

INFORMATION FOLDER / DOCUMENT:

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

**NAME: NMI M1 Ultralite composite floor
 TYPE : FL**



.....
Ilan Alfassa
Managing Director

Total number of pages: 107
 Date of issue: 13.06.2019



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|--|--------------------------|---------------------|
| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 1/107 |

List of documentation and supplements

| | |
|--|---|
| Confirmation..... | 3 |
| 0. General..... | 4 |
| 1. General construction characteristics of the vehicle | 4 |
| 9. Bodywork..... | 4 |

List of enclosures

| | |
|--|-------------|
| TABLE OF VEHICLES | Enclosure 1 |
| SEATS ARRANGEMENT | Enclosure 2 |
| NMI COMPOSITE FLOOR | Enclosure 3 |
| METHOD OF FLOOR FIXATION TO VEHICLE | Enclosure 4 |
| SEATS AND THEIR ANCHORAGES | Enclosure 5 |
| DRAWINGS OF SEATS | Enclosure 6 |
| DRAWINGS OF LEGS/BASES/WHEELARCH BRIDGES | Enclosure 7 |



| | | |
|--|--------------------------|---------------------|
| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 2/107 |

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: *13 July 2019*



.....
Ilan Alfassa
Managing Director



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|--|--------------------------|---------------------|
| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 3/107 |

0. GENERAL
- 0.1 Make (trade name of manufacturer): NMI
- 0.2 Type: FL
- Variants: FLR, FLM
- 0.2.1 Commercial name(s) (if available): NMI M1 Ultralite composite floor
- 0.3 Means of identification of type: N/A
- 0.3.1 Location of that marking: N/A
- 0.4 Category of vehicle: M1, M2, M3, N1, N2, N3
- 0.5 Name and address of manufacturer: NMI Safety Systems Ltd.
 16 IO Centre, Arlington Business Park,
 Whittle Way, Stevenage, Herts SG1 2BD
 United Kingdom

1. GENERAL CONSTRUCTION CHARACTERISTICS OF THE VEHICLE

- 1.1 Photographs and/or drawings of a representative vehicle: N/A
9. BODYWORK
- 9.1 Type of bodywork using the codes set out in Part C of Annex II of Directive 2007/46/EC: N/A
- 9.10 Interior arrangement
- 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
- 9.10.3.3 Mass: See enclosure 5
- 9.10.3.4 Characteristics: for seats not type-approved as components, description and drawings of



| | | |
|--|--------------------------|---------------------|
| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 4/107 |

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|---------------|--|-----------------|
| 9.10.3.4.1 | The seats and their anchorages: | See Enclosure 5 |
| 9.10.3.4.2 | The adjustment system: | See Enclosure 5 |
| 9.10.3.4.3 | The displacement and locking systems: | See Enclosure 5 |
| 9.10.3.4.4 | The seat-belt anchorages (if incorporated in the seat structure): | See Enclosure 5 |
| 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: | See enclosure 5 |
| 9.10.4.2. | Type-approval number(s), if available: | N/A |
| 9.10.4.3. | For head restraints not yet approved | N/A |
| 9.10.4.3.1. | 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 enclosure 4 |



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|--|--------------------------|---------------------|
| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 5/107 |

- 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:

| First row of seats | | | Anchorage location | |
|--------------------|------------------|----------|--------------------|----------------|
| | | | Vehicle structure | Seat structure |
| Right-hand seat | Lower anchorages | outboard | N/A | N/A |
| | | inboard | N/A | N/A |
| | Upper anchorages | | N/A | N/A |
| Centre seat | Lower anchorages | right | N/A | N/A |
| | | left | N/A | N/A |
| | Upper anchorages | | N/A | N/A |
| Left-hand seat | Lower anchorages | outboard | N/A | N/A |
| | | inboard | N/A | N/A |
| | Upper anchorages | | N/A | N/A |

| Other rows of seats (4 seats in row) | | | Anchorage location | |
|--------------------------------------|------------------|----------|--------------------|----------------|
| | | | Vehicle structure | Seat structure |
| Right-hand seat | Lower anchorages | outboard | – | Ar or Br |
| | | inboard | – | Ar or Br |
| | Upper anchorages | | – | Ar or Br |
| Centre seat | Lower anchorages | right | – | Ar or Br |
| | | left | – | Ar or Br |
| | Upper anchorages | | – | Ar or Br |
| Left-hand seat | Lower anchorages | outboard | – | Ar or Br |
| | | inboard | – | Ar or Br |
| | Upper anchorages | | – | Ar or Br |

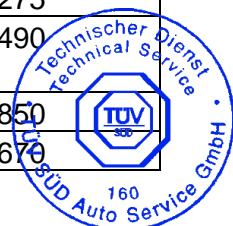
- 9.13.4 Description of a particular type of safety belt where an anchorage is located in the seat backrest or incorporates an energy dissipating device: Ar4m
Br4m
Br3



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|--|--------------------------|---------------------|
| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 6/107 |

Enclosure 1: TABLE OF VEHICLES TYPES

| 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 (SYN_ e.g. SYN1E, SYN2E, SYN2Z) | 3640, 4490 |
| | T5 (7H_, 7E_) | 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) | 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, 3950, 4100, 4750 |
| Nissan | NV200 | 2725 |
| | NV300 | 3098, 3498 |
| | NV400 | 3182, 3682, 4332 |
| Toyota | Pro Ace, Pro Ace Verso (2016) | 2925, 3275 |
| MAN | TGE (SYN_ e.g. SYN1E, SYN2E, SYN2Z) | 3640, 4490 |
| LDV | V80, Maxus (SV6C) | 3100, 3850 |
| Hyundai | H350 (EU(V)) | 3435, 3670 |

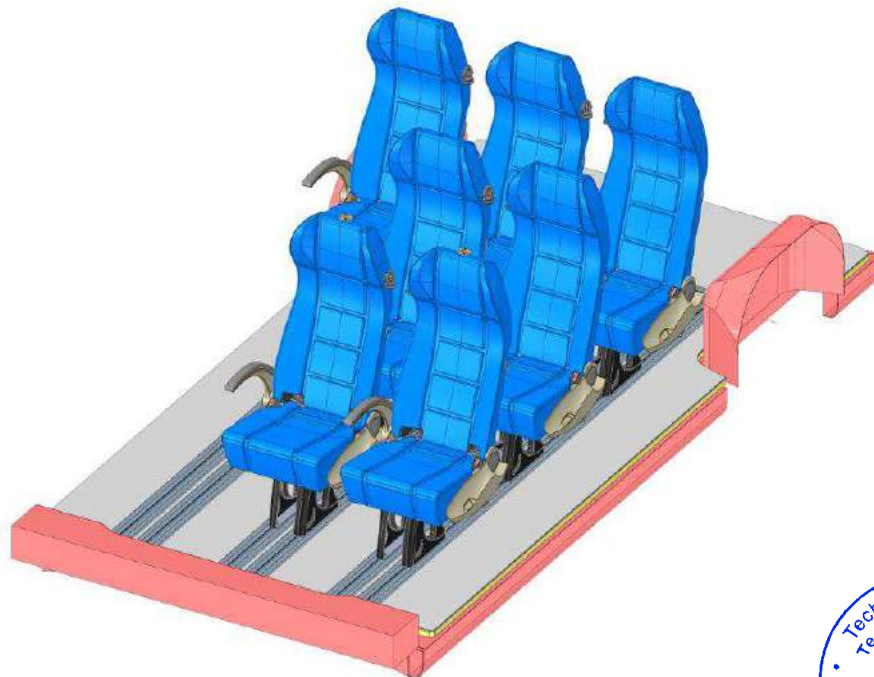


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|--|--------------------------|---------------------|
| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 7/107 |

Enclosure 2: SEATS ARRANGEMENT

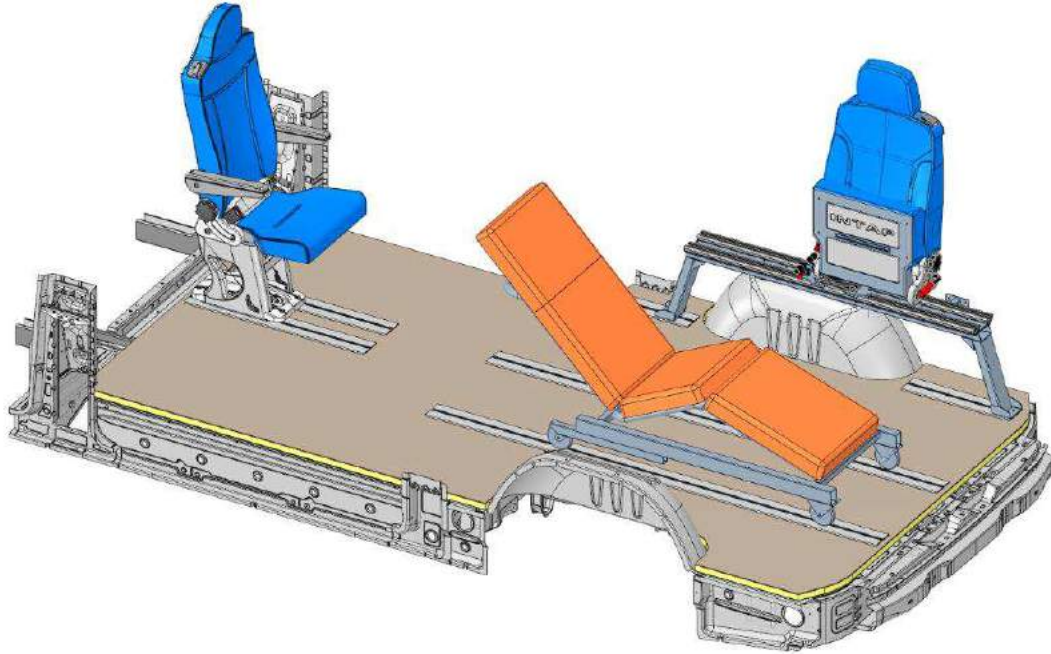
Any seats arrangement allowed but not more than 4 seat in 1 row
Any position of seats on the floor allowed.

Exemplary interior arrangement: Minibus M1

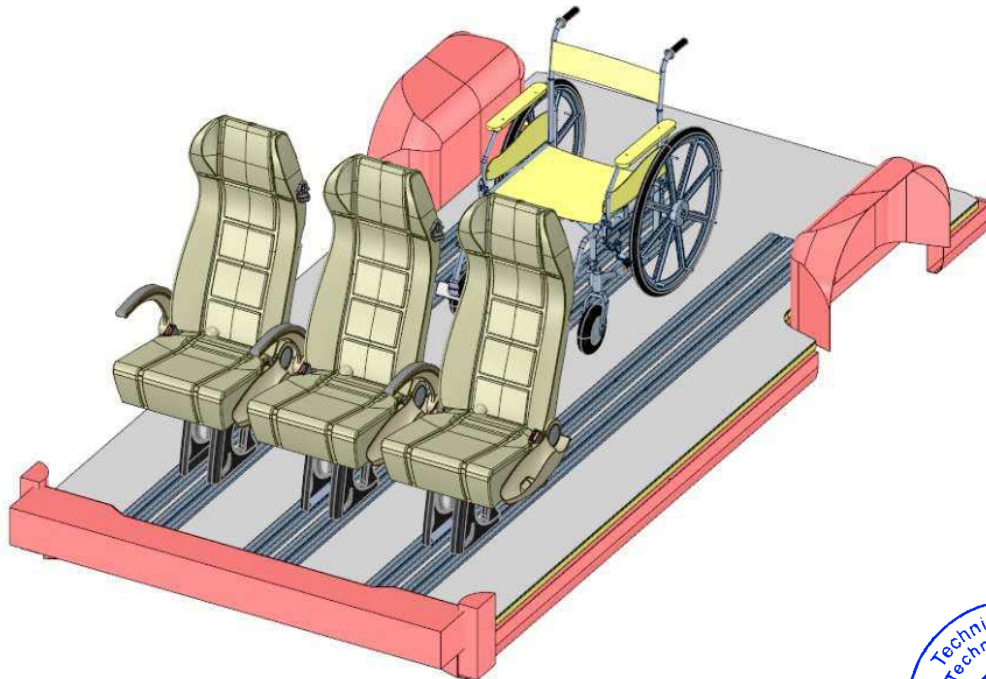


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|--|--------------------------|---------------------|
| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 8/107 |

Exemplary interior arrangement: Ambulance (M1)



Exemplary interior arrangement: Wheelchair accessible vehicle (M1)

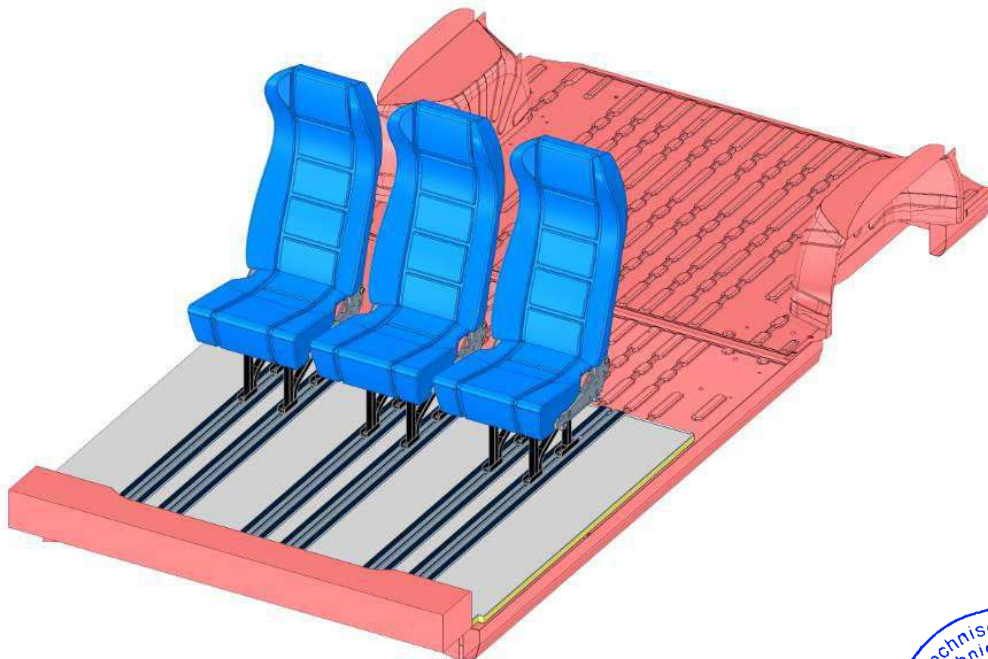


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|--|--------------------------|---------------------|
| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 9/107 |

Exemplary interior arrangement: Minibus (M2/M3)

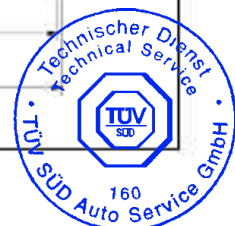
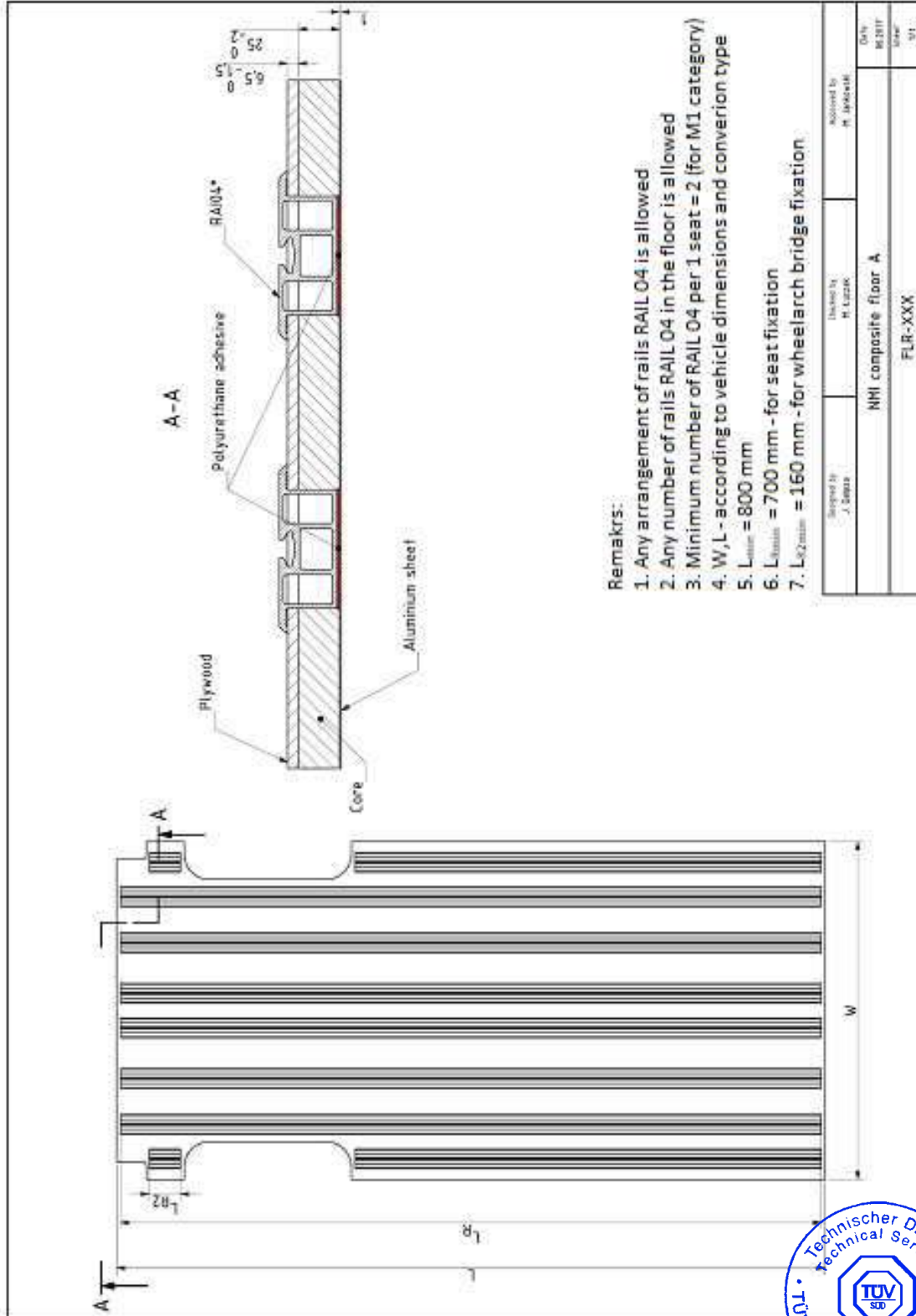


