

**INFORMATION FOLDER / DOCUMENT:**

**PURSUANT TO UN/ECE REGULATION No. 14.07  
“UNIFORM PROVISIONS CONCERNING THE APPROVAL  
OF VEHICLES WITH REGARD TO SAFETY-BELT  
ANCHORAGES, ISOFIX ANCHORAGES SYSTEMS  
AND ISOFIX TOP TETHER ANCHORAGES“  
(as last amended)**

**NAME: NMI Lite Rail  
TYPE: NLR22**



*Ilan Alfassa*  
*Managing Director*

Total number of pages: 90  
Date of issue: 20.05.2020



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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: 20<sup>th</sup> of May 2020



.....  
*Ilan Alfassa*  
*Managing Director*



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0. GENERAL
- 0.1 Make (trade name of manufacturer): NMI Lite Rail
- 0.2 Type: NLR22
- 0.2.1 Commercial name(s) (if available): NMI Lite Rail
- 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, M3, N3
- 0.5 Name and address of manufacturer: NMI Safety Systems Ltd.  
16 IO Centre, Arlington Business Park,  
Whittle Way, Stevenage, Herts SG1 2BD,  
Great Britain
1. GENERAL CONSTRUCTION CHARACTERISTICS OF THE VEHICLE
- 1.1 Photographs and/or drawings of a representative vehicle: List of vehicles for which the presented solution is valid – see Enclosure 1: Table of vehicles types
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: Not limited
- 9.10.3.1.1 Location and arrangement: Seats can be mounted in any position in the vehicle, provided in one row there are not more than 4 seats
- 9.10.3.2 Seat(s) designated for use only when the vehicle is stationary: N/A



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9.10.3.3 Masses:

**1. Dummy seats:**

Dummy Seat 2 (DS-02) – 36,5 kg

Dummy Seat 3 (DS-03) – 30,5 kg

**2. Production seats:**

**2.1. Category M1:**

Seats producer: Intap

S1MED01, S1TAX01, S1TAX02,  
S1TAX03, S1TAX08, S1NOV04,  
S1ERB08, S1KAR02, S1KAR03,  
S1KAR06, S1AMB01 – see Enclosure 4

Seats producer: Jany

805 Police seat – see Enclosure 4

**2.2. Category M2/M3:**

Seats producer: Intap

Single seats:

S1NOV01, S1LID17, S1LID18, S1LID25,  
S1POL01, S1NGR01, S1NGR02 – see  
Enclosure 4

Double seats:

S2NOV01, S2LID17, S2LID18, S2LID25,  
S1POL01, S2NGR01, S2NGR02 – see  
Enclosure 4

Seats producer: NMI

SitSafe STS01 – see Enclosure 4

Seats producer: Cogent

COGHWK-417, COGSLB-412,  
COGKAS-571 – see Enclosure 4

Seats producer: Phoenix

Sirius, Blenheim – see Enclosure 4

Seats producer: SEGE

Smartline, Buscomfort – see Enclosure 4



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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 3, Enclosure 4
9.10.3.4.2	The adjustment system:	See Enclosure 3, Enclosure 4
9.10.3.4.3	The displacement and locking systems:	See Enclosure 3, Enclosure 4
9.10.3.4.4	The seat-belt anchorages (if incorporated in the seat structure):	See Enclosure 3, Enclosure 4
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:	See Enclosure 4
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 Enclosure 4
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 Enclosure 4
9.10.4.	Head restraints	
9.10.4.1.	Type(s) of head restraints:	<p><b>Detachable:</b> S1MED01, S1AMB01, Sirius, Blenheim</p> <p><b>Integrated:</b> S1TAX01, S1TAX02, S1TAX03, S1TAX08, S1NOV04, S1ERB08, S1KAR02, S1KAR03, S1KAR06</p> <p>S1NOV01, S1LID17, S1LID18, S1LID25, S1POL01, S1NGR01, S1NGR02, S2NOV01, S2LID17, S2LID18, S2LID25, S1POL01, S2NGR01, S2NGR02</p> <p>805 Police seat, COGHWK-417, COGSLB-412, COGKAS-571, SitSafe STS01, Smartline, Buscomfort, Blenheim</p>
9.10.4.2.	Type-approval number(s), if available:	N/A
9.10.4.3.	For head restraints not yet approved:	N/A



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- 9.10.4.3.1. A detailed description of the head restraint: N/A
- 9.10.4.3.2. In the case of a “separate” head restraint: N/A
  - 9.10.4.3.2.1. A detailed description of the structural zone to which the head restraint is intended to be fixed: N/A
  - 9.10.4.3.2.2. Dimensional drawings of the characteristics parts of the structure and the head restraint: 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 4
  - 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 or Br
		inboard	--	Ar or Br
	Upper anchorages		--	Ar
Centre seat *	Lower anchorages	right	--	Ar or Br
		left	--	Ar or Br
	Upper anchorages		--	Ar
Right-hand seat *	Lower anchorages	outboard	--	Ar or Br
		inboard	--	Ar or Br
	Upper anchorages		--	Ar

Other rows of seats			Anchorage location	
			Vehicle structure	Seat structure
Left-hand seat *	Lower anchorages	outboard	--	Ar or Br
		inboard	--	Ar or Br
	Upper anchorages		--	Ar
Centre left-hand seat *	Lower anchorages	right	--	Ar or Br
		left	--	Ar or Br
	Upper anchorages		--	Ar
Centre right-hand seat *	Lower anchorages	outboard	--	Ar or Br
		inboard	--	Ar or Br
	Upper anchorages		--	Ar
Right-hand seat *	Lower anchorages	outboard	--	Ar or Br
		inboard	--	Ar or Br
	Upper anchorages		--	Ar

\* - if present

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  
Br4m  
Br3

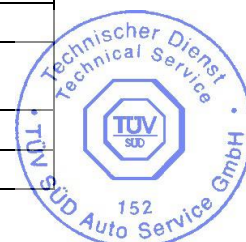


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## Enclosure 1: TABLE OF VEHICLES TYPES

List of vehicles for which presented solution is valid

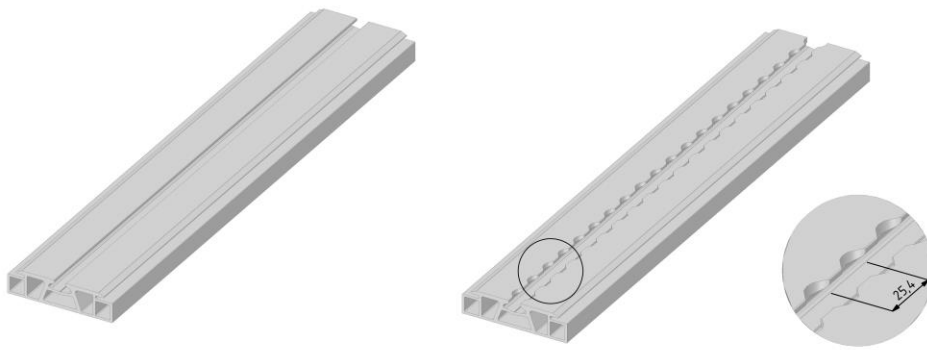
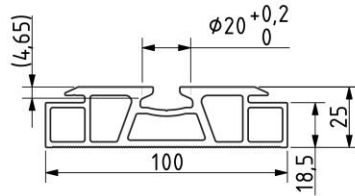
Manufacturer	Commercial description / Type	Wheelbase
Daimler	Sprinter (906, 907)	3250, 3665, 4325
	Sprinter (910)	3259, 3924
	Vito/Viano/V-klasse (639, 639/2, 639/4)	3200, 3430
VW	Crafter (2E__)	3250, 3665, 4325
	Crafter (SY__ e.g. SYN1E, SYM1E, SYN2E, SYN2Z, SYM2Z)	3640, 4490
	T5 (7H_, 7E_, 7J_)	3000, 3400
	T6 (7H_, 7E_, 7J_)	3000, 3400
Citroen	Jumper (Y)	3000, 3450, 4035
	Jumpy (X)	3000, 3122
	Jumpy (2016)	2925, 3275
	SpaceTourer	2925, 3275
Peugeot	Boxer (Y)	3000, 3450, 4035
	Expert (VF3__)	3000, 3122
	Expert (2016)	2925, 3275
	Traveller	2925, 3275
Fiat	Ducato (250)	3000, 3450, 4035
	Scudo (270)	3000, 3122
	Talento (FJL, FFL)	3098, 3498
Opel	Movano (MR, MS, MW)	3182, 3682, 4332
	Vivaro (F7)	3098, 3498
Renault	Master (FV, MA, VA)	3182, 3682, 4332
	Trafic (FL, L)	3098, 3498
	Trafic 2014 (JL, L)	3098, 3498
Renault Truck	Master (MF)	3182, 3682, 4332
Ford	Transit (FA_, FD_)	2933, 3300, 3750
	Transit (FC_)	3300, 3750, 3954
	Transit Custom (FA_, FC_)	2933, 3300
	Transit Connect (PU2)	2662, 3062
Iveco	Daily (IS_)	3000, 3300, 3520, 3595, 3950, 4100, 4175, 4750
Nissan	NV200	2725
	NV300	3098, 3498
	Primastar	3098, 3498
	NV400	3182, 3682, 4332
Toyota	Pro Ace, Pro Ace Verso (2016)	2925, 3275
MAN	TGE (SY__ e.g. SYN1E, SYM1E, SYN2E, SYN2Z, SYM2Z)	3640, 4490
LDV	V80, Maxus (SV6C)	3100, 3850
Hyundai	H350 (EU(V))	3435, 3670



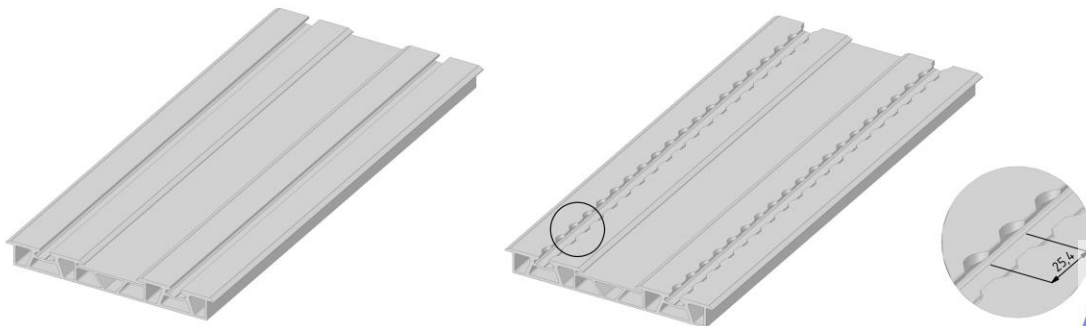
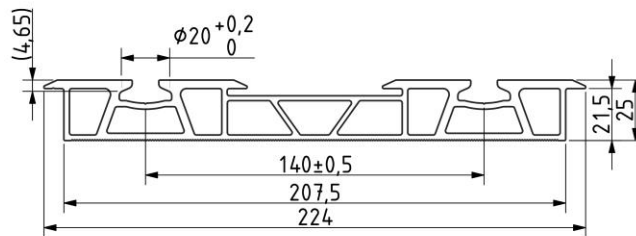
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## Enclosure 2: DRAWINGS OF NMI LITE RAIL (NLR22)

Single rail



Double rail



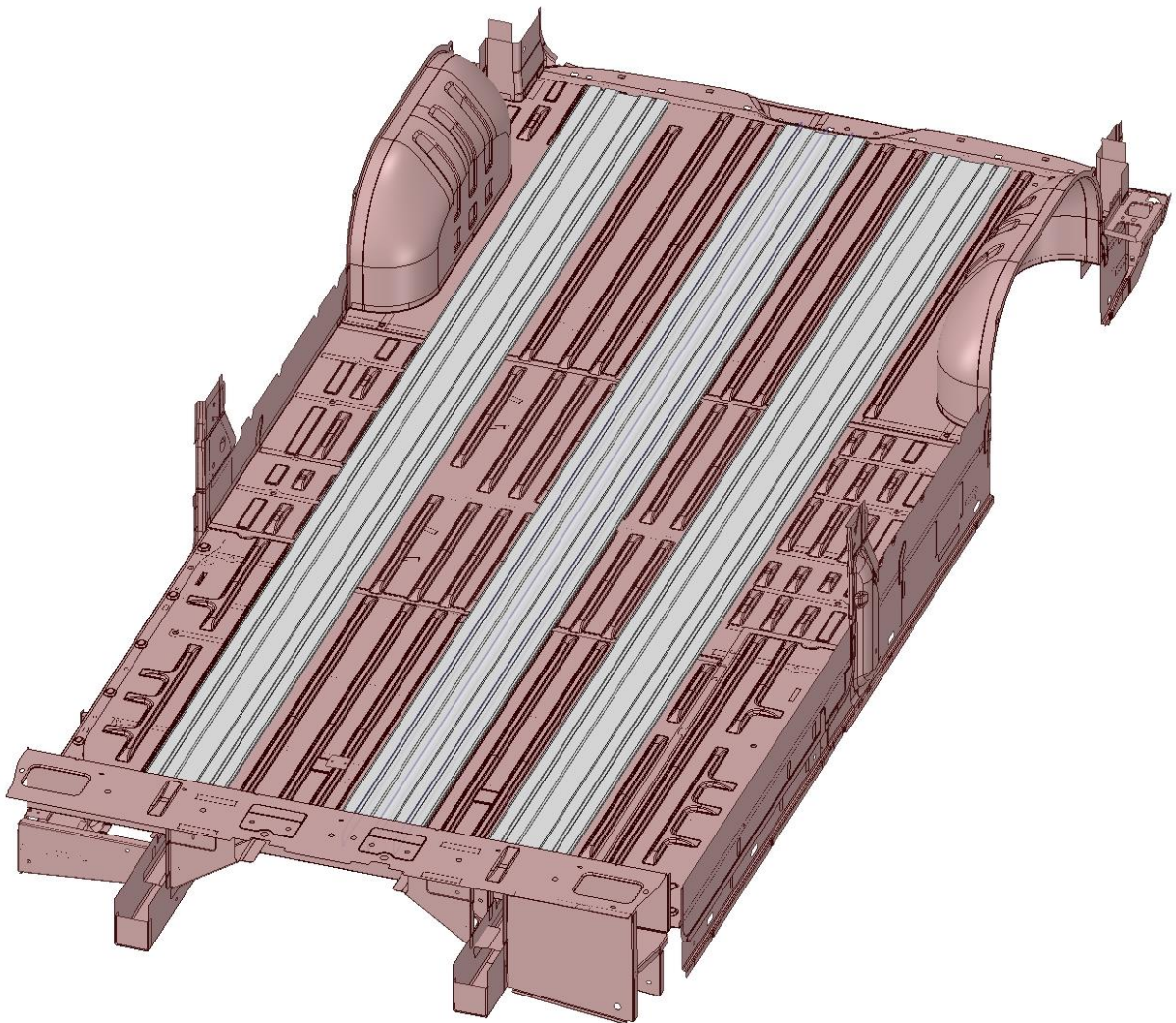
Material: 6005T6 or 6082T6



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Any seats arrangement allowed but not more than 4 seat in 1 row  
Any position of seats on the floor allowed.



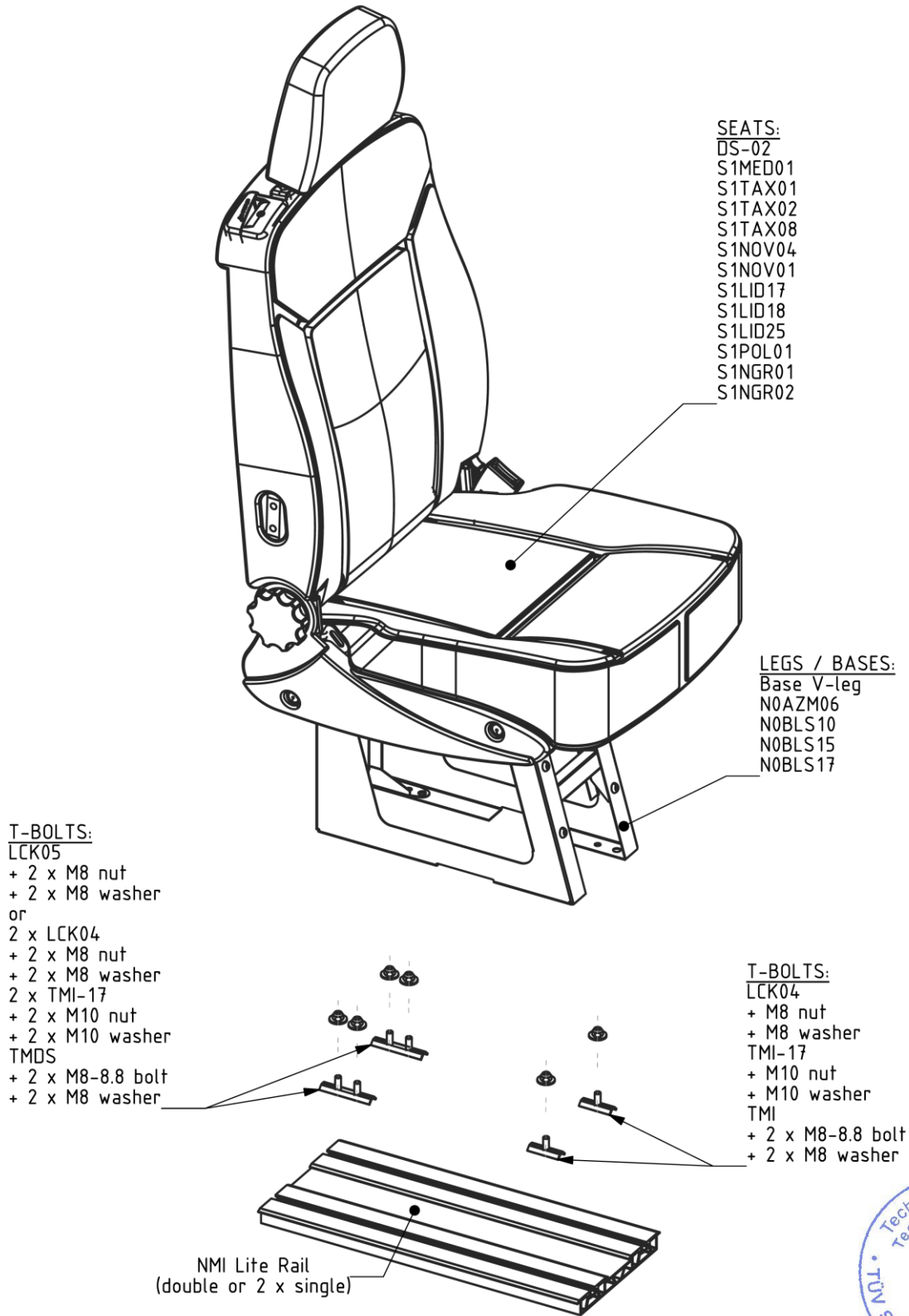
The NMI Lite Rails are glued to the original vehicle floor.



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### Enclosure 3: POSSIBLE COMBINATIONS OF SEATS AND LEGS

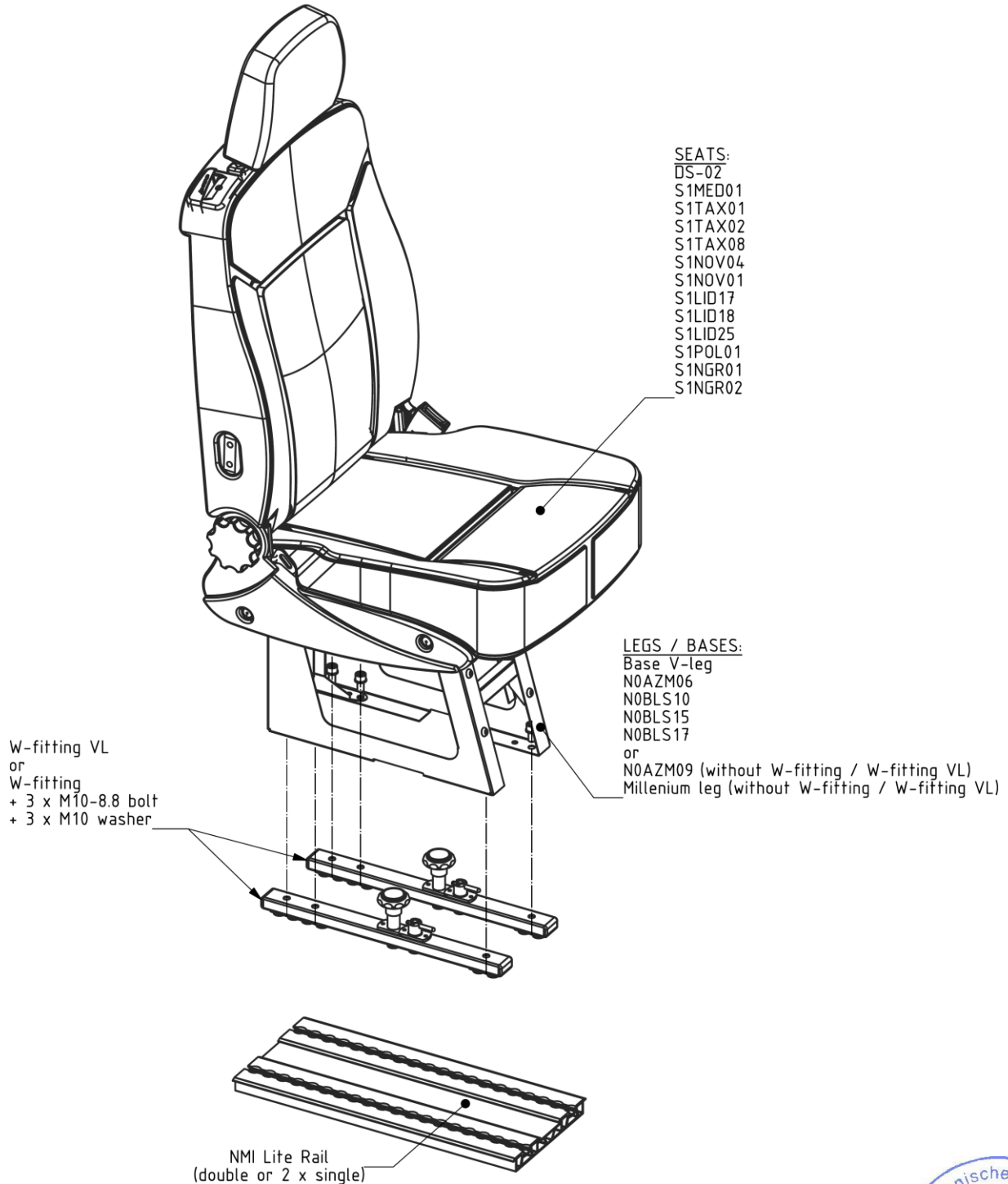
Single seats with V-leg or NOAZM06 or NOBLS10/NOBLS15/NOBLS17 and T-bolts



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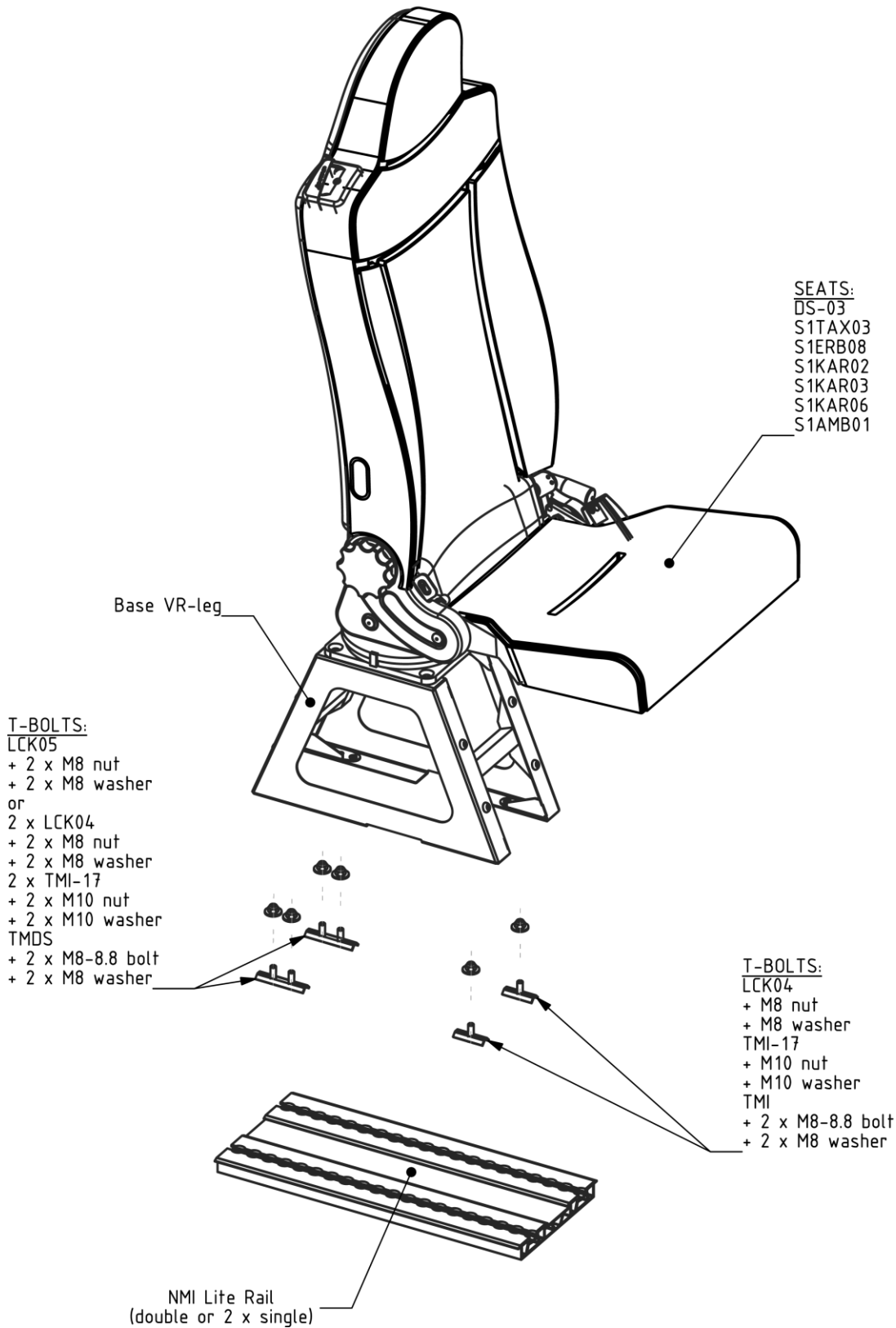


Single seats with V-leg or N0AZM06 and W-fitting/W-fitting VL or legs with quicklock N0AZM09 or Millenium leg



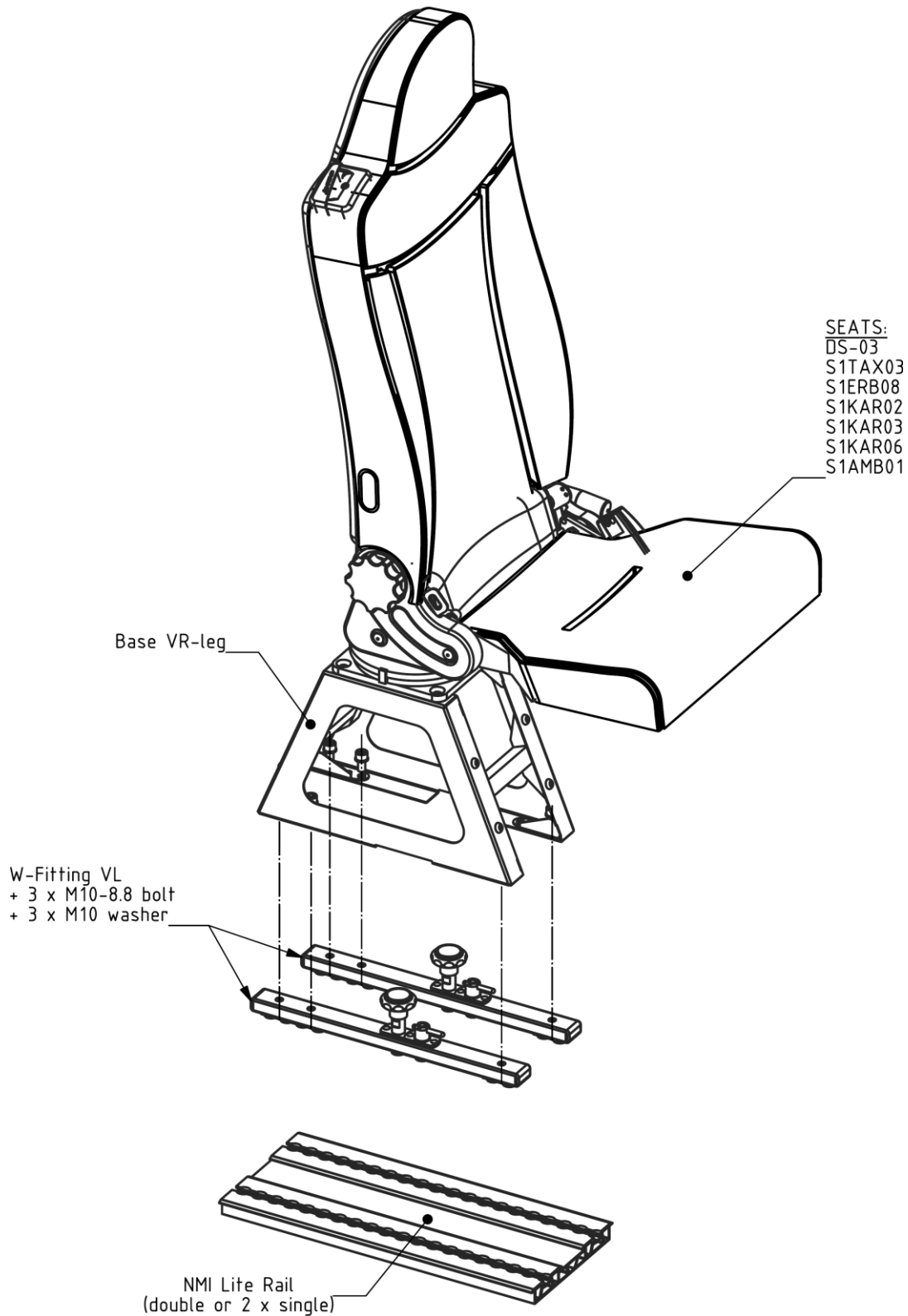
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Single seats with VR-leg and T-bolts



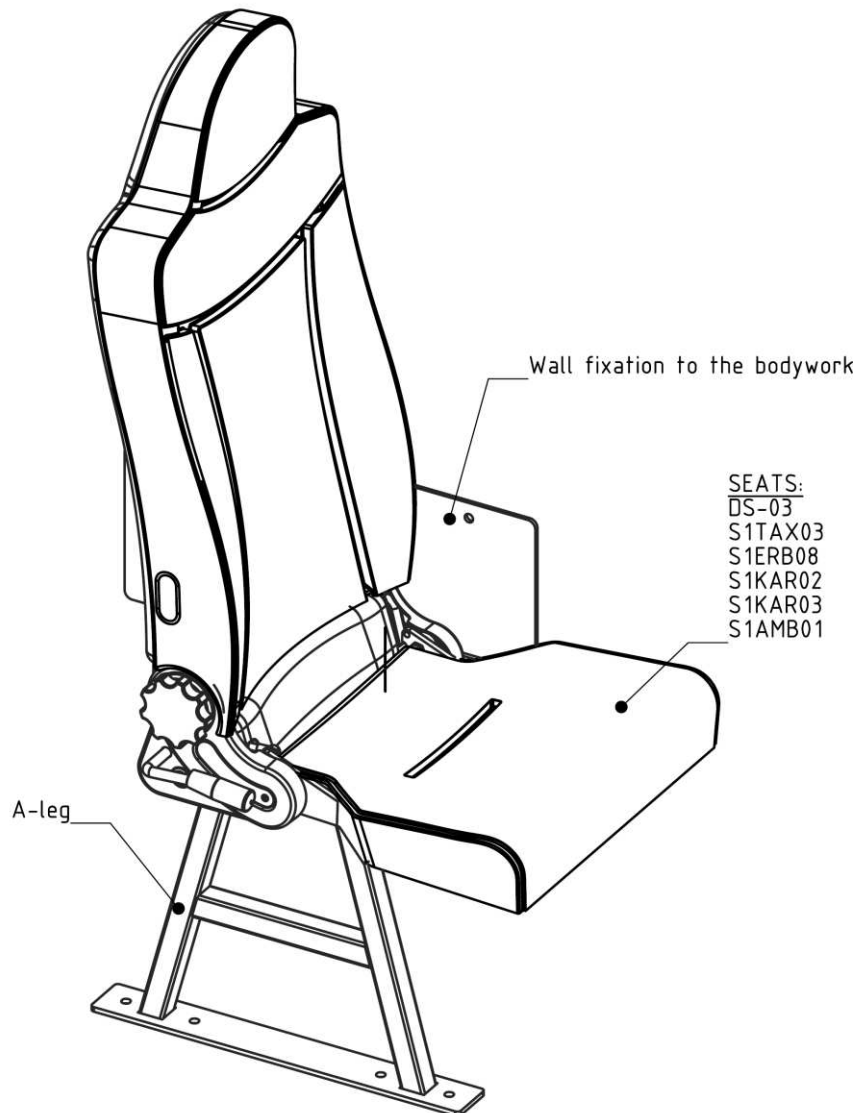
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Single seats with V-leg or N0AZM06 and W-fitting/W-fitting VL

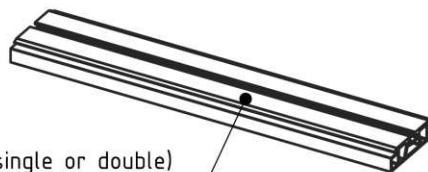
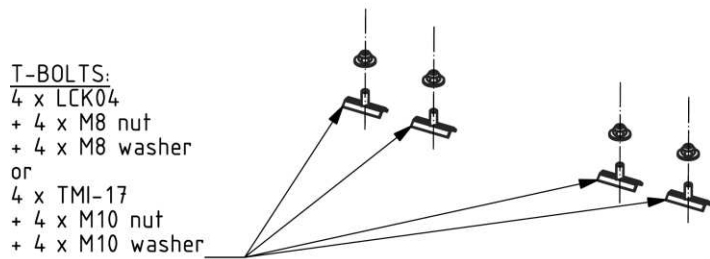


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Single seats with A-leg and T-bolts

