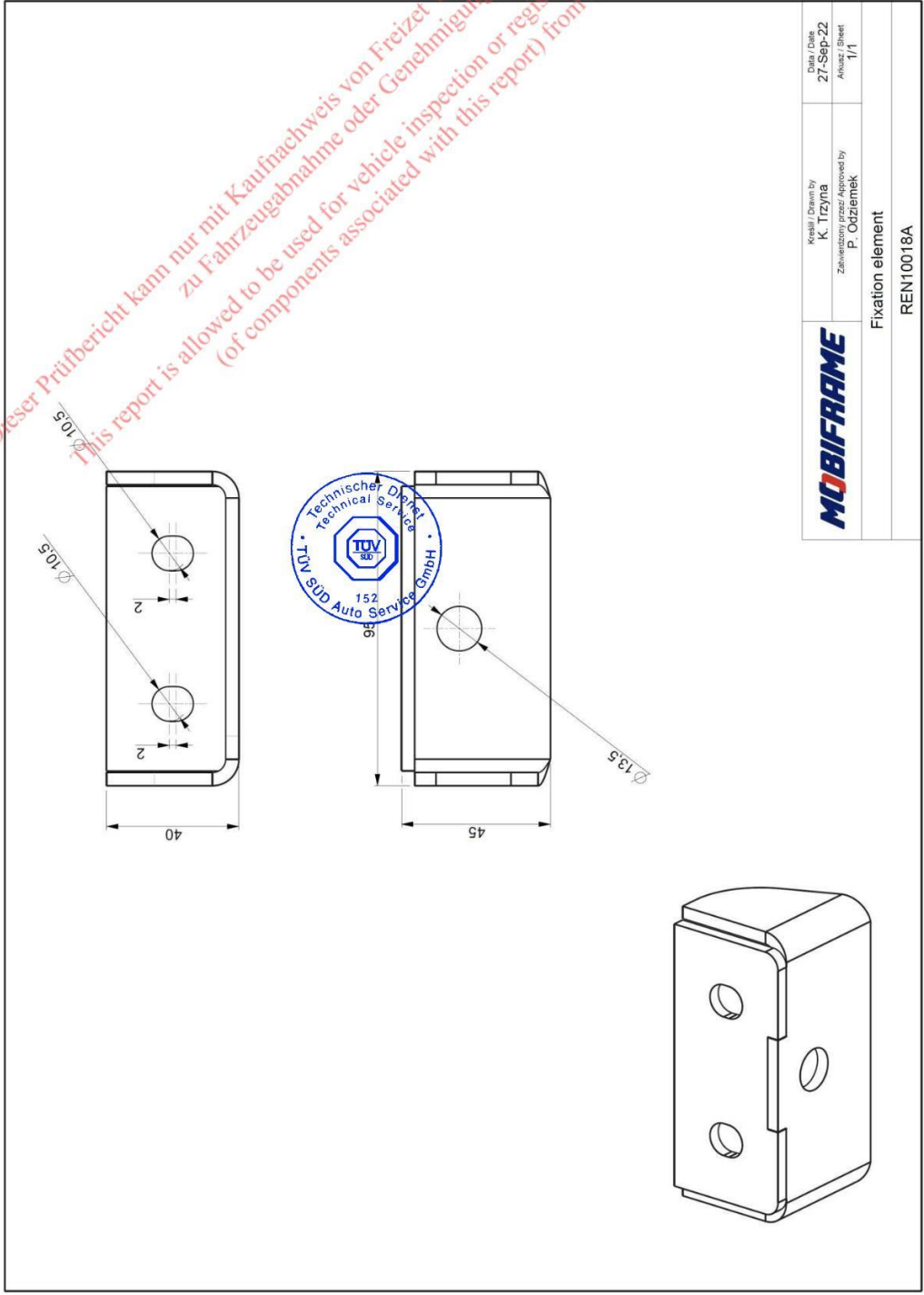


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Fixation element		
REN00037A		



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	Zulassungsprozess / Approved by P. Odziemek	Aktuell / Sheet 1/1
Fixation element		
REN10018A		



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Enclosure 4: ADHESIVES FOR FIXATION PLATE



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	Heftlos
Colour	Colourless, transparent
Density	0,92 g/cm ³ at 23°C
Flash point	152°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.