Exemplary interior arrangement: Double Cabine (N1/N2/N3)

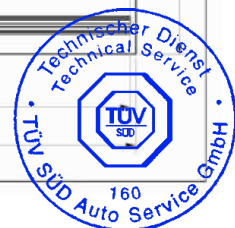
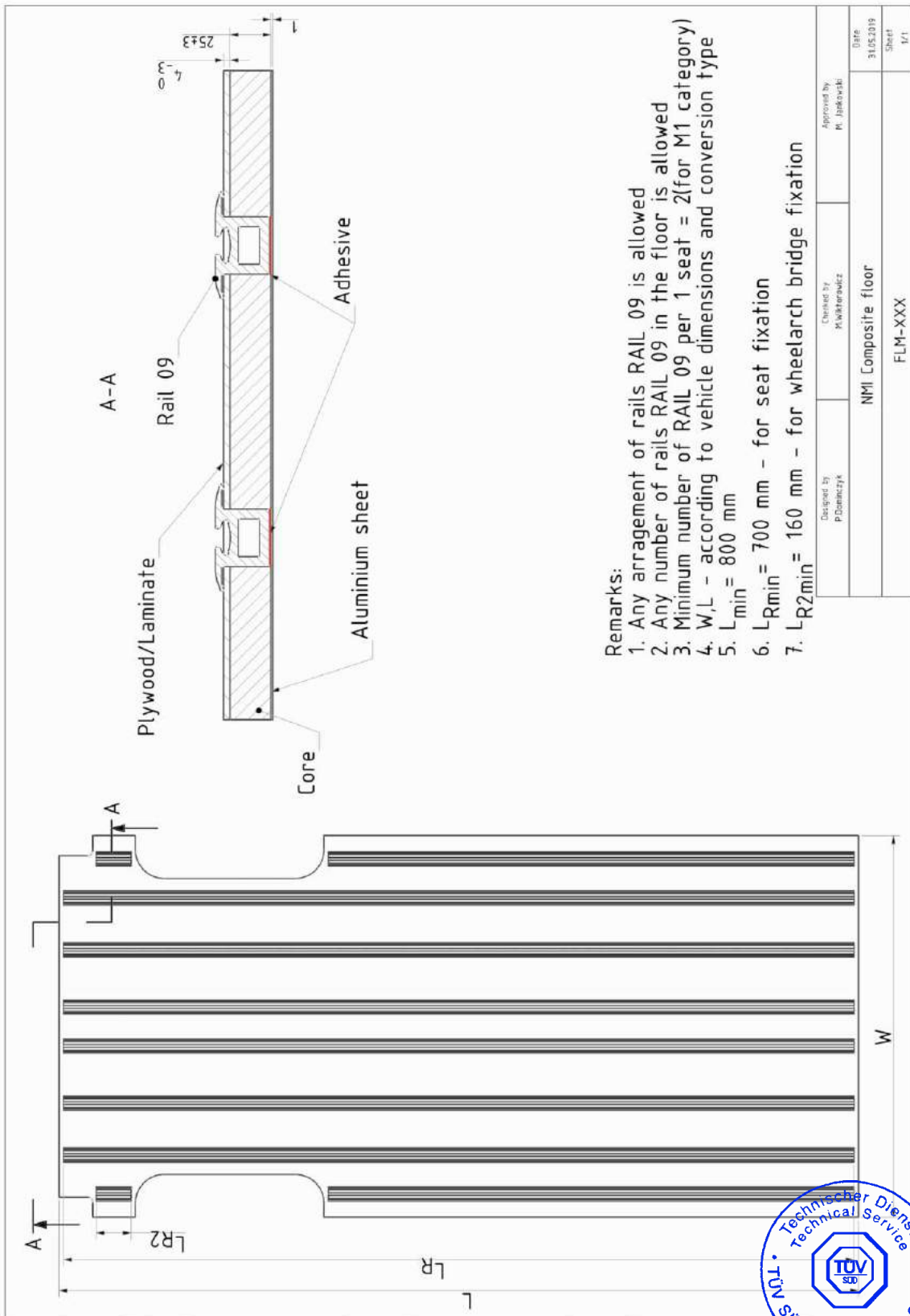


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|--|--------------------------|----------------------|
| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 10/107 |

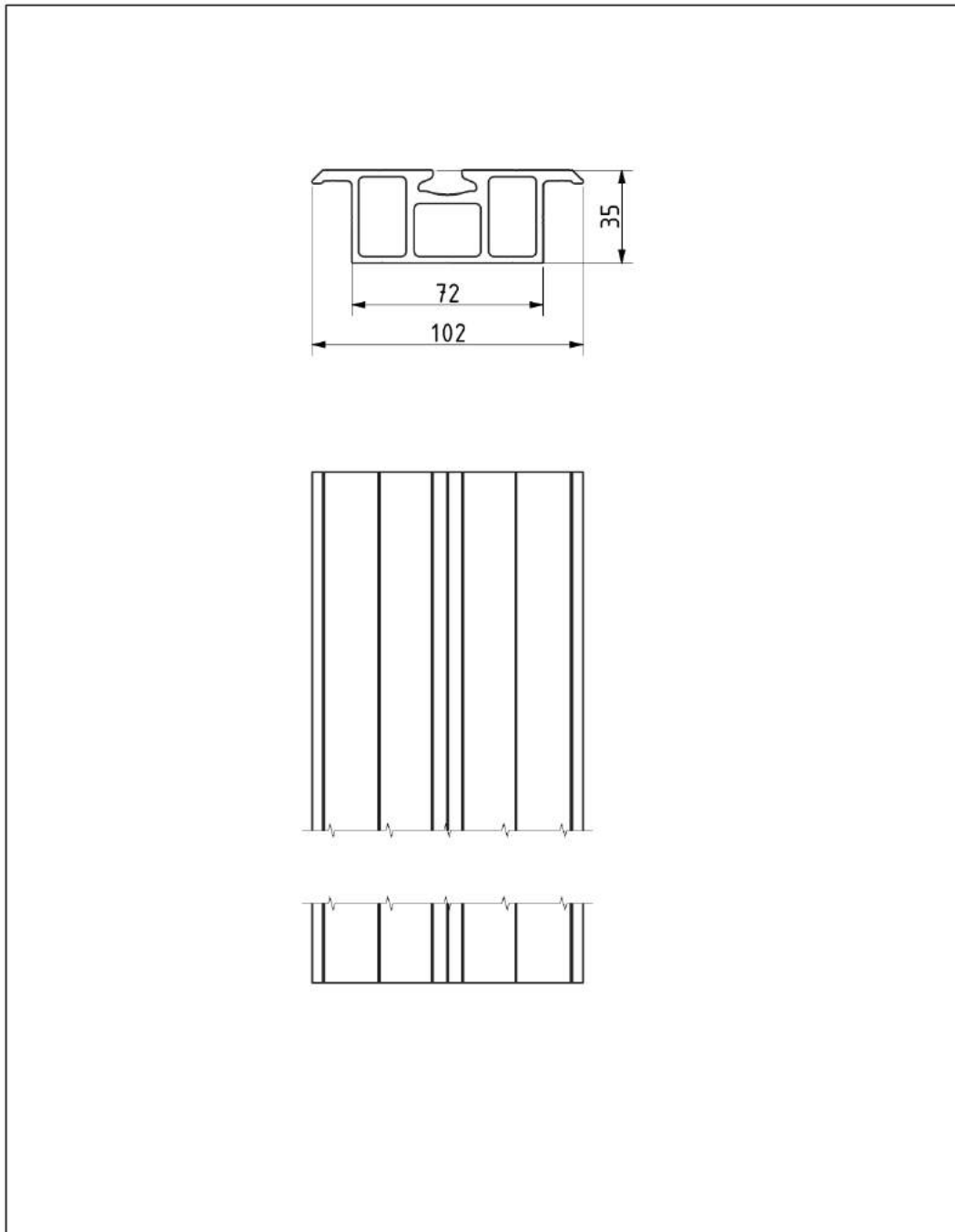
Enclosure 3: NMI Composite floor



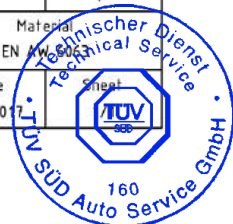
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| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 11/107 |



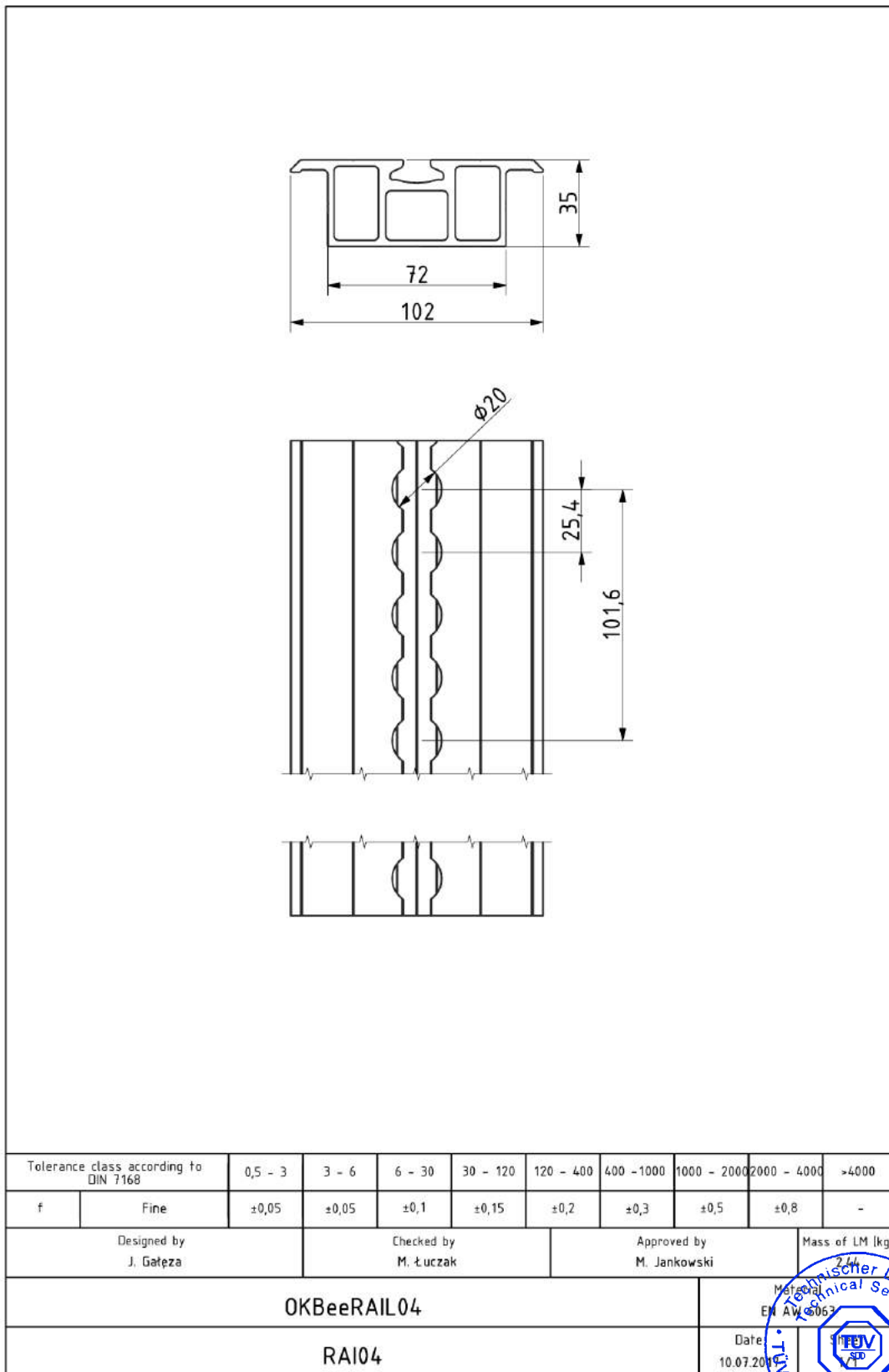
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|--|--------------------------|----------------------|
| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 12/107 |



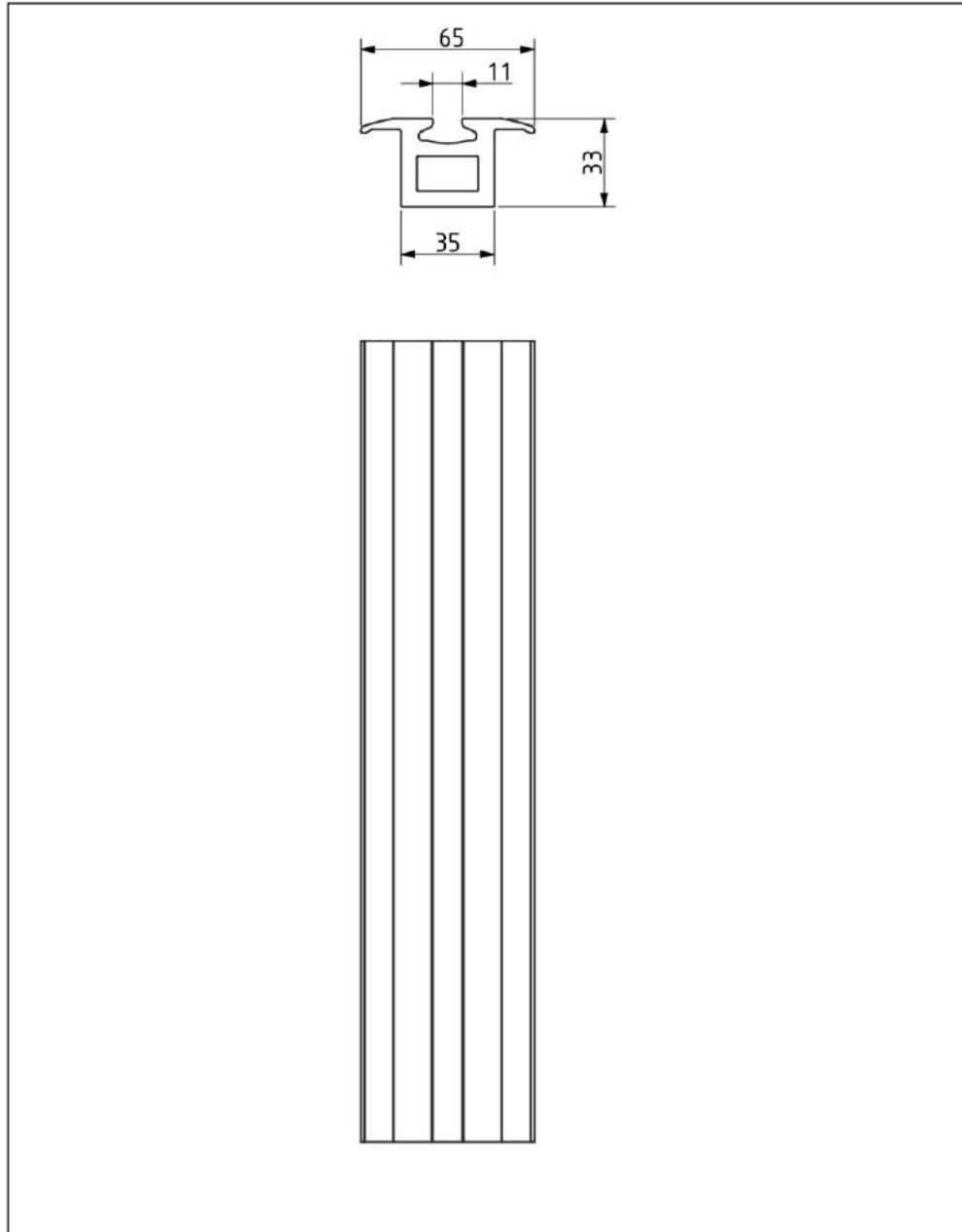
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|---------------------------------------|------|---------|-------------------------|--------|----------|-----------------------------|------------|------------------------|-------------------------|-------|
| Tolerance class according to DIN 7168 | | 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 J. Gałęza | | | Checked by M. Łuczak | | | Approved by M. Jankowski | | | Mass of LM (kg) 2,48 | |
| OKBeeRAIL04 | | | | | | | | Material EN AW-6063 | | |
| RAI04 | | | | | | | | Date 10.07.2017 | | |



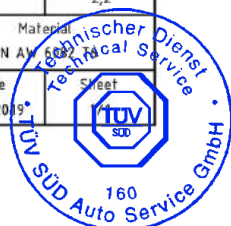
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| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 13/107 |