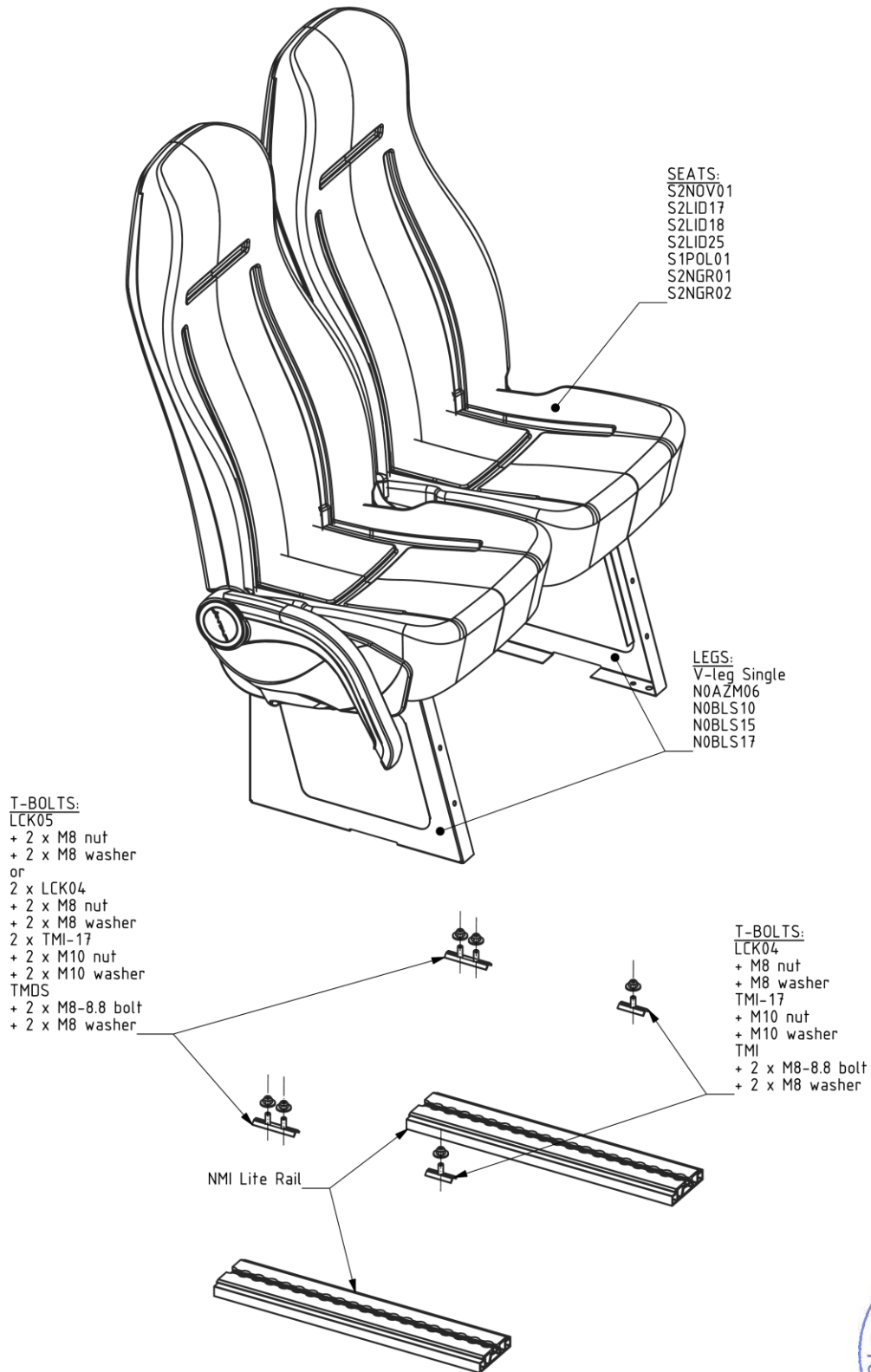


SEATS:  
DS-03  
S1TAX03  
S1ERB08  
S1KAR02  
S1KAR03  
S1AMB01



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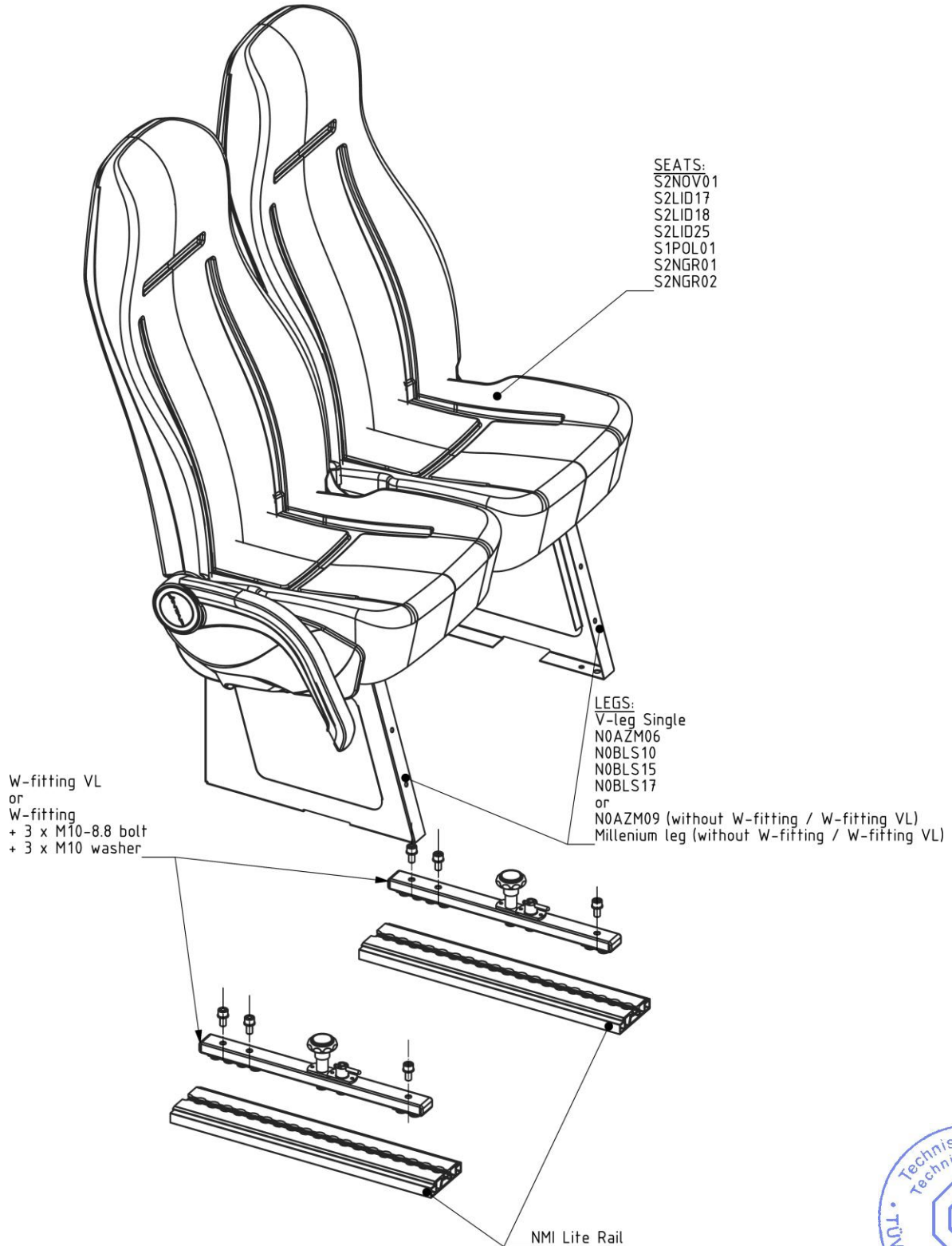
Double seats with legs N0AZM06 or N0BLS15/N0BLS17 and T-bolts



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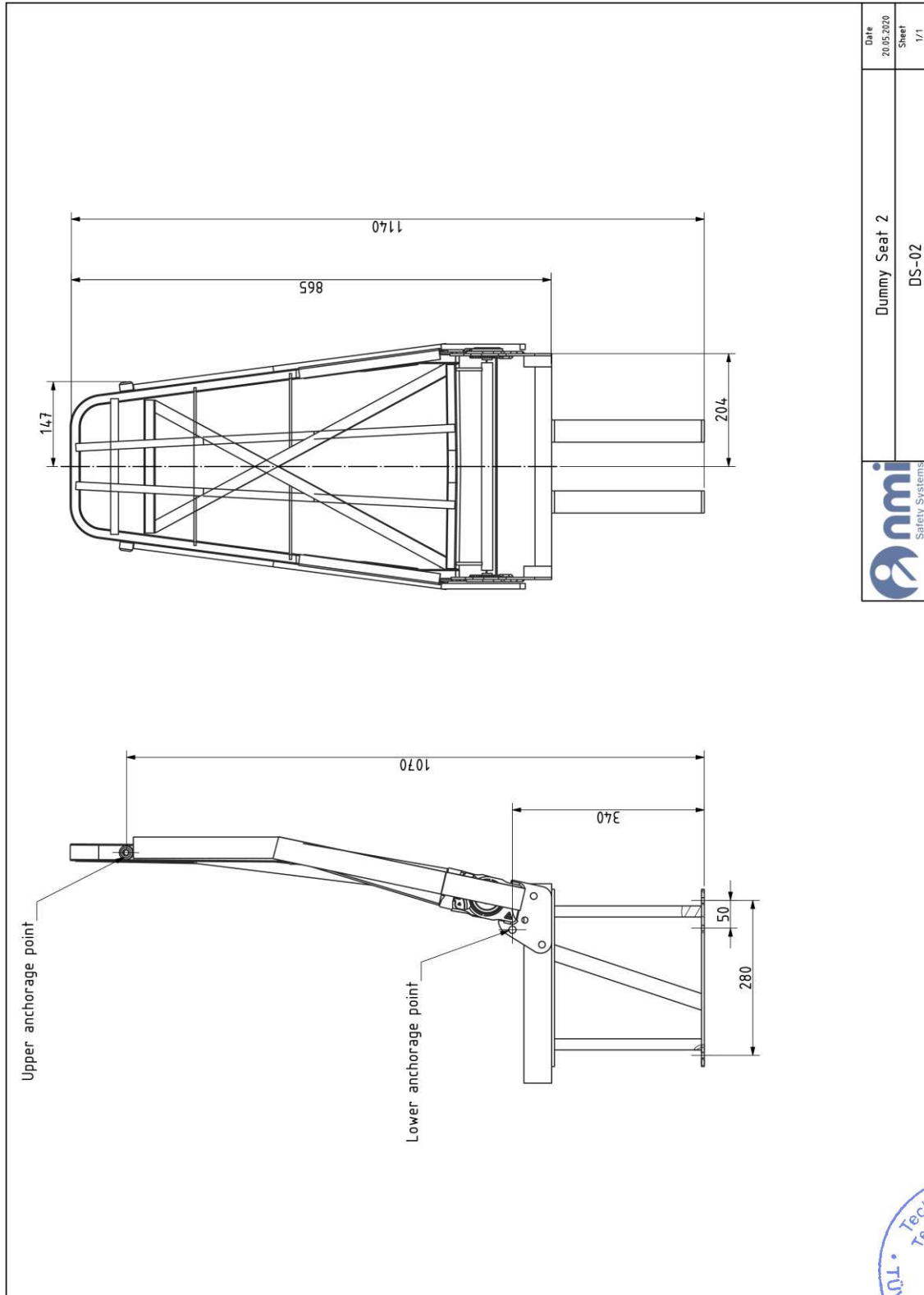
Double seats with legs N0AZM06 or N0BLS15/N0BLS17 and W-fitting/W-fitting VL or legs with quicklock N0AZM09 or Millenium leg



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## Enclosure 4: DRAWINGS OF SEATS

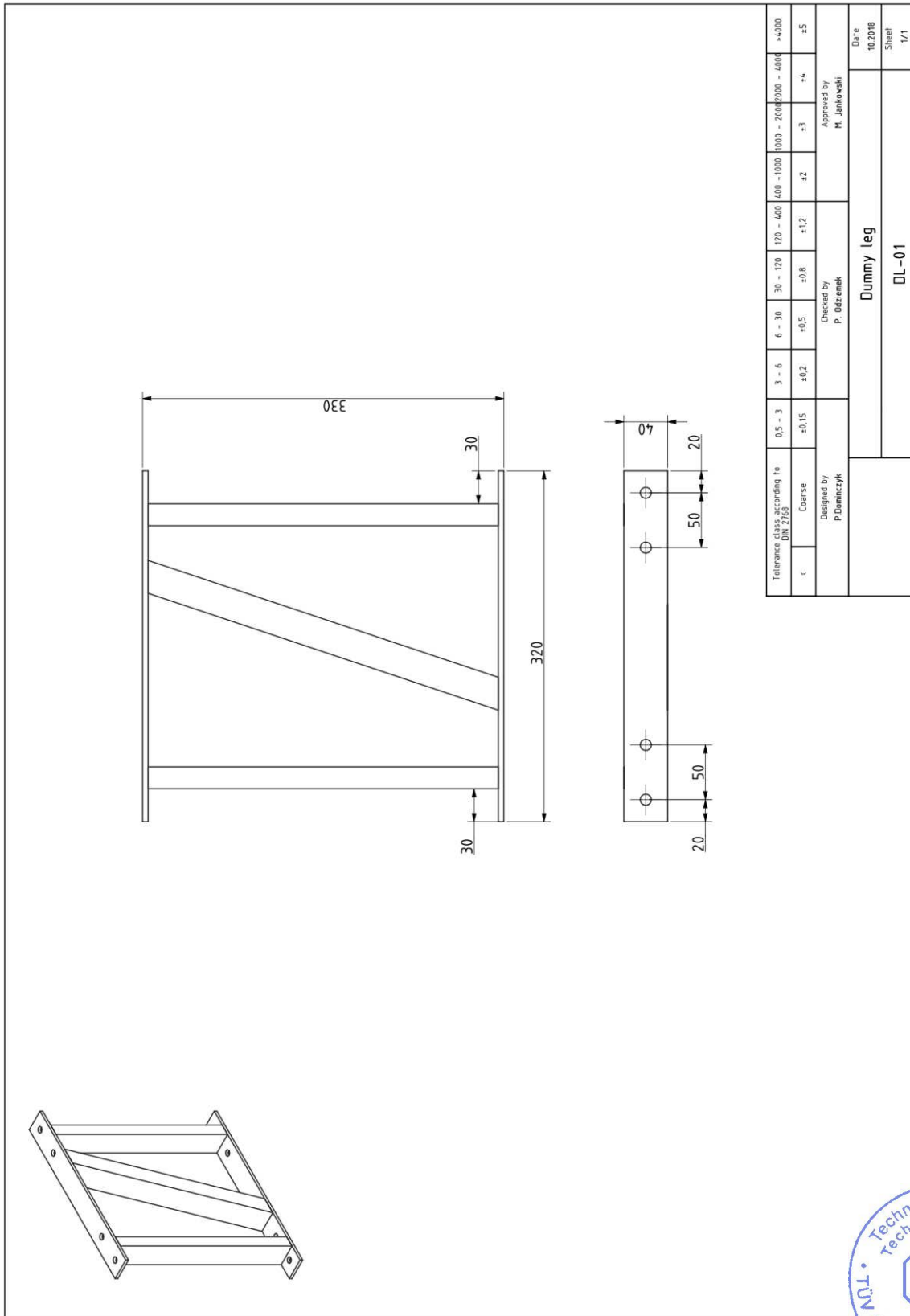
### 4.1 Dummy seats used for tests



Date	20.05.2020
Sheet	1/1
Dummy Seat 2	DS-02
	

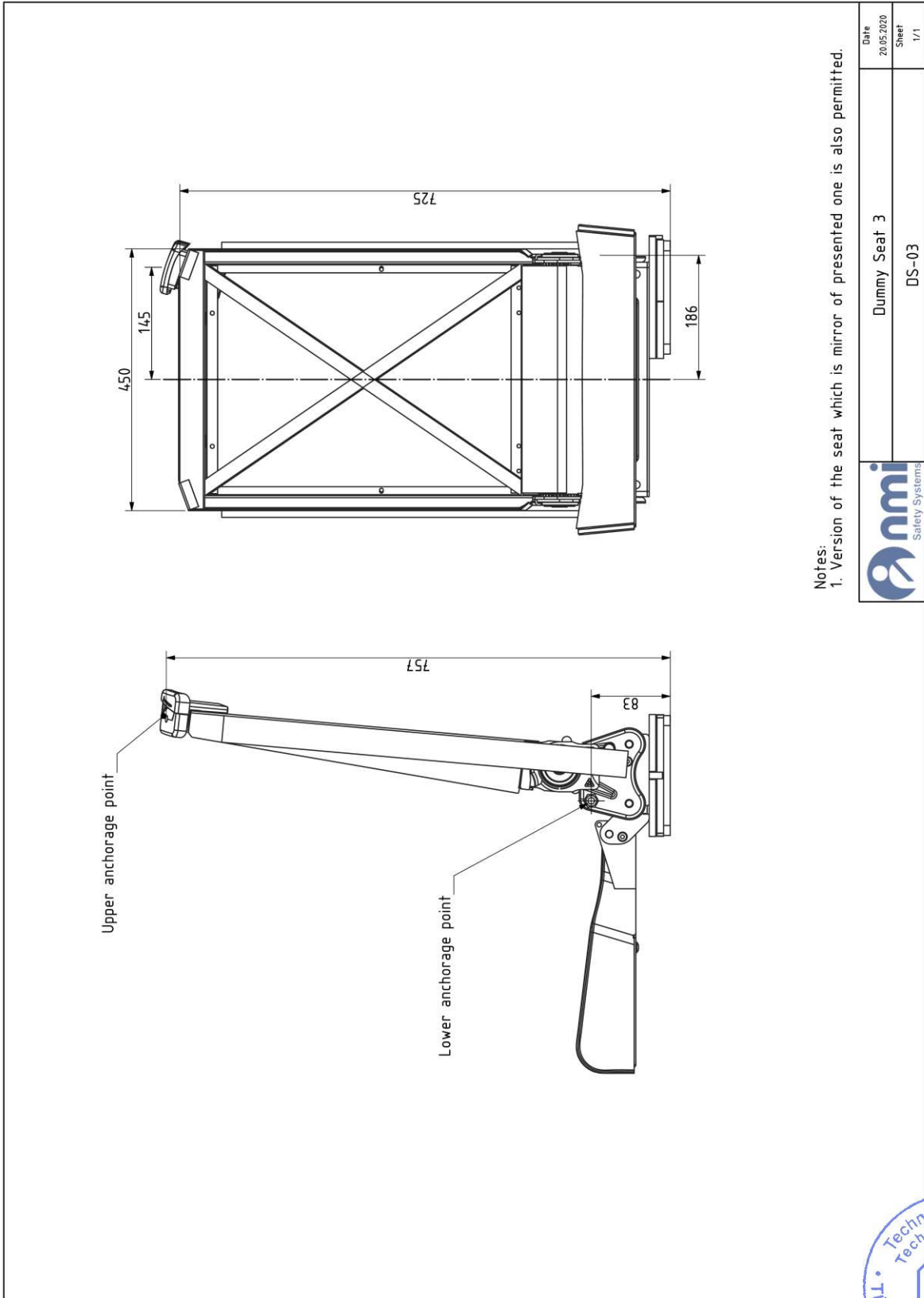


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	Dummy Seat 3	Date 20.05.2020
	DS-03	Sheet 1/1



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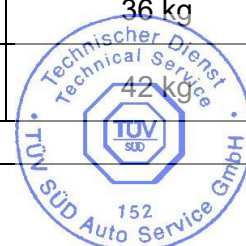
#### 4.2 Seats produced by:

INTAP Advanced Technology Sp. z o.o Sp. K.

ul. Rokocińska 110/112

95-006 Bukowiec k/Łodzi, Poland

Seat type	Legs and consoles	Category seats	Weight of maximum mass configuration
S1MED01	V-leg*, N0AZM06*, N0BLS10, N0AZM09, Millennium leg	M1/N1	26 kg
	V-leg*, N0AZM06*, N0BLS10, N0BLS15, N0BLS17, N0AZM09, Millennium leg, Pi leg M2	M2/N2, M3/N3	26 kg
S1TAX01	V-leg*, N0AZM06*, N0BLS10, N0AZM09, Millennium leg	M1/N1	26 kg
	V-leg*, N0AZM06*, N0BLS10, N0BLS15, N0BLS17, N0AZM09, Millennium leg, Pi leg M2	M2/N2, M3/N3	26 kg
S1TAX02	V-leg*, N0AZM06*, N0BLS10, N0AZM09, Millennium leg	M1/N1	26 kg
	V-leg*, N0AZM06*, N0BLS10, N0BLS15, N0BLS17, N0AZM09, Millennium leg, Pi leg M2	M2/N2, M3/N3	26 kg
S1TAX08	V-leg*, N0AZM06*, N0BLS10, N0AZM09, Millennium leg	M1/N1	28 kg
	V-leg*, N0AZM06*, N0BLS10, N0BLS15, N0BLS17, N0AZM09, Millennium leg, Pi leg M2	M2/N2, M3/N3	28 kg
S1NOV04	V-leg*, N0AZM06*, N0BLS10, N0AZM09, Millennium leg	M1/N1	27 kg
	V-leg*, N0AZM06*, N0BLS10, N0BLS15, N0BLS17, N0AZM09, Millennium leg, Pi leg M2	M2/N2, M3/N3	27 kg
S1TAX03	VR-leg*	M1/N1, M2/N2, M3/N3	36 kg
	A-leg	M1/N1, M2/N2, M3/N3	42 kg
S1ERB08	VR-leg*	M1/N1, M2/N2, M3/N3	36 kg
	A-leg	M1/N1, M2/N2, M3/N3	42 kg
S1KAR02 S1KAR03 S1KAR04	VR-leg*	M1/N1, M2/N2, M3/N3	36 kg
	A-leg	M1/N1, M2/N2, M3/N3	42 kg
S1AMB01	VR-leg*	M1/N1, M2/N2, M3/N3	36 kg
	A-leg	M1/N1, M2/N2, M3/N3	42 kg



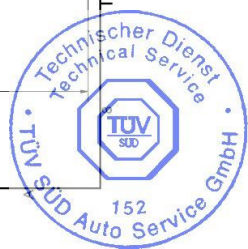
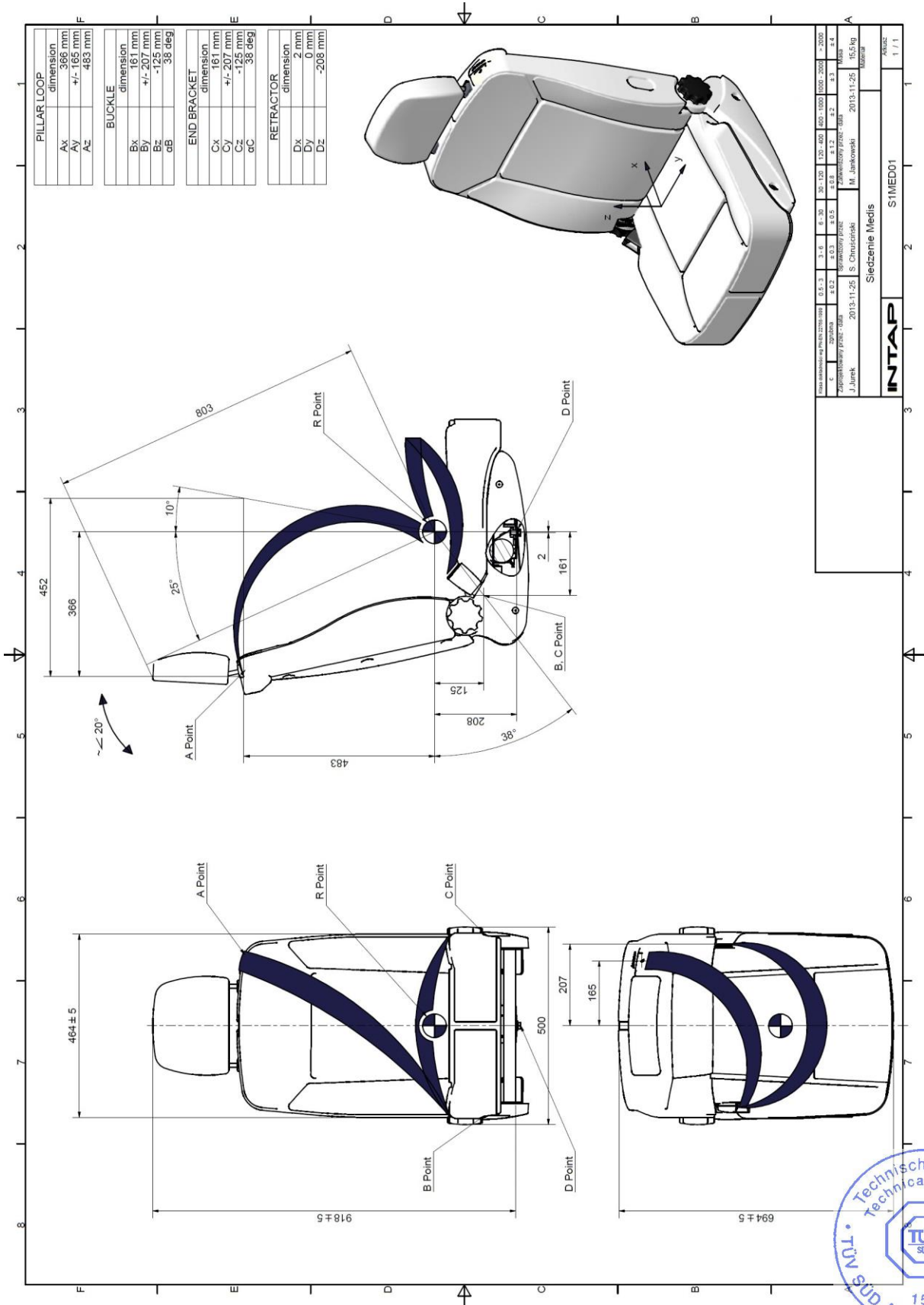
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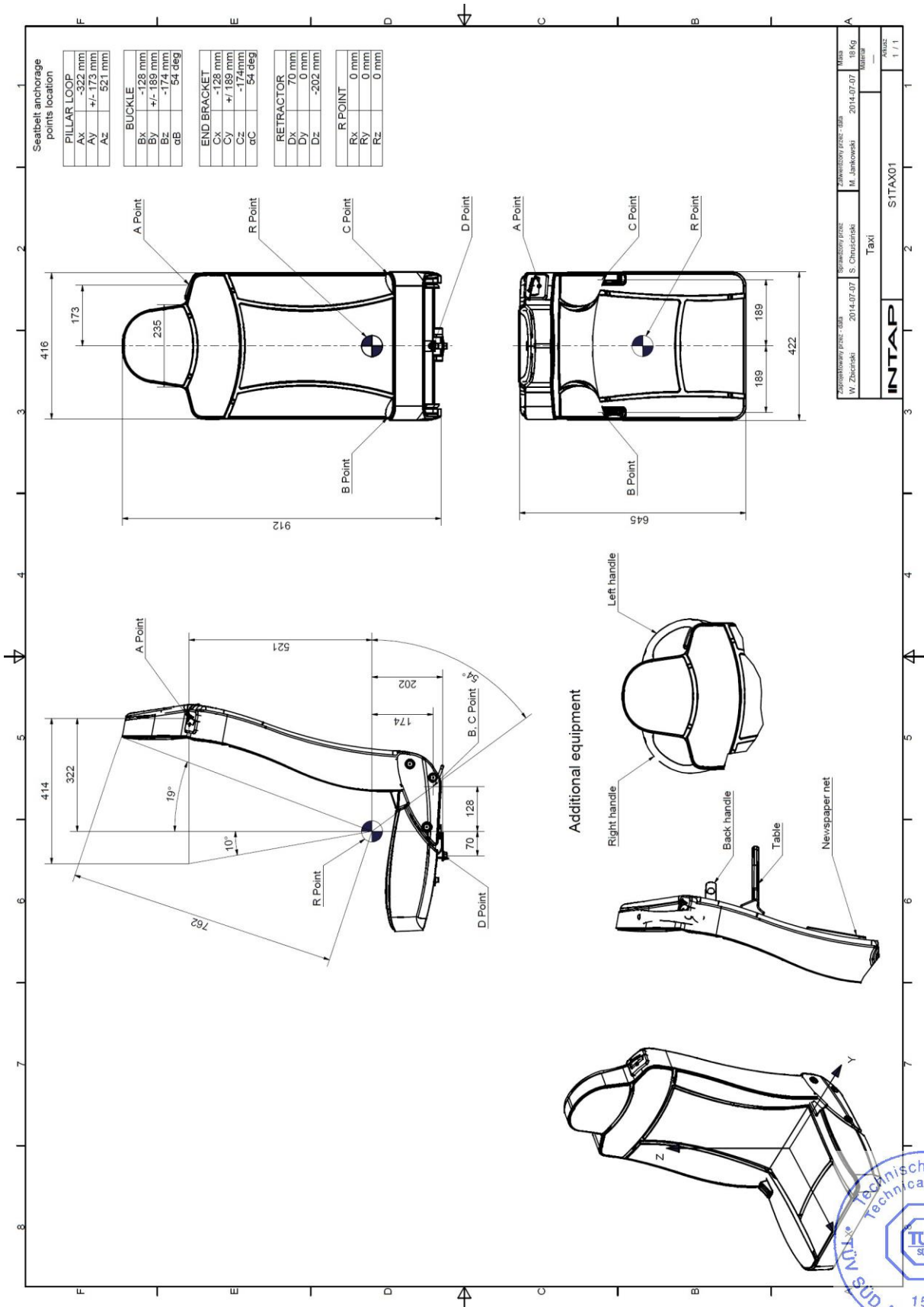
S1NOV01	V-leg*, N0AZM06*, N0BLS10, N0BLS15, N0BLS17, N0AZM09, Millennium leg, Pi leg M2	M2/N2, M3/N3	20 kg
S1LID17	V-leg*, N0AZM06*, N0BLS10, N0BLS15, N0BLS17, N0AZM09, Millennium leg, Pi leg M2	M2/N2, M3/N3	17 kg
S1LID18	V-leg*, N0AZM06*, N0BLS10, N0BLS15, N0BLS17, N0AZM09, Millennium leg, Pi leg M2	M2/N2, M3/N3	17 kg
S1LID25	V-leg*, N0AZM06*, N0BLS10, N0BLS15, N0BLS17, N0AZM09, Millennium leg, Pi leg M2	M2/N2, M3/N3	20 kg
S1POL01	V-leg*, N0AZM06*, N0BLS10, N0BLS15, N0BLS17, N0AZM09, Millennium leg, Pi leg M2	M2/N2, M3/N3	17 kg
S1NGR01	V-leg*, N0AZM06*, N0BLS10, N0BLS15, N0BLS17, N0AZM09, Millennium leg, Pi leg M2	M3/N3	21 kg
S1NGR02	V-leg*, N0AZM06*, N0BLS10, N0BLS15, N0BLS17, N0AZM09, Millennium leg, Pi leg M2	M3/N3	20 kg
S2NOV01	V-leg*, N0AZM06*, N0BLS10, N0BLS15, N0BLS17, N0AZM09, Millennium leg, Pi leg M2	M2/N2, M3/N3	36 kg
S2LID17	V-leg*, N0AZM06*, N0BLS10, N0BLS15, N0BLS17, N0AZM09, Millennium leg, Pi leg M2	M2/N2, M3/N3	30 kg
S2LID18	V-leg*, N0AZM06*, N0BLS10, N0BLS15, N0BLS17, N0AZM09, Millennium leg, Pi leg M2	M2/N2, M3/N3	30 kg
S2LID25	V-leg*, N0AZM06*, N0BLS10, N0BLS15, N0BLS17, N0AZM09, Millennium leg, Pi leg M2	M2/N2, M3/N3	42 kg
S1POL01	V-leg*, N0AZM06*, N0BLS10, N0BLS15, N0BLS17, N0AZM09, Millennium leg, Pi leg M2	M2/N2, M3/N3	30 kg
S2NGR01	V-leg*, N0AZM06*, N0BLS10, N0BLS15, N0BLS17, N0AZM09, Millennium leg, Pi leg M2	M3/N3	37 kg
S2NGR02	V-leg*, N0AZM06*, N0BLS10, N0BLS15, N0BLS17, N0AZM09, Millennium leg, Pi leg M2	M3/N3	36 kg