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Dow Automotive AG, Techn. Datasheet, BETACLEAN, Status terminated, Issue 01, 1.2.96, D-19/sr, Page 1



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Dow Automotive

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.

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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	approx. 0.97 g/cm ³ bei 23°C
Viscosity (DIN-cup 4)	< 14 s bei 23°C
Flash Point	See health and safety data sheet.
Processing temperature	ideal 10 - 40°C
Tack free time	50 - 150 sec @ 23°C / 50 % r.h.
Evaporation time	min. 10 min @ 23°C / 50 % r.h., max. 8h Reactivation with BP 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
Shelf life	9 months in unopened containers (see "use before" date printed on the container)

Dow Automotive, Techn. Datasheet, BETAPRIME, Status terminated, Issue 04, 15.01.2001, Sie/D-3, Page 1



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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

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Environment: All sites of Dow Automotive are conforming to ISO 14001:2004.

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BETAPRIME™ 5500

Short Description

Adhesion promoting primer for laminated glass with enamel layer inside and enamel substrates. To be used in combination with Dow Automotive Systems PUR-Adhesive/sealants.

Properties

One-step primer which can be used without silane wipe pretreatment. Primer with short open time.

Application

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

Unless specified otherwise test are conducted at 23°C/50% relative humidity.

Basis	Polyisocyanates
Colour	black
Pigments	Carbon black
Density	0.901 - 1.001 g/cm³
Solid contents	35 - 40%
Viscosity DIN-cup 4mm after 3d 40°C	10.5 - 13 s
Minimum open time	3 minutes / felt application
Maximum opentime	3 days / felt application
Reactivation:	One time reactivation possible with: BETAWIPE™ VP04604 (wipe-on / wipe off) maximum open time 15 minutes.
Processing temperature	10 - 40°C
Processing instructions	Primer bottle needs to be shaken for at least one minute before opening, to release the steel balls within the container. In case steel balls are not dislodged, then it is recommended to strike the top of the container against a hard surface so that the steel balls are audible within the container. This is essential in order to disperse any possible sediment within the primer.
Caution	The product is extremely sensitive to humidity. It is imperative that container should be closed immediatly after use, in order to extend durability of the remaining primer contents.
Shelf life	6 months at + 5°C - +25°C in unopened containers.
Shelf life after opening	Depending on ambient conditions and working method: Use following test method to monitor if primer can be furter used for one day or if it is non-conformous and has to be dispode of. Daily measurement of viscosity DIN 4 cup: must not exceed 17 seconds.
Bonding Surface Preparation	All bonding surfaces must be free of impurities (dirt, dust, water, oil, grease, release agent and similar contaminants). Verify compatibility before use, or consult our Technical Service for more information.
Processing equipment	Primer applicator, primer application device (flask with primer applicator head and felt) or automatic primer application system.
Cleaning	Clean equipment with BETACLEAN™ 3000
Containers	Aluminium bottles





Automotive Systems

Technical Datasheet

Health and Safety

The use of bonding agent (primer) is generally harmless and as long as the basic rules for safe handling of chemicals are applied. However, the direct contact of uncured primer to food and food containers shall be avoided. Mandatory are protective measures in order to prevent direct skin contact as well as to avoid solvent inhalation. Proper ventilation should apply when using primers with high volatile content. If any primer is applied in the means of spraying technique, special care should apply in relation to respiration and personal protection in order to prevent aerosol inhalation. Suitable solvent resistant rubber gloves, conventional eye protection as well as appropriate type of respirator mask are essential. In case of direct contact with any primers the skin must be rinsed first with warm water and then cleaned thoroughly with conventional soap. Solvents shall be avoided. For detailed protective measures refer to the material safety data sheets.

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Dow Automotive

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.

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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.

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