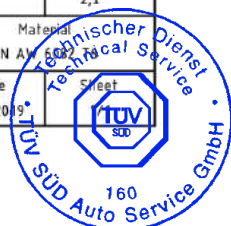
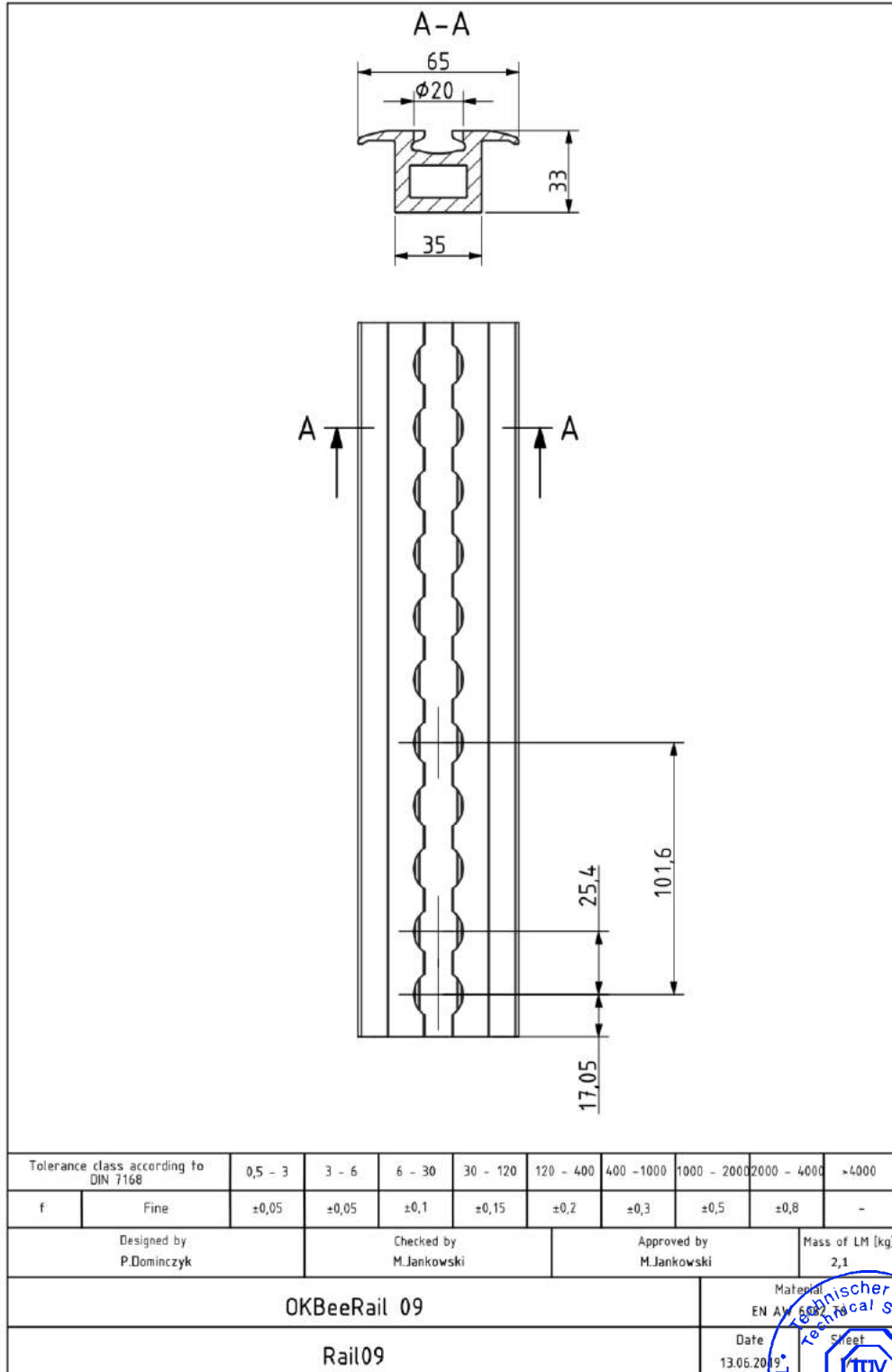
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|--|--------------------------|----------------------|
| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 14/107 |



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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 P.Dominczyk | | | Checked by M.Jankowski | | | Approved by M.Jankowski | | | Mass of LM (kg) 2,2 | |
| OKBeeRail 09 | | | | | | | | | Material EN AW 6062 T6 | |
| Rail 09 | | | | | | | | | Date 13.06.2019* | |

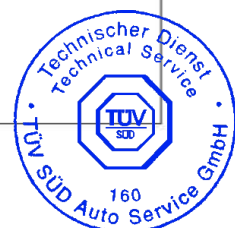
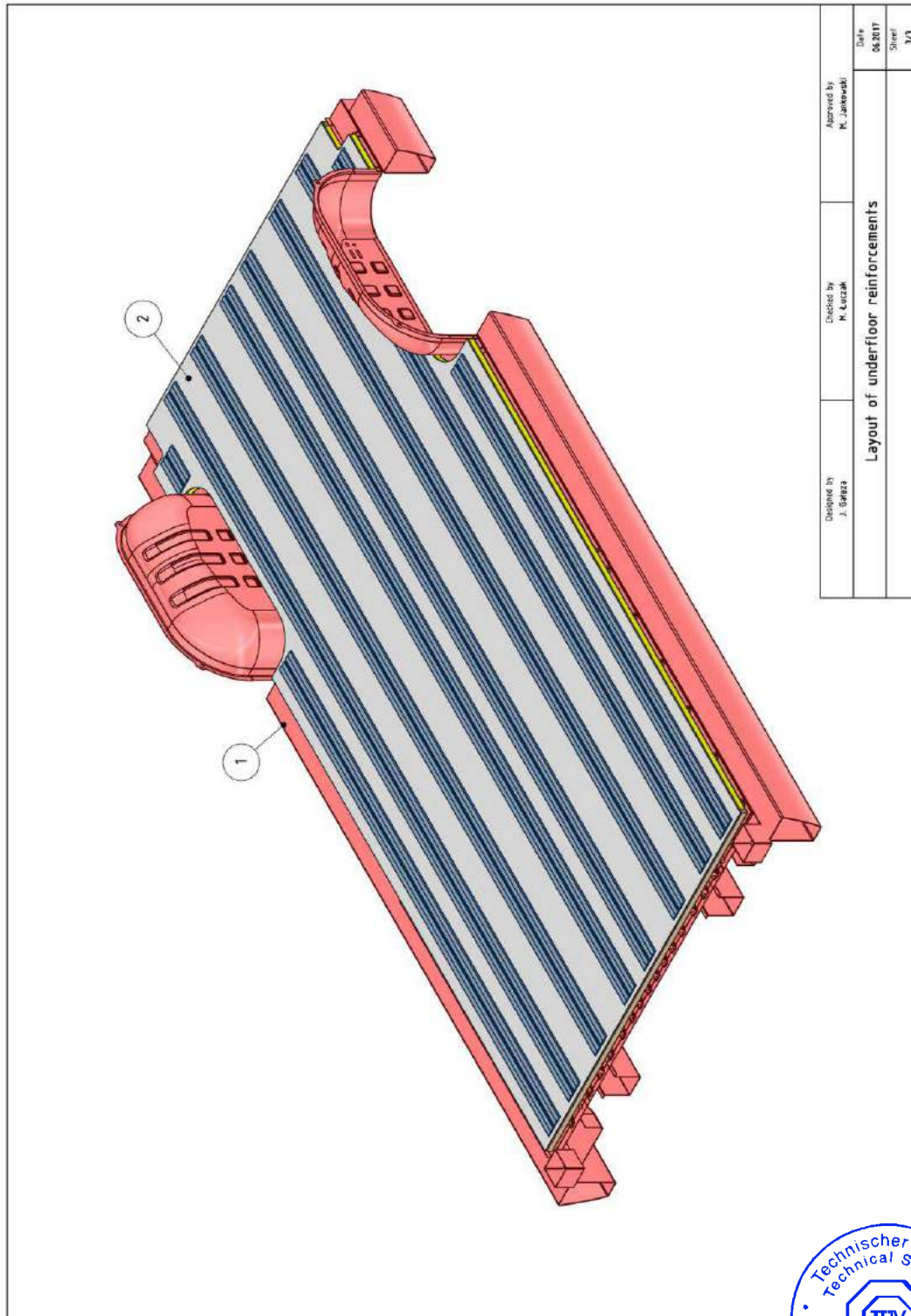


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|--|--------------------------|----------------------|
| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 15/107 |

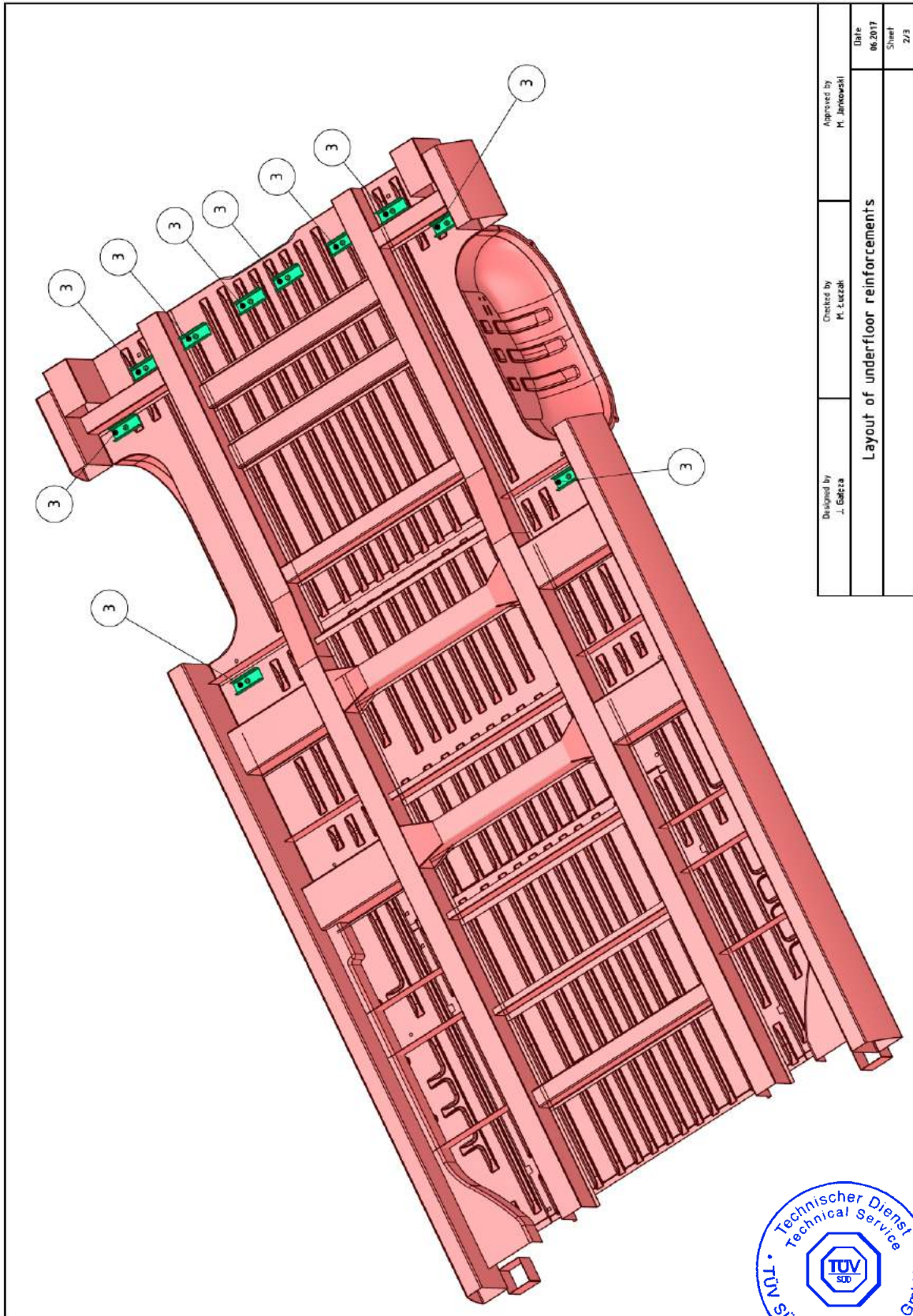


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|--|--------------------------|----------------------|
| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 16/107 |

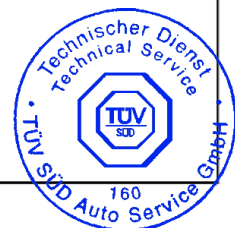
Enclosure 4 : Method of floor fixation to the vehicle Method A (with glue)



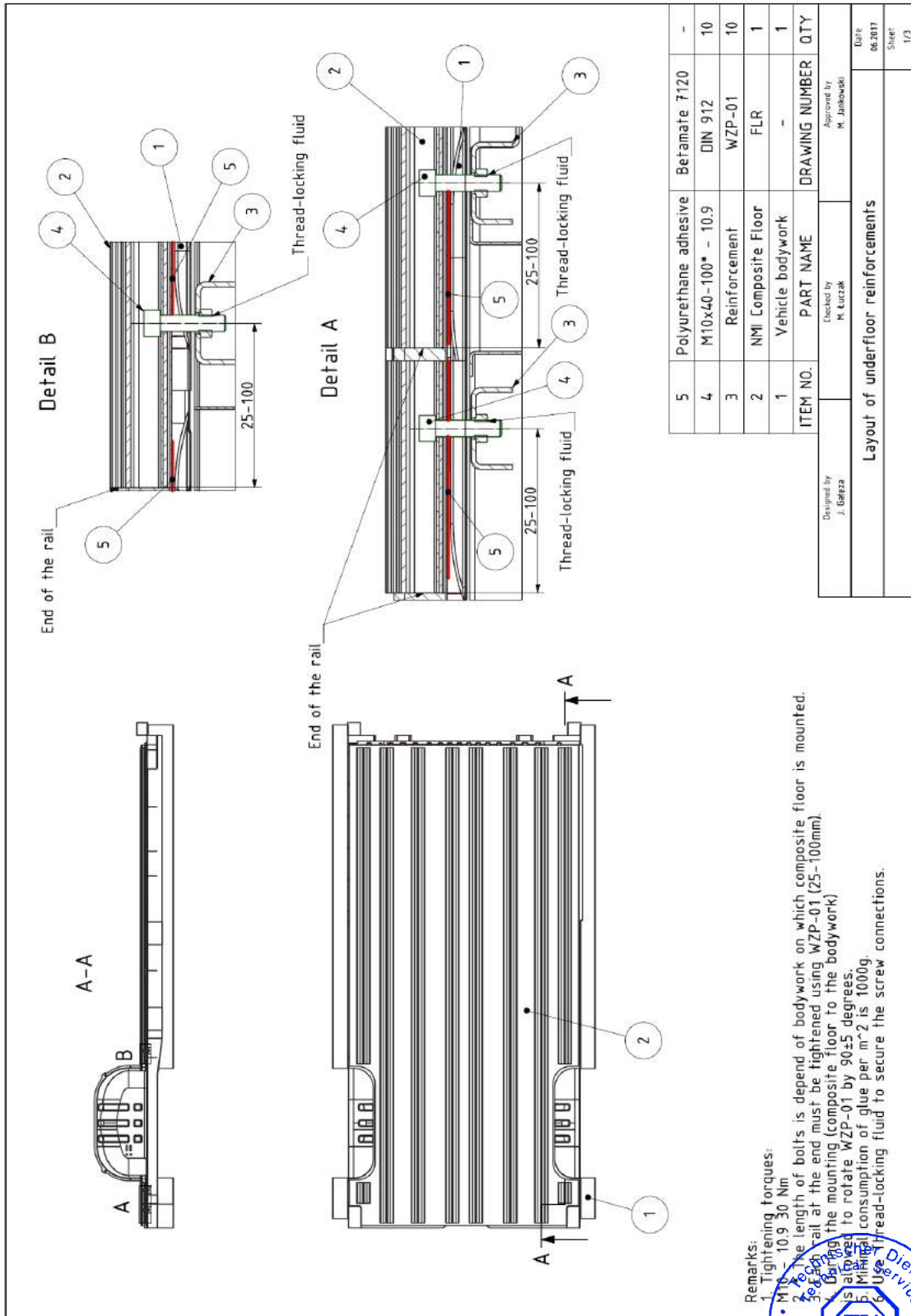
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| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 17/107 |



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| Designed by J. Gafca | Checked by M. Luszcz | Approved by M. Jankowski | Date 06.2019 |
| Layout of underfloor reinforcements | | | Sheet 2/3 |



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|--|--------------------------|----------------------|
| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 18/107 |

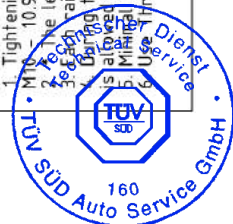


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| 5 | Polyurethane adhesive | Betamate 7120 | - |
| 4 | M10x40-100* - 10.9 | DIN 912 | 10 |
| 3 | Reinforcement | WZP-01 | 10 |
| 2 | NMI Composite Floor | FLR | 1 |
| 1 | Vehicle bodywork | - | 1 |
| ITEM NO. | | PART NAME | DRAWING NUMBER QTY |
| Designed by J. Górecki | | Checked by K. Kurczak | Approved by M. Janowski |
| Date | | | 06.2017 |
| Sheet | | | 1/3 |

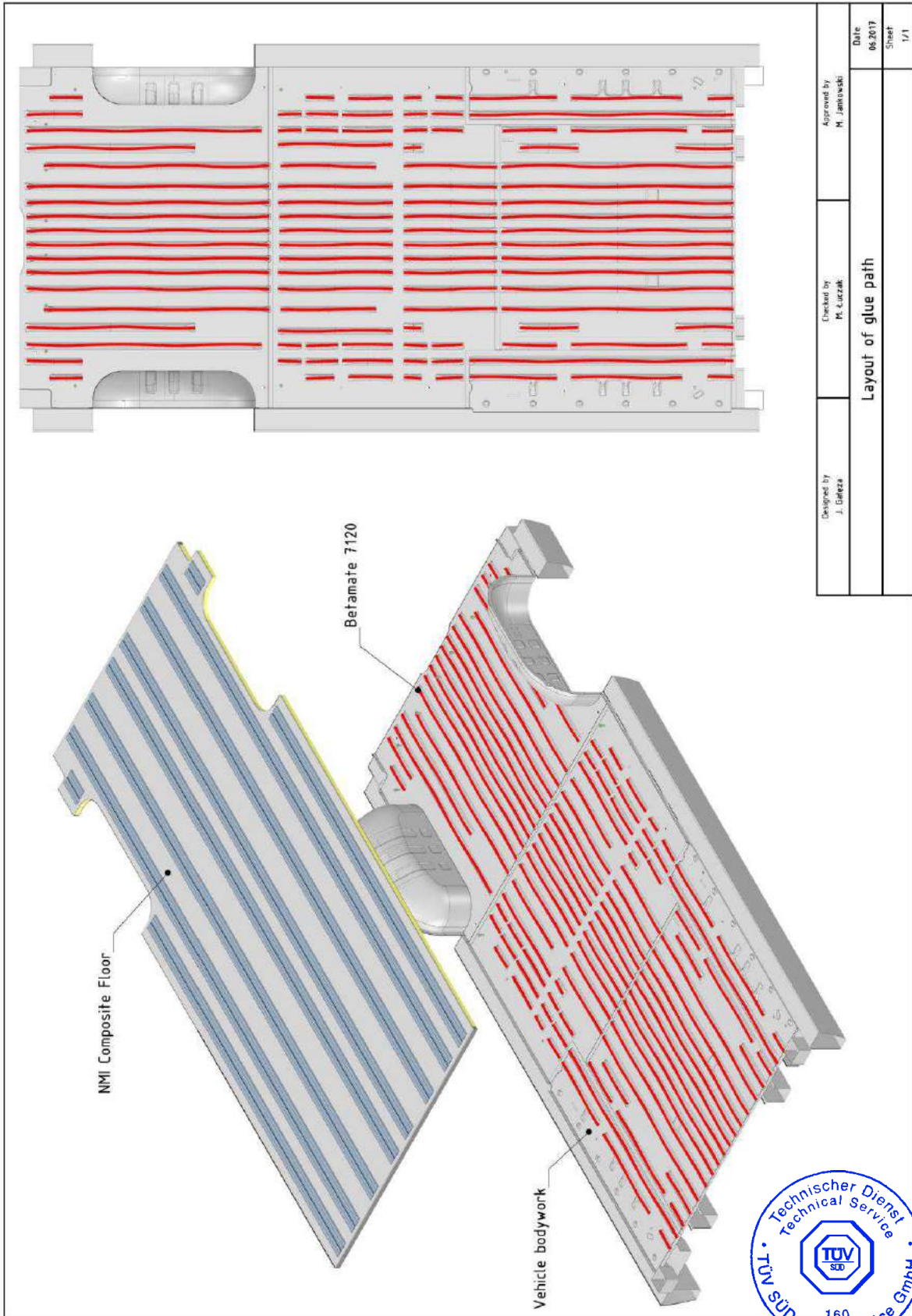
Layout of underfloor reinforcements

Remarks:

1. Tightening torques:
 1. M10 - 10.9 30 Nm
 2. M10 - 10.9 30 Nm
2. The length of bolts is depend of bodywork on which composite floor is mounted.
3. Each bolt at the end must be tightened using WZP-01 (25-100mm).
4. During the mounting (composite floor to the bodywork) is allowed to rotate WZP-01 by 90±5 degrees.
5. Maximal consumption of glue per m² is 1000g.
6. Use of thread-locking fluid to secure the screw connections.