\* – with T-bolts or W-fitting/W-fitting VL

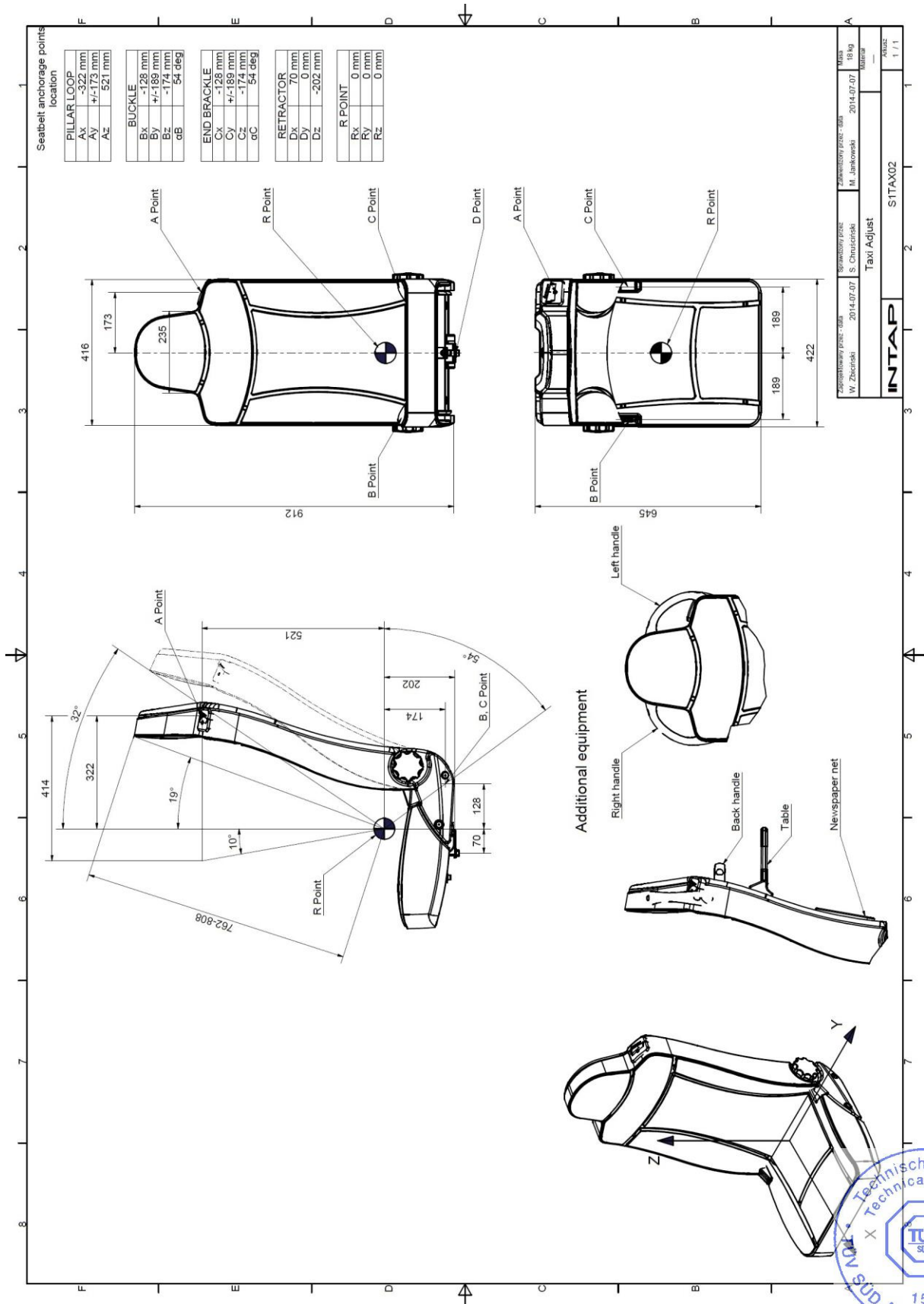


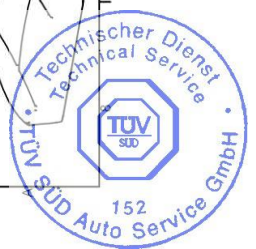
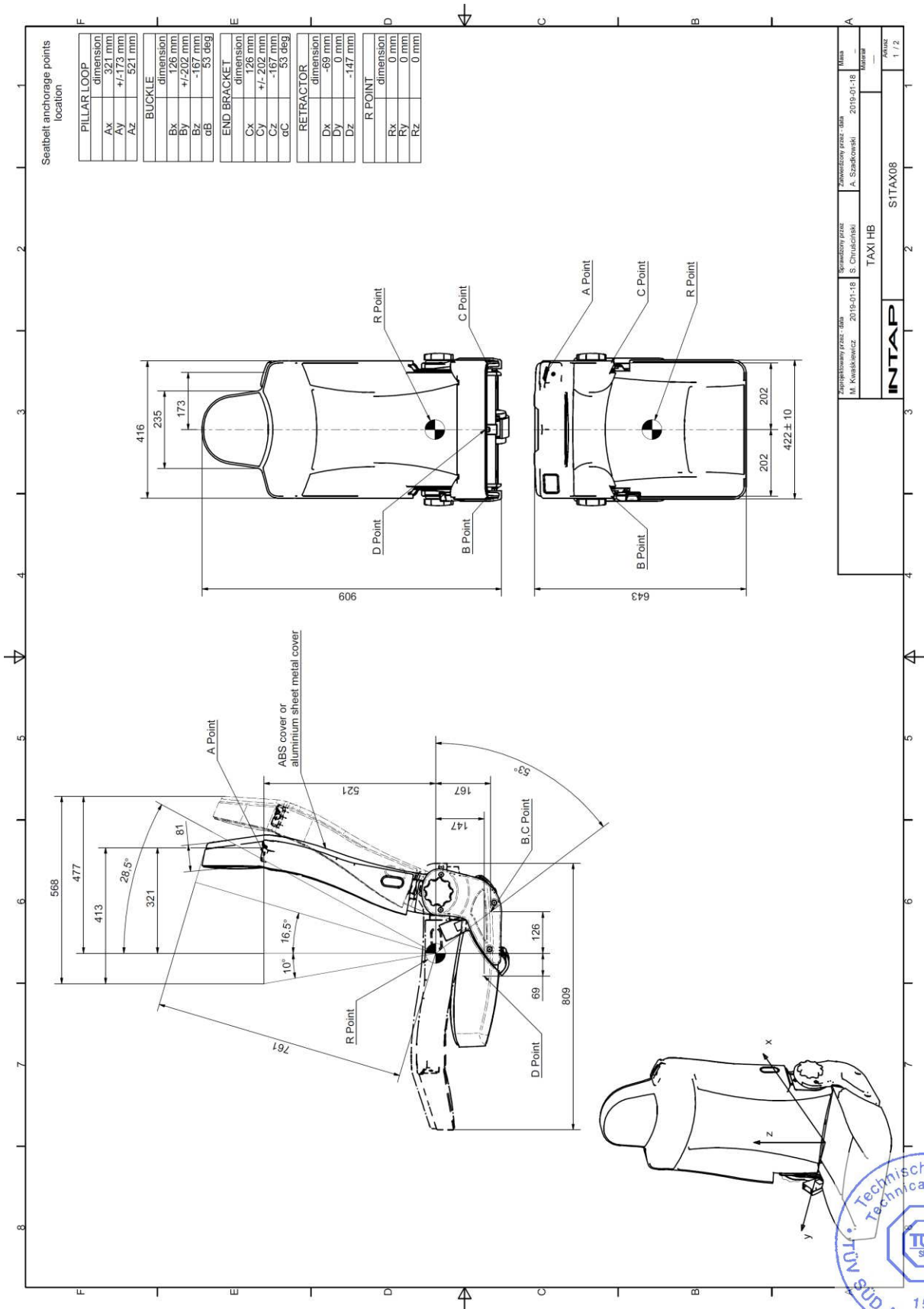
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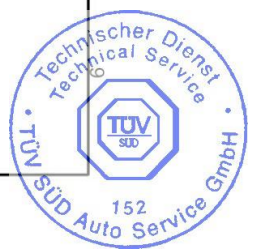
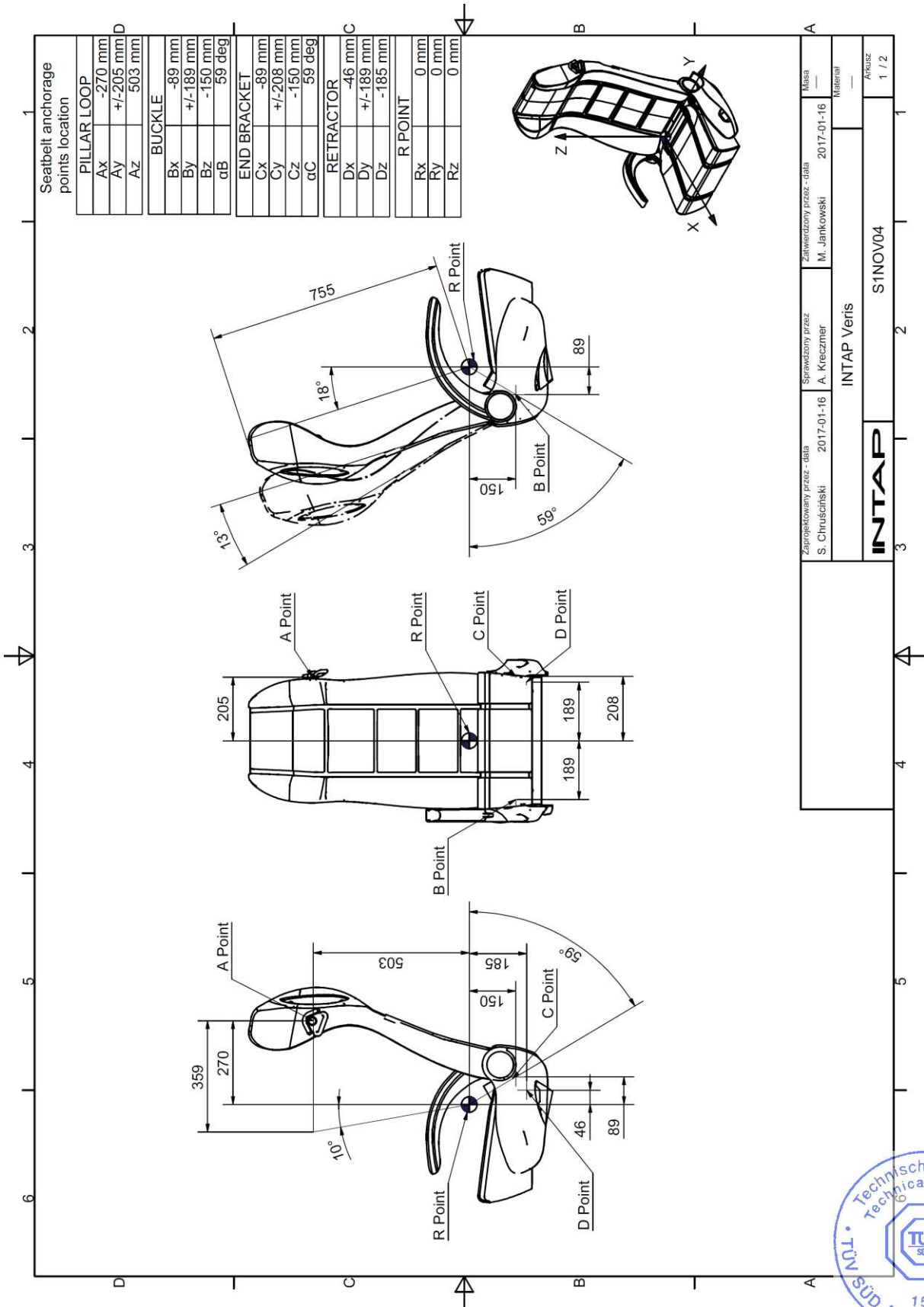




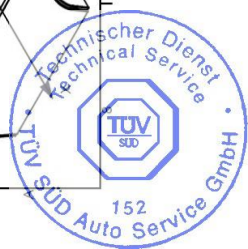
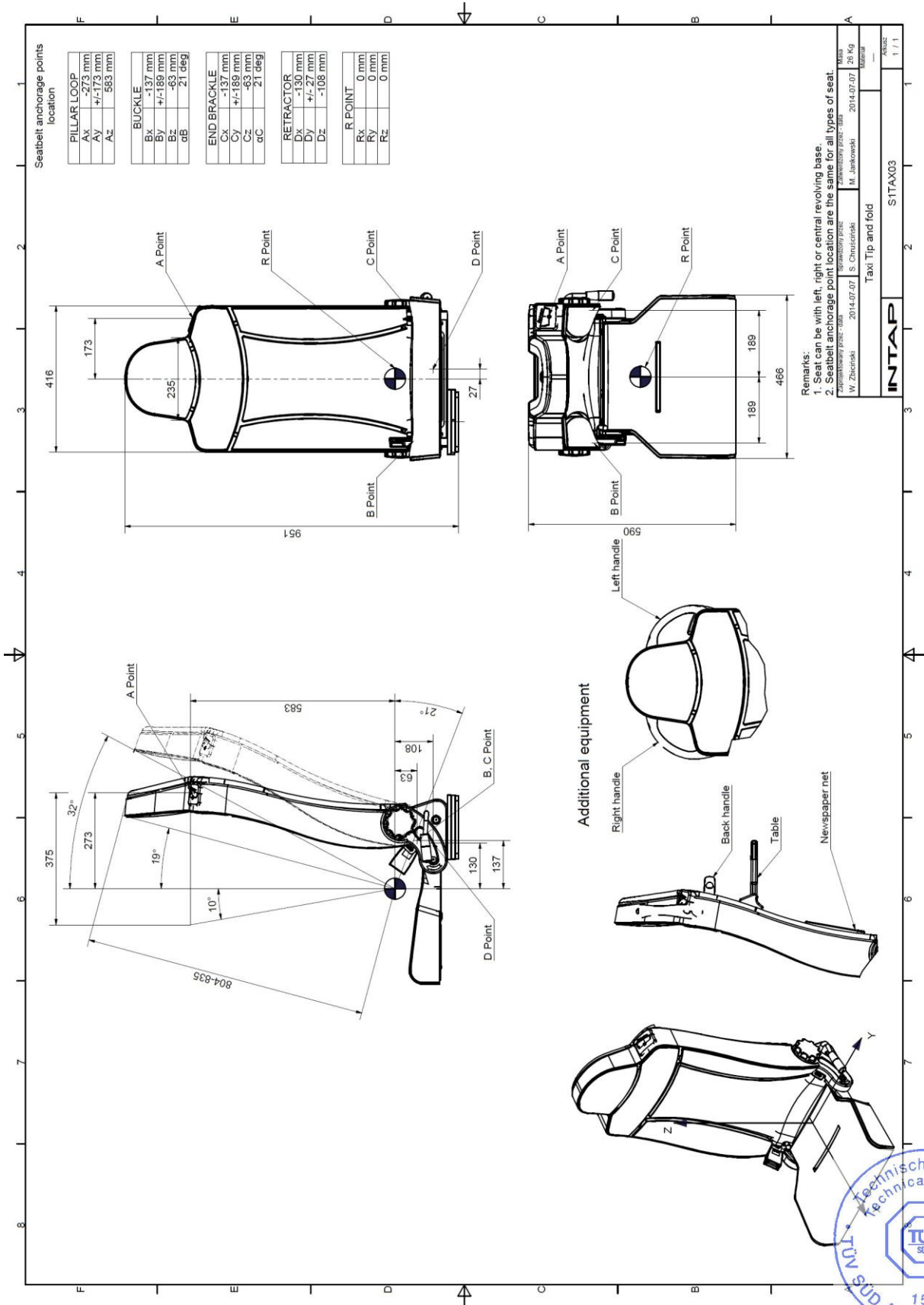


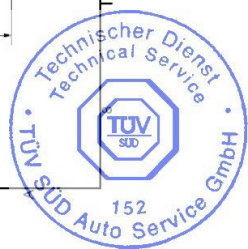
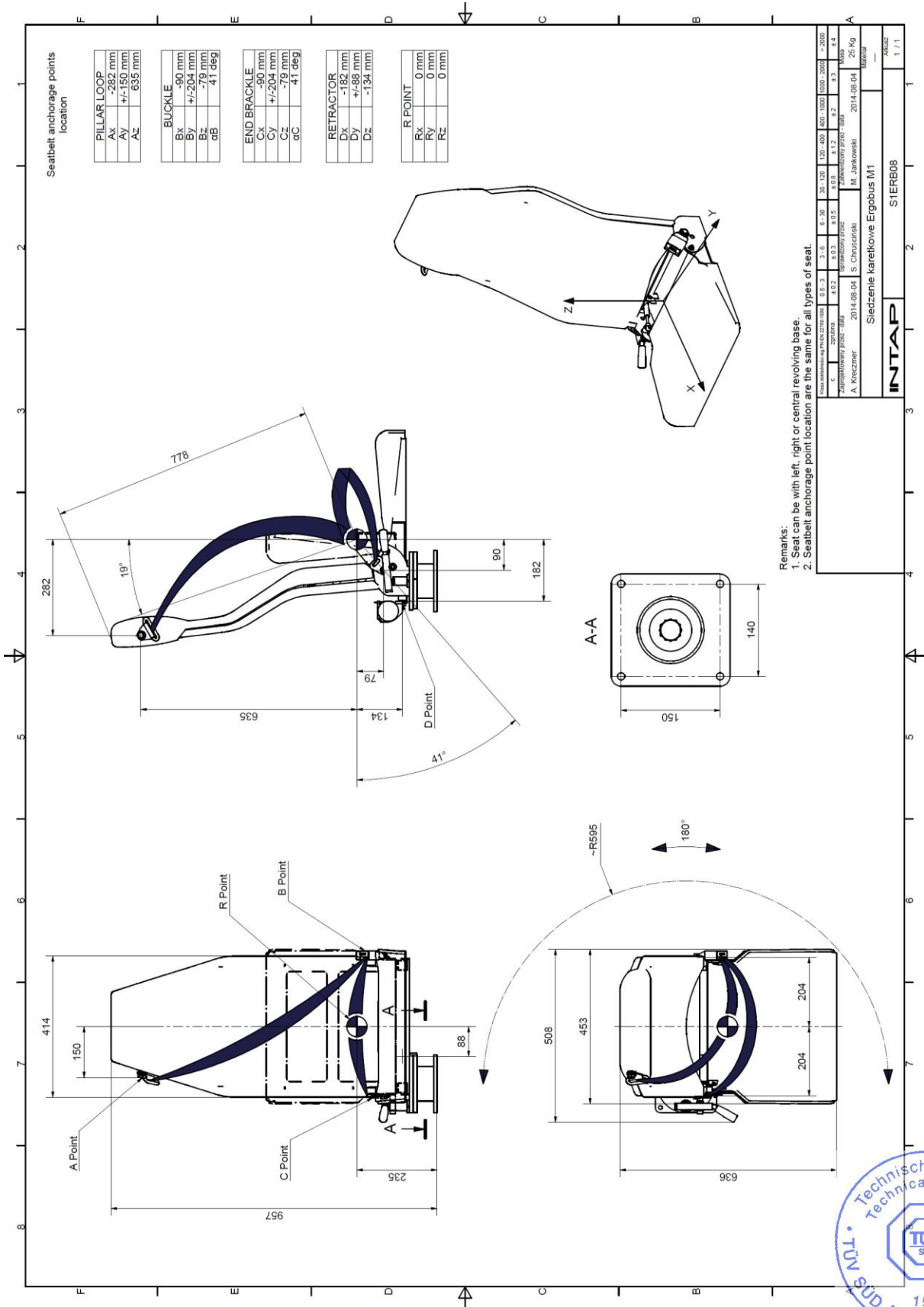


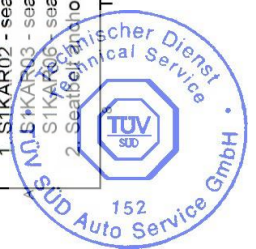
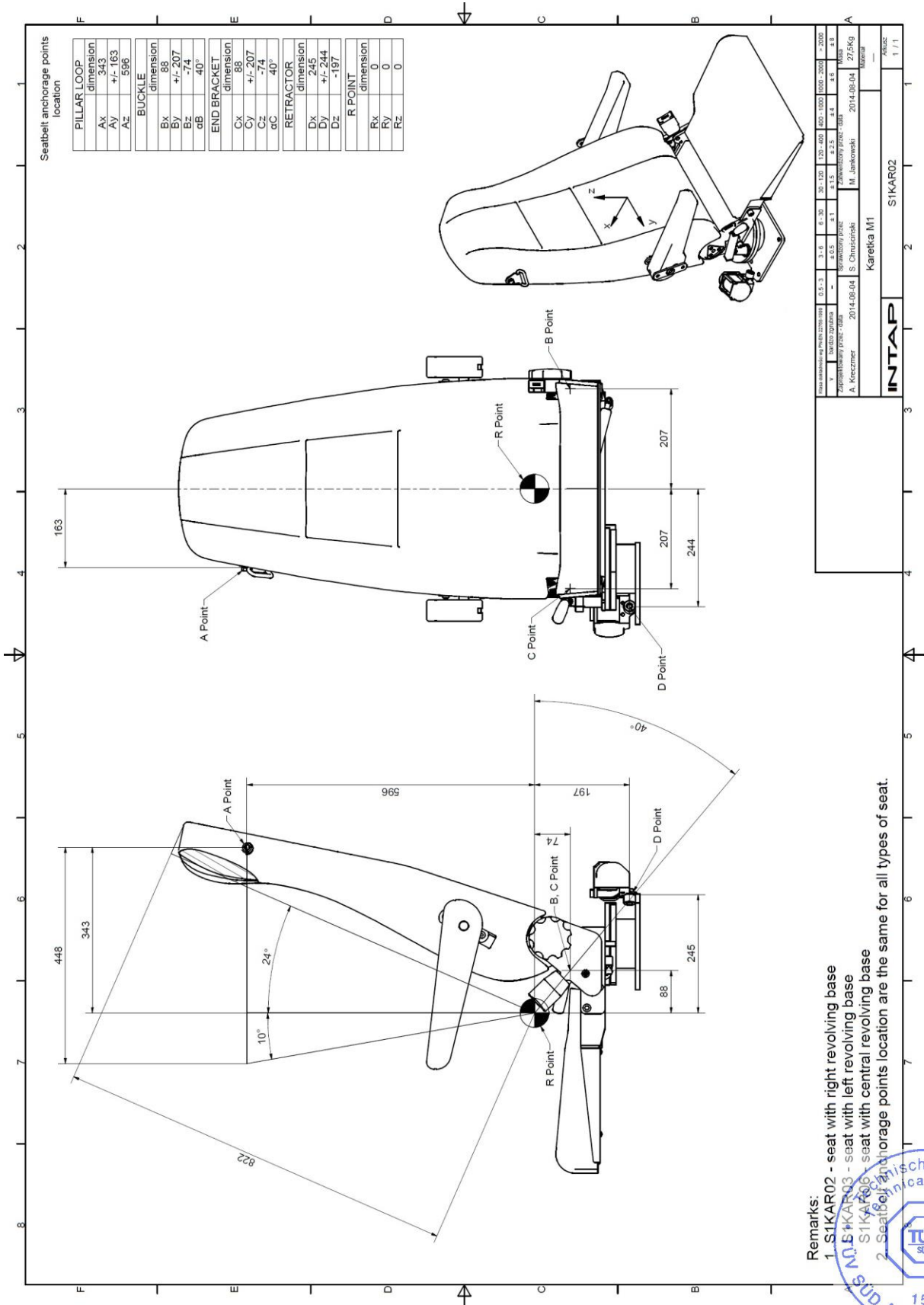


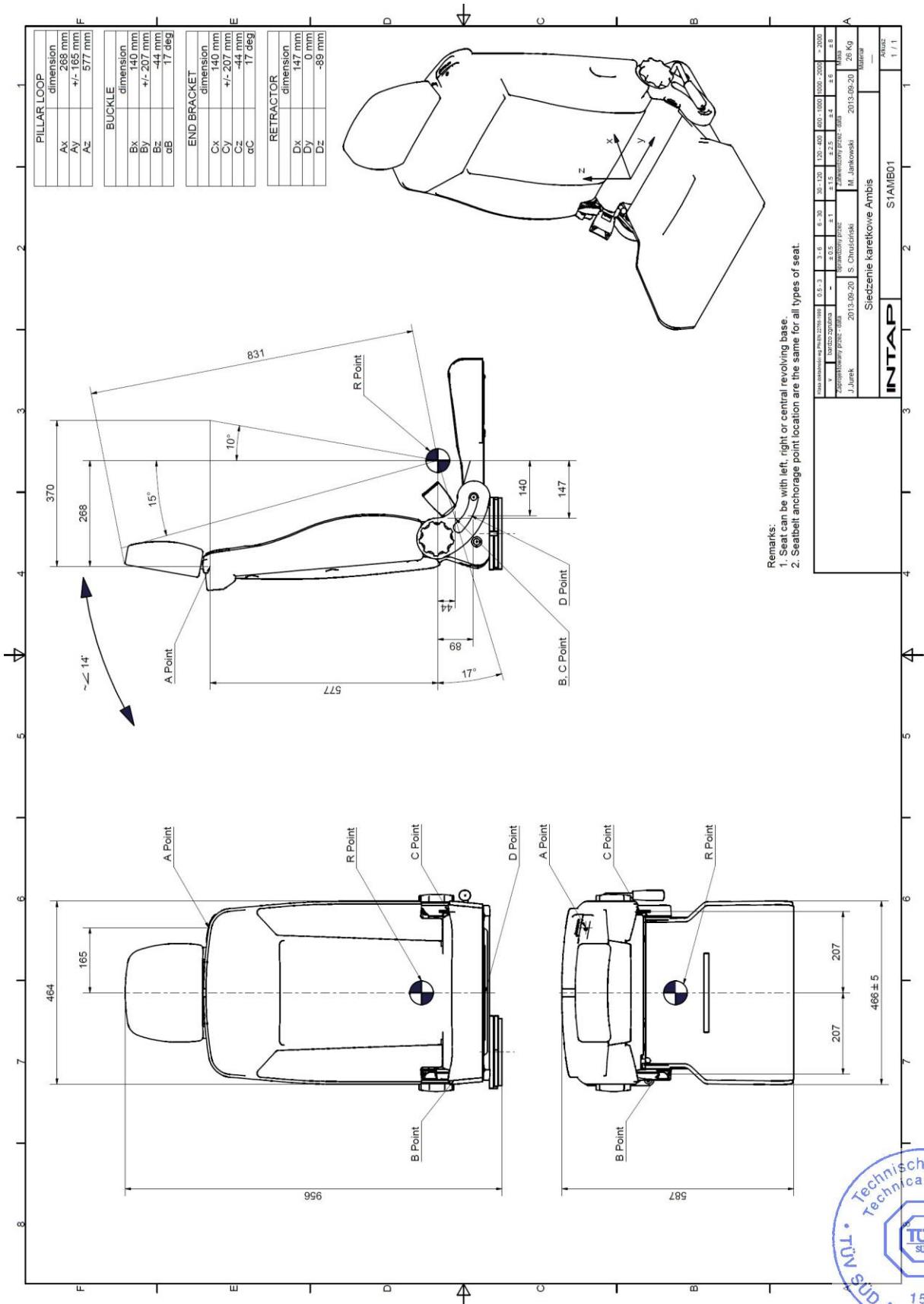




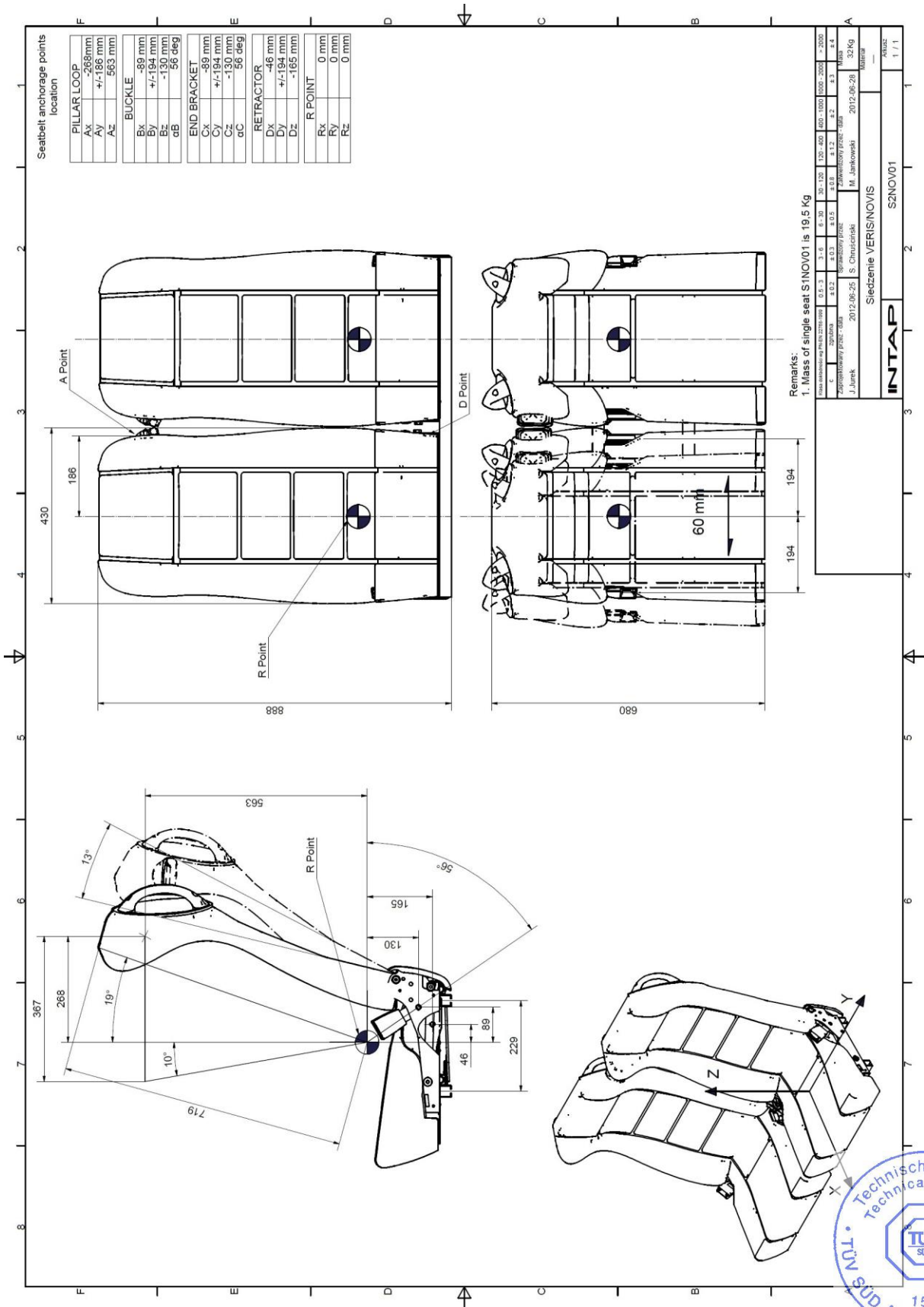


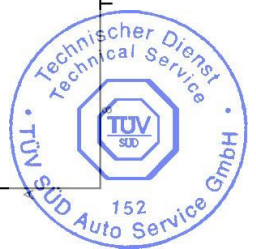
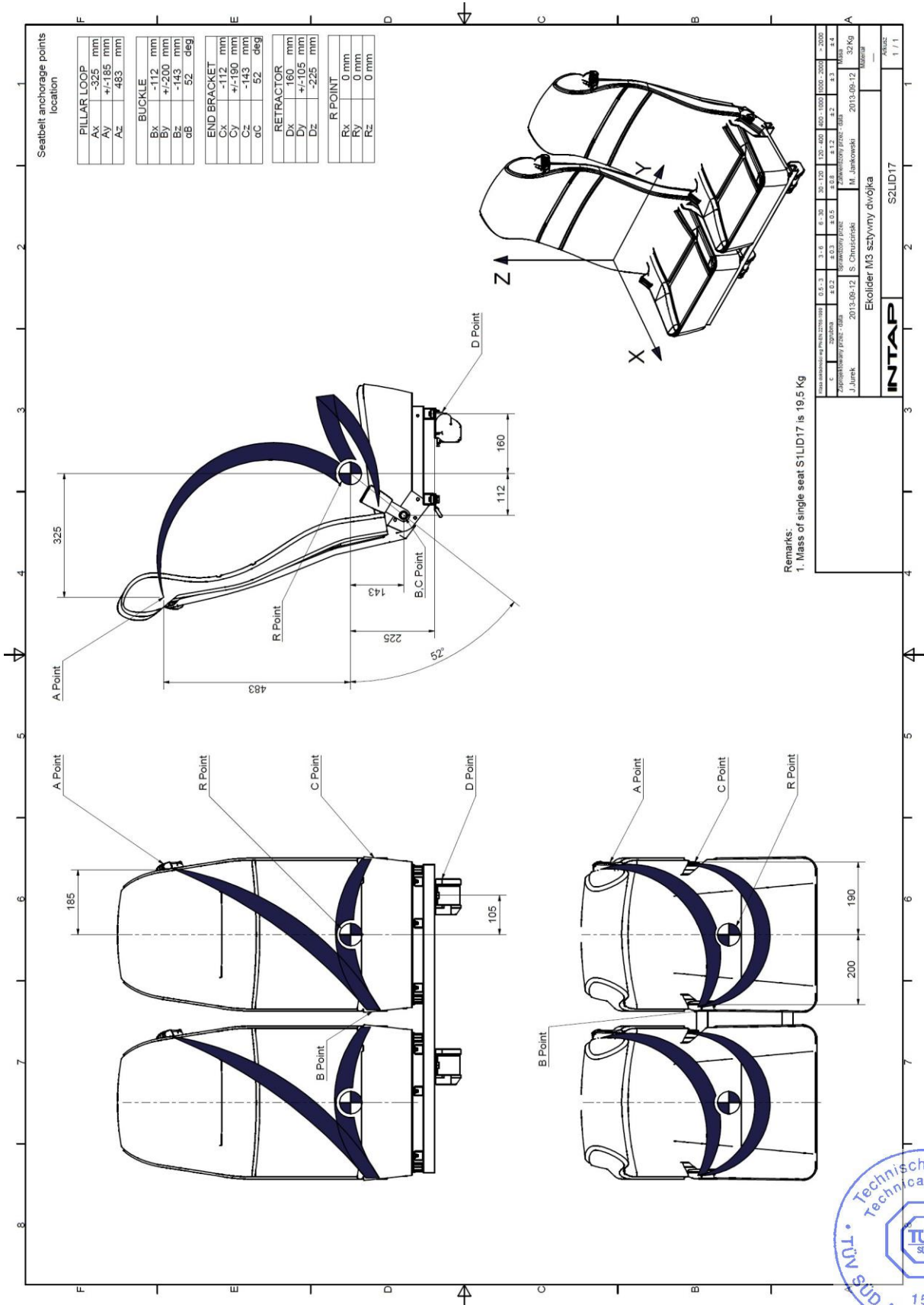


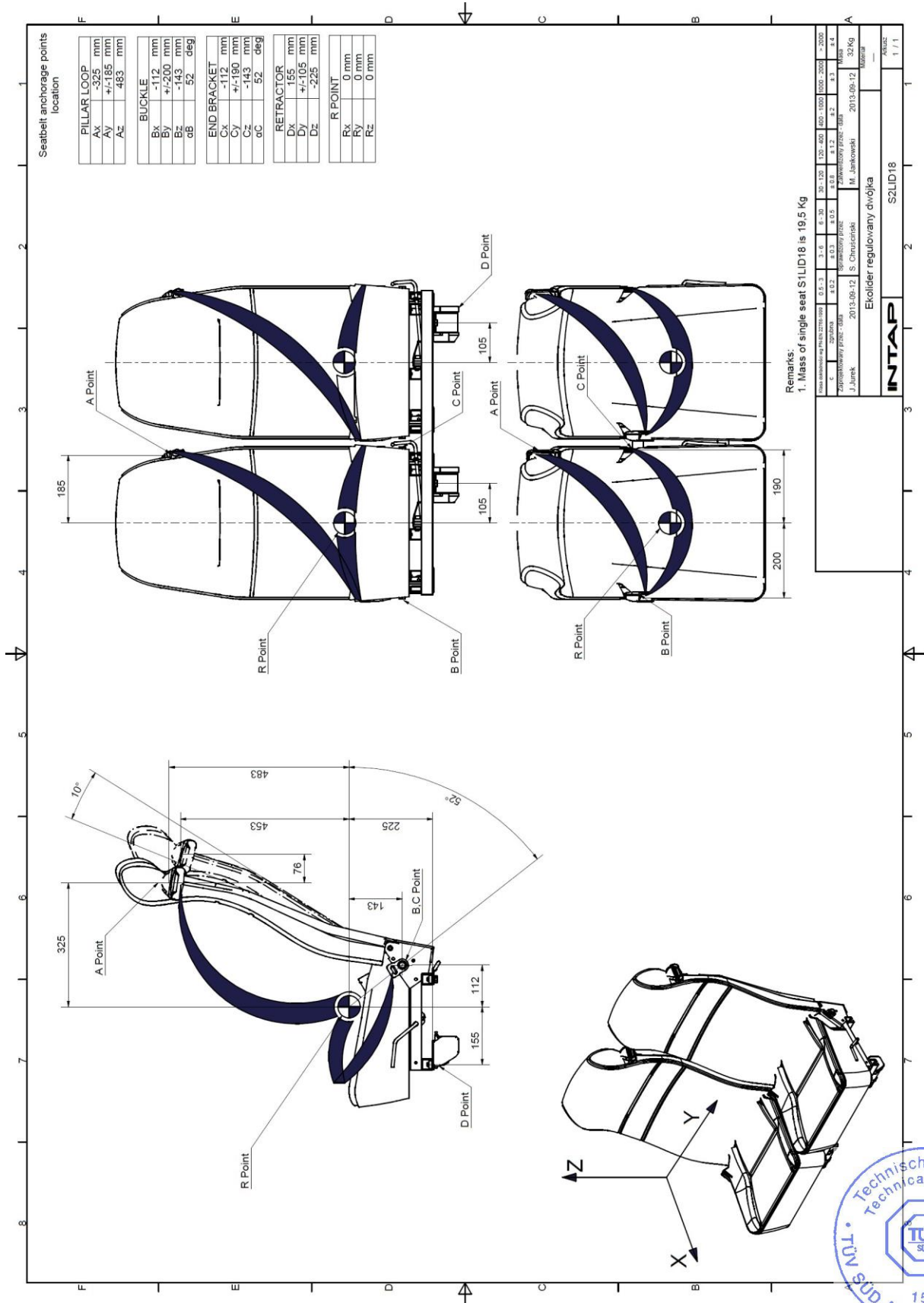


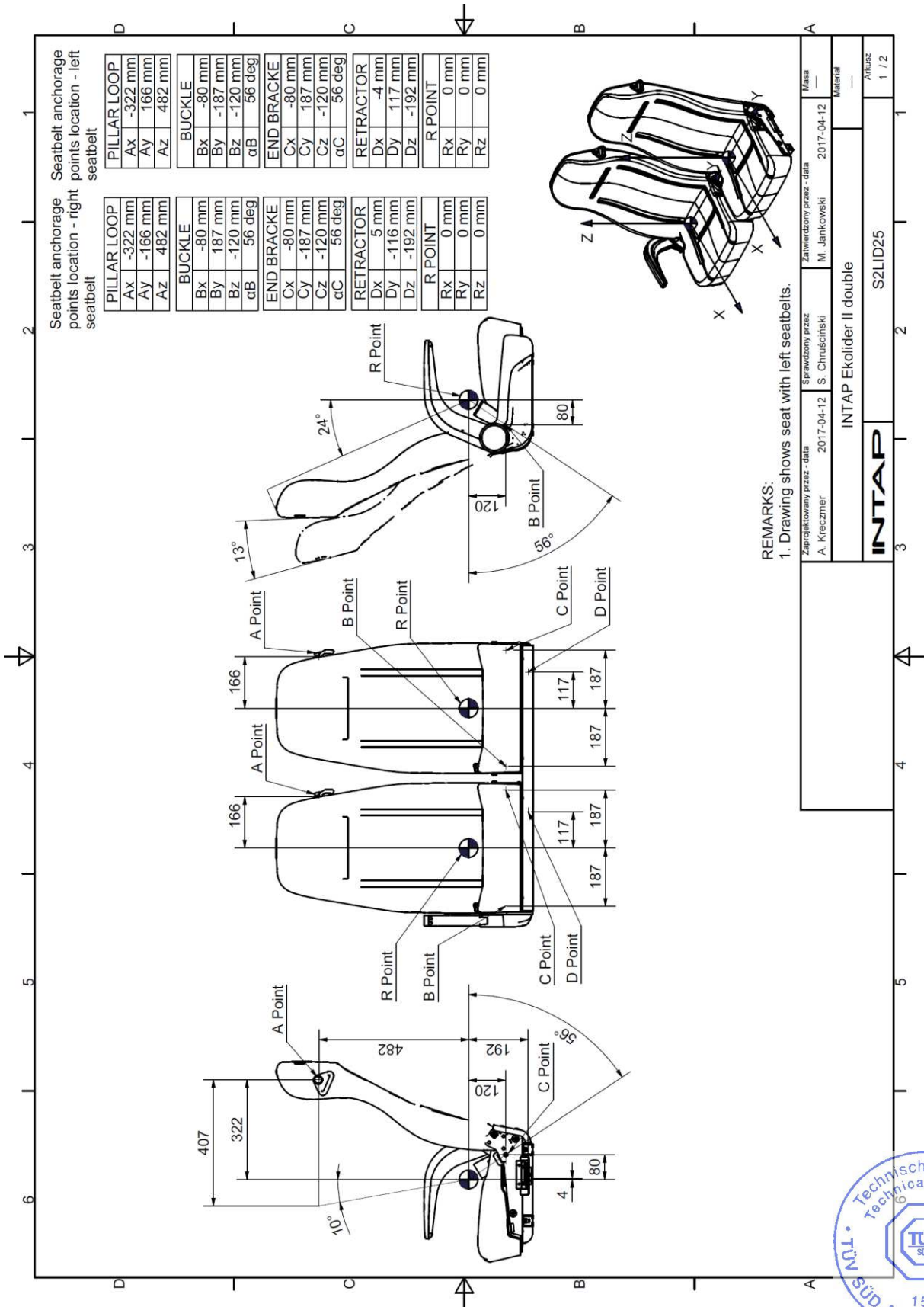




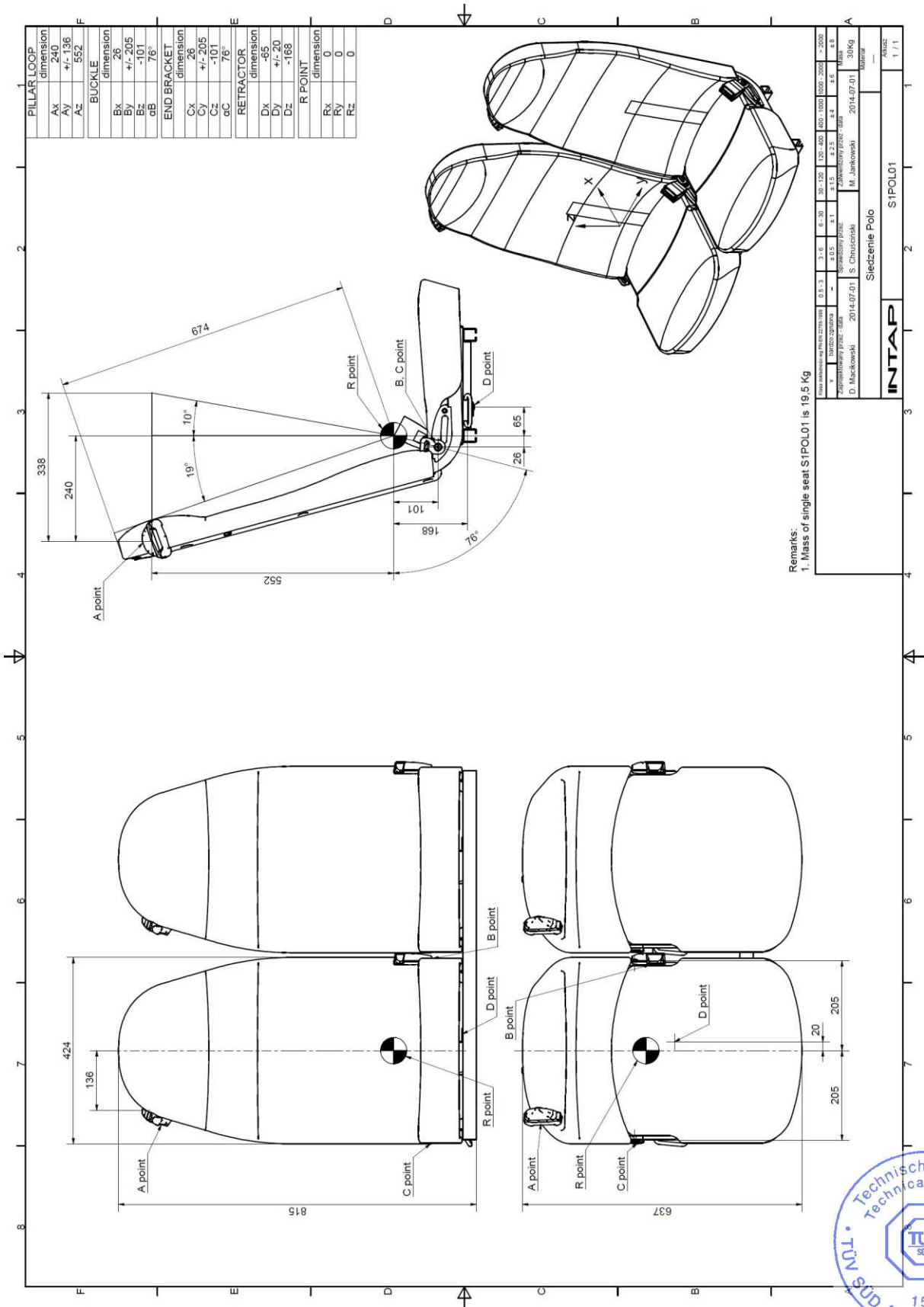




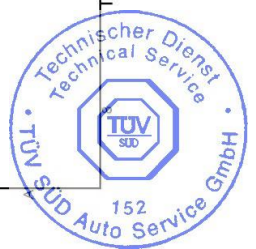


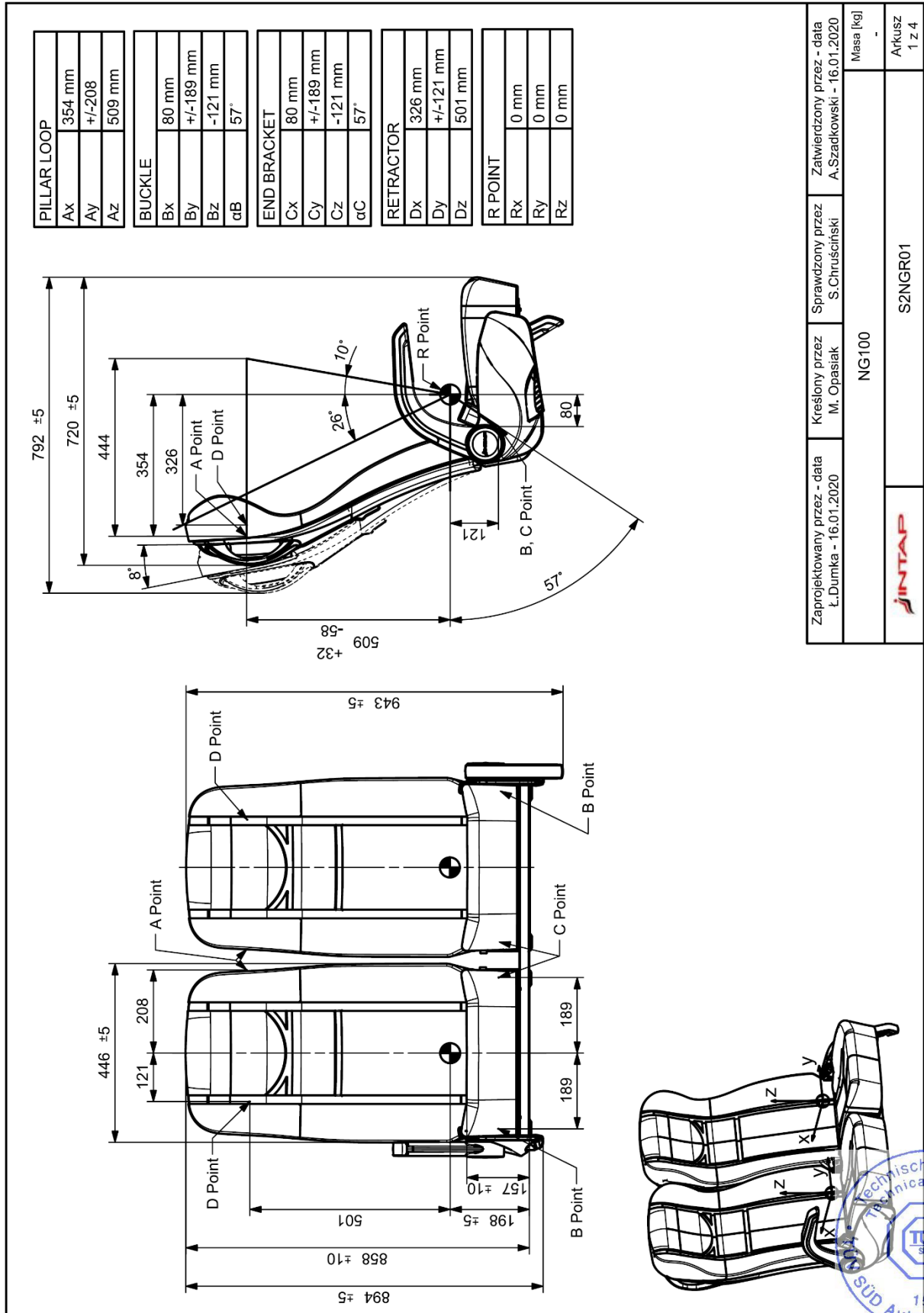


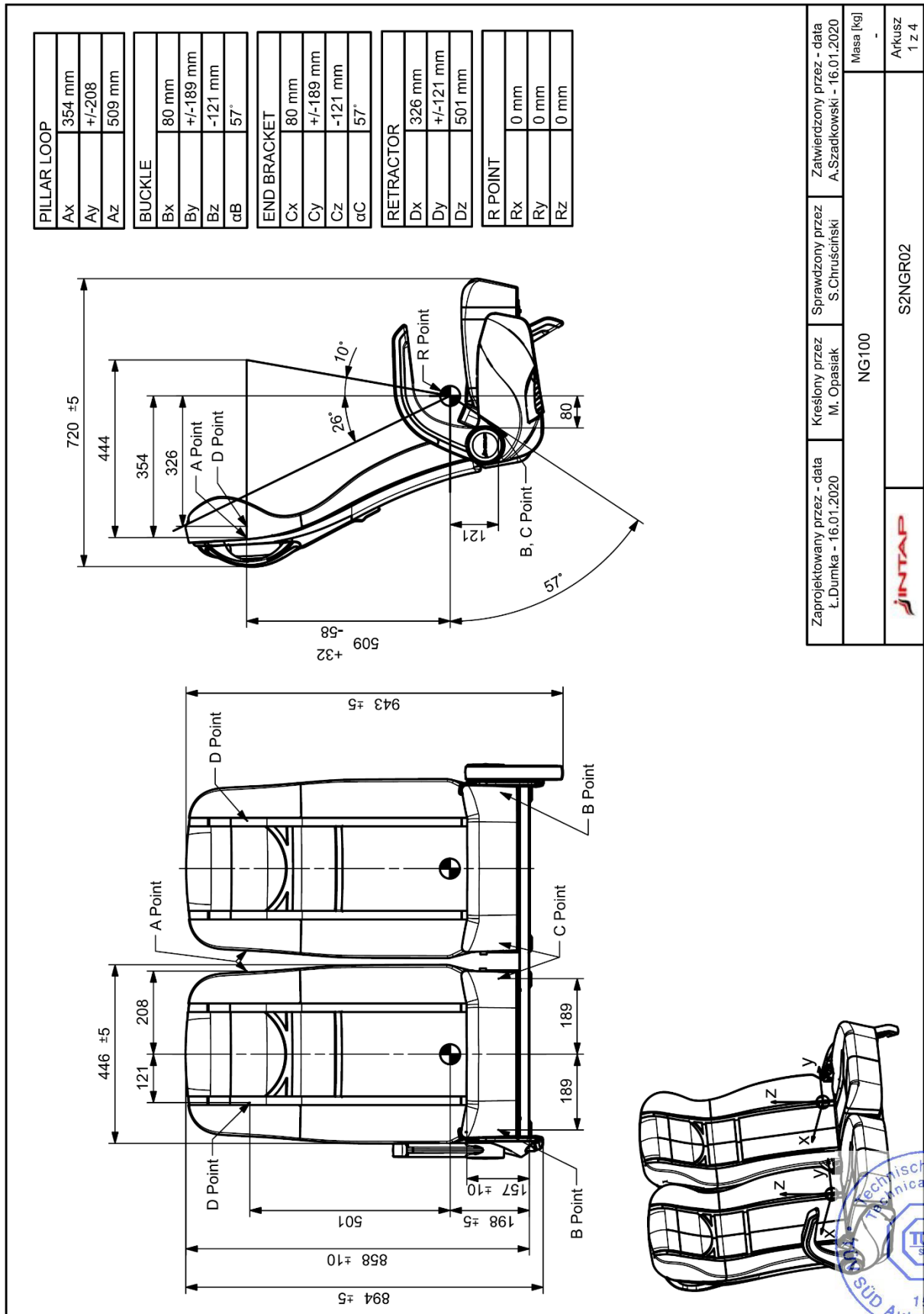




Remarks:  
1. Mass of single seat SIPOL01 is 19.5 Kg







4.3 Seats produced by:

BE-GE JANY A/S

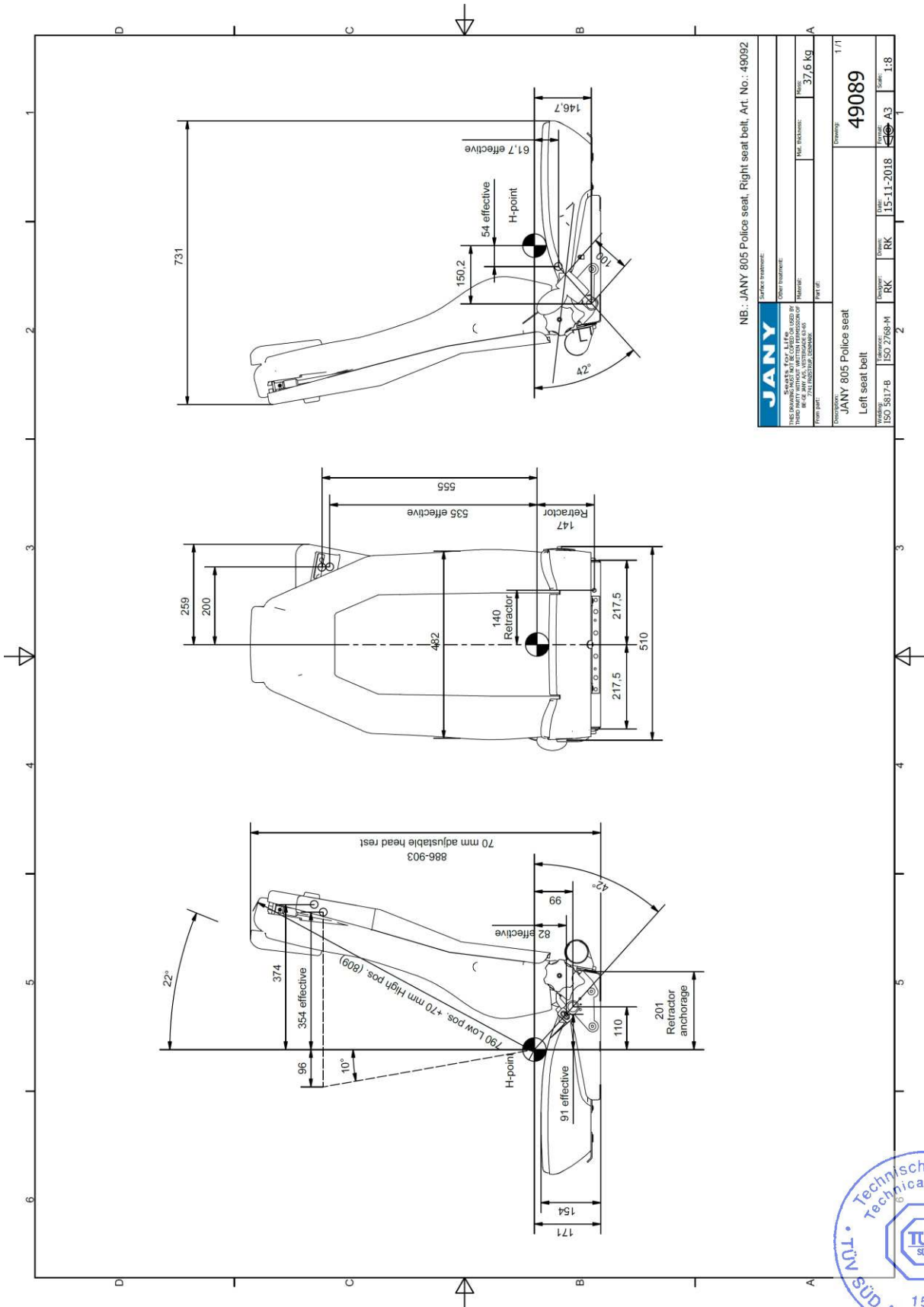
Vestergade 63-65

7741 FRØSTRUP, Denmark

Seat type	Legs and consoles	Category seats	Weight of maximum mass configuration
805 Police seat	Police seat leg assy 300 wensum type	M1/N1	31 kg
		M2/N2, M3/N3	31 kg



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4.4 Seats produced by:

Cogent Passenger Seating Ltd

Prydwen Road

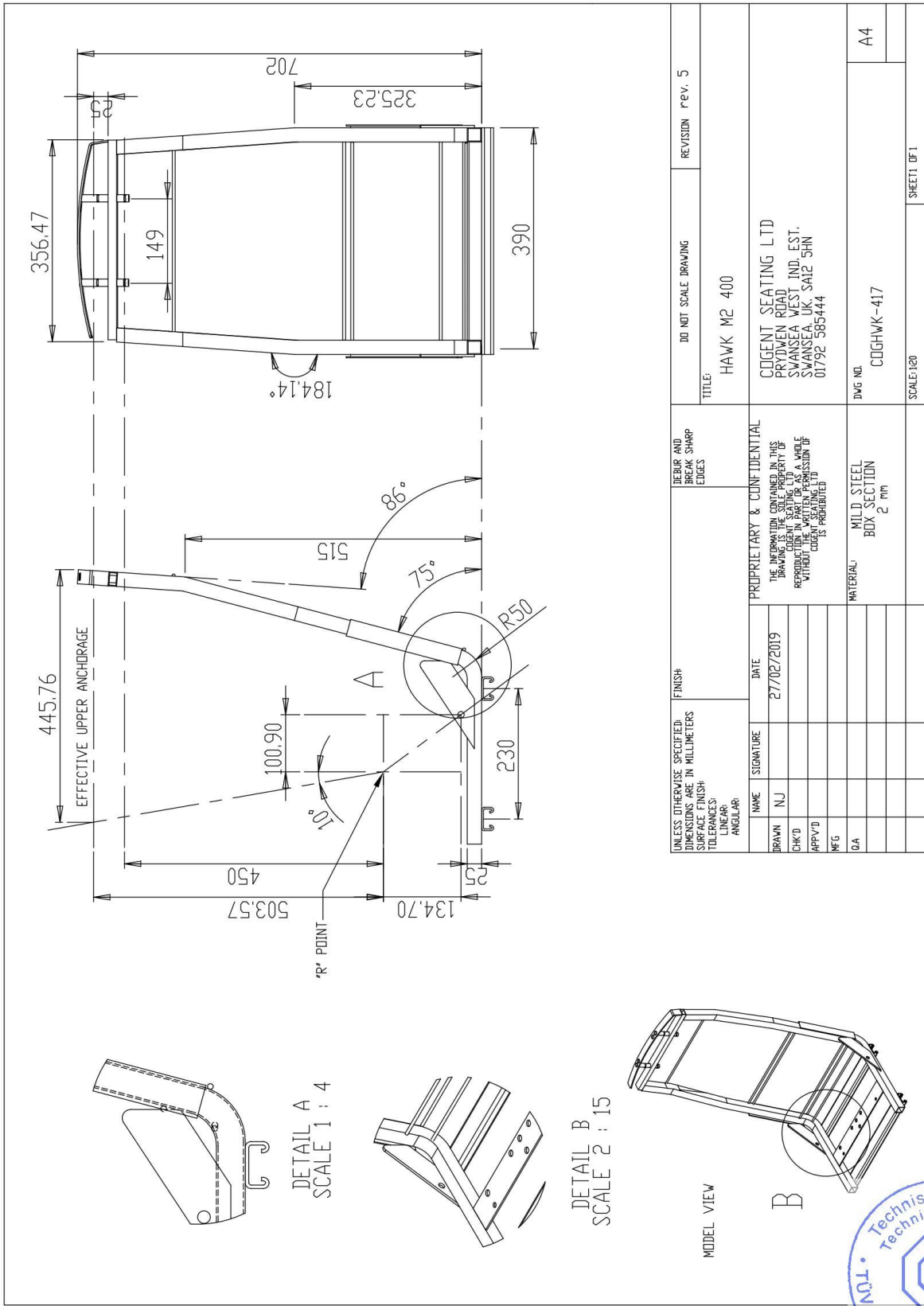
Swansea West Industrial Park, SA5 4HN, Great Britain

Seat type	Leg	Category seats	Weight of maximum mass configuration
COGHWK-417	Aero leg	M2/N2, M3/N3	17 kg
COGSLB-412	Millennium leg, Aero leg, Pi leg M2 M2	M2/N2, M3/N3	16 kg
COGKAS-571	Cogent leg, N-leg	M2/N2, M3/N3	13 kg

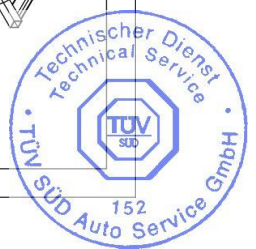


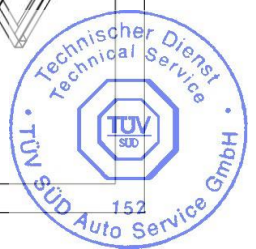
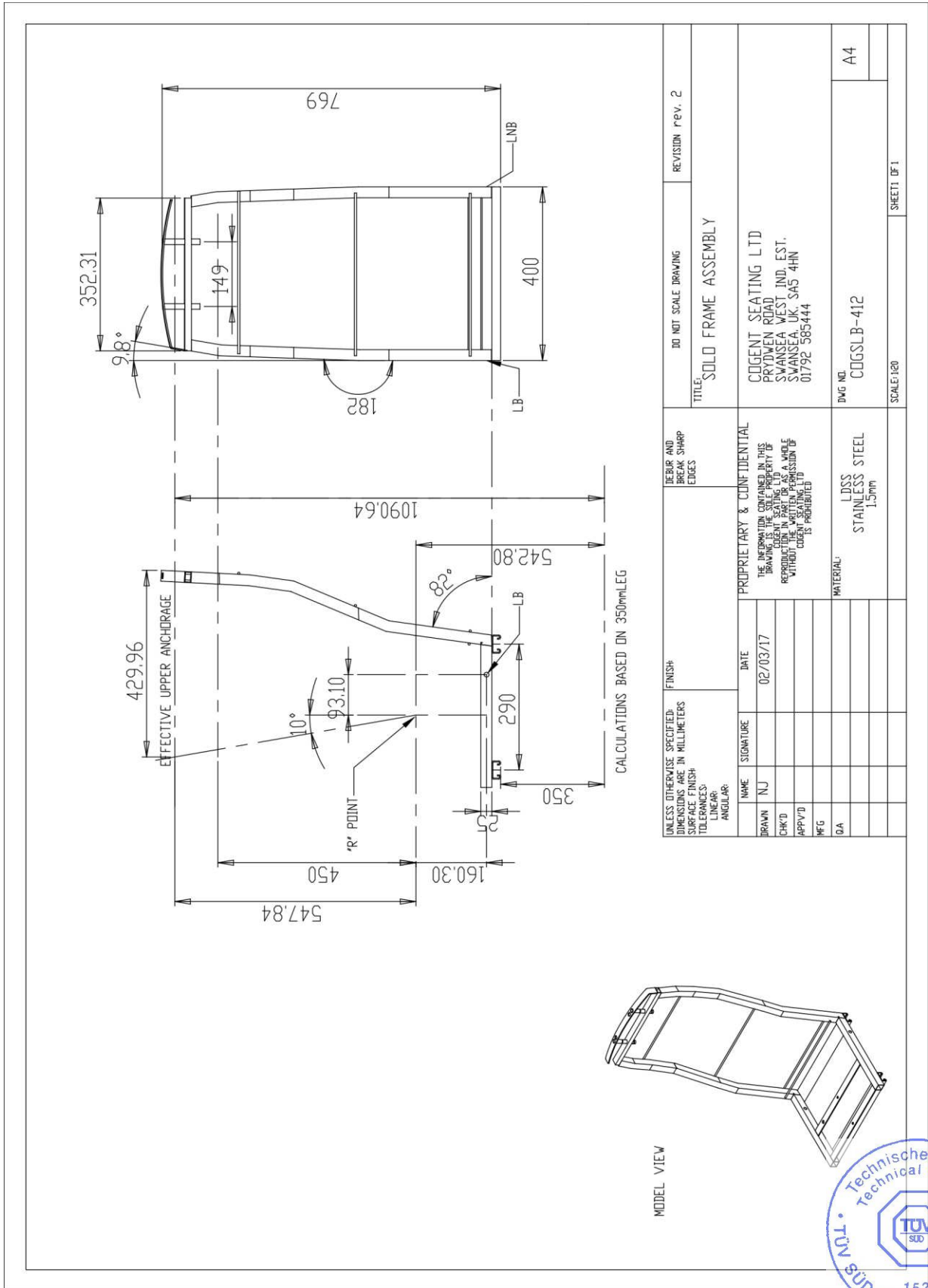
		Date: 20.05.2020
	LR-01/2020/00	Page / pages: 42/90



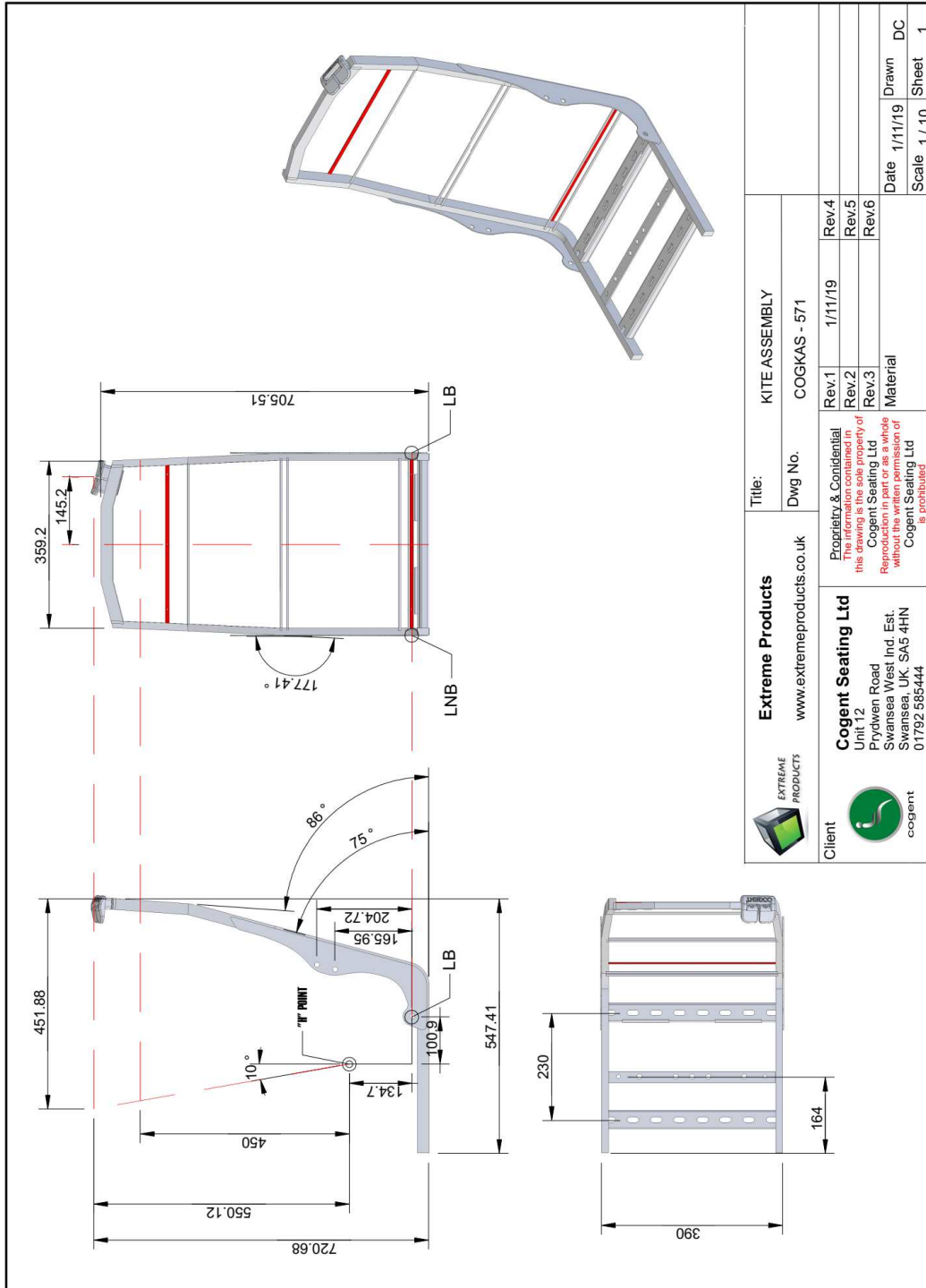


UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:		FINISH:	DATE:	TITLE:	
TEAR AND BREAK SHARP EDGES		PROPRIETARY & CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF COGENT SEATING LTD. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF COGENT SEATING LTD IS PROHIBITED	27/02/2019	HAWK M2 400	
NAME	SIGNATURE	DRAWN		DO NOT SCALE DRAWING	
NIJ		CHK'D		REVISION Pev. 5	
		APP'VD		COGENT SEATING LTD PRYDMEN ROAD SWANSEA WEST, IND. EST. SWANSEA, UK, SA12 5HN 01792 585444	
MEG		MFG		IMG NO.	
GA		QA		COGHWK-417	
		MATERIAL:		A4	
		MILD. STEEL BOX SECTION 2 mm		SCALE: 1:20	
		SHEET 1 OF 1			





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<b>Extreme Products</b> www.extremeproducts.co.uk	<b>Title:</b> KITE ASSEMBLY
<b>Client</b> Cogent Seating Ltd Unit 12 Prydwen Road Swansea West Ind. Est. Swansea, UK, SA5 4HN 01792 585444	<b>Dwg No.</b> COGKAS - 571
<b>Proprietary &amp; Confidential</b> The information contained in this drawing is the sole property of Cogent Seating Ltd. Reproduction in part or as a whole without the written permission of Cogent Seating Ltd is prohibited.	<b>Rev.1</b> 1/11/19 <b>Rev.2</b> <b>Rev.3</b> <b>Material</b>
<b>EXTREME PRODUCTS</b>	<b>Date</b> 1/11/19
<b>cogent</b>	<b>Scale</b> 1 / 10
	<b>Sheet</b> 1



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4.5 Seats produced by:

NMI Safety Systems Ltd.