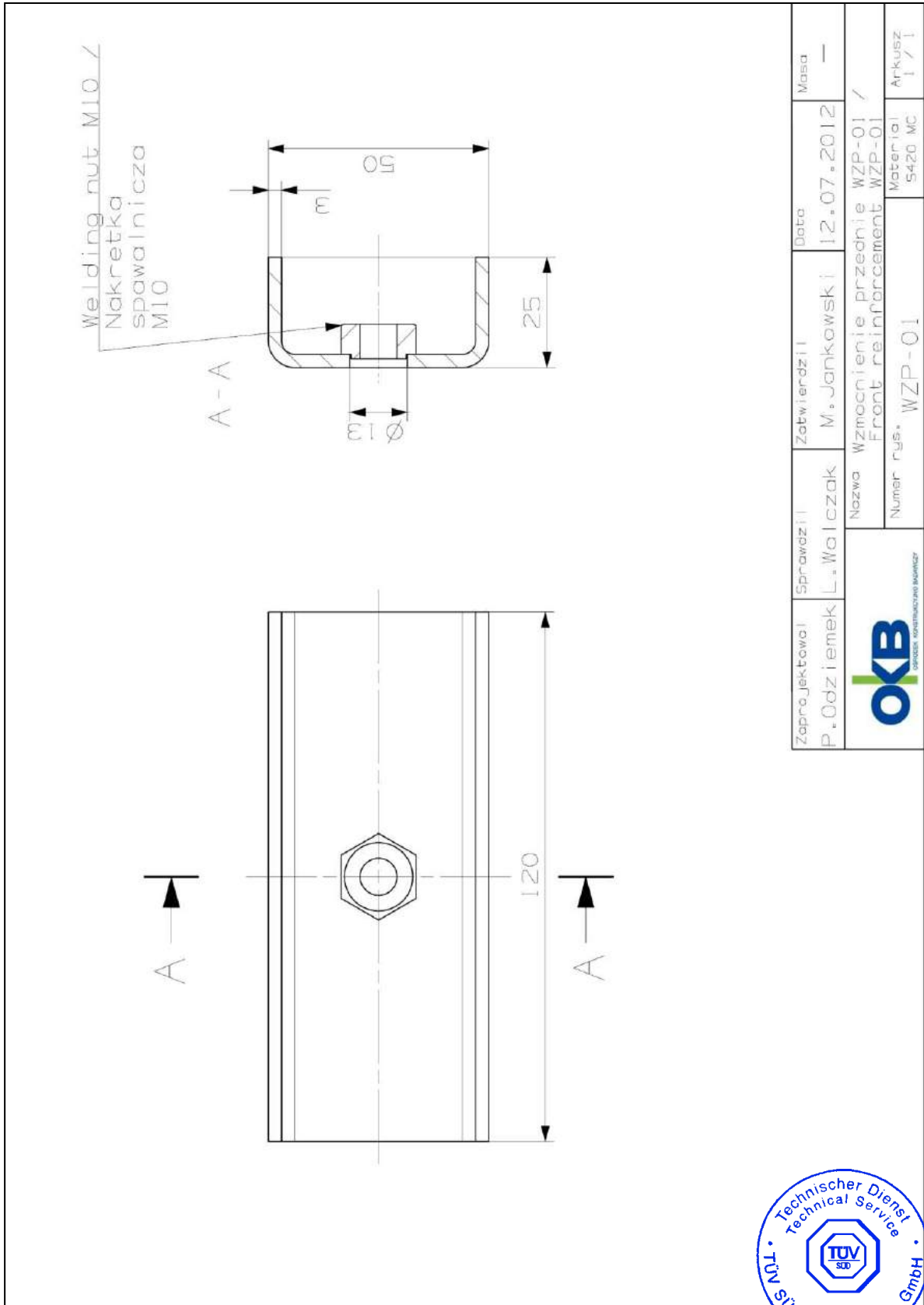


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|--|--------------------------|----------------------|
| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 19/107 |



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| Designed by J. Galesa | Checked by M. Kurzak | Approved by M. Janowski | Date 06.2019 |
| Layout of glue path | | | Sheet 1/1 |

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|--|--------------------------|----------------------|
| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 20/107 |



| | | |
|--|--------------------------|----------------------|
| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 21/107 |

Preparation of the vehicle body and the composite floor

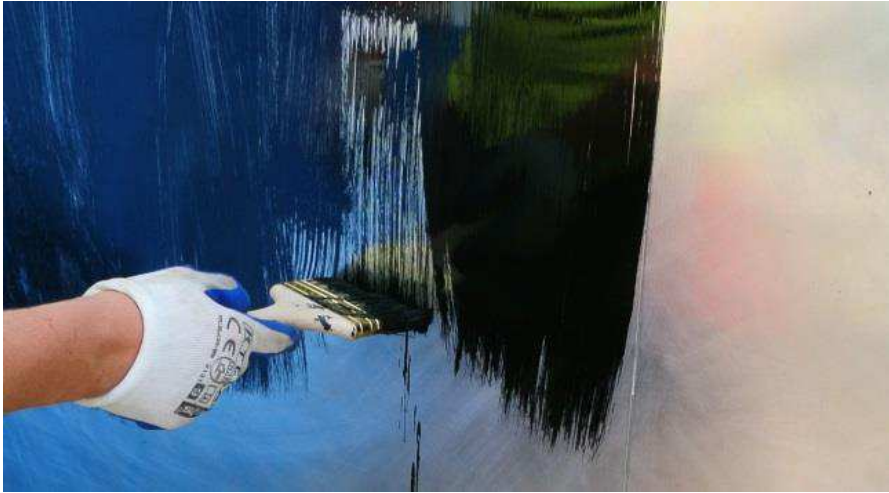


Clean vehicle bodywork before installing the floor. For this purpose use Betaclean (cleaner) to degrease the vehicle's floor and the underside of the composite floor.



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|--|--------------------------|----------------------|
| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 22/107 |

Application of primer



Apply Betaprime to the vehicle's floor and underside of the composite floor. Primer can be applied with either a brush or a roller. Note: Contact surfaces (of vehicle floor and composite floor) must be covered by Betaprime.



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|--|--------------------------|----------------------|
| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 23/107 |

Gluing of the floor into vehicle



Apply Betamate on the vehicle floor. Primer should be dry.
Processing temperature: 10-40°C

The adhesive must be applied to the surfaces coated previously by Betaprime.

Support the floor in the flat areas of vehicle floor. You can use metal or plywood pads.

After placing the composite floor in the vehicle, the beads of glue must be slightly pressed down evenly over the whole surface of the floor.

Leave the floor for at least 24 h. Don't walk on the floor and don't move the vehicle.



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|--|--------------------------|----------------------|
| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 24/107 |



Technical Data Sheet

Dow Automotive

BETACLEAN 3350

Description / Application:

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

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

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

Technical Data:

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

DOW AUTOMOTIVE Quality Management

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

Dow Automotive AG
CH-8807 Freienbach
Tel. +41(0)55416 81 11
Fax +41(0)55416 82 20

Dow Automotive (Deutschland) GmbH
D-35693 Dillenburg
Tel. +49(0)2771 8 71 40
Fax +49(0)2771 87 14 70

Dow Automotive (Italia) S.r.l
I-20010 Bareggio (MI)
Tel. +39(0)2 90 36 11 66
Fax +39(0)2 90 27 66 98

Dow Automotive (España) S.A.
E-28816 Camarma de Esteruelas (Madrid)
Tel. +34 (9)1 886 61 43
Fax +34 (9)1 885 75 60

Dow Automotive (France) S.A.
F-60130 Saint-Just en chauseee
Tel. +33(0) 3 44 77 61 00
Fax. +33(0) 3 44 77 61 61

Dow Automotive (UK) Ltd.
GB-Nuneaton-Warwickshire CV10 7QT
Tel. +44 (0) 24 7635 72 00
Fax. +44 (0) 24 7635 72 57



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|--|--------------------------|----------------------|
| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 25/107 |



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.

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

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

Technical Data:

| | |
|------------------------------------|---|
| Basis | Silane modified polymers |
| Colour | black |
| Pigments | carbon black |
| Density | 0.91 - 0.93 g/cm ³ |
| Viscosity (DIN-cup 4) | 10 - 14 s @ 23°C |
| Flash Point | approx. -8°C |
| Processing temperature | ideal 10 - 35°C |
| Tack free time | 50 - 150 sec @ 23°C / 50 % r.h. |
| Evaporation time | min. 10 min @ 23°C / 50 % r.h., max. 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 |



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| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 26/107 |

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

DOW AUTOMOTIVE Quality Management

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

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

Dow Automotive AG
CH-8807 Freienbach
Tel. +41(0)55416 81 11
Fax +41(0)55416 82 20

Dow Automotive (Italia) S.r.l
I-20010 Bareggio (MI)
Tel. +39(0)2 90 36 11 66
Fax +39(0)2 90 27 66 98

Dow Automotive (France) S.A.
F-60130 Saint-Just en chaussee
Tel. +33(0) 3 44 77 61 00
Fax. +33(0) 3 44 77 61 61

Dow Automotive (Deutschland) GmbH
D-35683 Dillenburg
Tel. +49(0)2771 8 71 40
Fax +49(0)2771 87 14 70

Dow Automotive (España) S.A.
E-28816 Camarma de Esteruelas (Madrid)
Tel. +34 (9)1 886 61 43
Fax +34 (9)1 885 75 60

Dow Automotive (UK) Ltd.
GB-Nuneaton-Warwickshire CV10 7QT
Tel. +44 (0) 24 7635 72 00
Fax. +44 (0) 24 7635 72 57



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| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 27/107 |



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.

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

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

Technical Data:

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



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| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 28/107 |

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

Dow Automotive Quality Management

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

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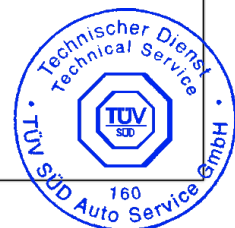
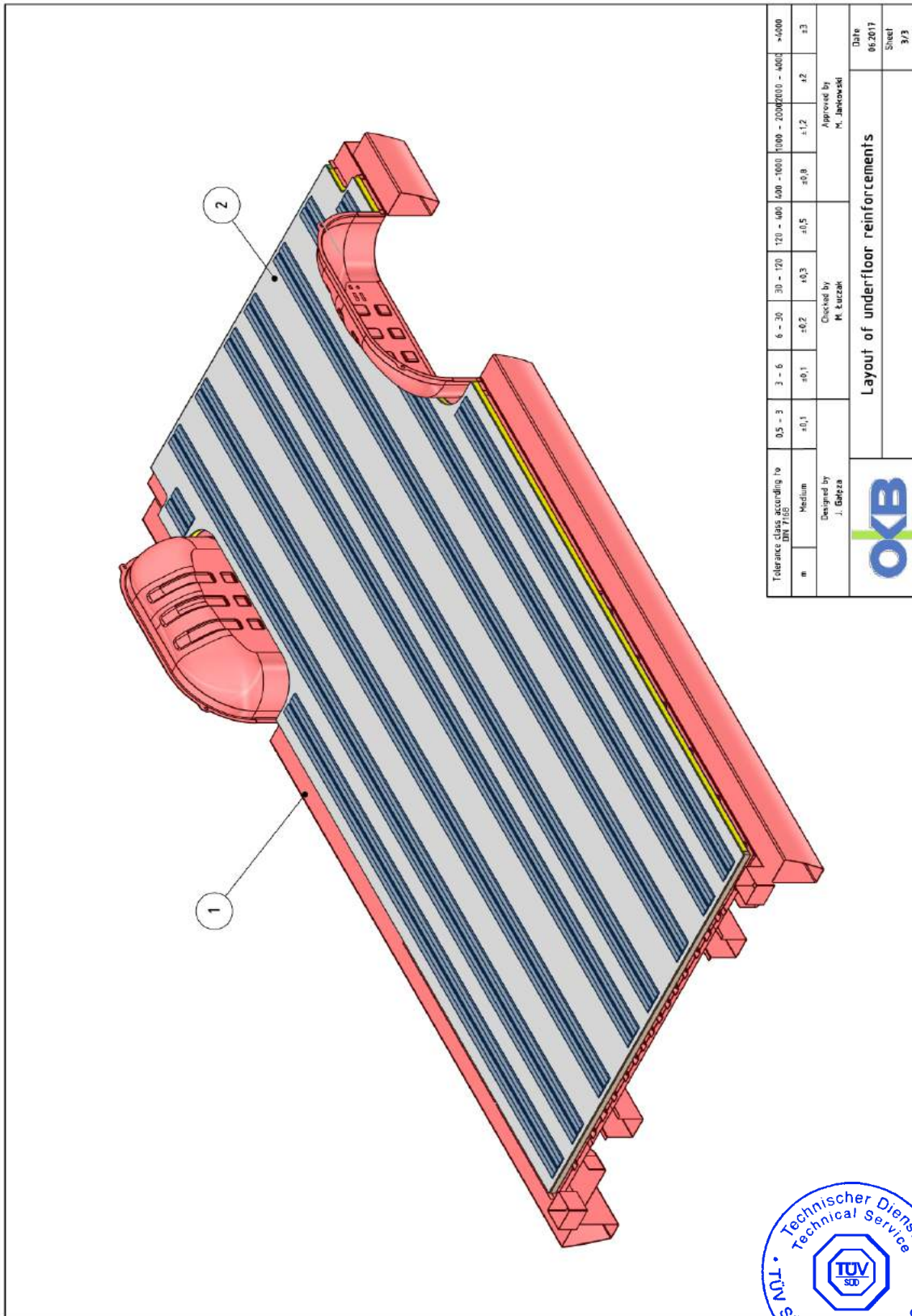
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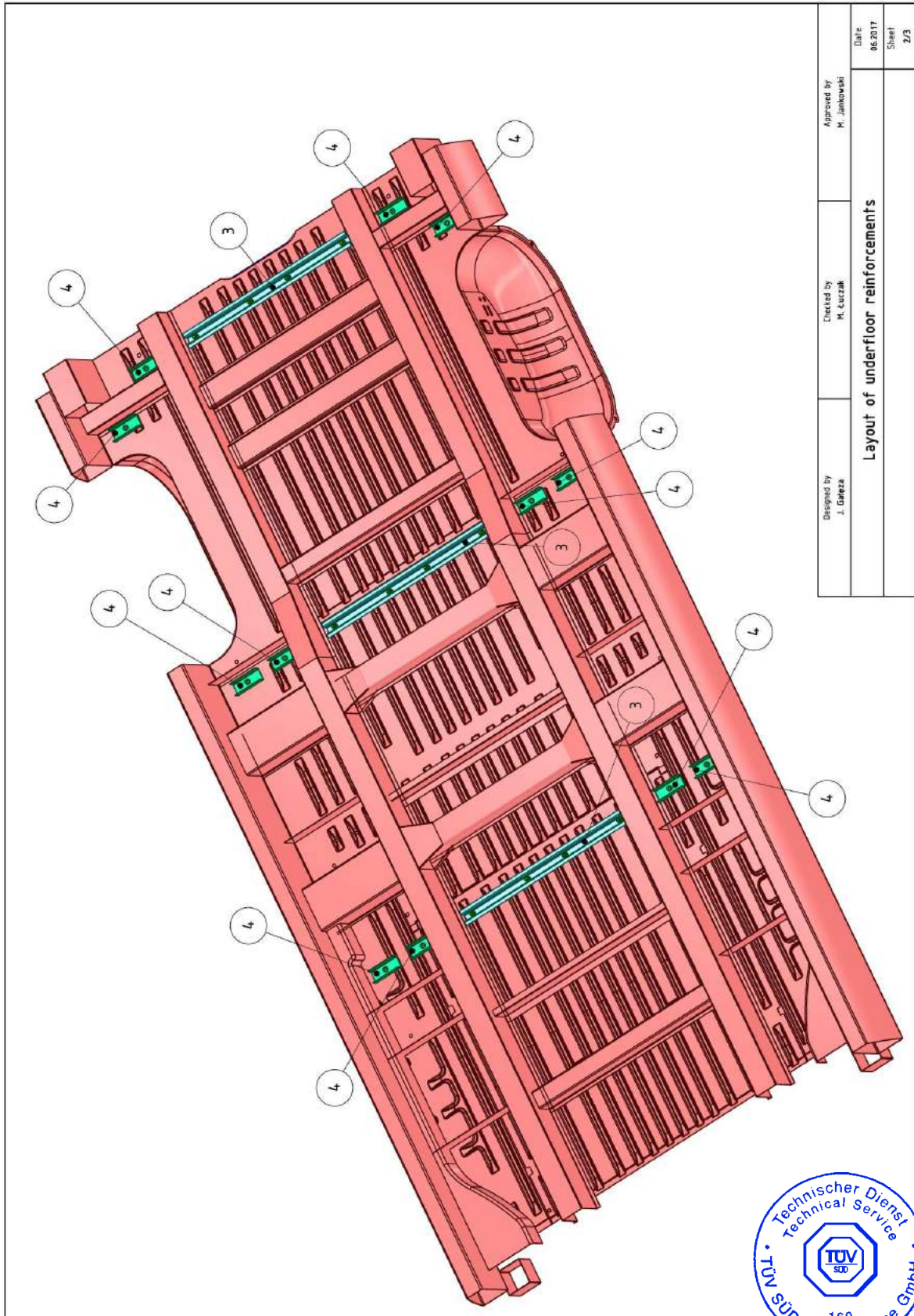


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| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 29/107 |

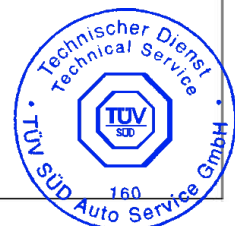
Method B (without glue)



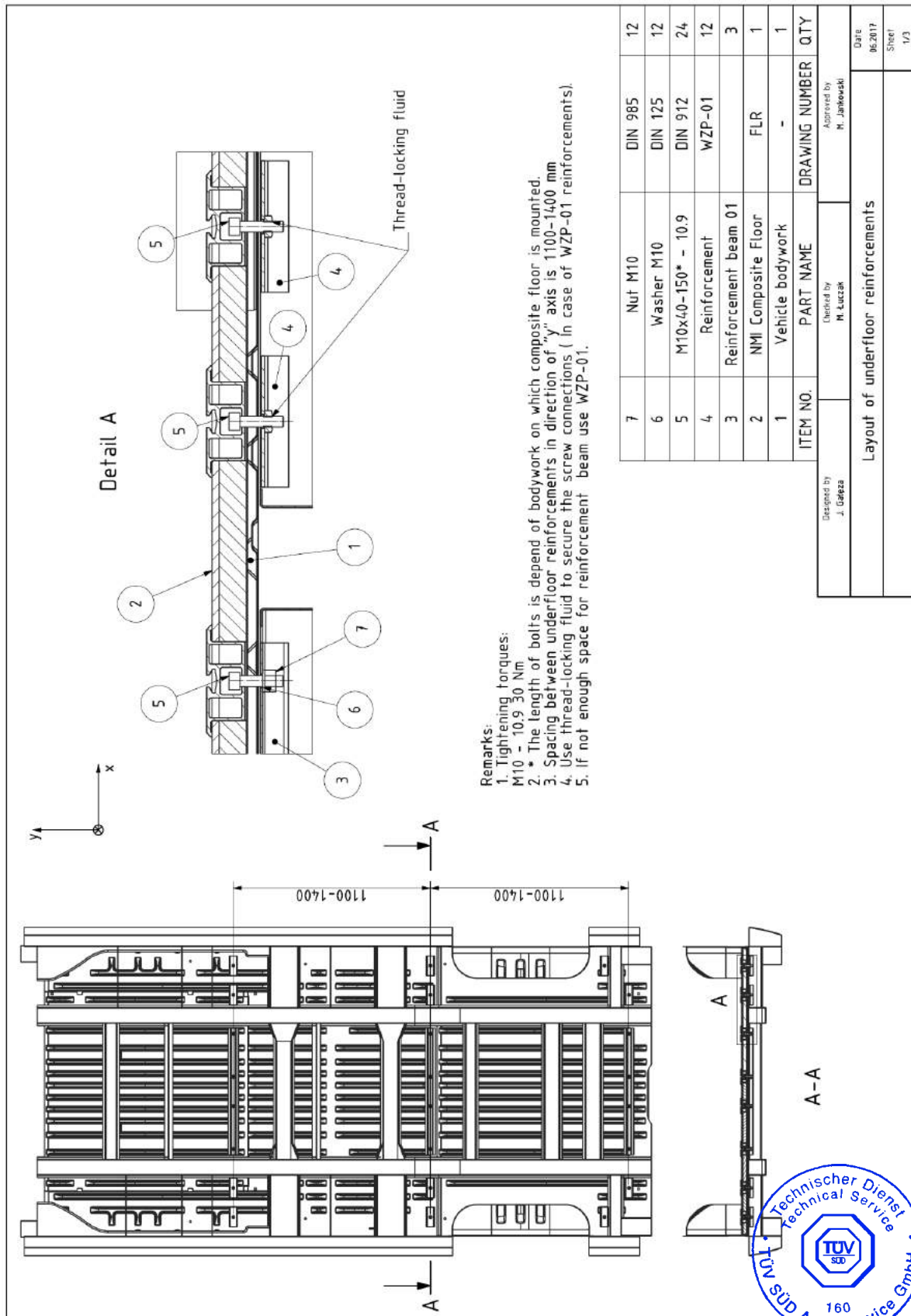
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| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 30/107 |



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|-------------------------------------|-------------------------|-----------------------------|-----------------|
| Designed by J. Gazez | Checked by M. Kurzak | Approved by M. Jankowski | Date 06.2017 |
| Layout of underfloor reinforcements | | | Sheet 2/3 |



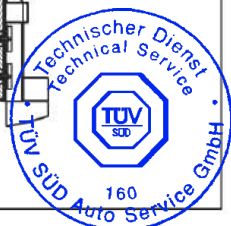
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| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 31/107 |



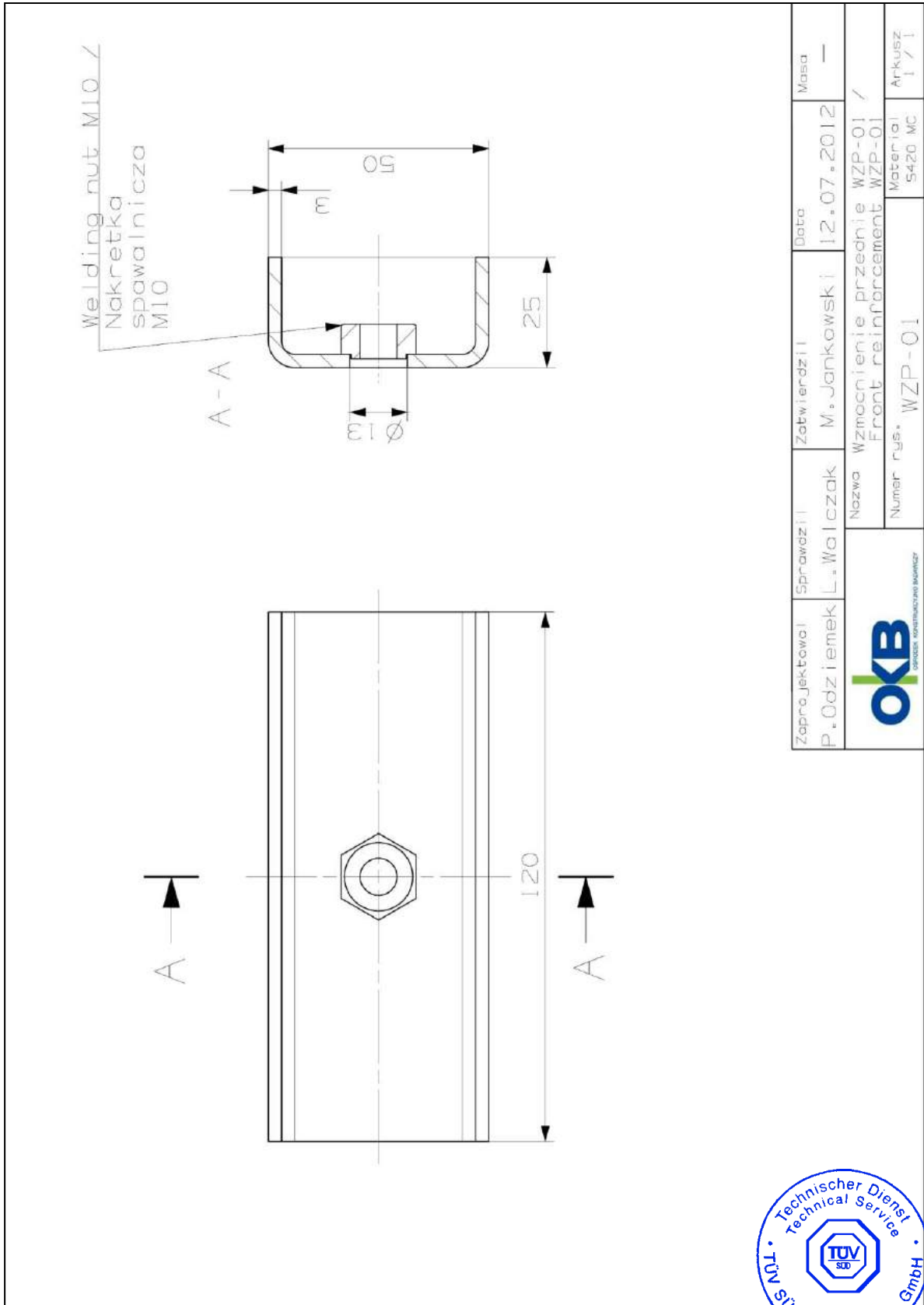
Remarks:
 1. Tightening torques:
 M10 - 10.9 30 Nm
 2. * The length of bolts is depend of bodywork on which composite floor is mounted.
 3. * Spacing between underfloor reinforcements in direction of 'y' axis is 1100-1400 mm
 4. Use Thread-locking fluid to secure the screw connections (in case of WZP-01 reinforcements.)
 5. If not enough space for reinforcement beam use WZP-01.

| | | | |
|---|-----------------------|---------|----|
| 7 | Nut M10 | DIN 985 | 12 |
| 6 | Washer M10 | DIN 125 | 12 |
| 5 | M10x40-150* - 10.9 | DIN 912 | 24 |
| 4 | Reinforcement | WZP-01 | 12 |
| 3 | Reinforcement beam 01 | | 3 |
| 2 | NMI Composite Floor | FLR | 1 |
| 1 | Vehicle bodywork | | 1 |

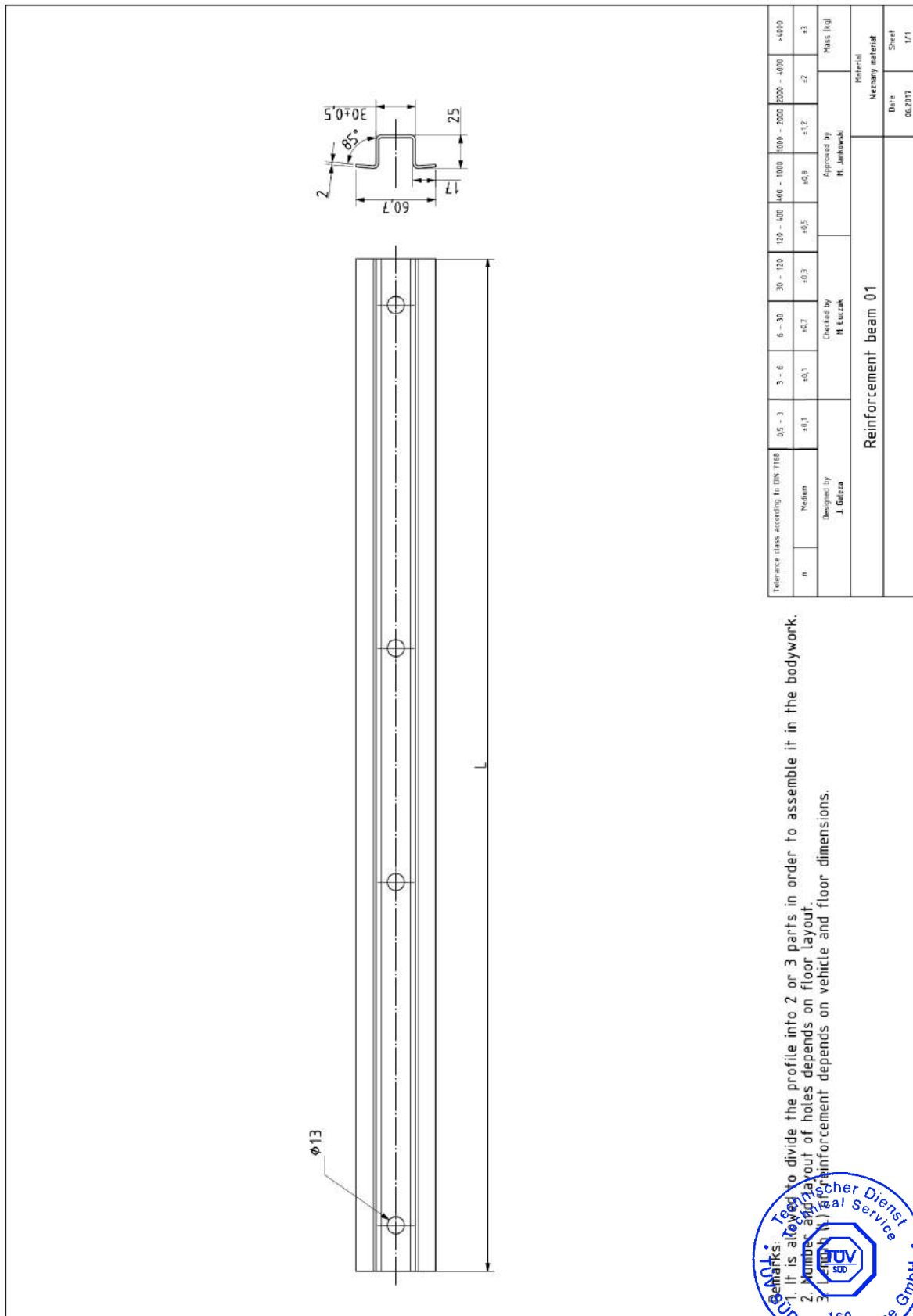
| | | | |
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| ITEM NO. | PART NAME | DRAWING NUMBER | QTY |
| | Checked by M. Luszczak | | |
| | Approved by M. Janowski | | |



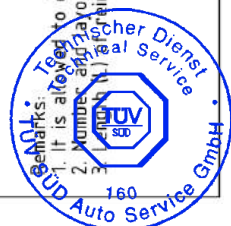
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| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 32/107 |



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| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 33/107 |



Remarks: To be divided into 2 or 3 parts in order to assemble it in the bodywork.
 1. It is allowed to change the layout of holes depends on floor layout.
 2. Number of holes depends on vehicle and floor dimensions.
 3. Reinforcement depends on vehicle and floor dimensions.



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| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 34/107 |

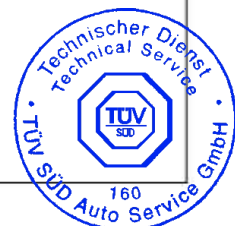
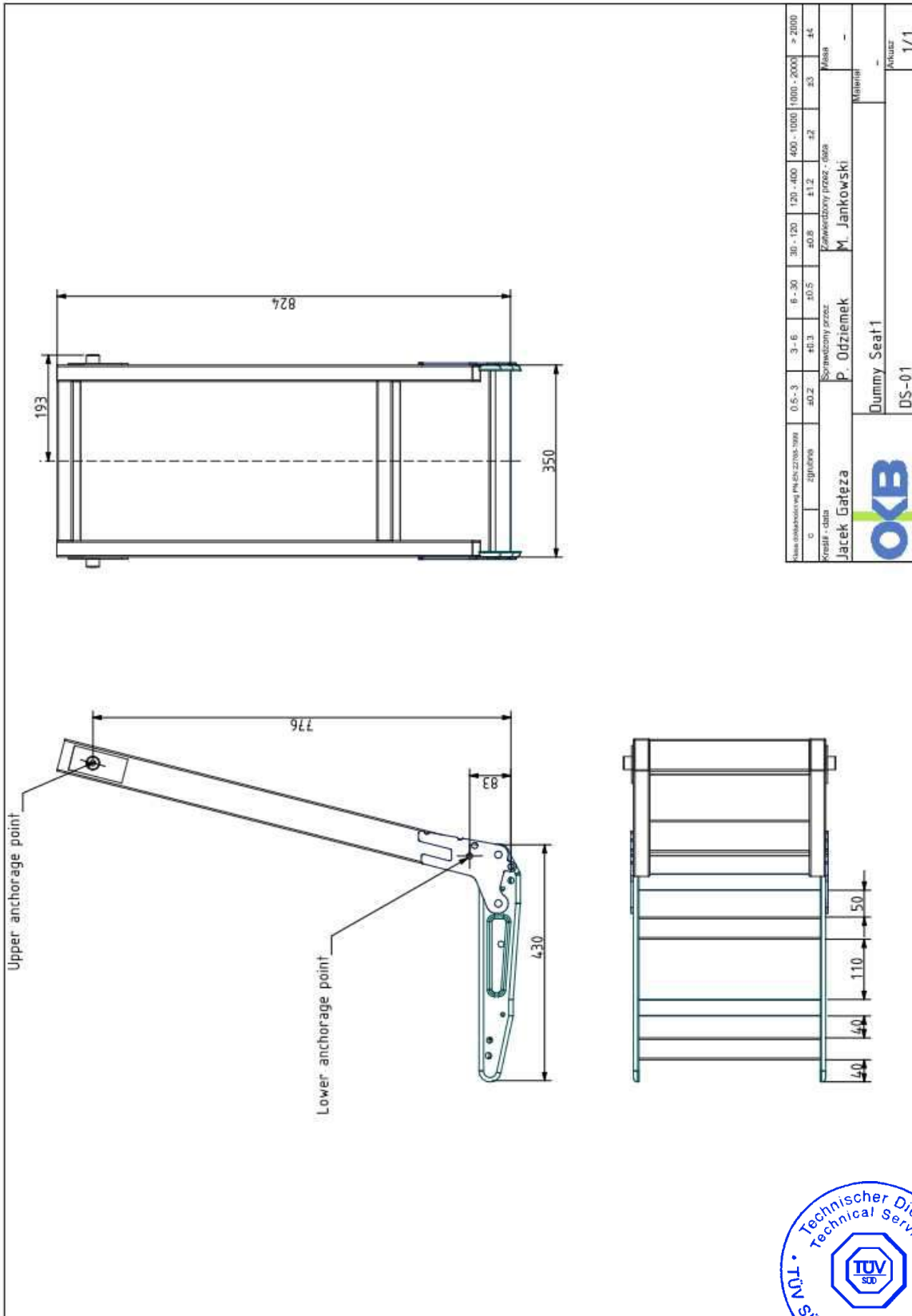
Enclosure 5: SEATS AND THEIR ANCHORAGES