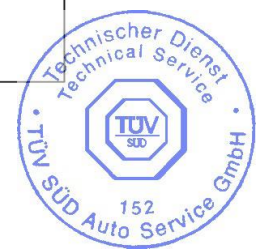
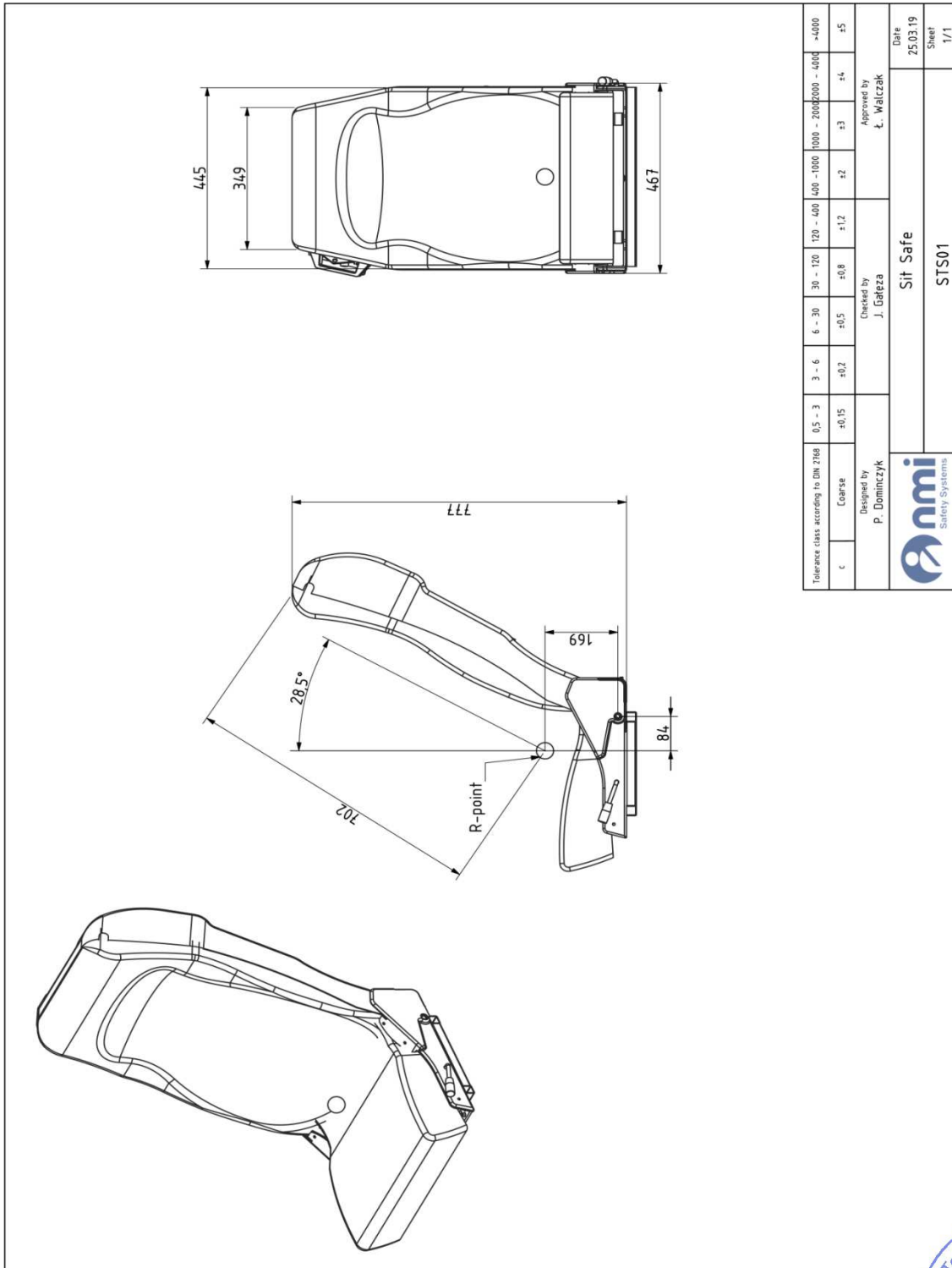
16 IO Centre, Arlington Business Park,

Whittle Way, Stevenage, Herts SG1 2BD, Great Britain

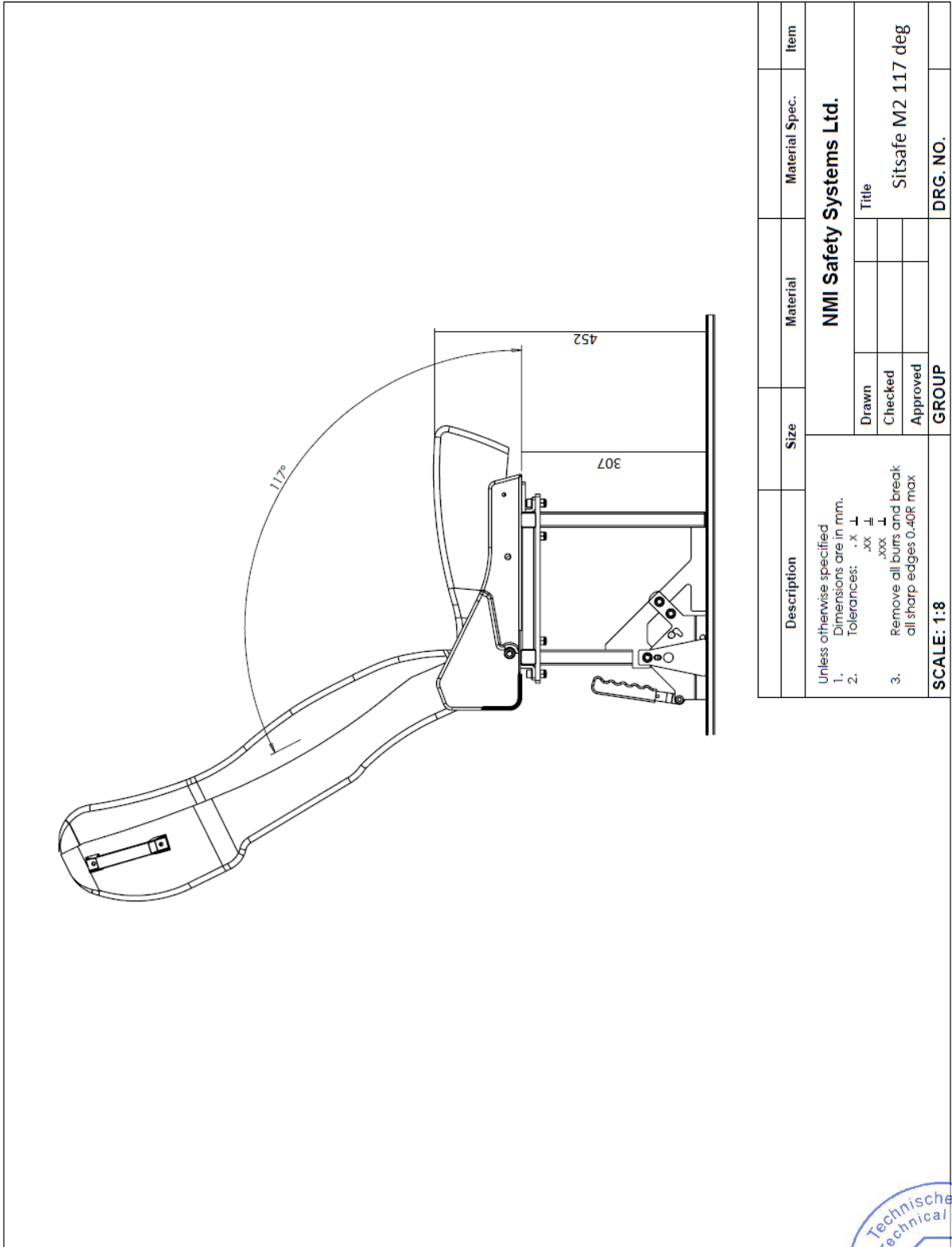
Seat type	Legs and consoles	Category seats	Weight of maximum mass configuration
SitSafe STS01	Millennium leg/N0AZM09	M2/N2, M3/N3	34 kg



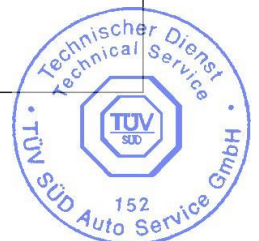
		Date: 20.05.2020
	LR-01/2020/00	Page / pages: 46/90



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Description	Size	Material	Material Spec.	Item
Unless otherwise specified 1. Dimensions are in mm. Tolerances: .x ± .xxx ± 3. Remove all burrs and break all sharp edges 0.40R max  <b>SCALE: 1:8</b>	Drawn	<b>NMI Safety Systems Ltd.</b>  Title Sitsafe M2 117 deg  DRG. NO.		
	Checked			
	Approved			
	<b>GROUP</b>			



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#### 4.6 Seats produced by:

SEGE TAŞIT KOLTUKLARI ve OTOMOTİV SAN ve TİC A.Ş.

Alaşar Köy Mah. 273. İsimsiz Sk. No: 24,

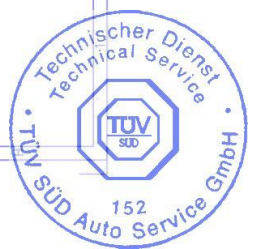
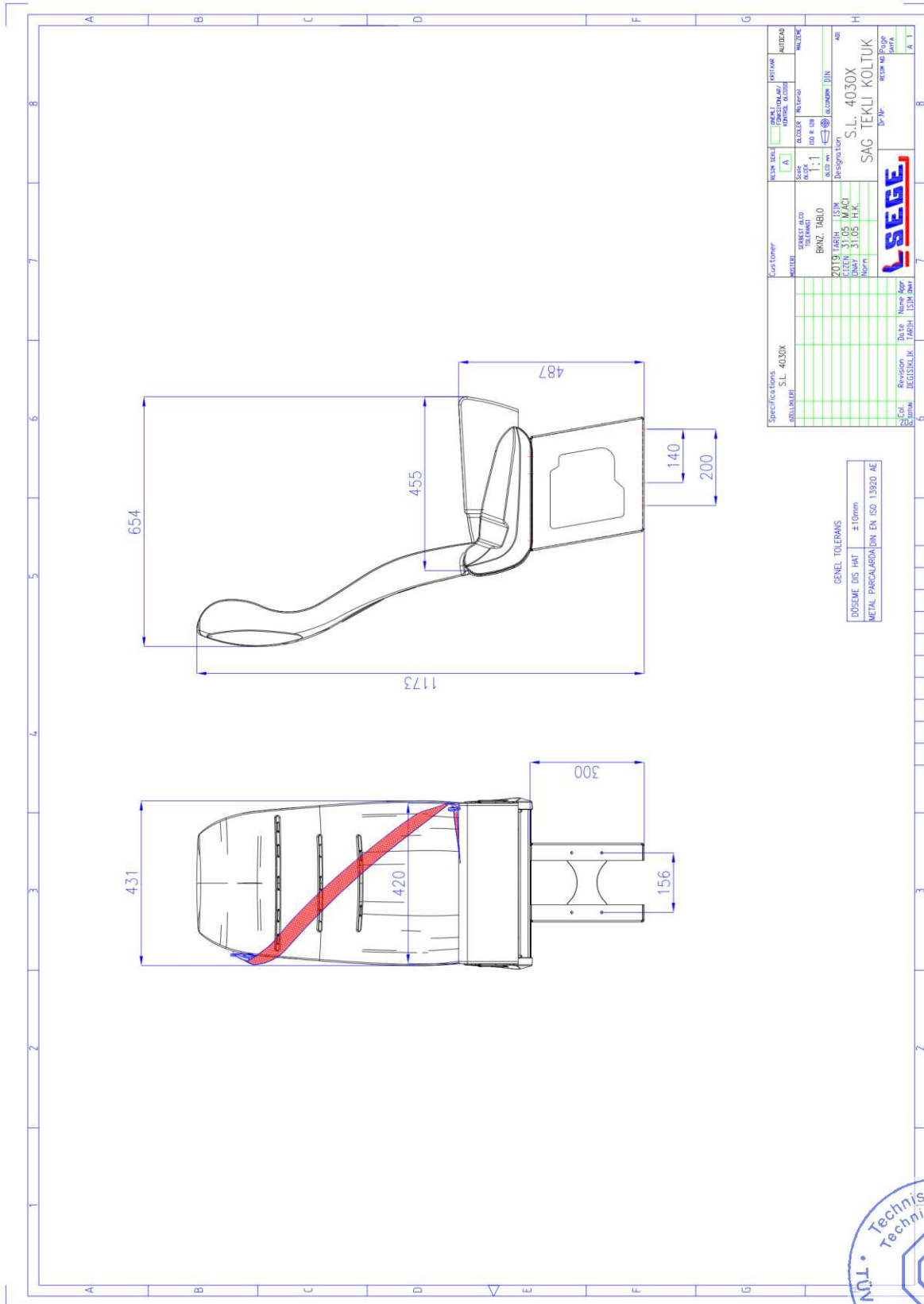
16370, Bursa, Turkey

Seat type	Leg	Category seats	Weight of maximum mass configuration
Smartline	Sege Kraft Leg, Millennium leg, V-leg, Pi leg M2	M2/N2, M3/N3	20 kg
Buscomfort	Sege Kraft Leg, Millennium leg, V-leg, Pi leg M2	M2/N2, M3/N3	22 kg



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#### 4.7 Seats produced by:

Phoenix Seating Limited

Unit 47, Bay 3, Second Avenue,

The Pensnett Estate,

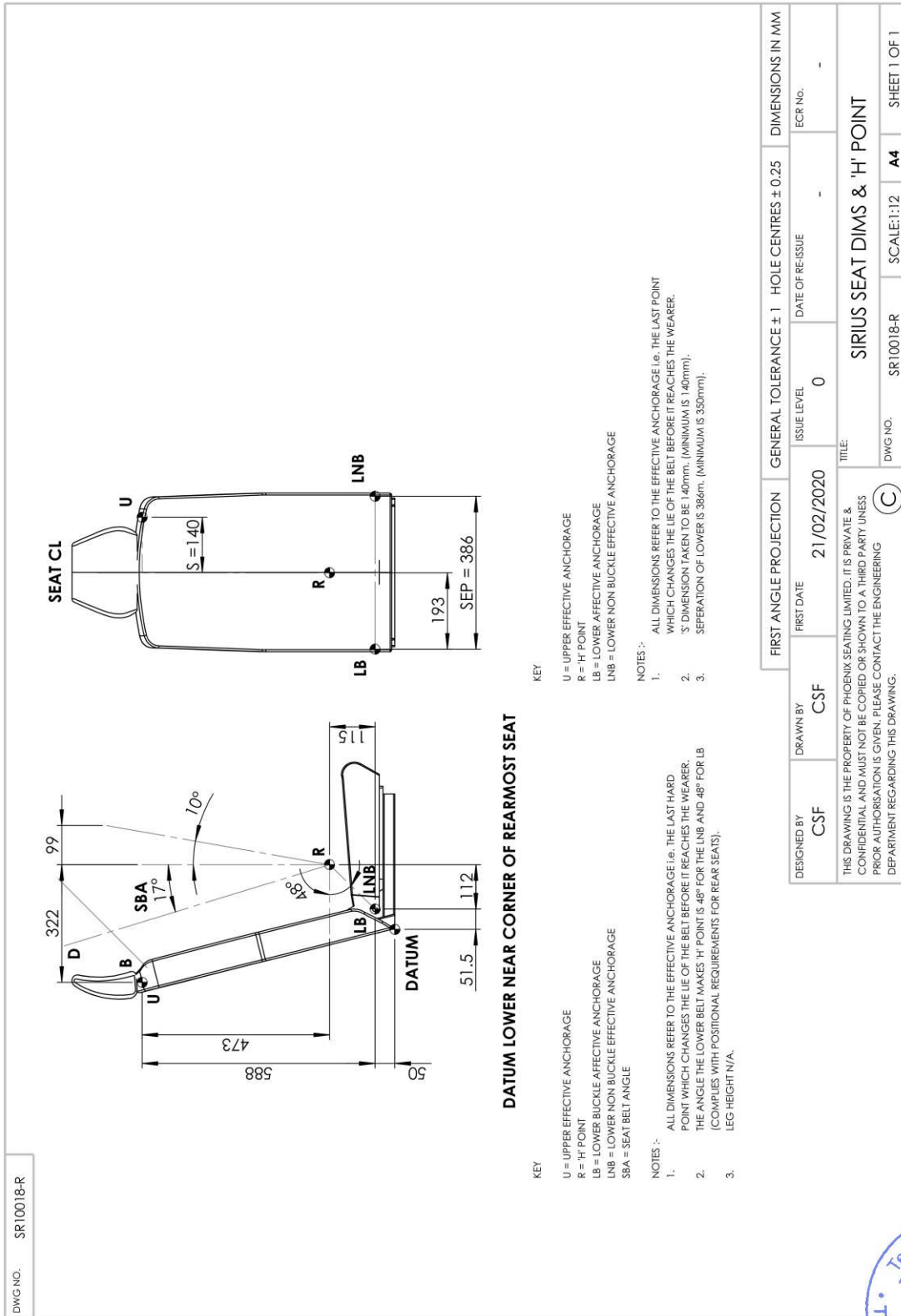
Kingswinford

West Midlands, DY6 7UZ, Great Britain

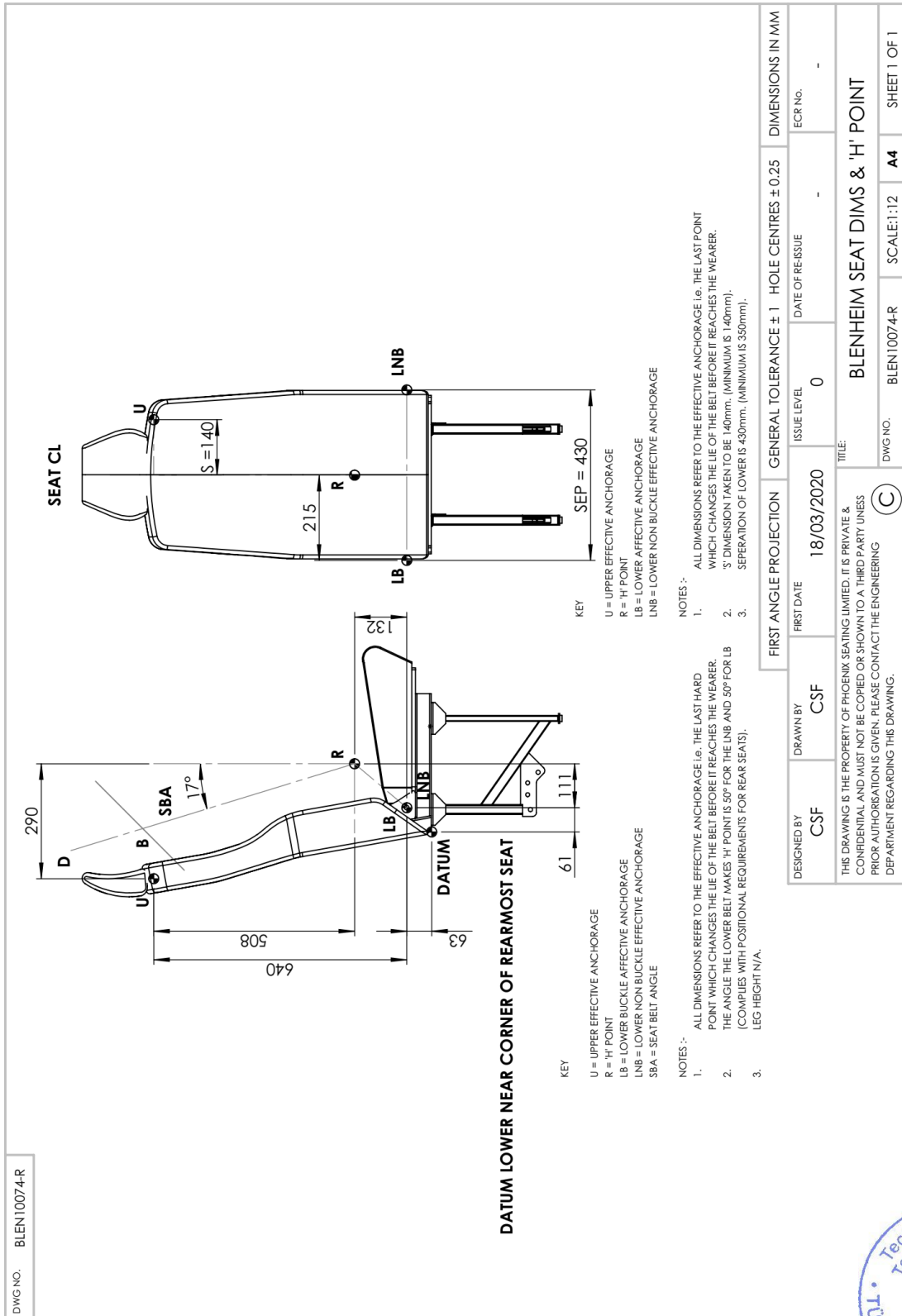
Seat type	Leg	Category seats	Weight of maximum mass configuration
Sirius	Millennium leg, V-leg, Sirius NMI leg, Pi leg M2	M2/N2, M3/N3	14 kg
Blenheim	Millennium leg, V-leg, Blenheim Light NMI leg, Pi leg M2	M2/N2, M3/N3	17 kg



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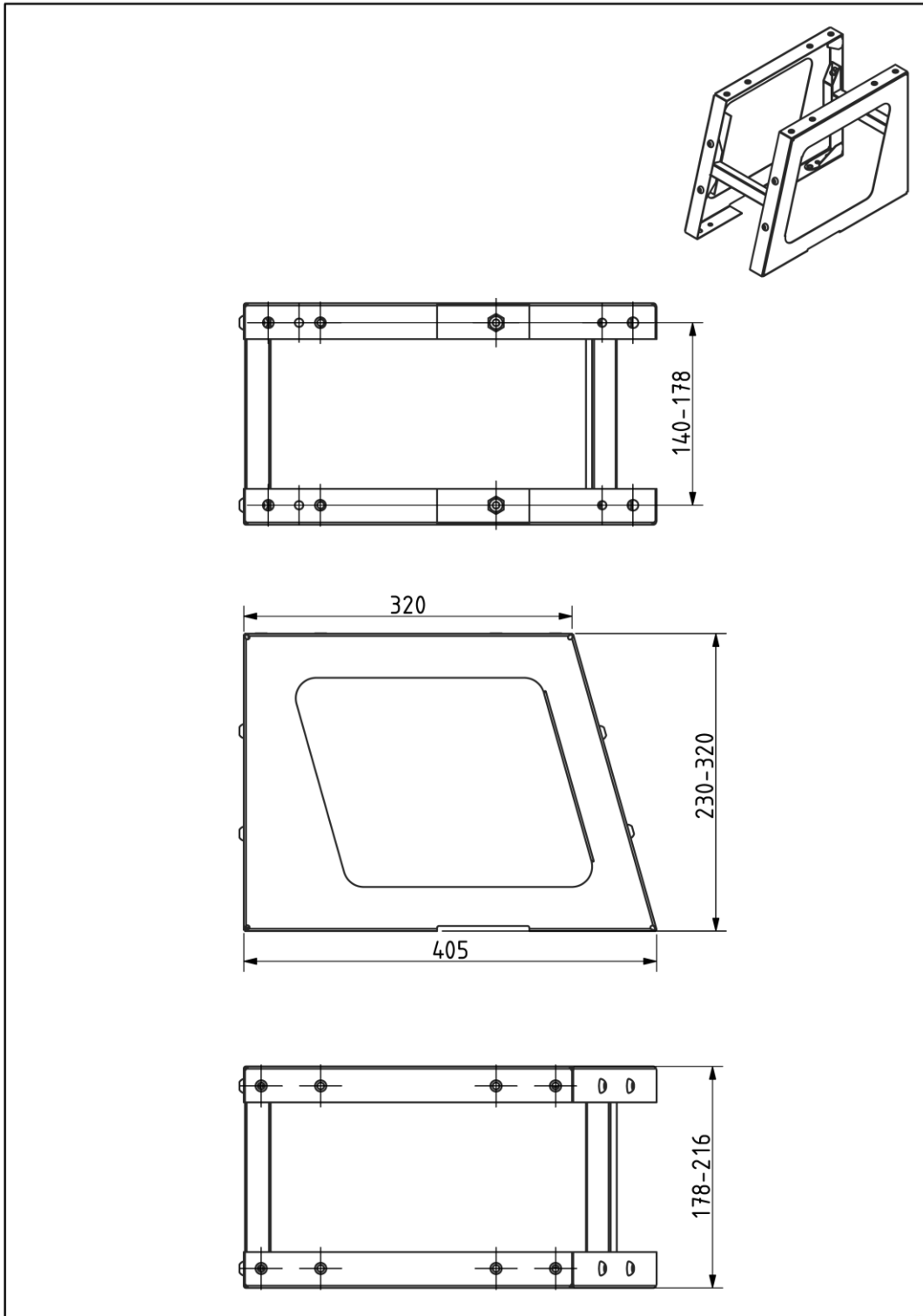
## Enclosure 5: DRAWINGS OF LEGS AND BASES


Leg/base type	Configuration	Mass of the heaviest configuration
Base V-leg	2	max 3,2 kg
V-leg single	1	max 1,3 kg
Base VR-leg	2	max 2,8 kg
VR-leg single	1	max 1,2 kg
A-leg	1	max 8,0 kg
N0AZM06	1	2,5 kg
N0AZM09	1	4,1 kg
N0BLS10	1	3,0 kg
N0BLS15	1	2,1 kg
N0BLS17	1	2,1 kg
Police seat leg assy 300 wensum type	2	8,0 kg
Aero leg	2	max 7,0 kg
Millennium leg	1	3,0 kg
Sege Kraft leg	1	2,75 kg
Cogent leg	1	2,5 kg
Sirius NMI leg	1	2,5 kg
Blenheim Light NMI leg	1	2,5 kg
Pi leg M2 M2	1	2,8 kg

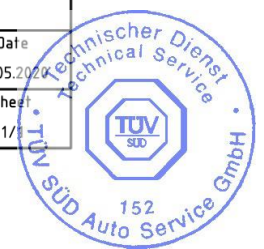
- 1 – single leg  
2 – double leg or console



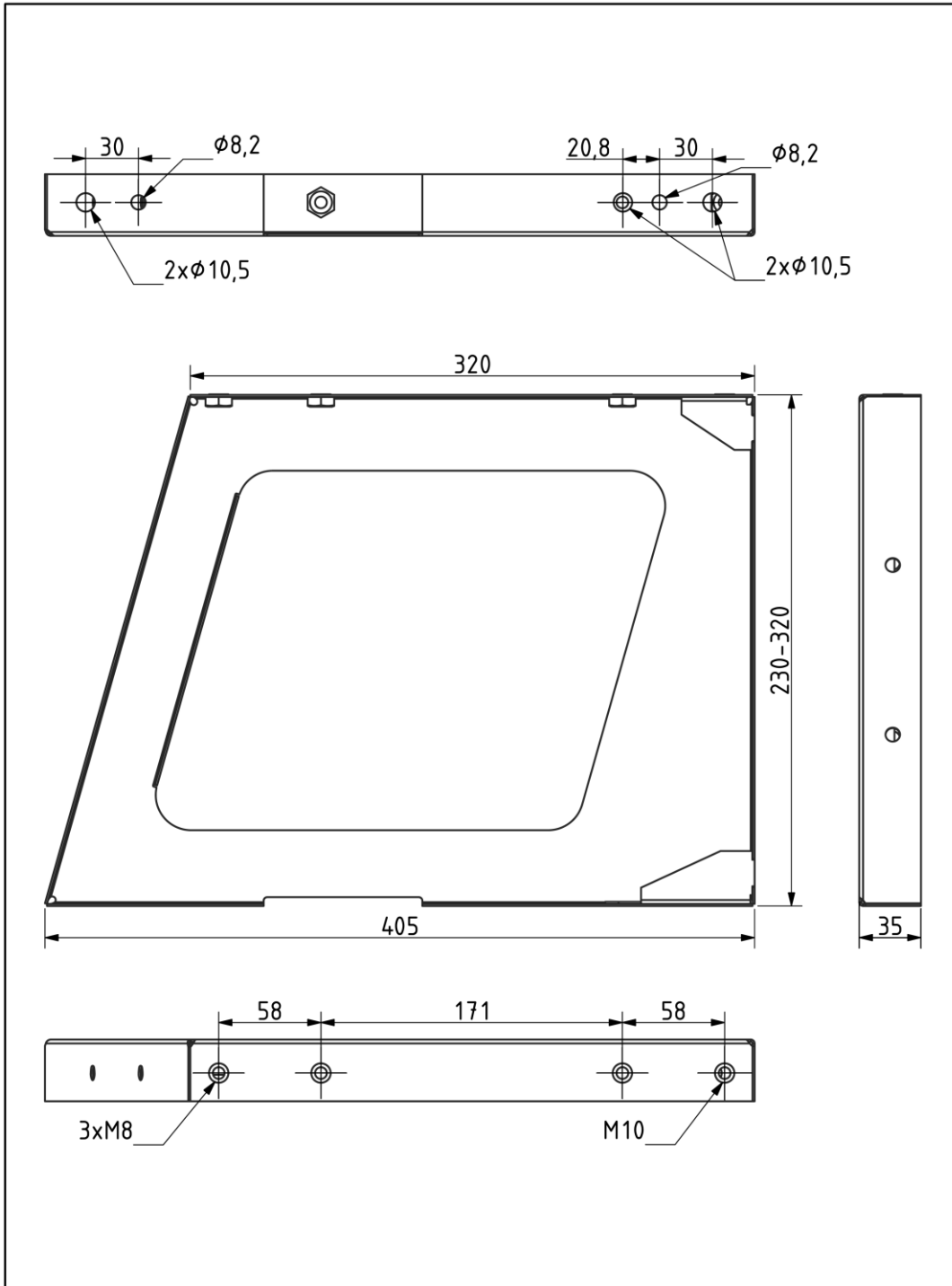
	Date: 20.05.2020
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	Base V-leg	Date 20.05.2020
		Sheet 1/1

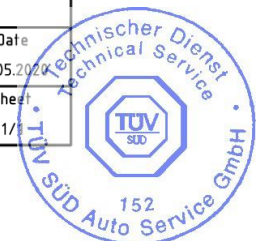


		Date: 20.05.2020
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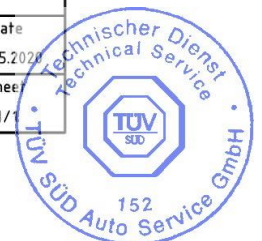
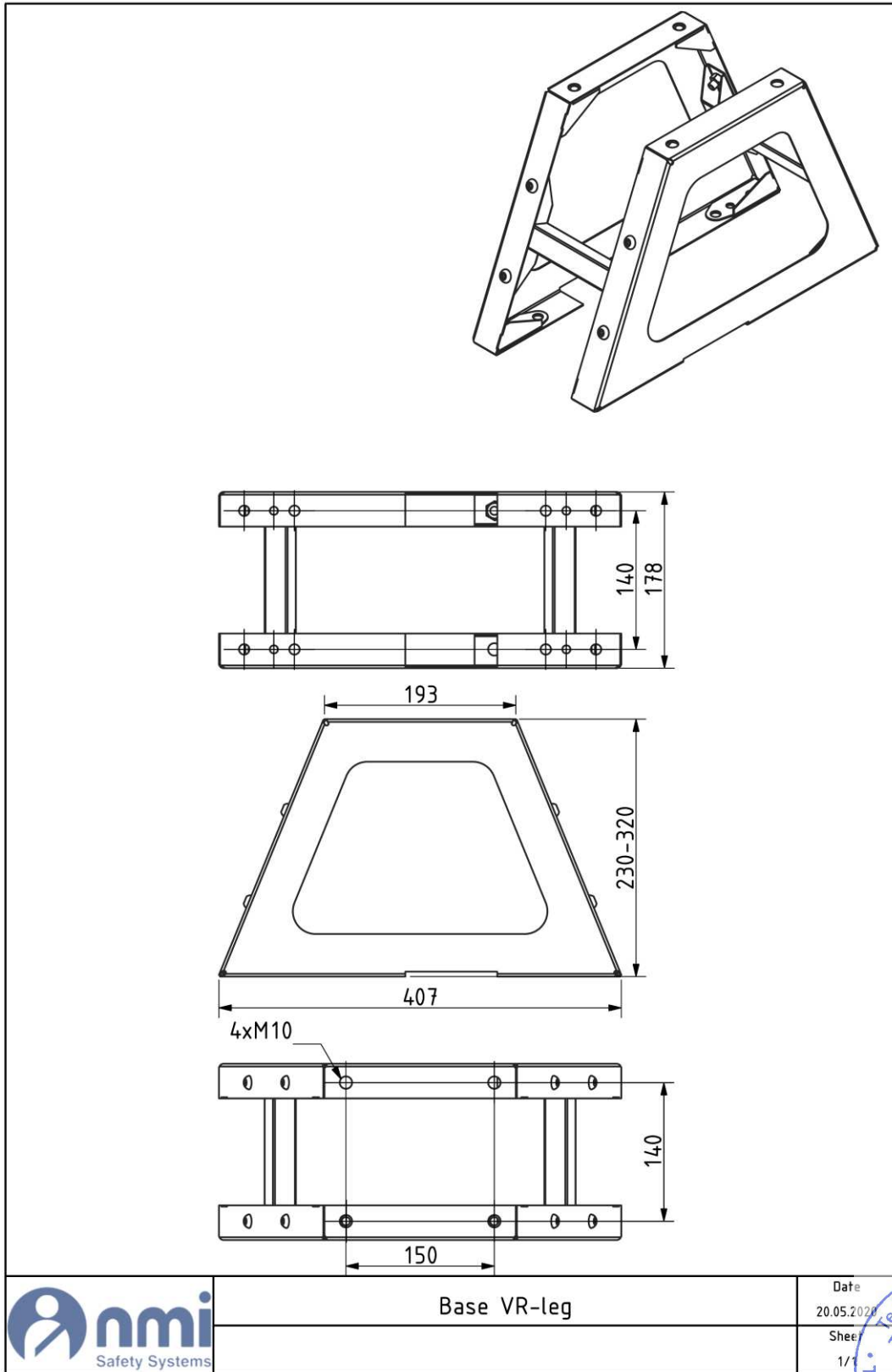


Remarks:  
 1. For left version of leg main dimensions are the same.

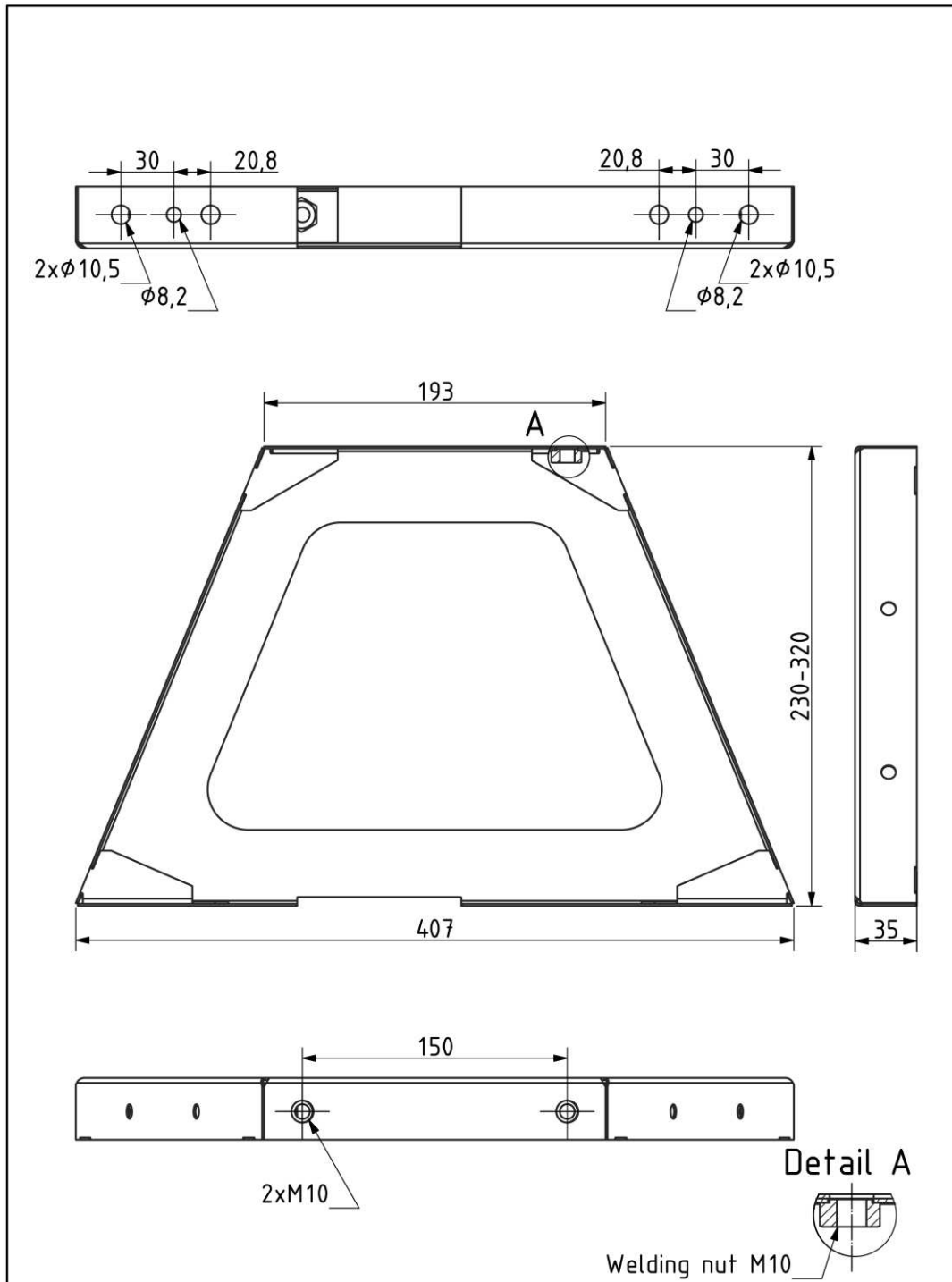
	V-leg Single	Date 20.05.2020
		Sheet 1/1



		Date: 20.05.2020
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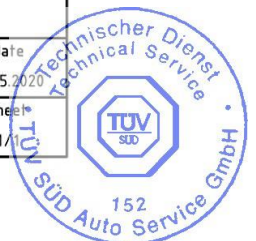
		Date: 20.05.2020
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Remarks:

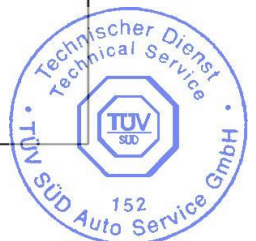
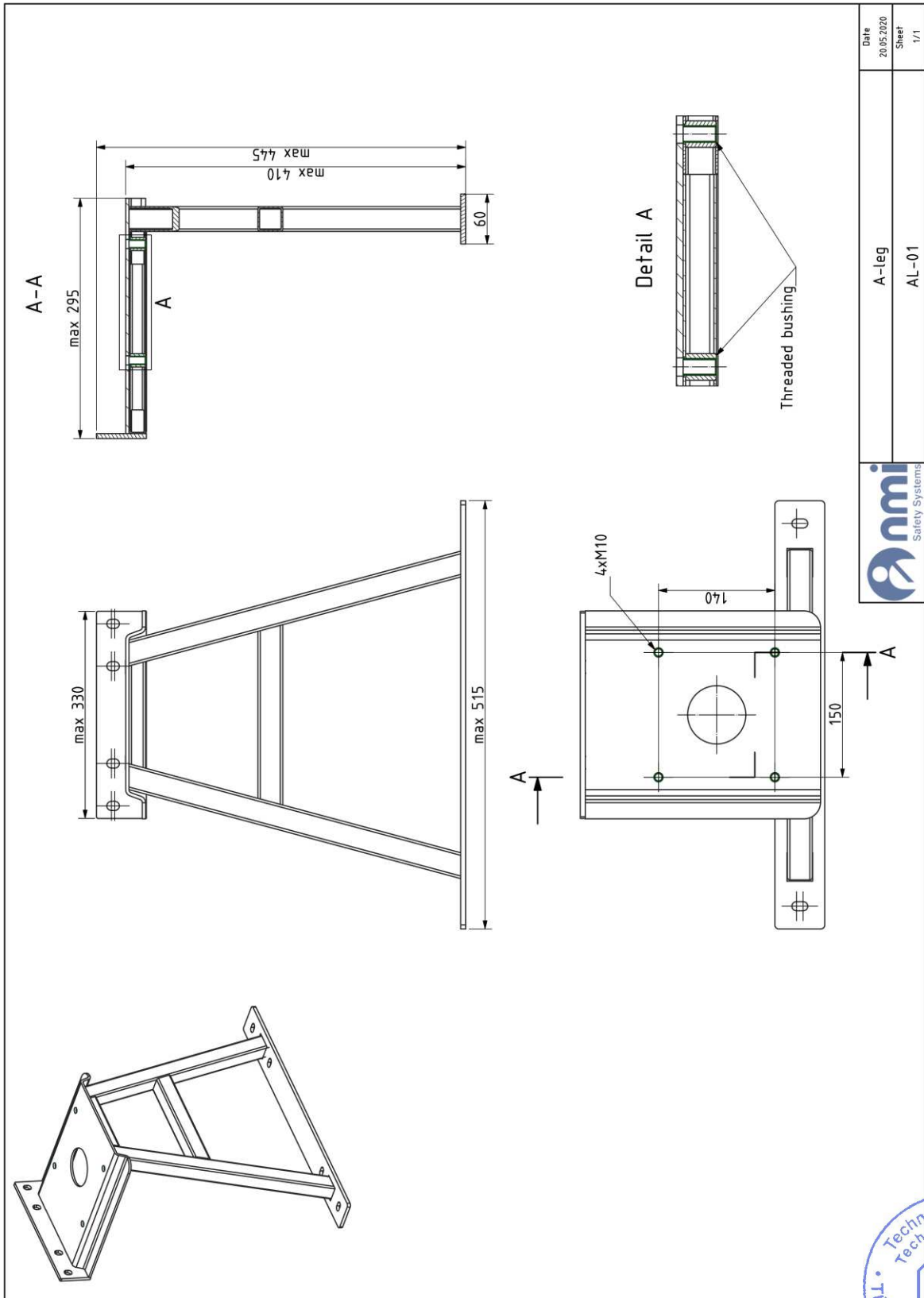
1. For left version of leg main dimensions are the same.

	VR-leg Single	Date 20.05.2020
		Sheet 1/1

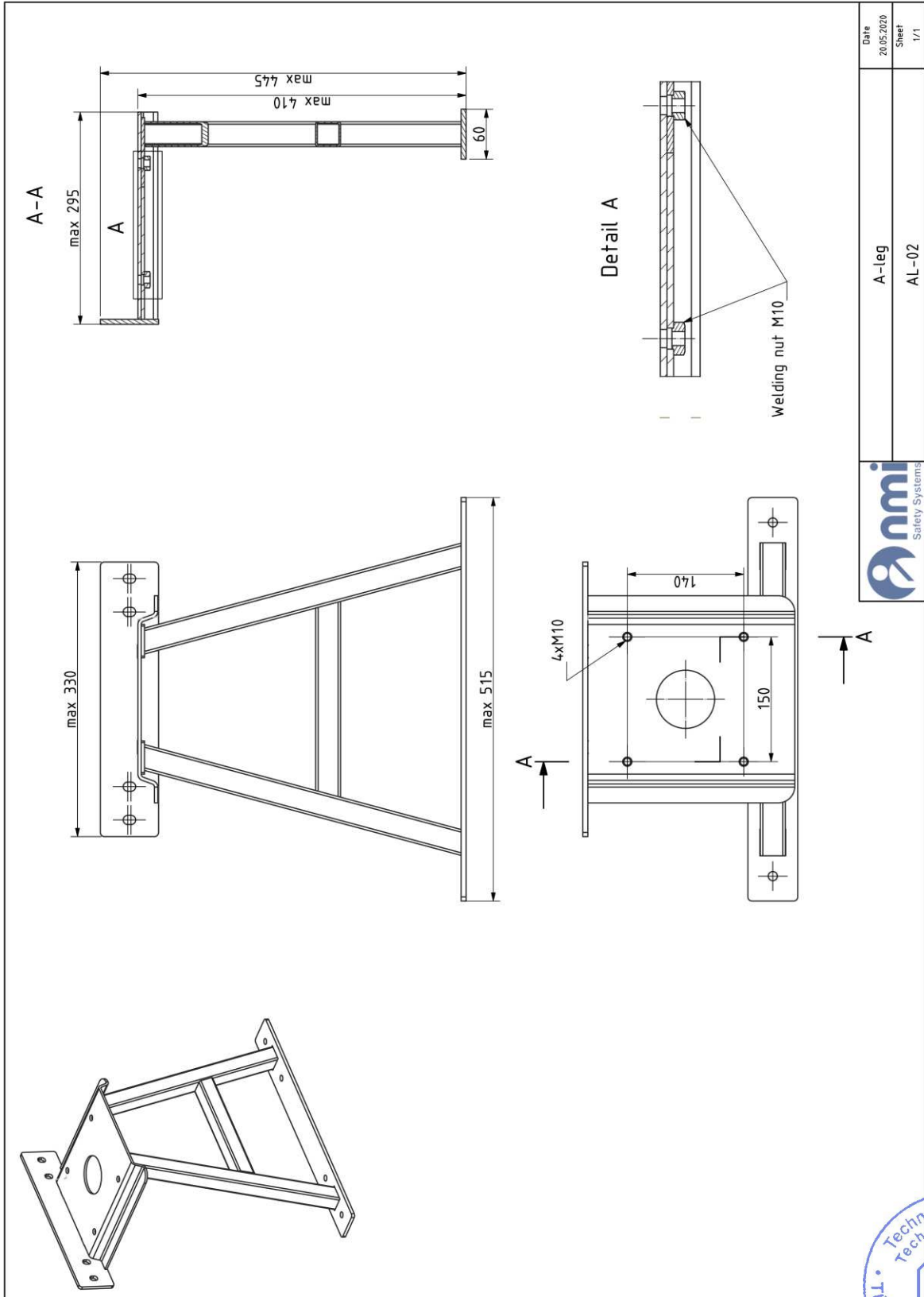



		Date: 20.05.2020
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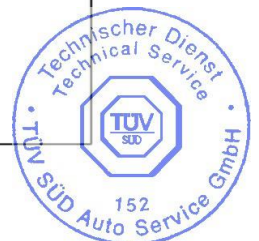




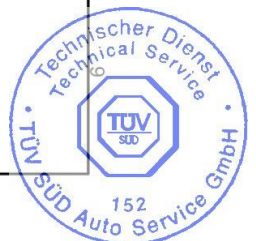
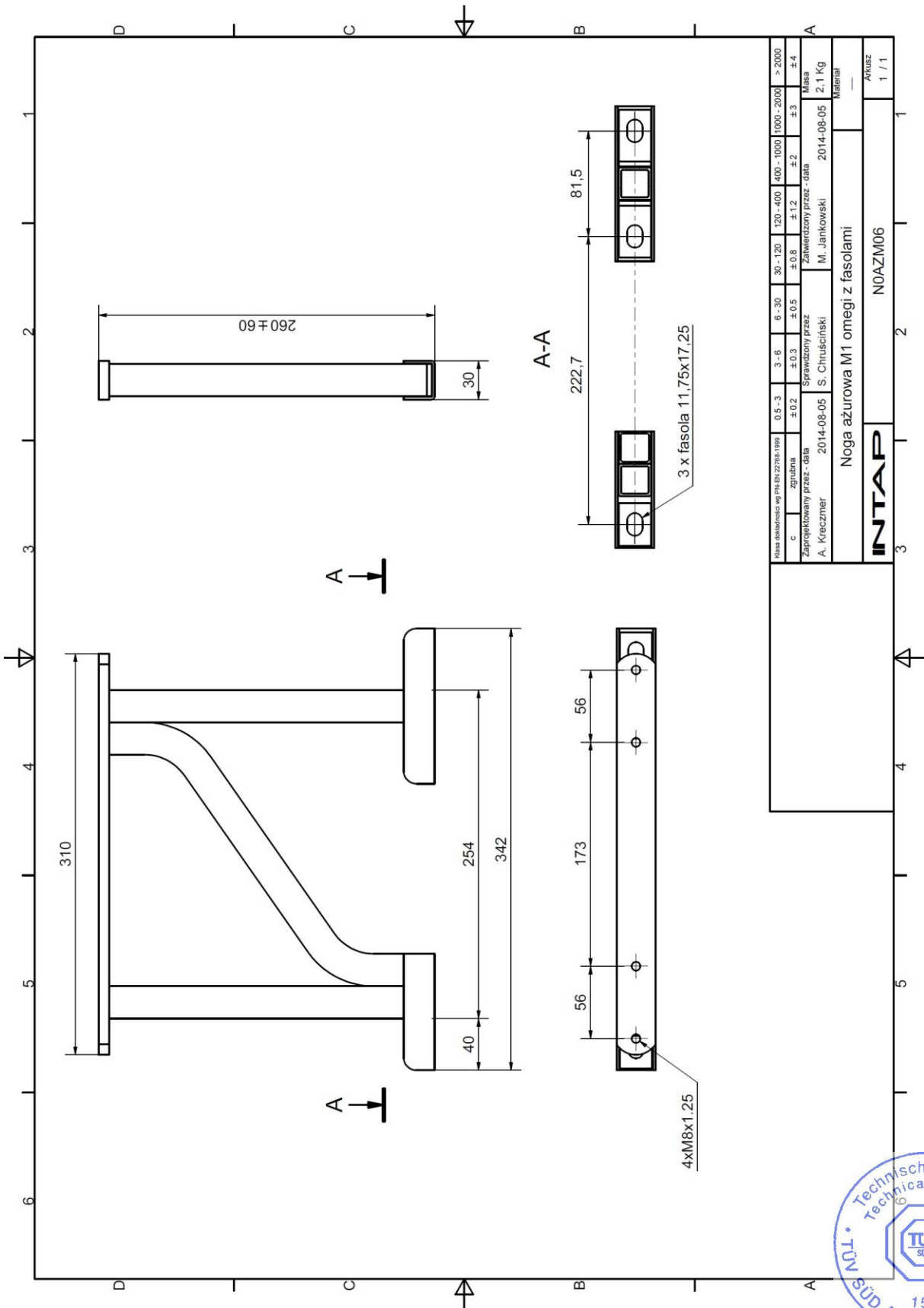
	Date: 20.05.2020
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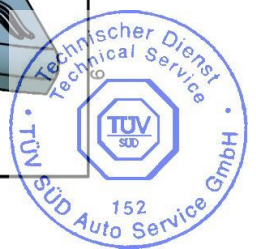
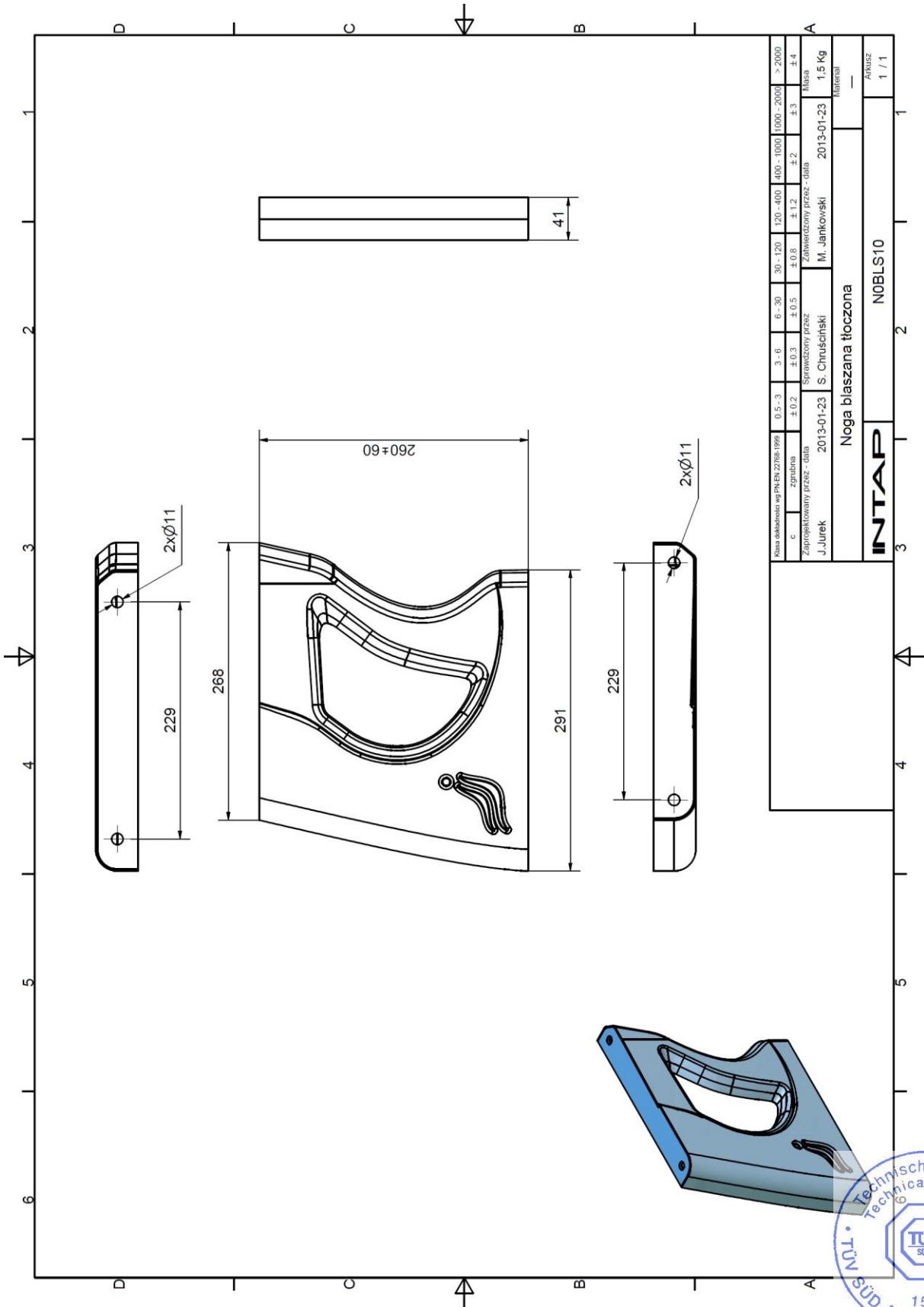
Date	20.05.2020
Sheet	1/1
	
A-leg	AL-02

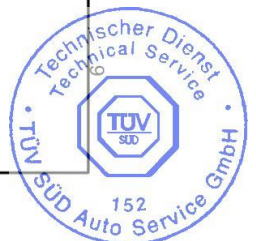
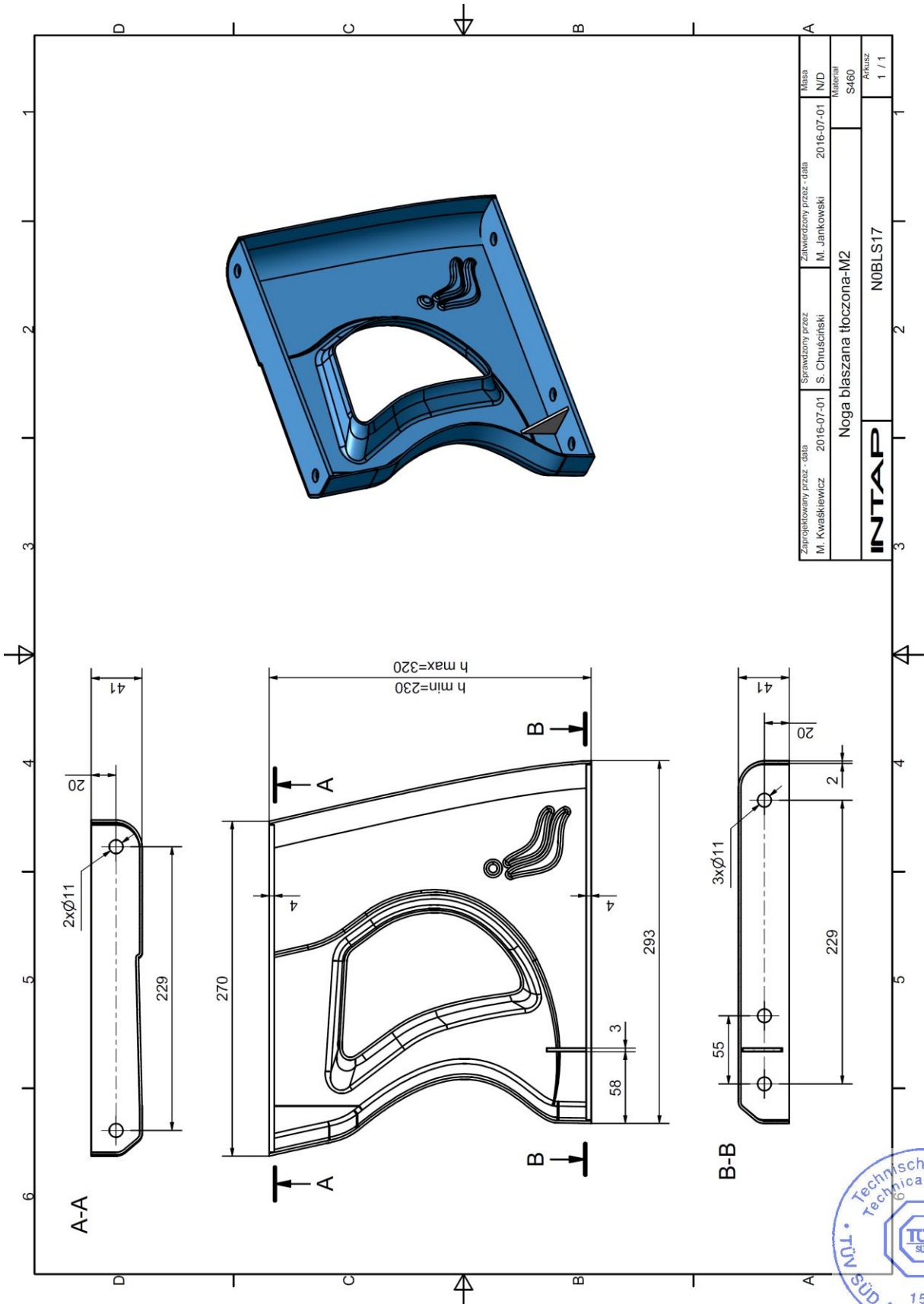


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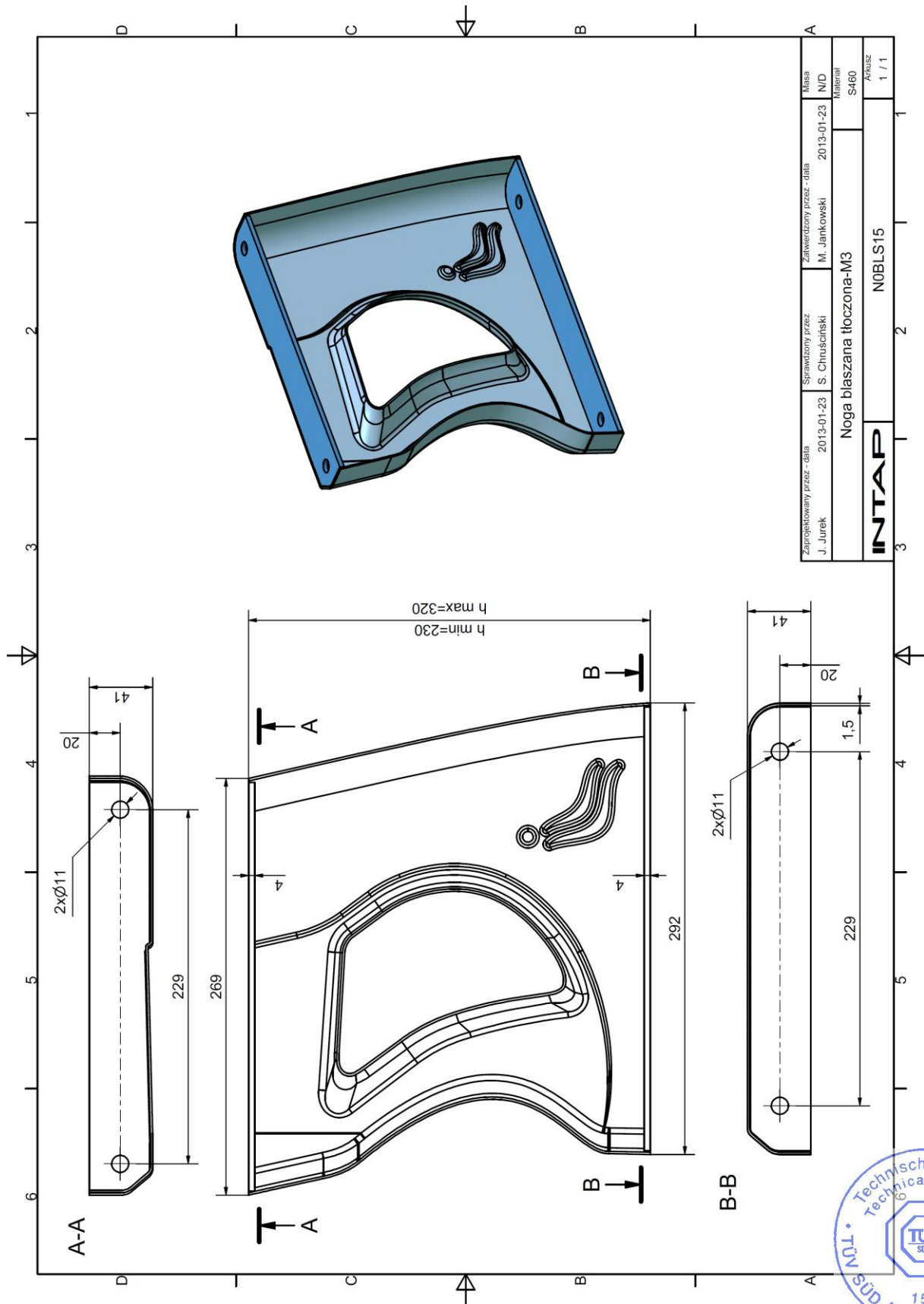
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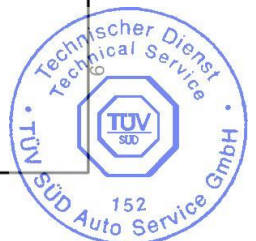


	Date: 20.05.2020
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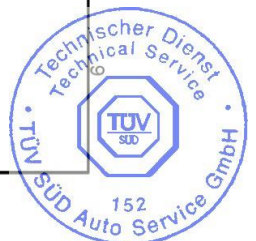
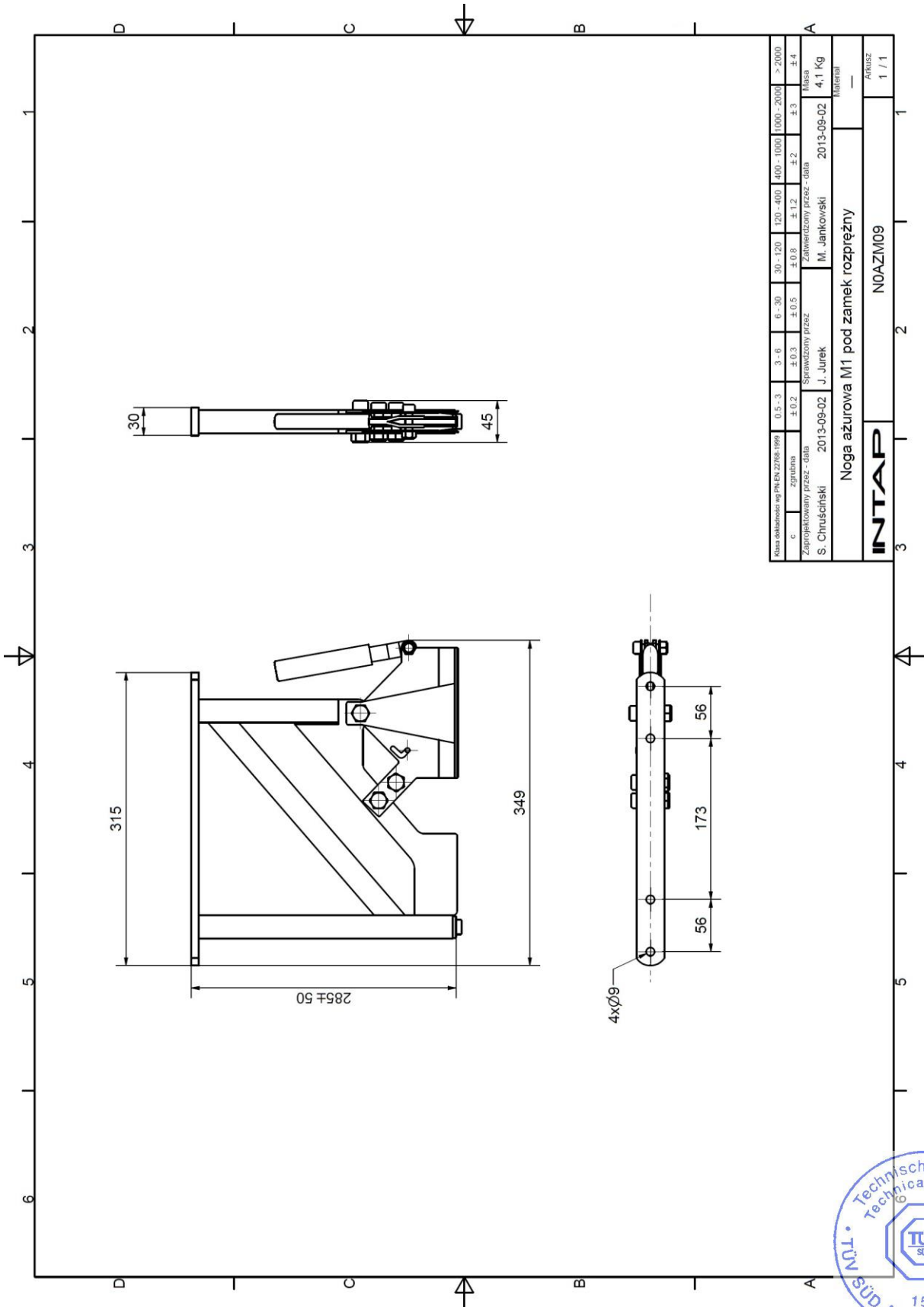




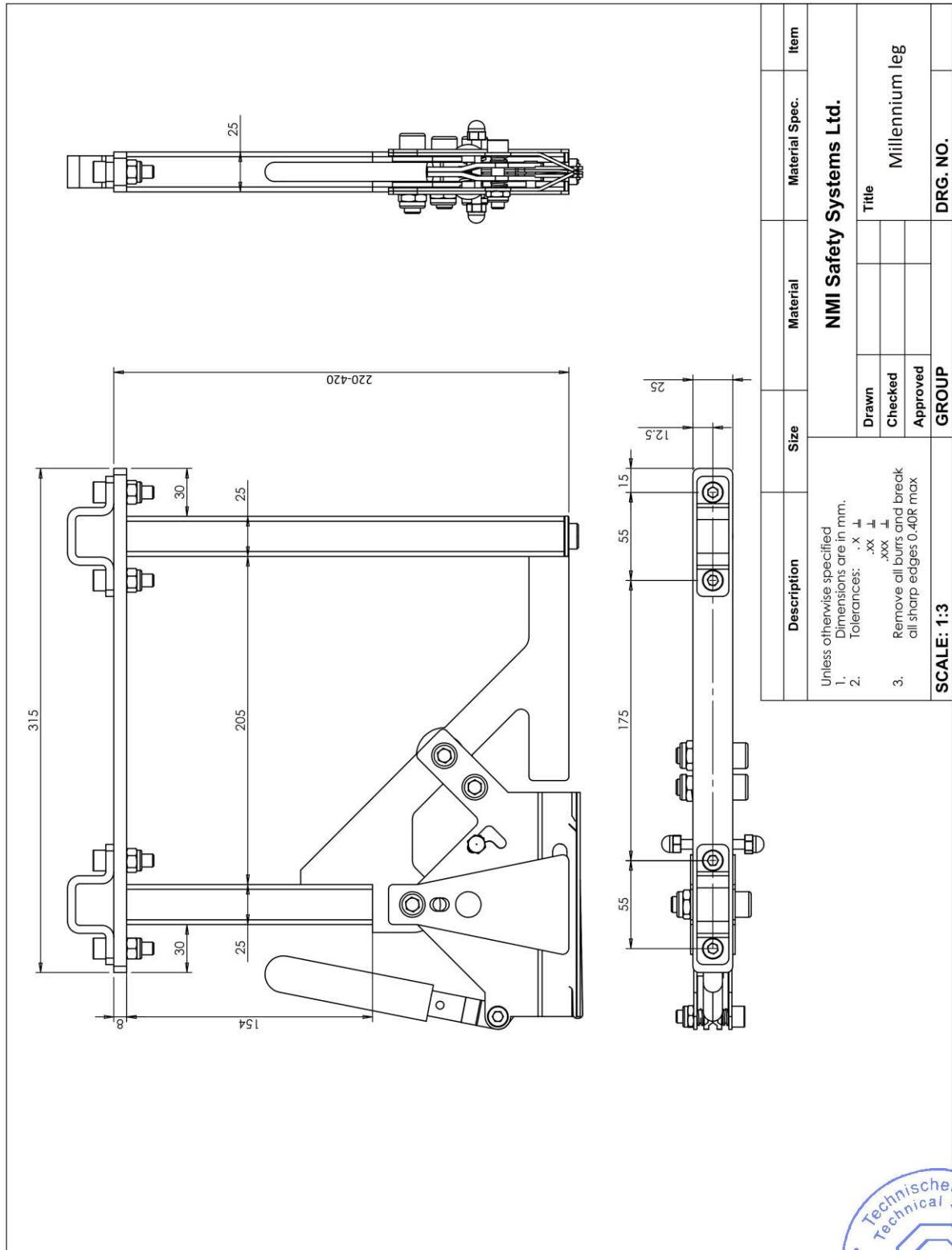
Zaprojektowany przez - data J. Jurek 2013-01-23	Sprawdzony przez S. Chruściński 2013-01-23	Zatwierdzony przez - data M. Jankowski 2013-01-23	Masa N/D
Noga blaszana tłoczona-M3			Materiał S460
<b>INTAP</b>			AKRUSZ 1 / 1
NOBLS15			