5.1. Any seats

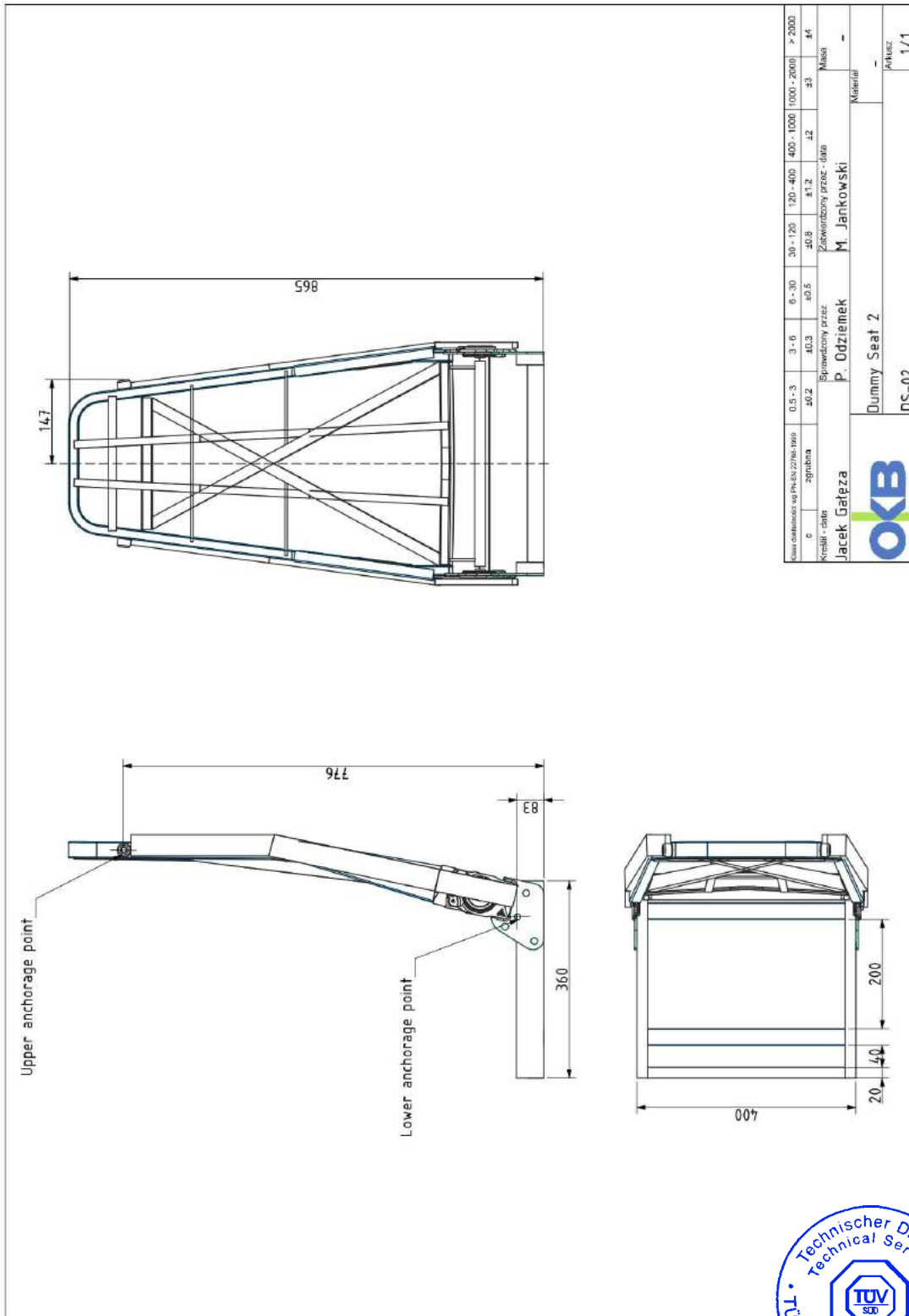
Any seat can be used with the NMI M1 Ultralight composite floor if tested according to the Regulation ECE 14, for appropriate vehicle category and seatbelt anchorages on that seat not higher than on the dummy seats used for the tests of the floor.



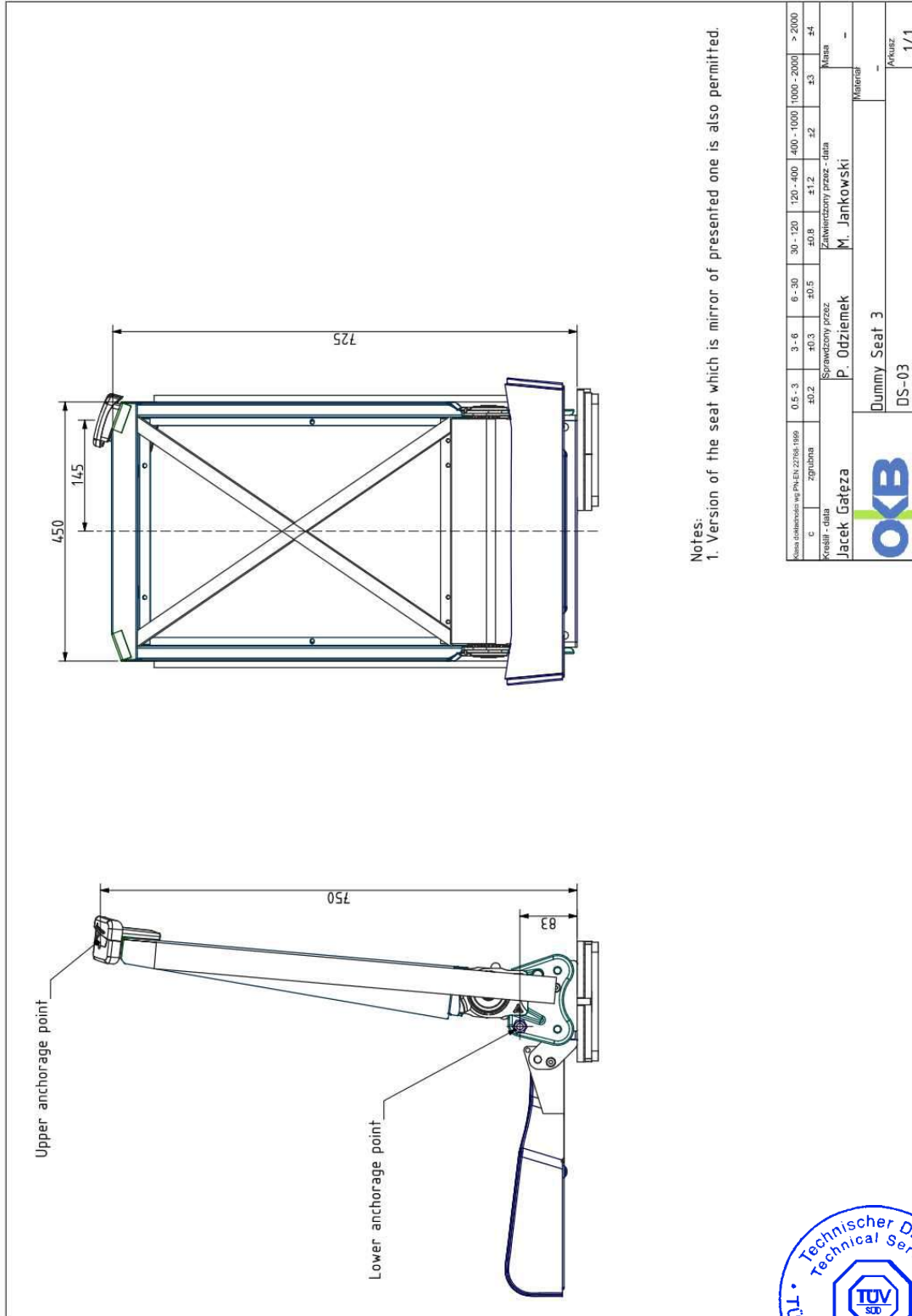
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| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 35/107 |



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| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 36/107 |

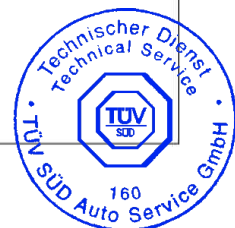


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| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 37/107 |

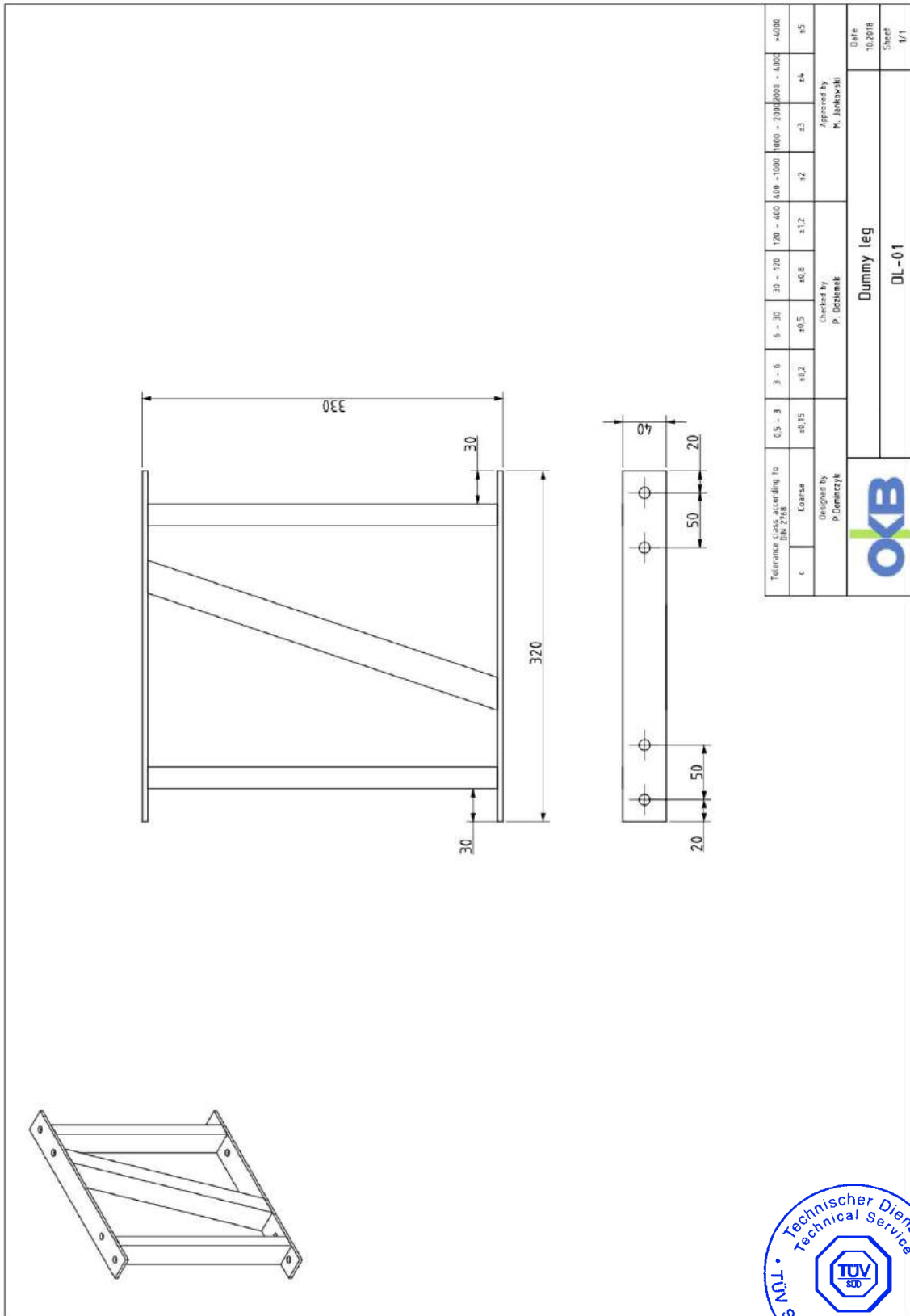


Notes:
1. Version of the seat which is mirror of presented one is also permitted.

| | | | | | | | | | |
|---|------------------|--------------|--------------------------|--------|----------|-----------|------------|-------------|--------|
| Klasa (skala) normy wg PN-EN 22196:1999 | | 0,5 - 3 | 3 - 6 | 6 - 30 | 30 - 120 | 120 - 400 | 400 - 1000 | 1000 - 2000 | > 2000 |
| C | zgrubiana | ±0,2 | ±0,3 | ±0,5 | ±0,8 | ±1,2 | ±2 | ±3 | ±4 |
| Kontroler - data | Sprawdzony przez | | Zawierczony przez - data | | Miejsce | | Materiał | | |
| Jacek Gałęza | P. Odziemek | | M. Jankowski | | | | | | |
| OKB | | Dummy Seat 3 | | | | | | | |
| | | DS-03 | | | | | | | |
| | | | | | | | | 1/1 | |



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| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 38/107 |



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| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 39/107 |

5.2 Seats produced by INTAP

INTAP Advanced Technology Sp. z o.o,
Rokicińska 110/112,
95-006 Bukowiec,
Poland

| Seats type | Legs and consoles | Category seats | Weight of maximum mass configuration (kg) |
|------------|---|---------------------|---|
| S1NOV01 | N0AZM06**, N0AZM36, N0BLS10, N0AZM09 or Millennium leg, N0BLS17***, V-leg* | M2/N2, M3/N3 | 27,0 |
| S2NOV01 | N0BLS17***, N0BLS17 or N0AZM36, | M2/N2, M3/N3 | 40,0 |
| S1NOV04 | N0AZM06**, N0BLS17***, N0BLS17, N0AZM36, N0AZM06, N0BLS10, N0AZM09, Millennium leg, V-leg* | M1/N1, M2/N2, M3/N3 | 32,0 |
| S1LID17 | N0AZM06**, N0BLS10, N0AZM09, Millennium leg, N0BLS17***, N0BLS17, N0AZM36, Centro leg, V-leg* | M2/N2, M3/N3 | 13,5 |
| S1LID18 | N0AZM06**, N0BLS10, N0AZM09, Millennium leg, N0BLS17***, N0BLS17, N0AZM36, Centro leg, V-leg* | M2/N2, M3/N3 | 14,7 |
| S1LID25 | N0AZM06**, N0BLS10, N0AZM09, Millennium leg, N0BLS17***, N0BLS17, N0AZM36, Centro leg, V-leg* | M2/N2, M3/N3 | 20,0 |
| S2LID17 | N0BLS17***, N0AZM36** | M2/N2, M3/N3 | 25,6 |
| S2LID18 | N0BLS17***, N0AZM36** | M2/N2, M3/N3 | 27,6 |
| S2LID25 | N0BLS17***, N0AZM36** | M2/N2, M3/N3 | 35 |
| S1POL01 | N0AZM06**, N0AZM06, N0BLS10, N0AZM09, Millennium leg, N0BLS17, V-leg* | M2/N2, M3/N3 | 13 |
| S2POL01 | N0BLS17***, N0AZM36** | M2/N2, M3/N3 | 24 |
| S1MED01 | Slide base, N0AZM06**, N0BLS10, N0AZM09, Millennium leg, V-leg* | M1/N1, M2/N2, M3/N3 | 39,5 |
| S1MED11 | Slide base | M1/N1, M2/N2, M3/N3 | 39,5 |
| S1AMB01 | N0AZM35, Centro leg, P1NKL21, Slide base | M1/N1, M2/N2, M3/N3 | 29 |
| S1TAX01 | N0AZM06**, N0BLS10, N0AZM09, Millennium leg, V-leg* | M1/N1, M2/N2, M3/N3 | 19 |
| S1TAX02 | N0AZM06**, N0BLS10, N0AZM09, Millennium leg, V-Leg* | M1/N1, M2/N2, M3/N3 | 19,5 |
| S1TAX03 | N0AZM35, Centro leg, P1NKL21, Slide base | M1/N1, M2/N2, M3/N3 | 28,5 |
| S1TAX08 | N0AZM06**, N0BLS10, N0AZM09 or Millennium leg, V-leg* | M1/N1, M2/N2, M3/N3 | 27 |

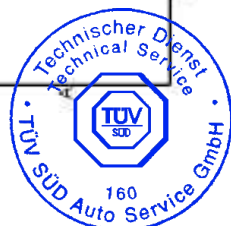
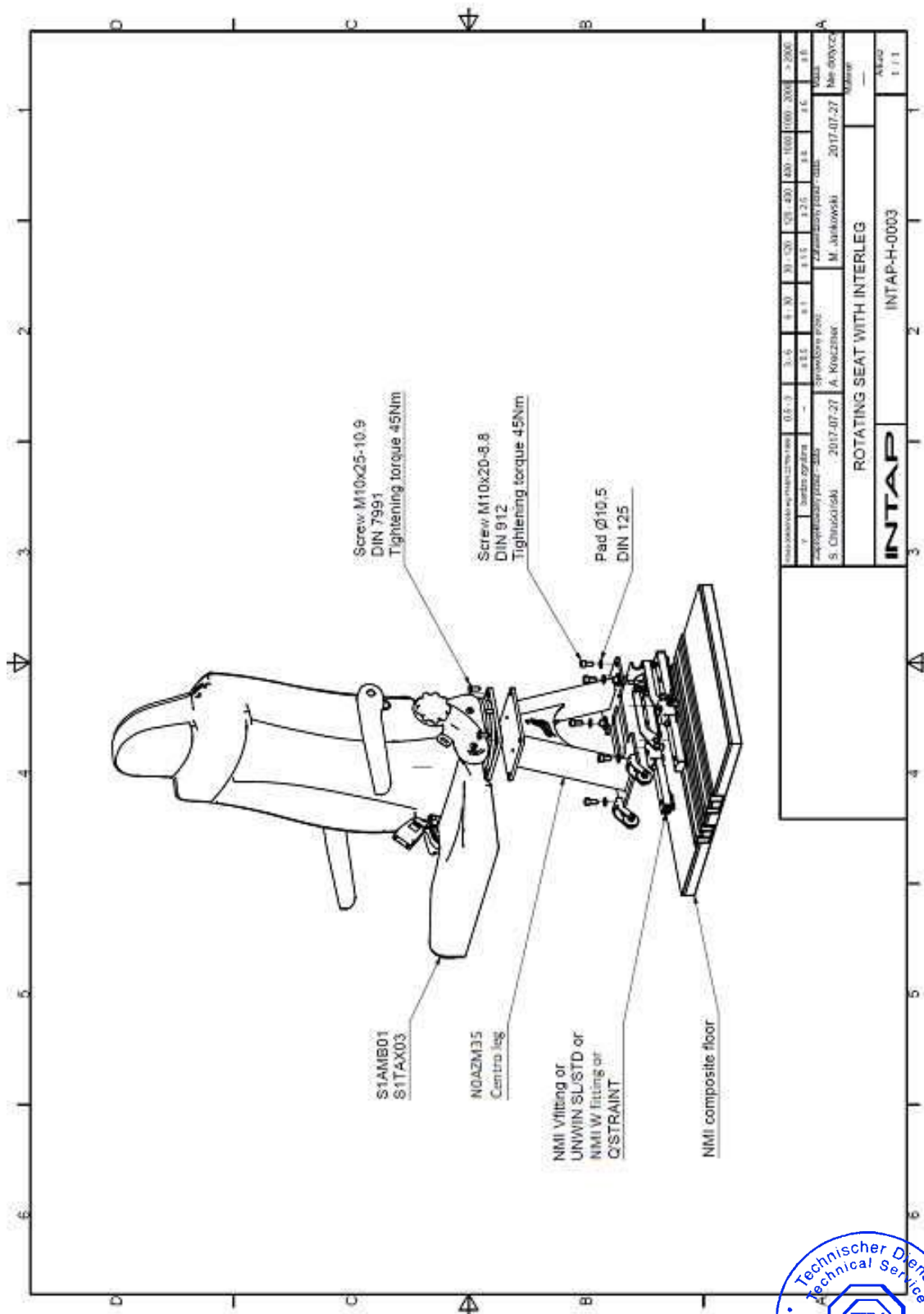
*V-leg – could be with V-fitting