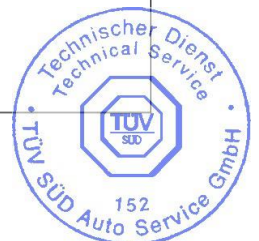
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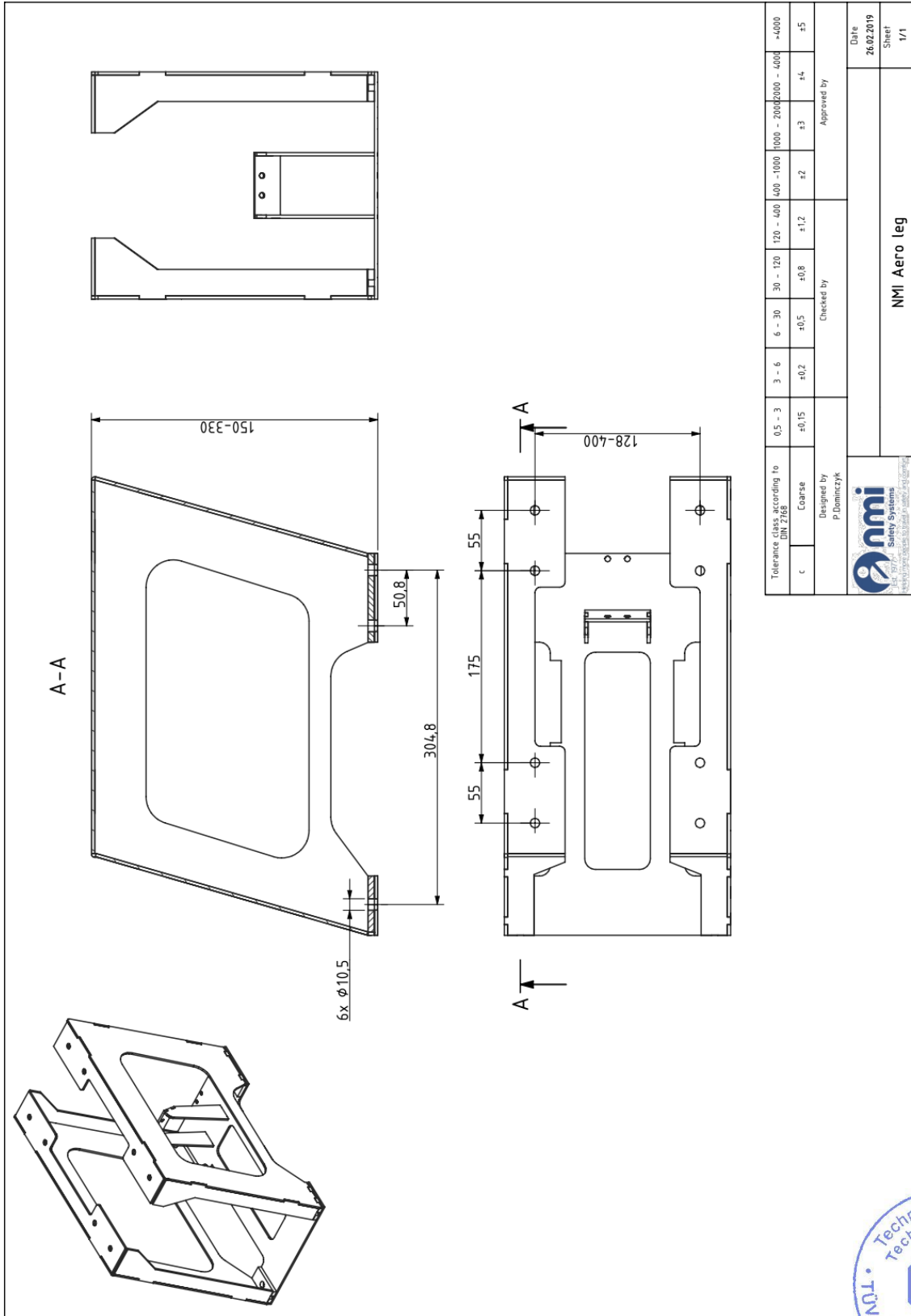
	Date: 20.05.2020
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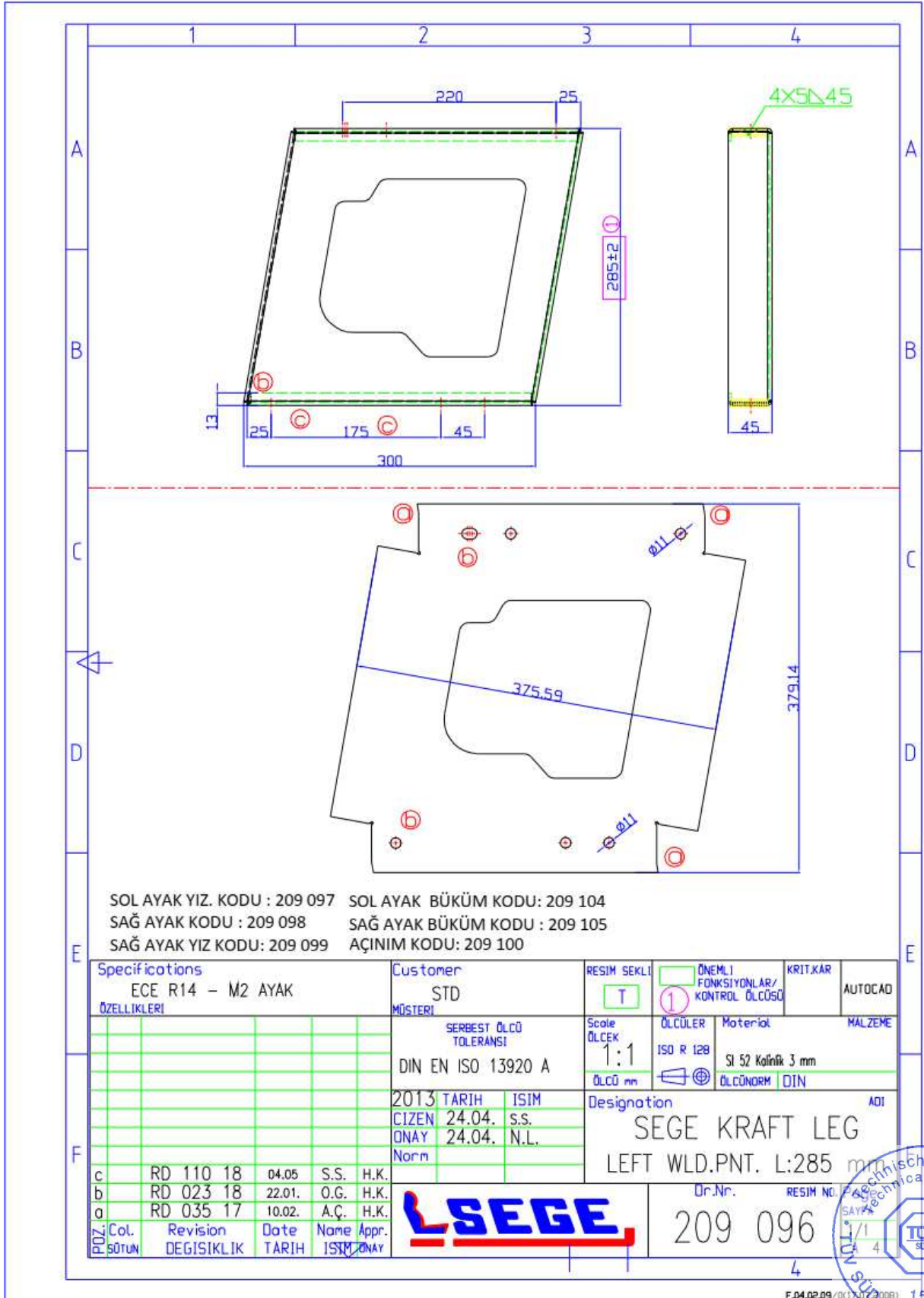
Description	Size	Material	Material Spec.	Item
Unless otherwise specified Dimensions are in mm. 1. Tolerances: .x ± .xxx ± 2. Remove all burrs and break all sharp edges 0.40R max 3.	Drawn			<b>NMI Safety Systems Ltd.</b>  Title Millennium leg
	Checked			
	Approved			
<b>GROUP</b>				<b>DRG. NO.</b>



	Date: 20.05.2020
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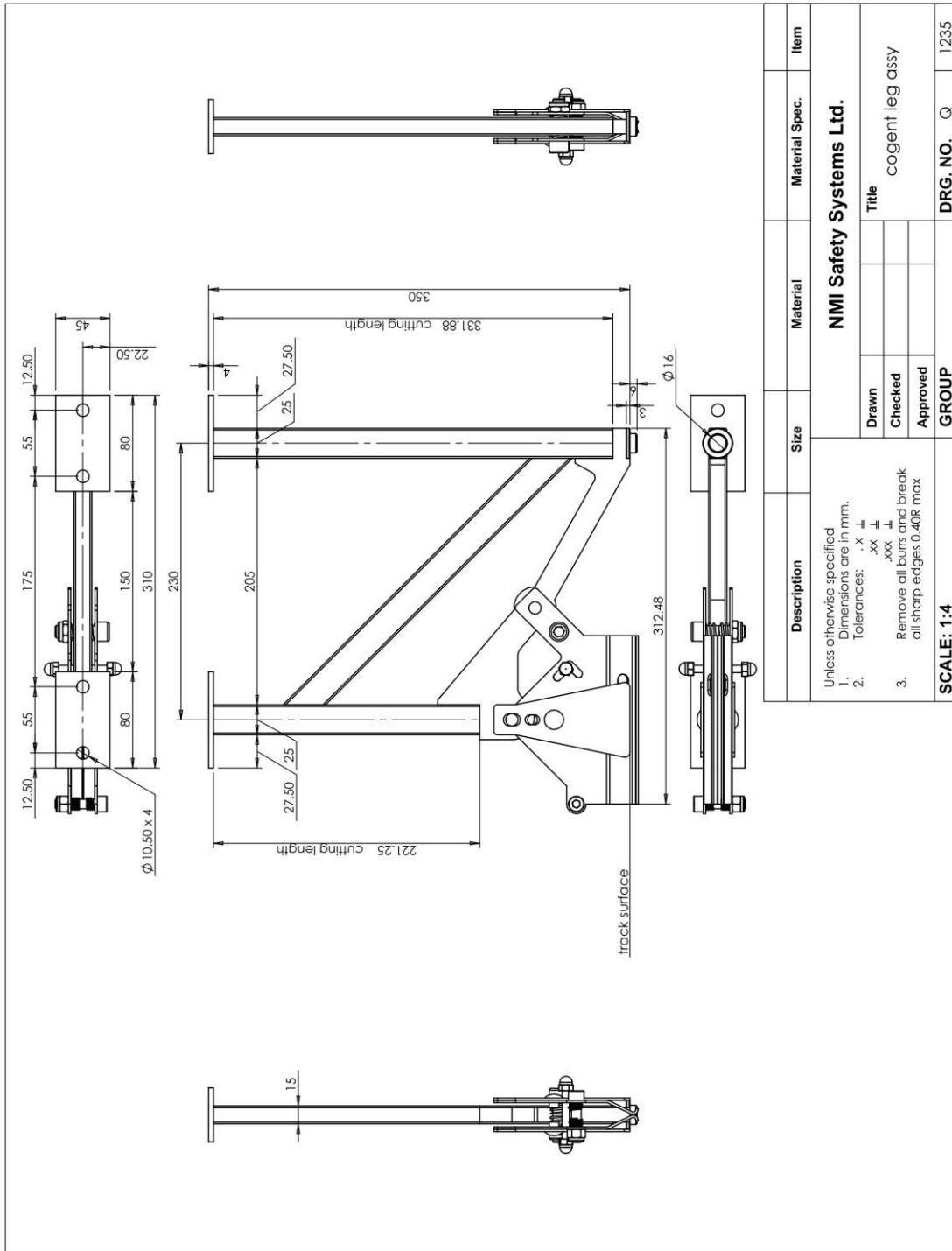


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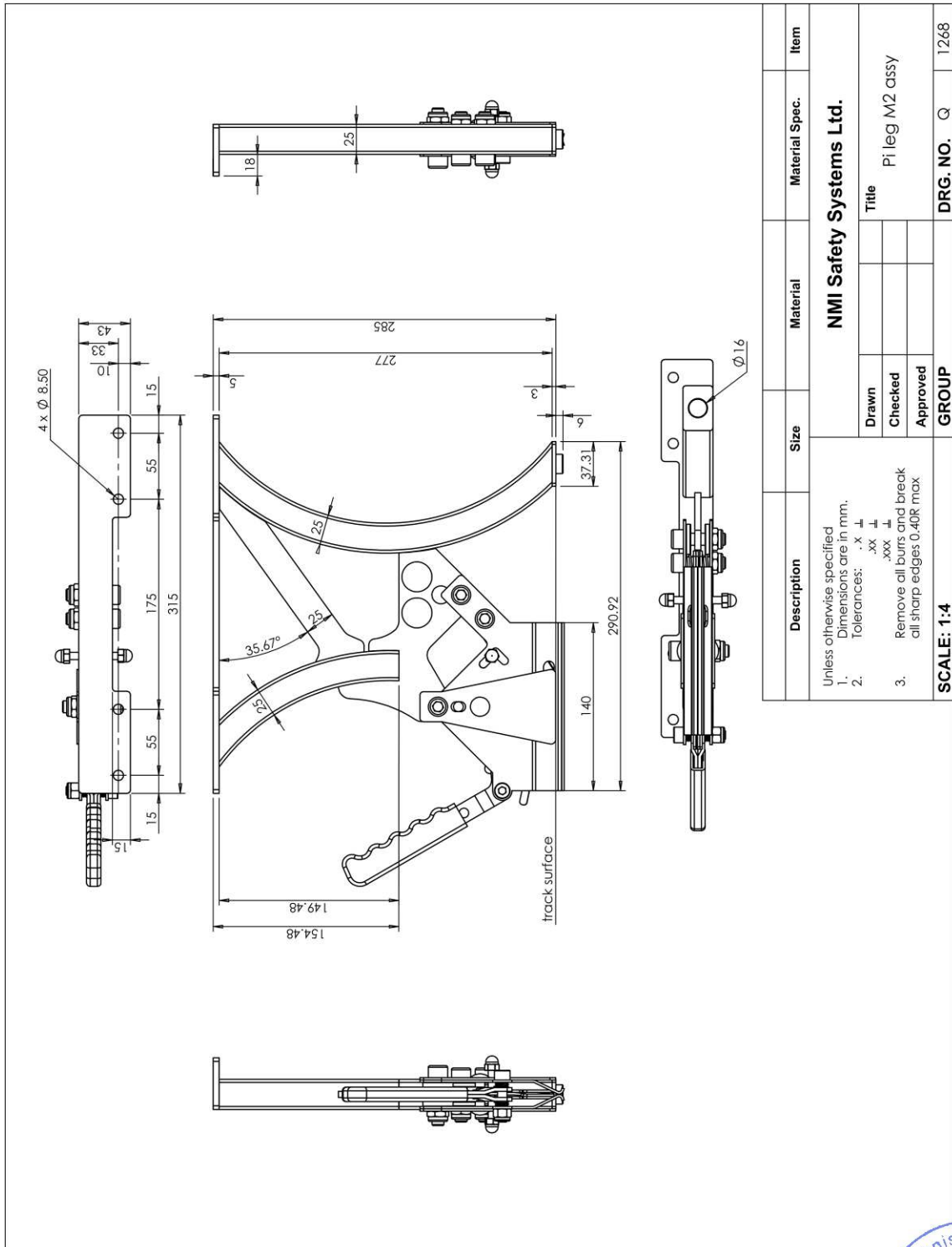




Description	Size	Material	Material Spec.	Item
Unless otherwise specified 1. Dimensions are in mm. 2. Tolerances: .x ±, .xx ±, .xxx ± 3. Remove all burrs and break all sharp edges 0.40R max	Drawn	NMI Safety Systems Ltd.		
	Checked	Title		
	Approved	cogent leg assy		
	<b>GROUP</b>			
<b>SCALE: 1:4</b>				<b>DRG. NO.</b> Q
				1235



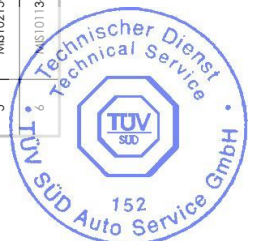
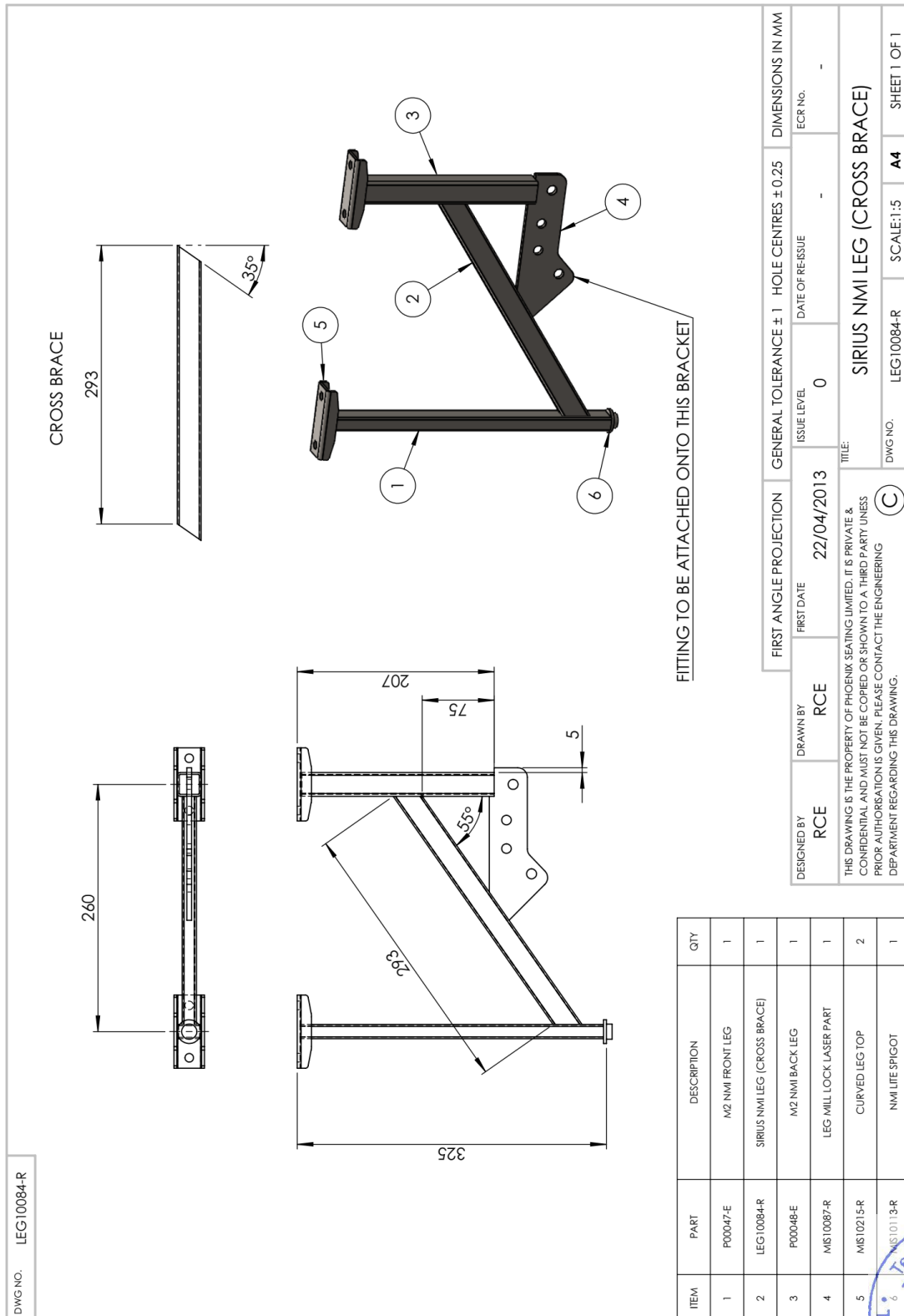
	Date: 20.05.2020
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Description	Size	Material	Material Spec.	Item	
Unless otherwise specified 1. Dimensions are in mm. 2. Tolerances: .x $\pm$ , .xxx $\pm$ 3. Remove all burrs and break all sharp edges 0.40R max			<b>NMI Safety Systems Ltd.</b>		
	Drawn				Title
	Checked				Pi leg M2 assy
	Approved				
<b>GROUP</b>				DRG. NO. Q 1268	



		Date: 20.05.2020
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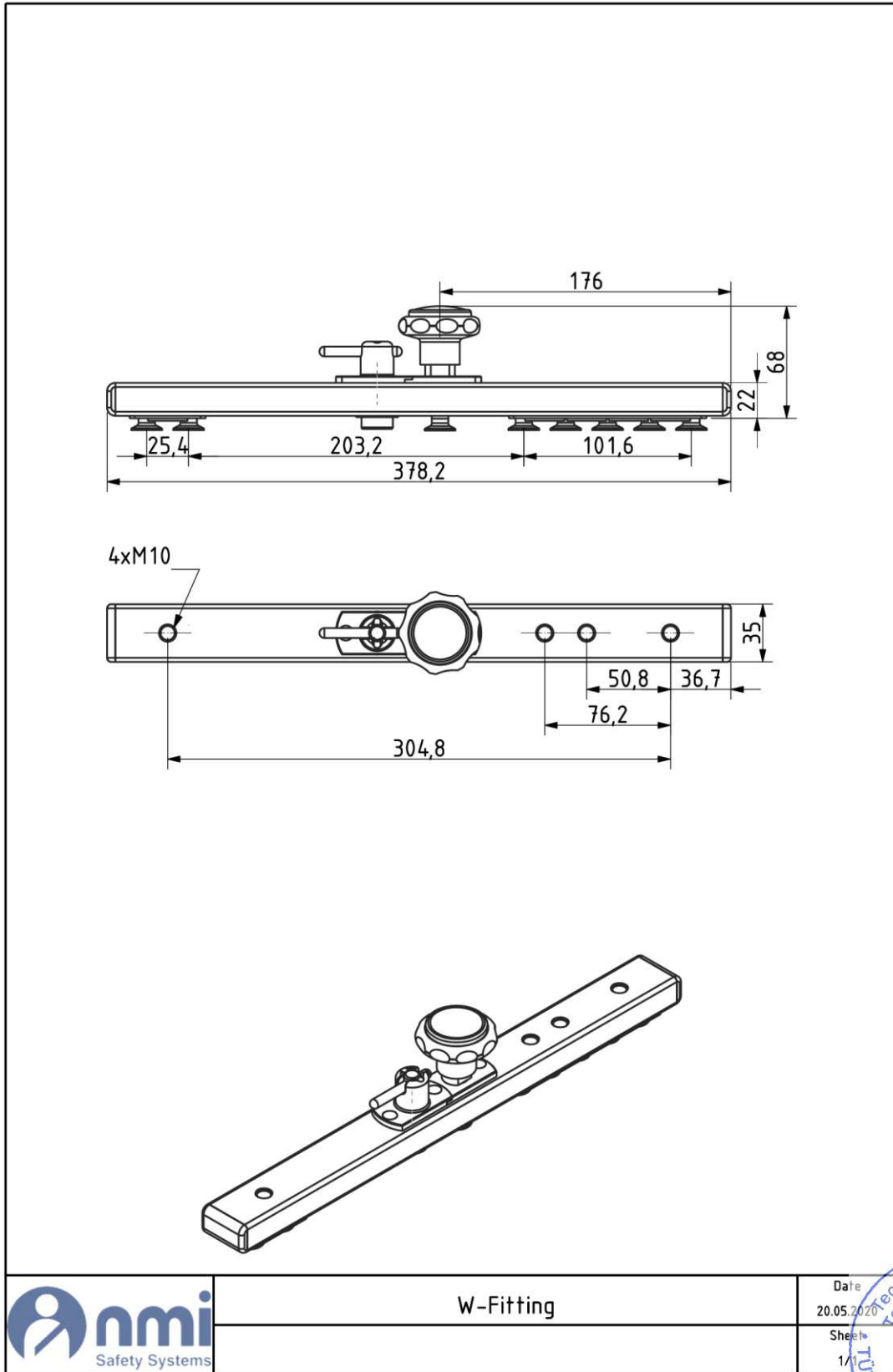


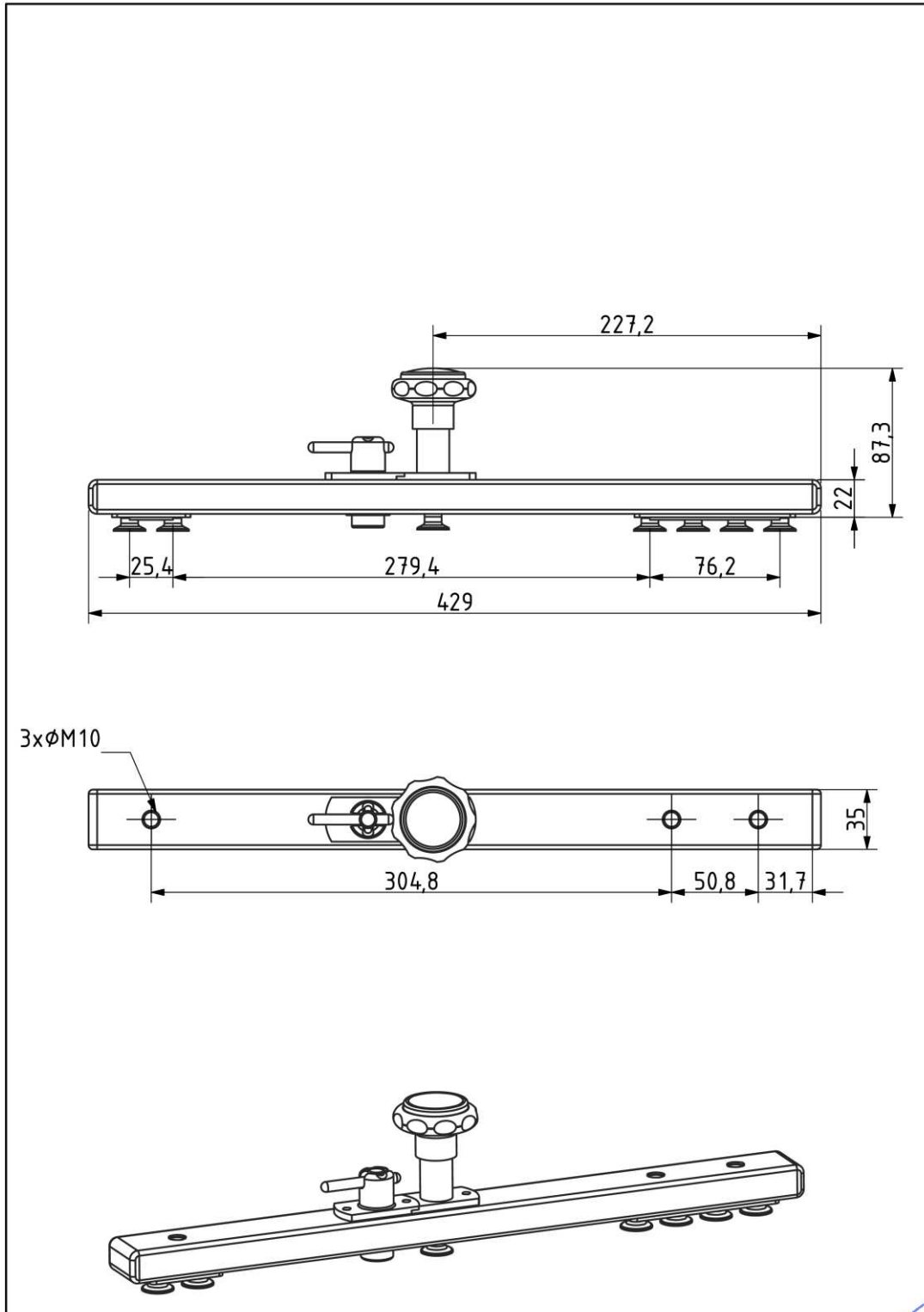
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Fixation elements	Mass
W-fitting	0,5 kg
W-fitting VL	0,55 kg
LCK-04	0,03 kg
LCK-05	0,05 kg
TMI-17	0,07 kg
TMI	0,1 kg
TMDS	0,05 kg
NMI T-Bolt	0,05 kg
NMI U fitting	2,8 kg
NMI V fitting 03	2,5 kg
WZP-01	0,27 kg

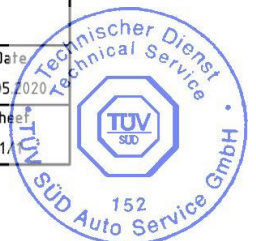


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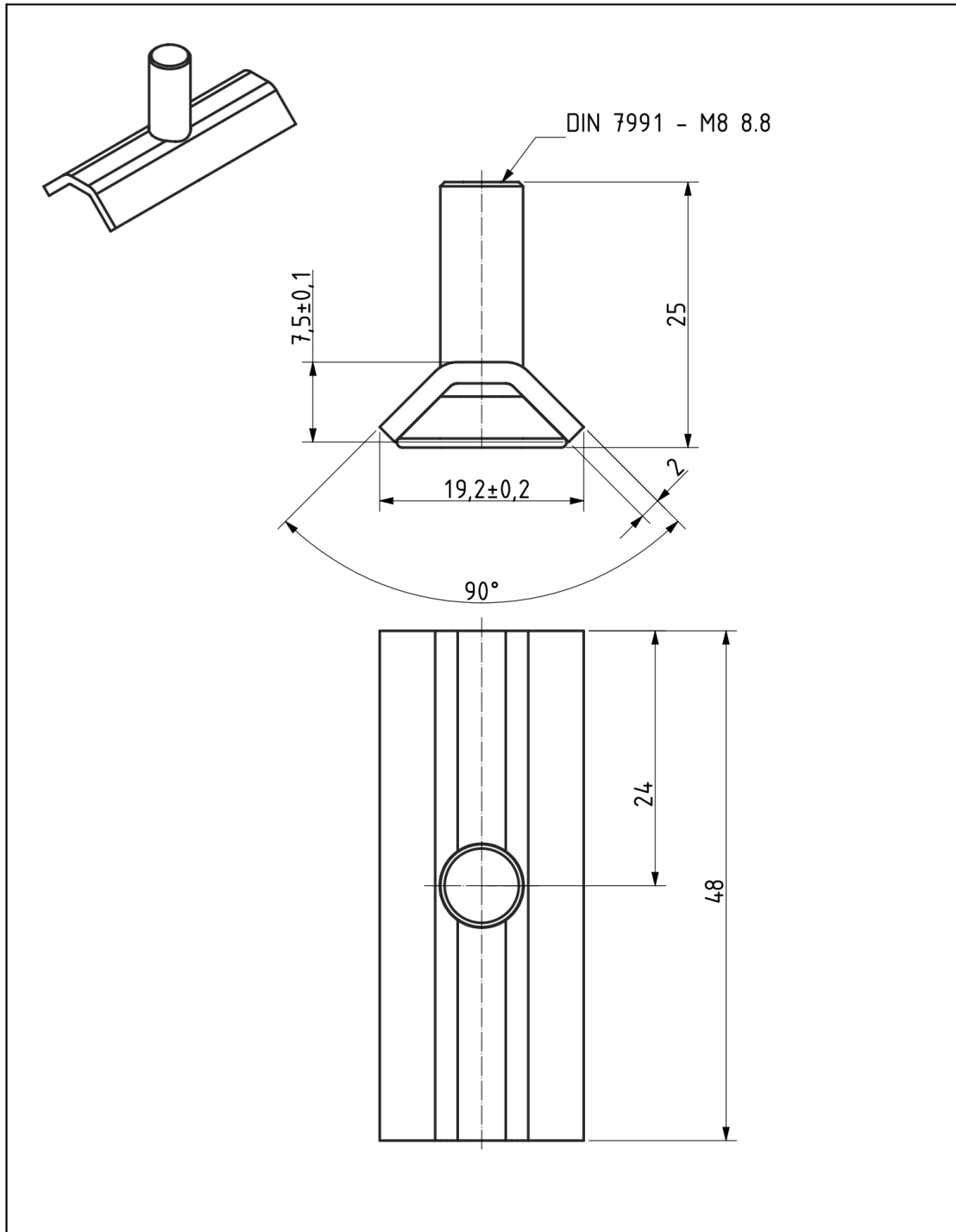



	W-Fitting VL	Date: 20.05.2020
		Sheet: 1/1

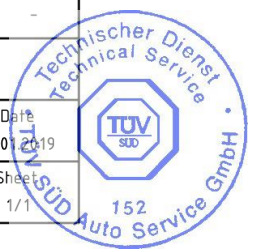


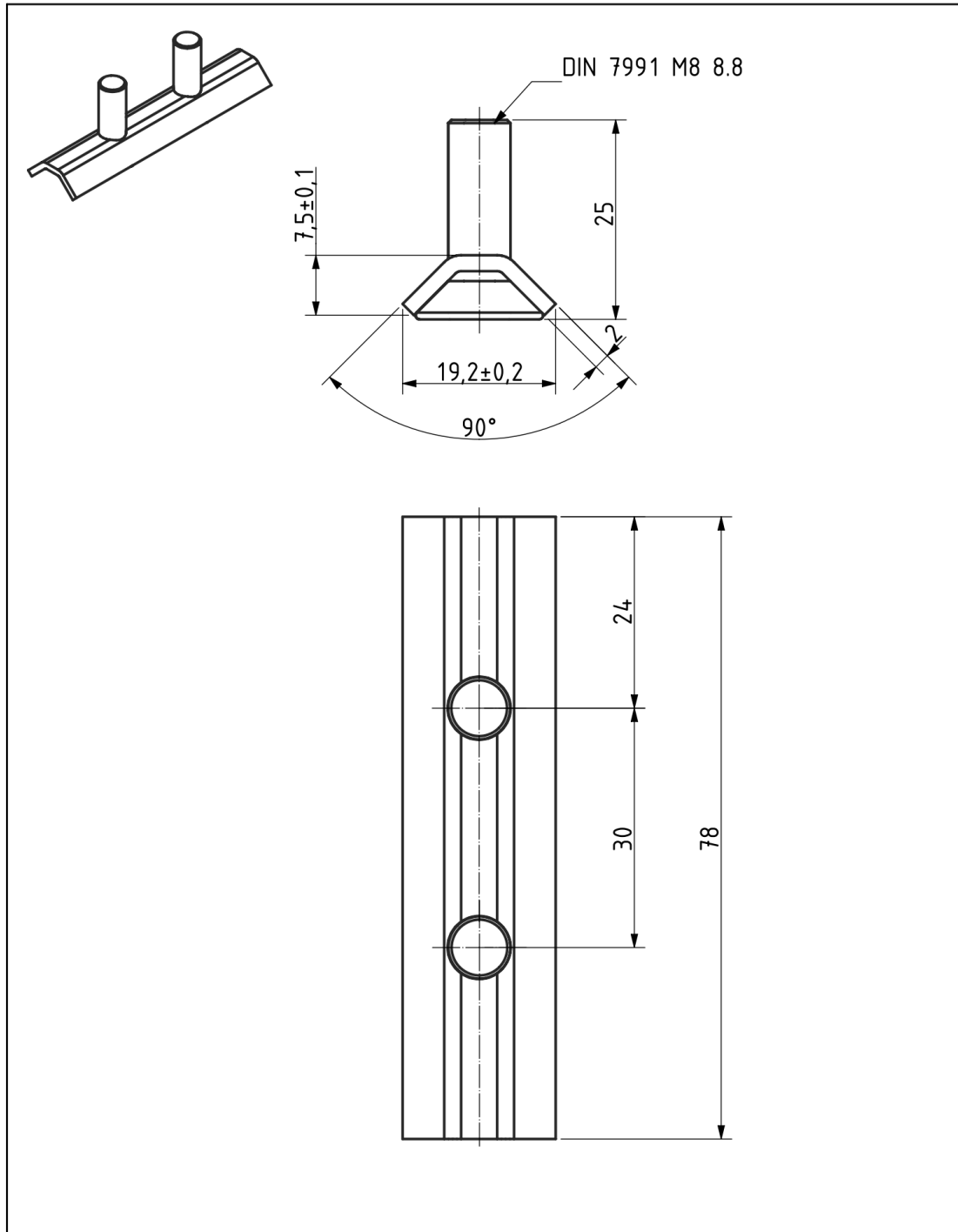
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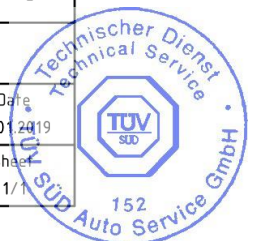