**N0AZM06 – can be equipped with NMI V or W fitting, Qstraint lockable or UNWIN HALL Quicklock

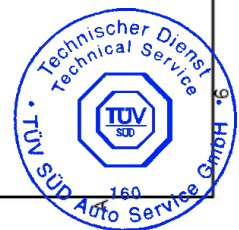
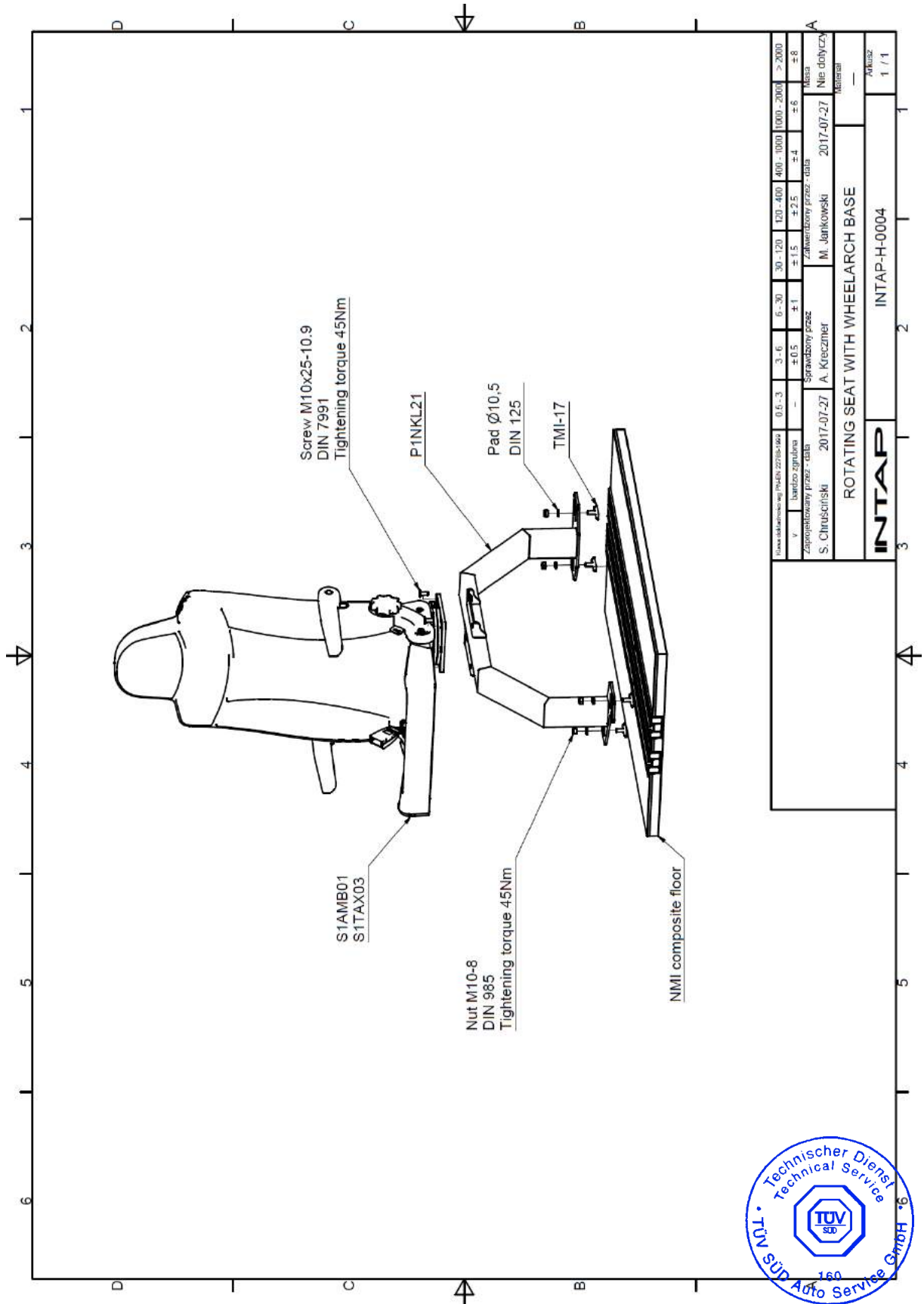
***N0BLS17 – can be equipped with UNWIN HALL Quicklock

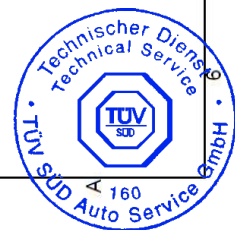
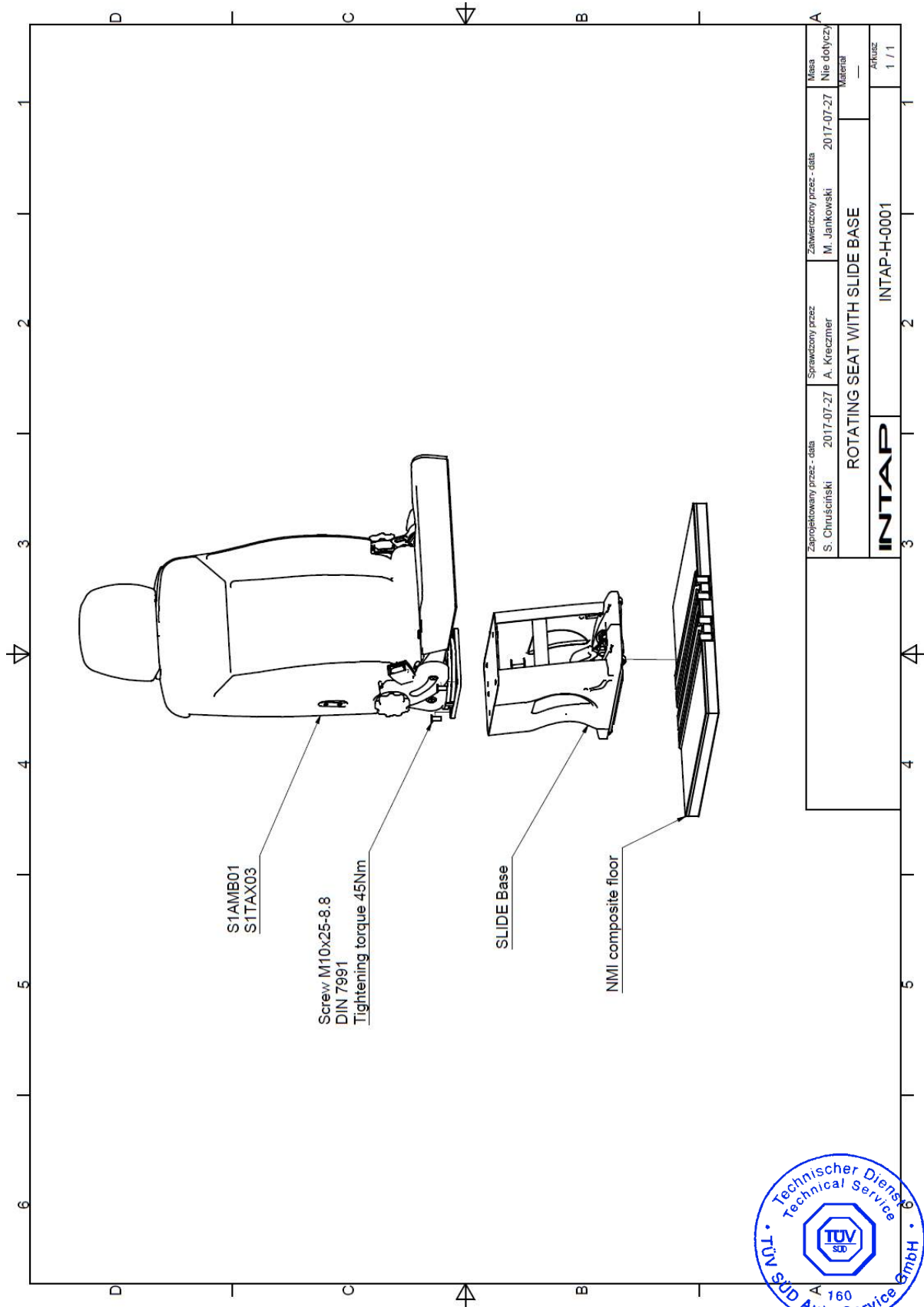


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| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 40/107 |

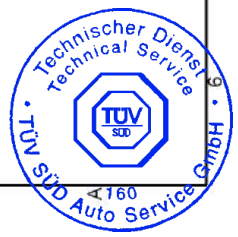
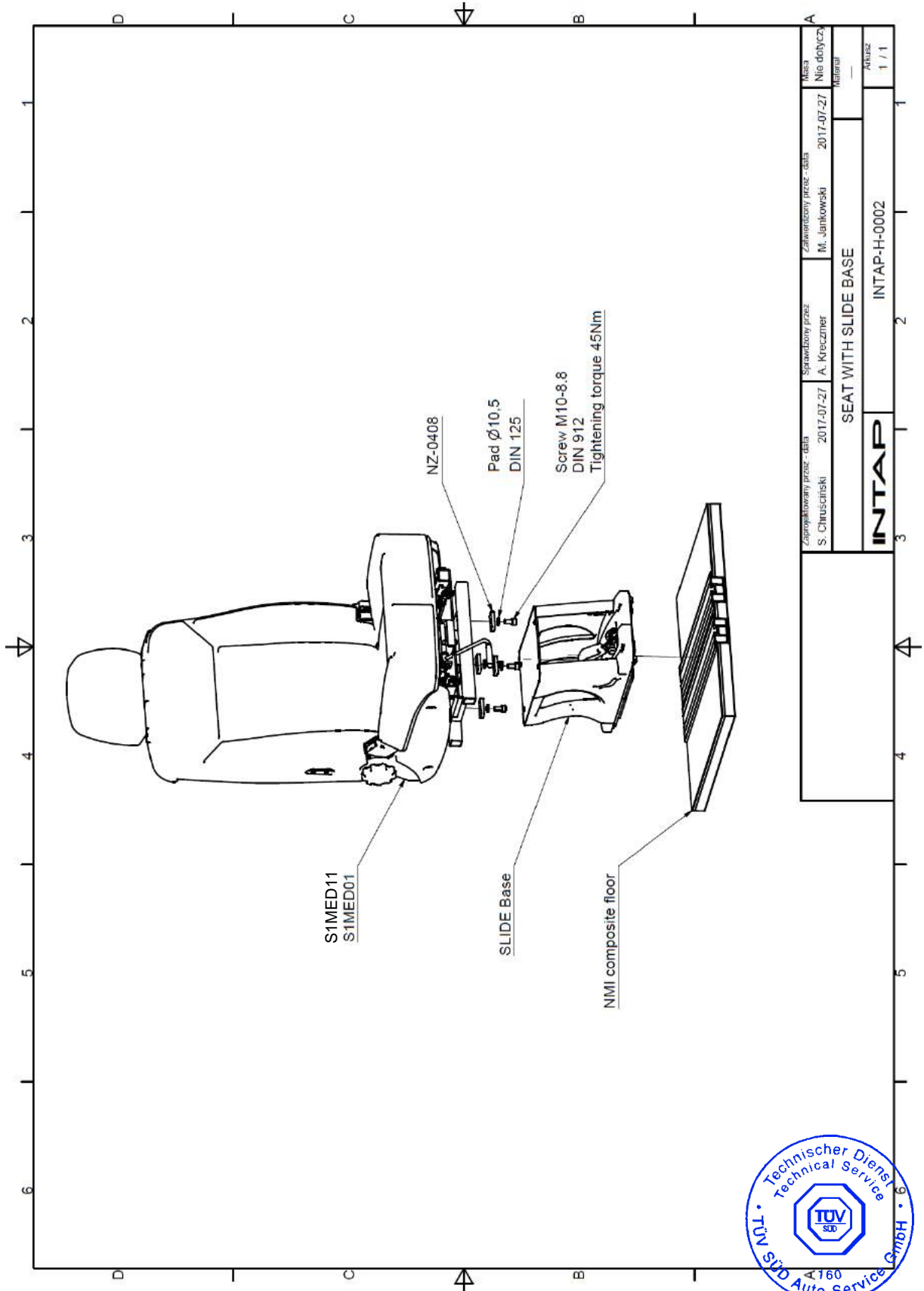


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| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 41/107 |

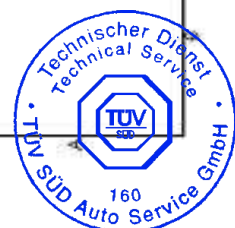
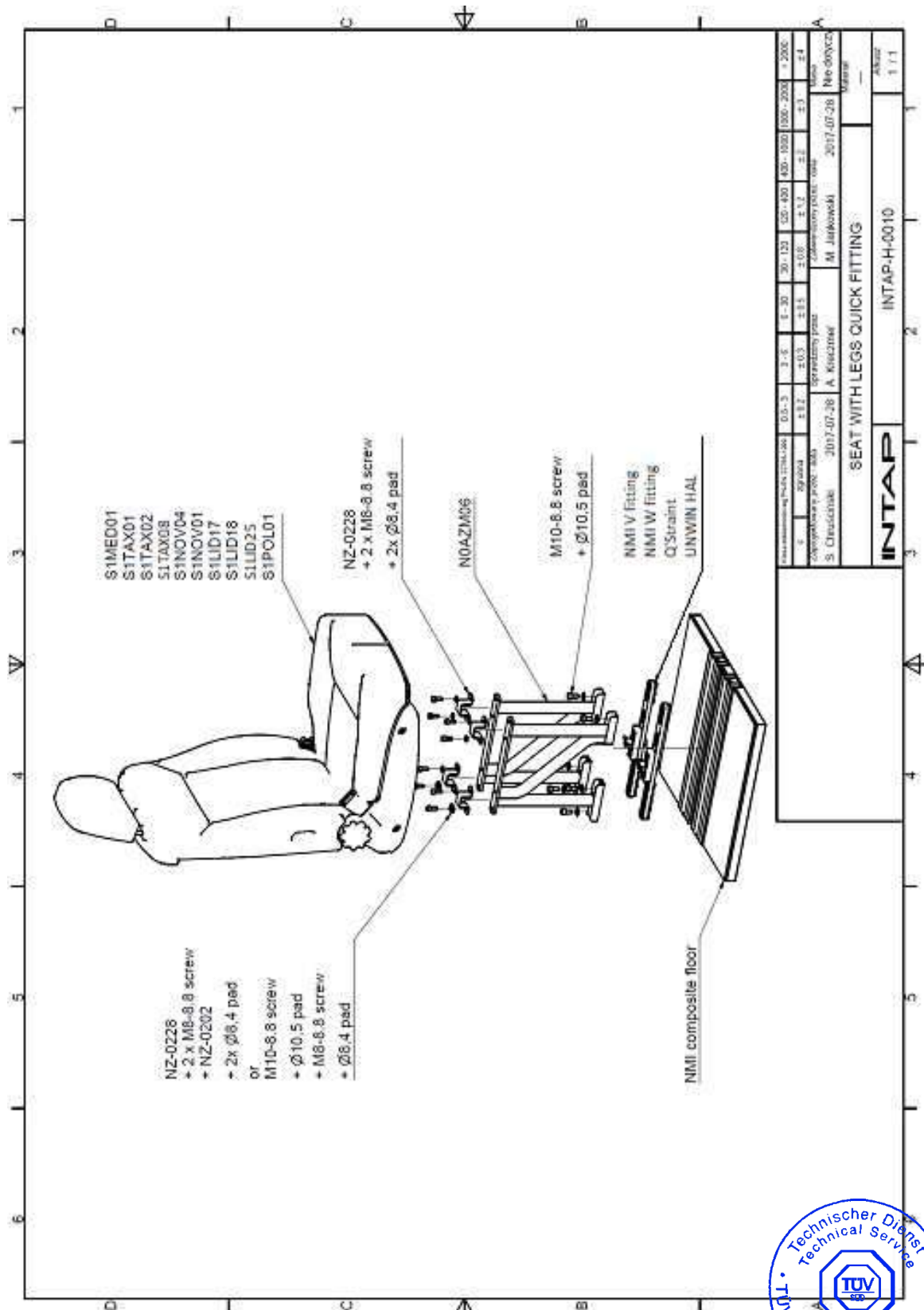