Tolerance class according to DIN 7168		0,5 - 3	3 - 6	6 - 30	30 - 120	120 - 400	400 - 1000	1000 - 2000	2000 - 4000	>4000	
f	Fine	±0,05	±0,05	±0,1	±0,15	±0,2	±0,3	±0,5	±0,8	-	
Designed by - date S.Chrzanowski			Checked by				Approved by				
		V-bolt single							Date	03.05.2019	
		LCK-04							Sheet	1/1	

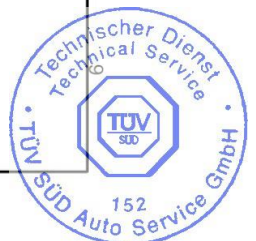
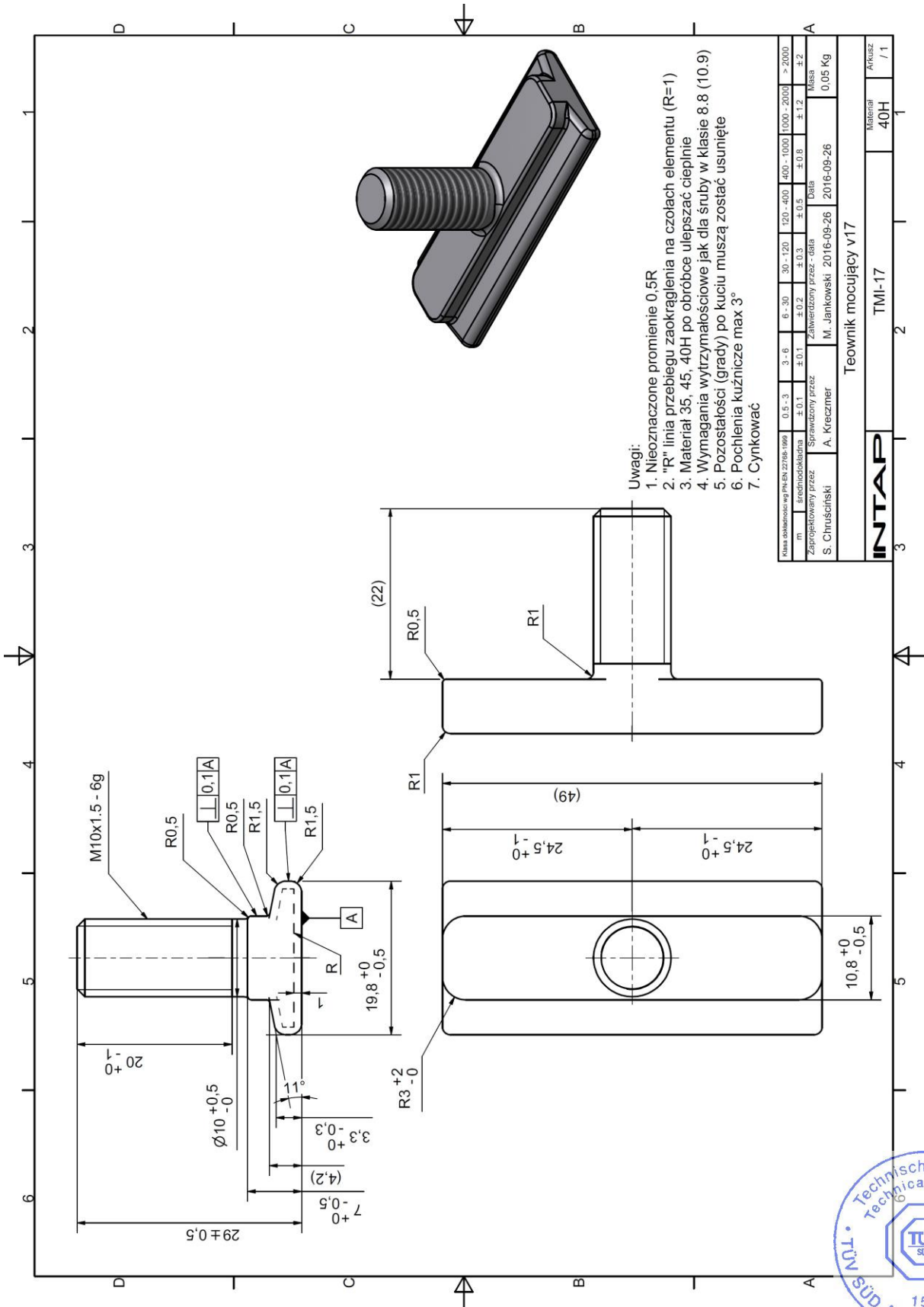


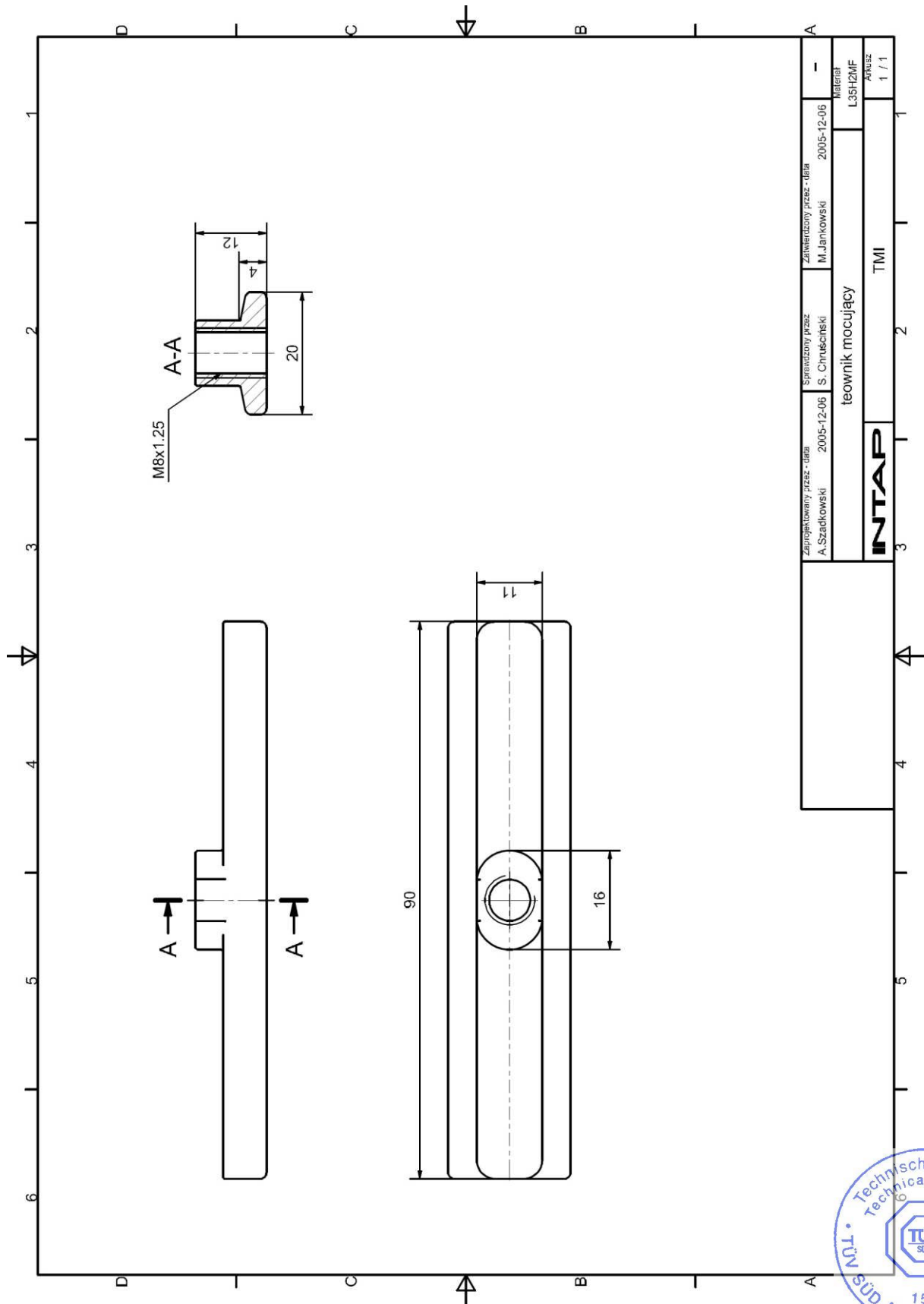


Tolerance class according to DIN 7168		0,5 - 3	3 - 6	6 - 30	30 - 120	120 - 400	400 - 1000	1000 - 2000	2000 - 4000	>4000
f	Fine	±0,05	±0,05	±0,1	±0,15	±0,2	±0,3	±0,5	±0,8	-
Designed by - date S.Chrzanowski			Checked by				Approved by			
		V-Bolt double							Date 03.01.2019	
		LCK-05							Sheet 1/1	

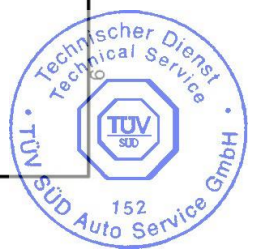


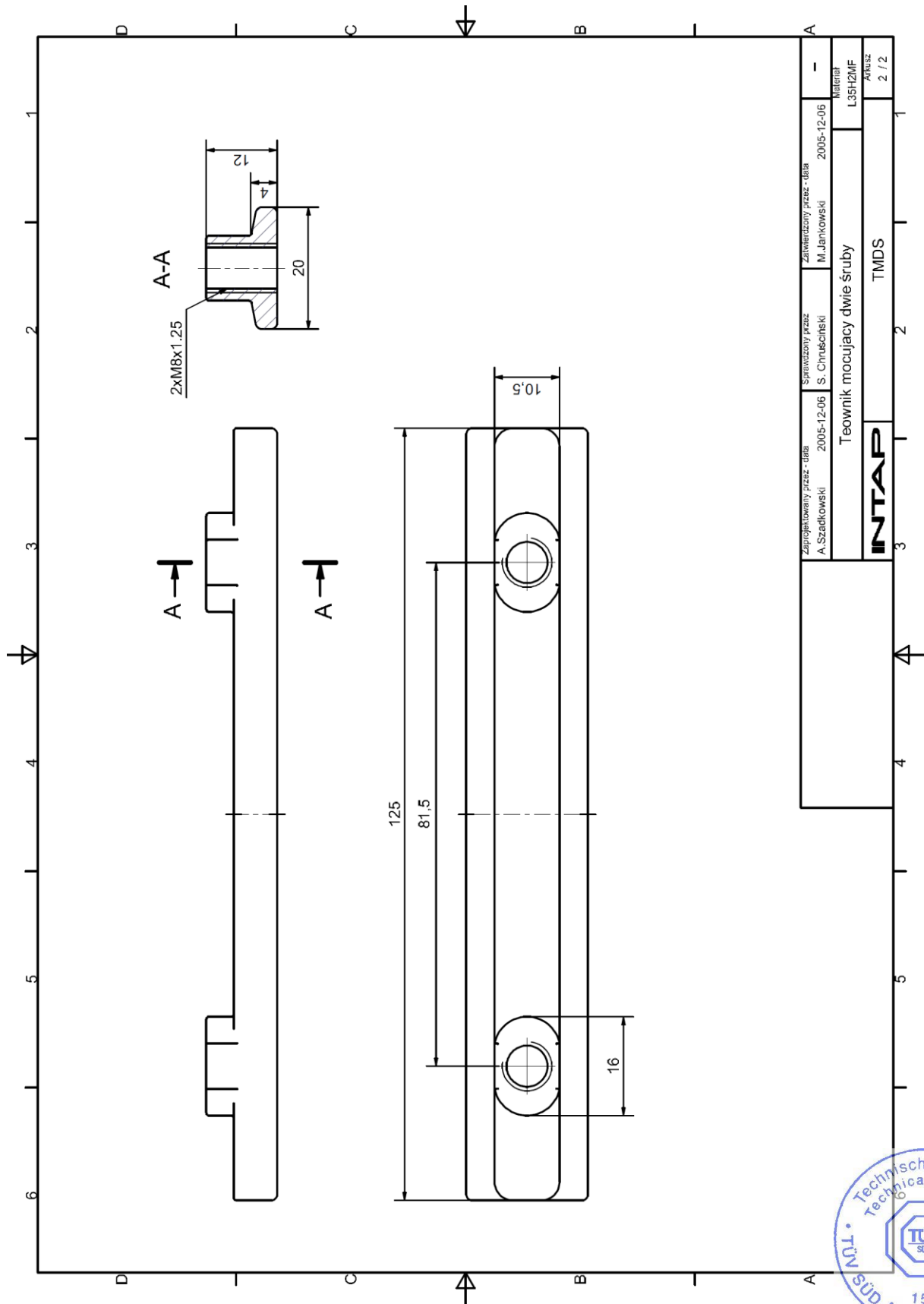
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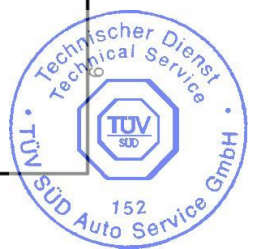


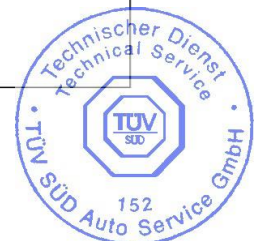
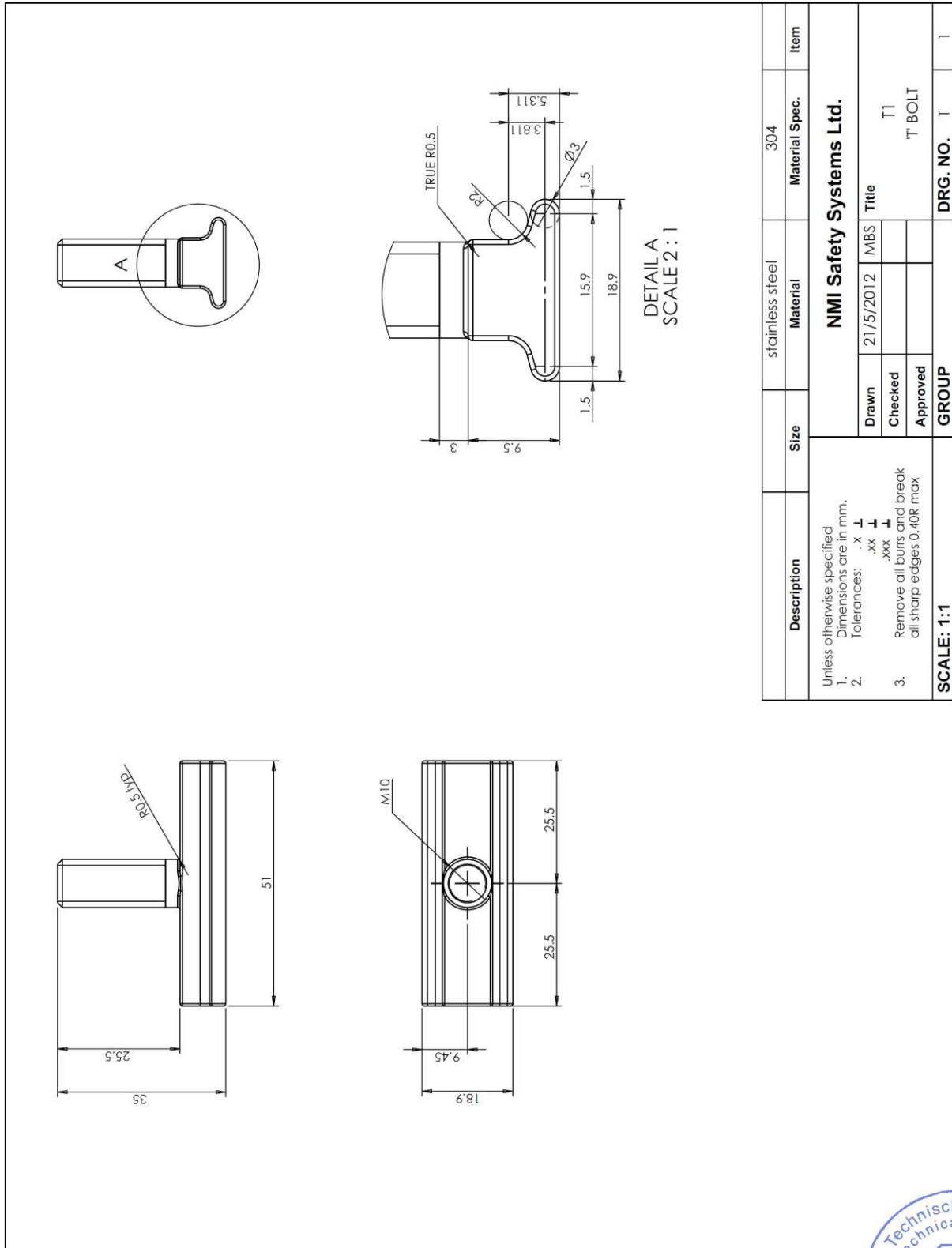
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teownik mocujący					
<b>INTAP</b>			TMI		
Materiał L3SH2MF					
AKRISZ 1 / 1					





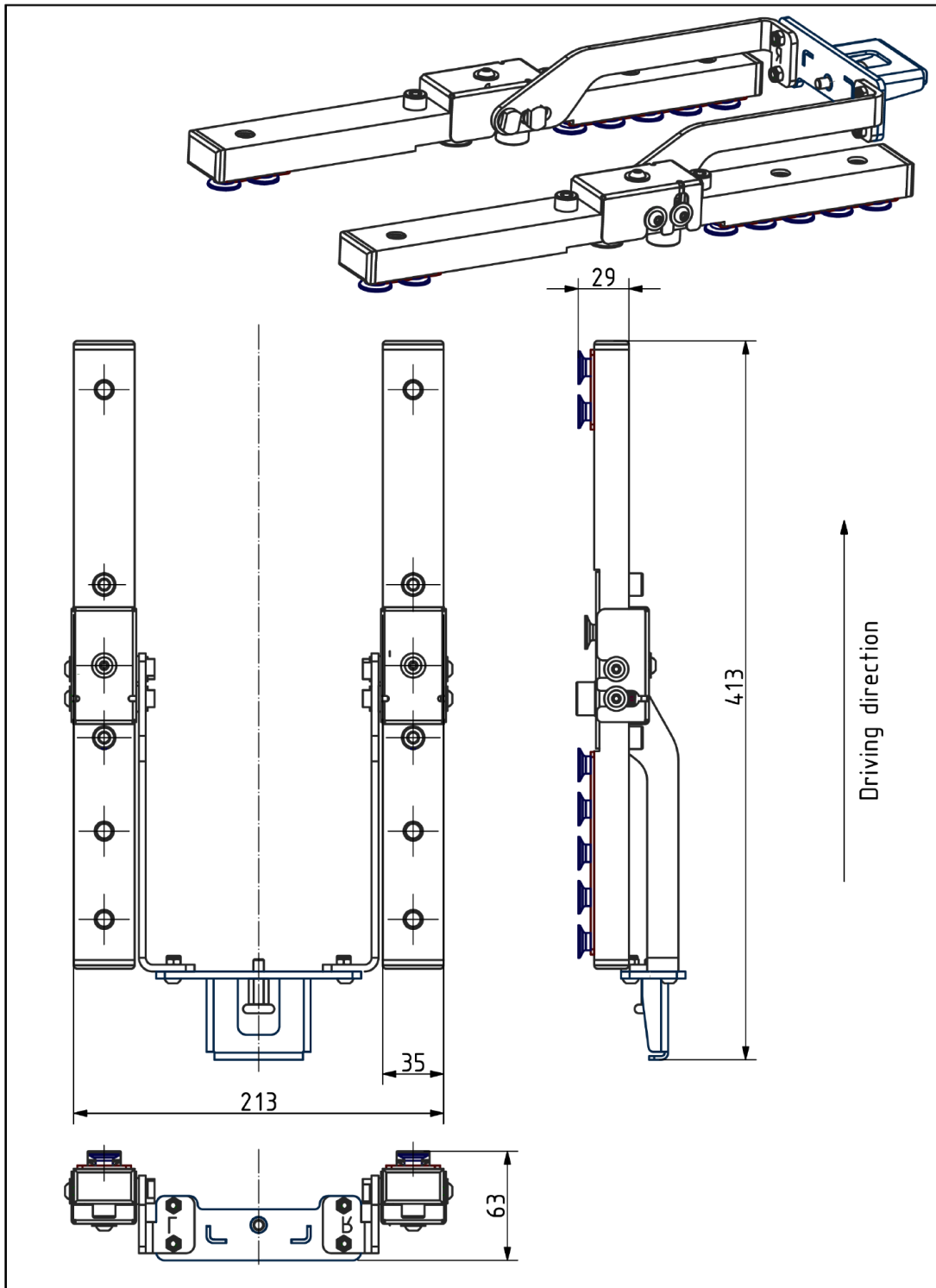
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Teownik mocujący dwie śruby					
<b>INTAP</b>			TMDS		
Materiał L35H2MF					
AKRISZ 2 / 2					



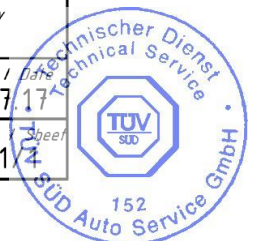


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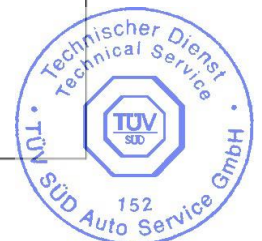
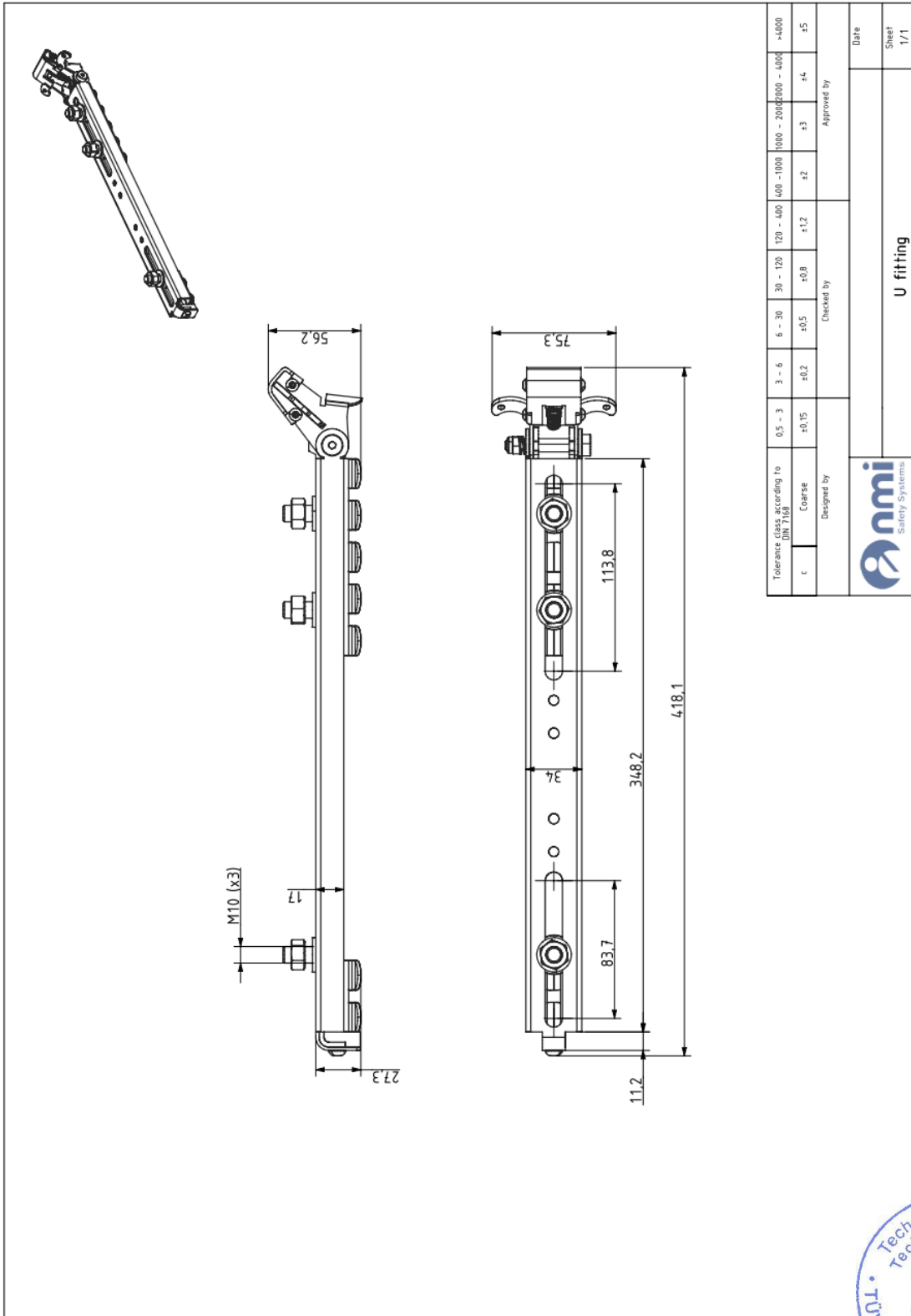




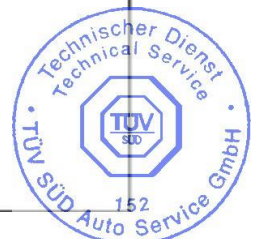
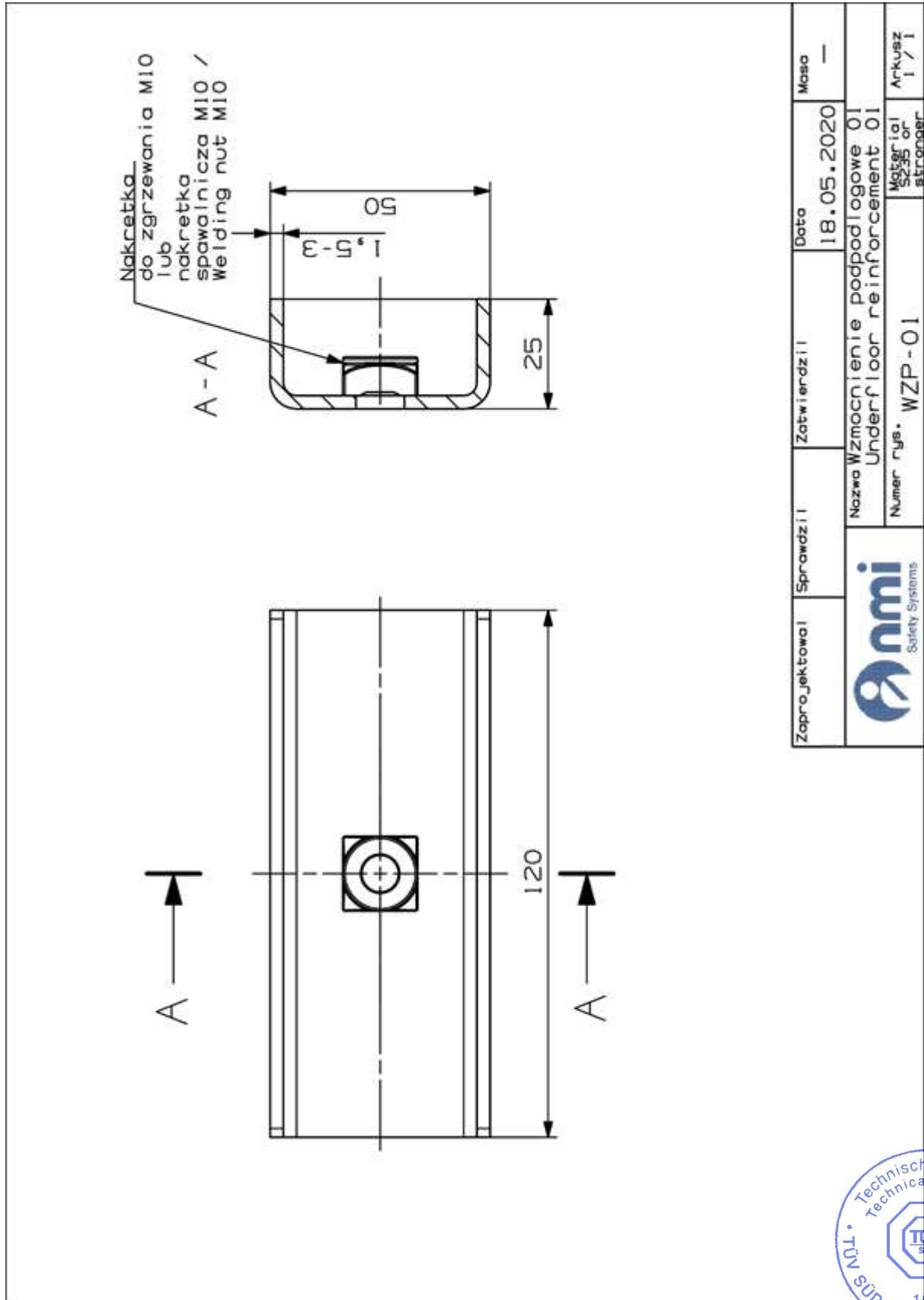
Zaprojektowany przez / Designed by M.Szczepanek	Sprawdzony przez / Checked by J.Gaęza	Zatwierdzony przez / Approved by M.Jankowski
NMI Vfitting 03		Data / Date 10.07.17
NMI03-01		Arkusz / Sheet 1/4



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## Enclosure 6: INSTRUCTION OF INSTALLATION OF NMI LITE RAIL TO THE VEHICLE'S FLOOR

# NMI Lite Rail

### Installation:

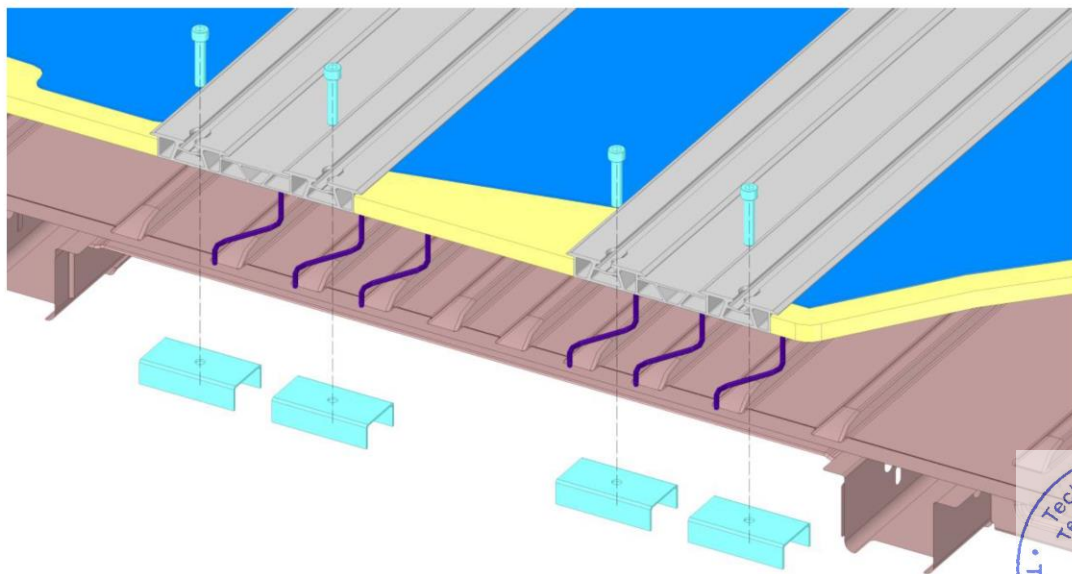
Surface preparation:

Raw or coated aluminium. Originally painted or powder coated steel sheet:

- roughen,
- degrease,
- prime.

For surfaces prepared in that way, apply 3 paths of BETAMATE 7120 in an S patterns (or 2 straight paths), and afterwards and press the rails.

At the end of single rail there must be one underfloor reinforcement – C-profile WZP-01 (fixed by M10 8.8 bolt). For double rail use 2 pieces WZP-01.



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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:

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

<b>Basis</b>	Silane modified polymers
<b>Colour</b>	black
<b>Pigments</b>	carbon black
<b>Density</b>	0.91 - 0.93 g/cm <sup>3</sup>
<b>Viscosity (DIN-cup 4)</b>	10 - 14 s @ 23°C
<b>Flash Point</b>	approx. -8°C
<b>Processing temperature</b>	ideal 10 - 35°C
<b>Tack free time</b>	50 - 150 sec @ 23°C / 50 % r.h.
<b>Evaporation time</b>	min. 10 min @ 23°C / 50 % r.h., max. 8h Reactivation with BP 5061 or BW 4001/4002 possible.
<b>Instruction for use</b>	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.
<b>Bonding surface preparation</b>	Clean bonding areas with the BETACLEAN 3300. Verify compatibility or consult our technical service department.
<b>Cleaning</b>	Clean Equipment with BETACLEAN 3000



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

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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 <sup>3</sup> 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



<b>Temperature stability</b>	-40°C to 100°C, for short periods up to 120°C
<b>Resistance to chemicals</b>	Highly resistant to aqueous chemicals, petrol, alcohol and mineral oils. Conditionally resistant to esters, ketones, aromatics and chlorinated hydrocarbons
<b>Bonding surface preparation</b>	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.
<b>Processing equipment</b>	Cartridges: hand-operated or pneumatic gun with mechanical piston Drums, pails: commercial pumping system with connection to automatic applicator, if required.
<b>Cleaning</b>	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.
<b>Shelf life</b>	6 months at +5°C to +25°C in unopened containers. (See "use before" date printed on container).
<b>Containers</b>	300 ml cartridges, cardboard packs of 12 Pails: 22 litres Drums: 200 litres
<b>Protection measures</b>	See health and safety data sheet.

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