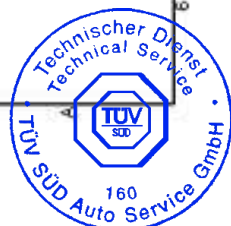
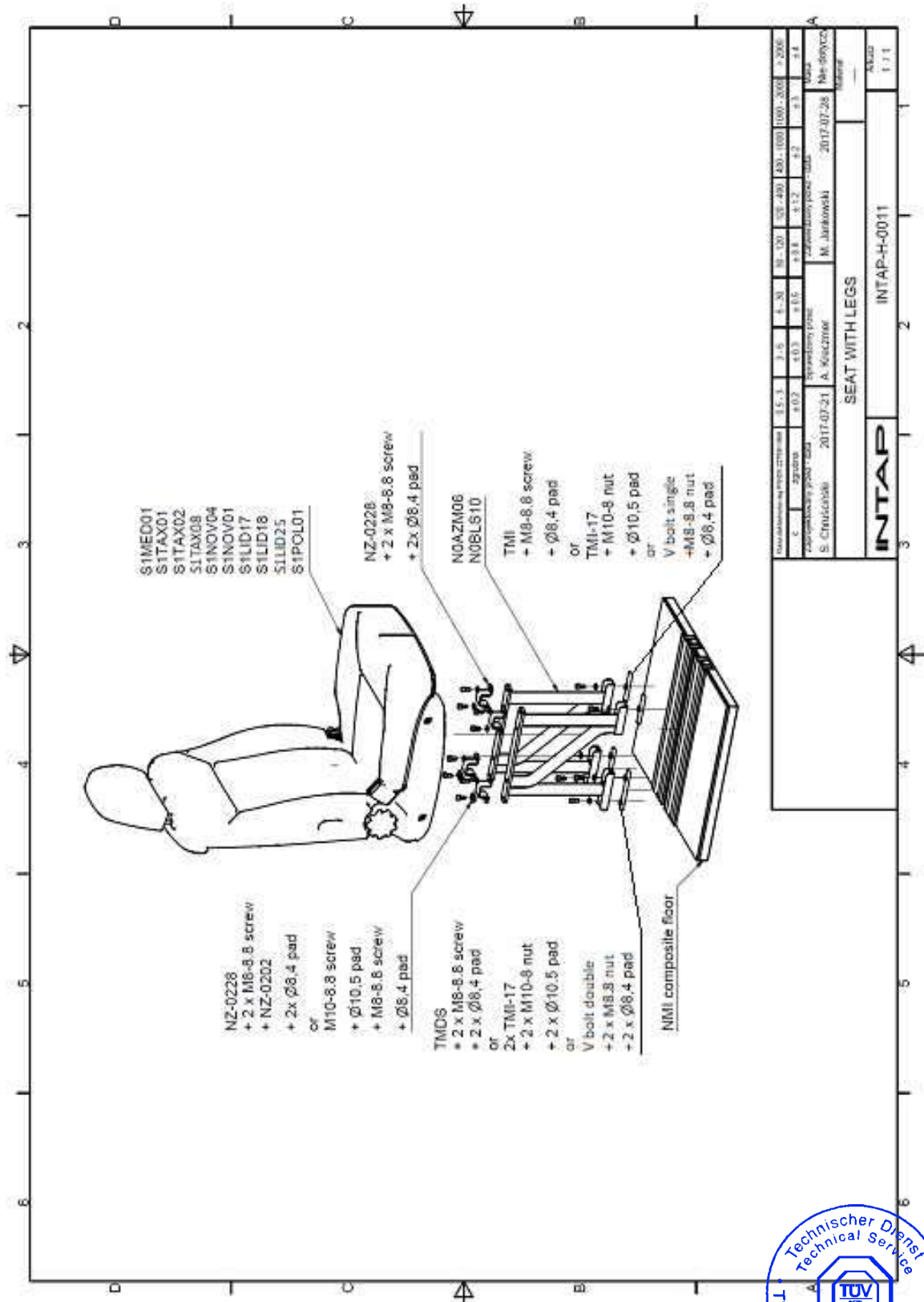
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| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 43/107 |



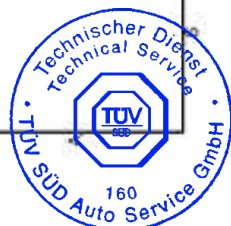
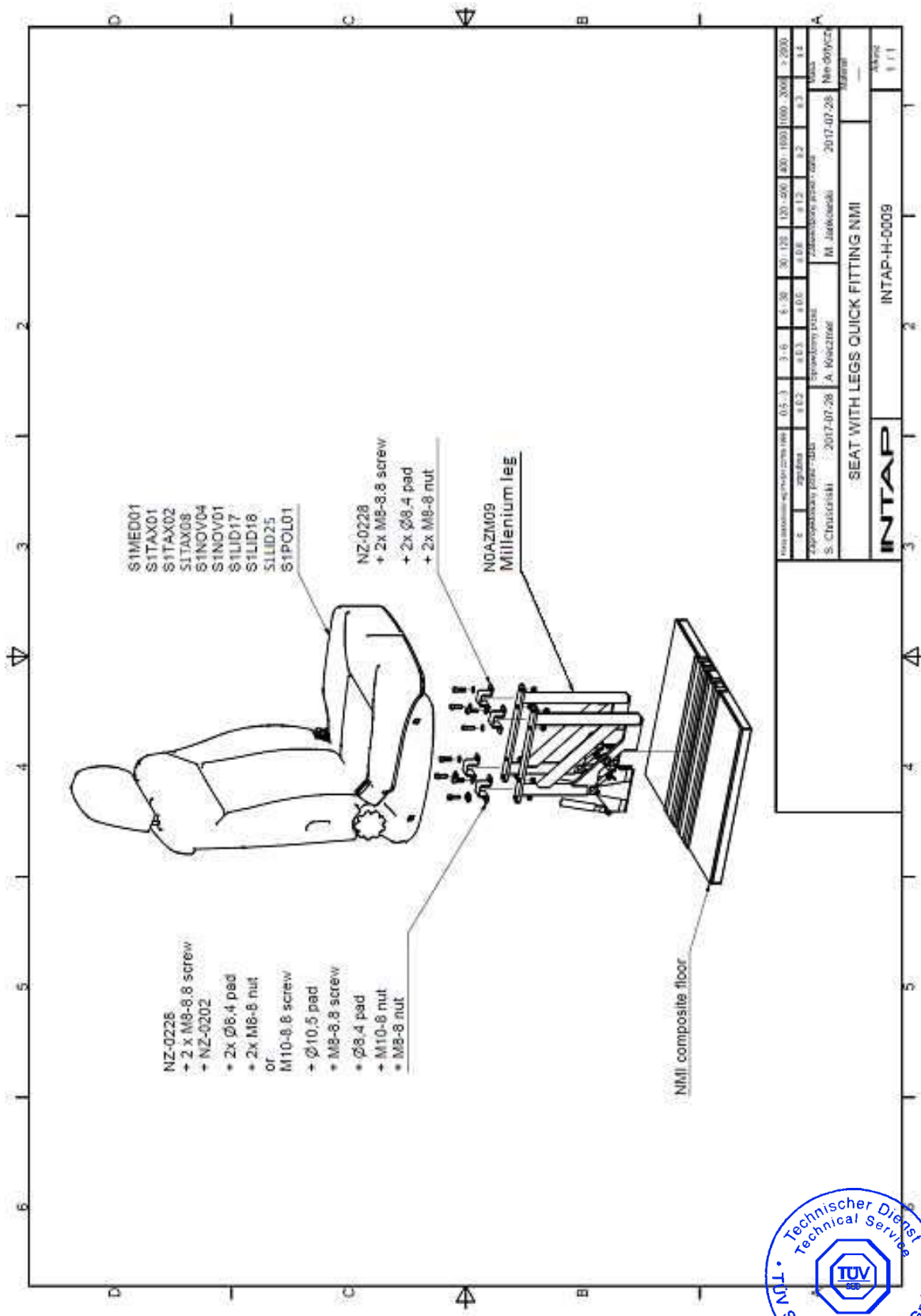
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| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 44/107 |

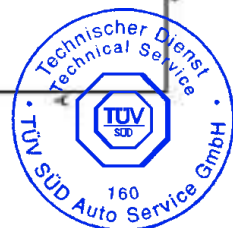
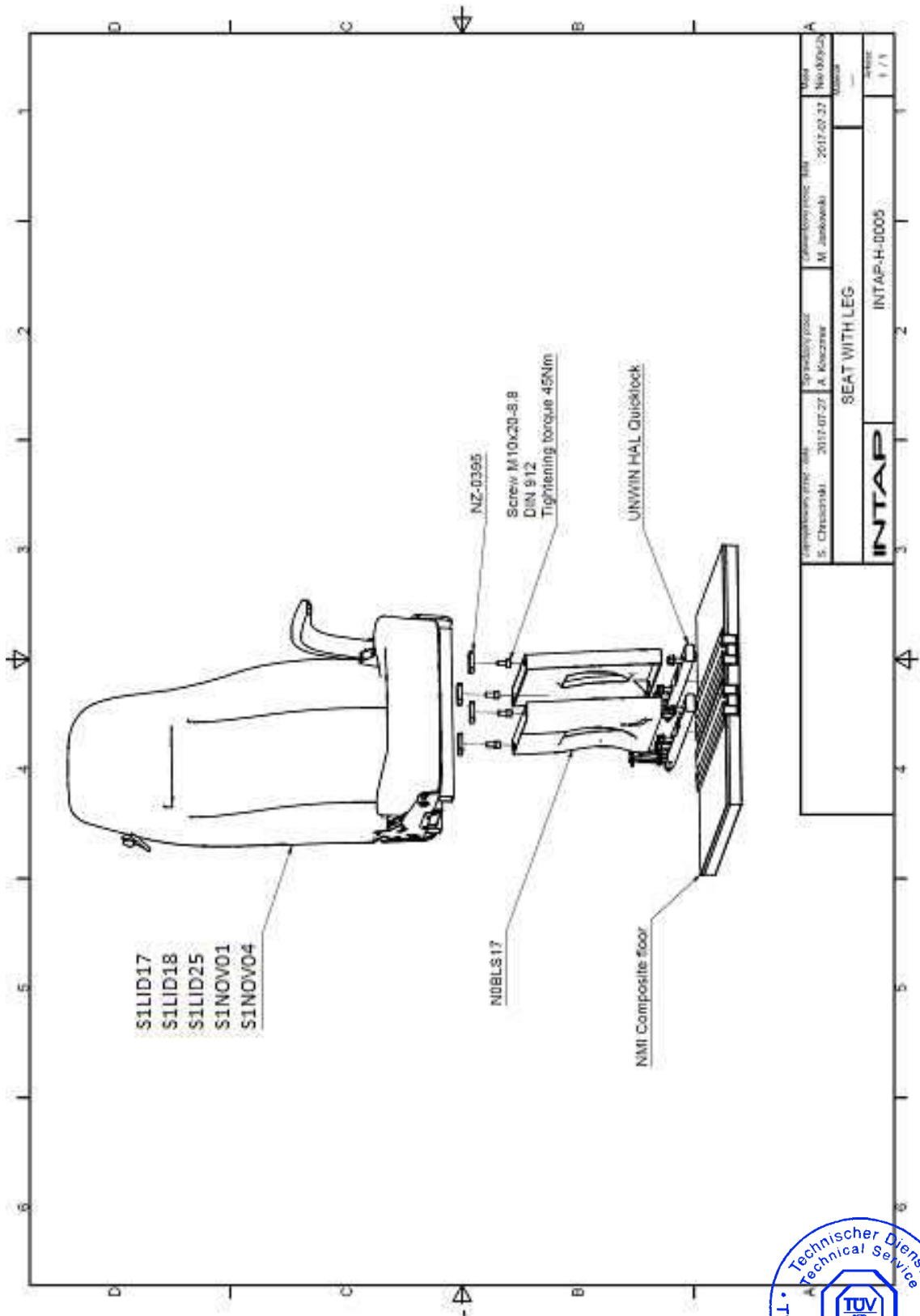


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| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 45/107 |

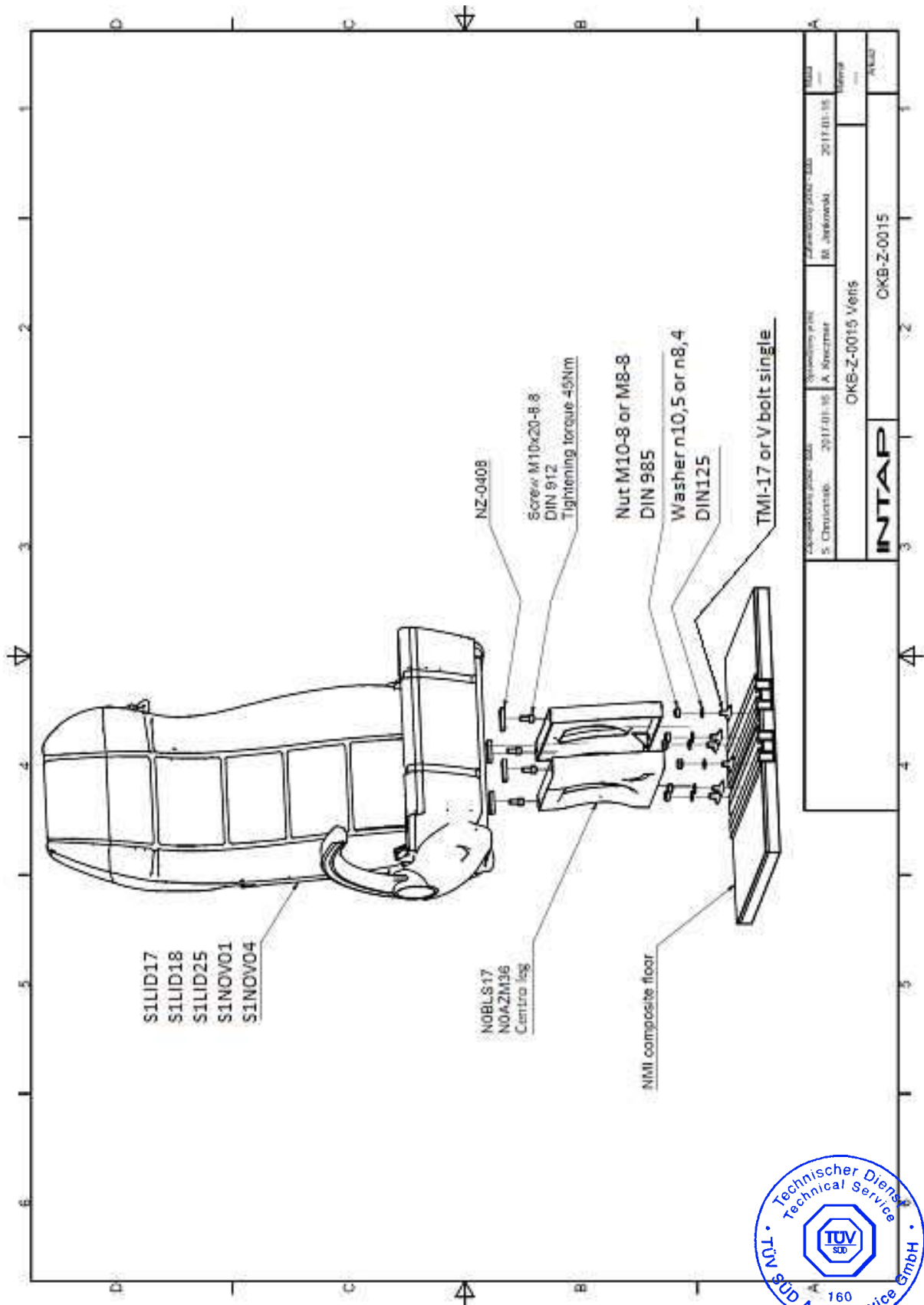


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| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 46/107 |

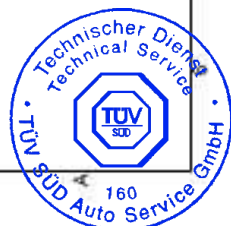
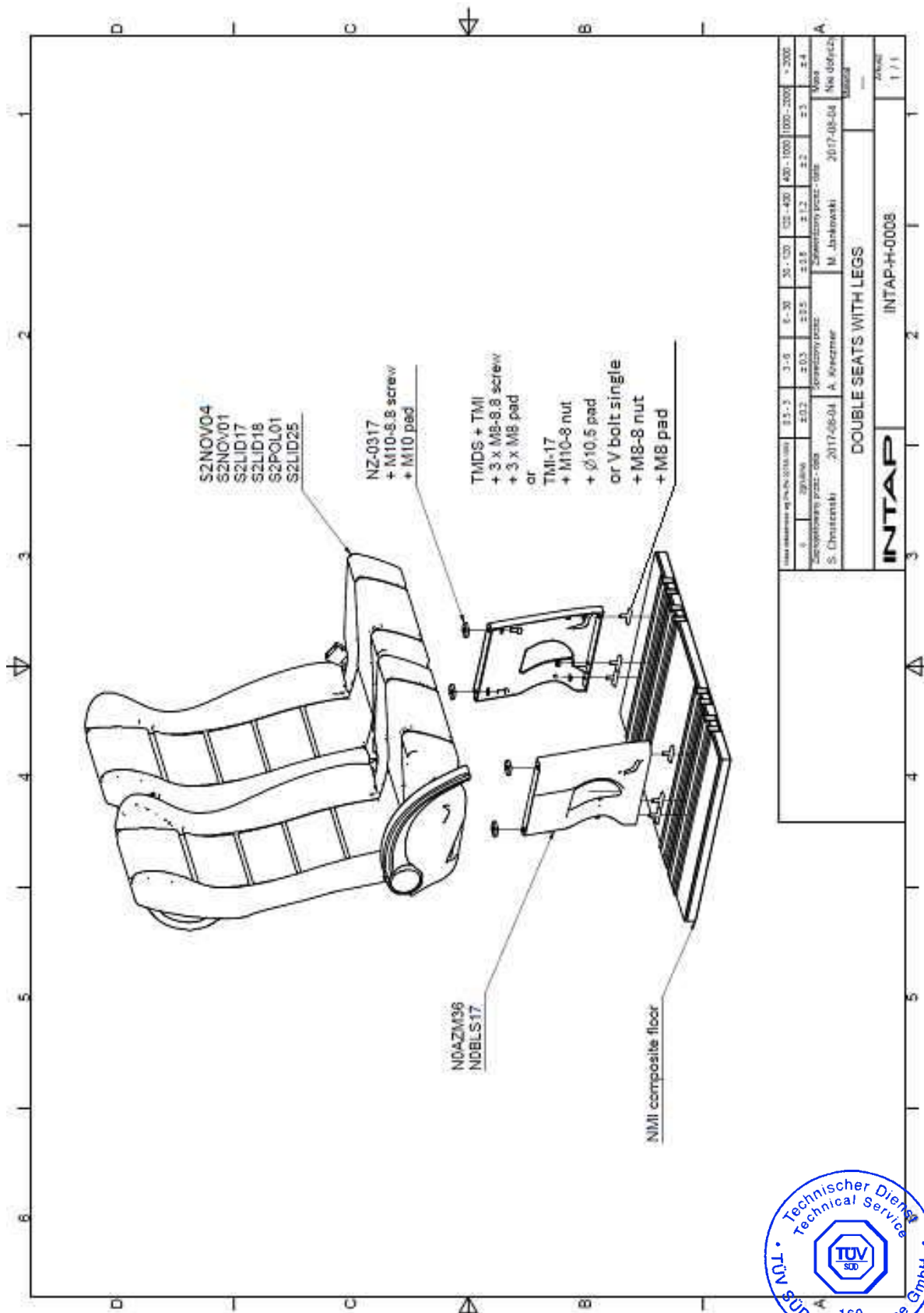




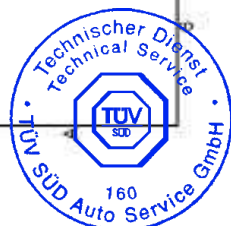
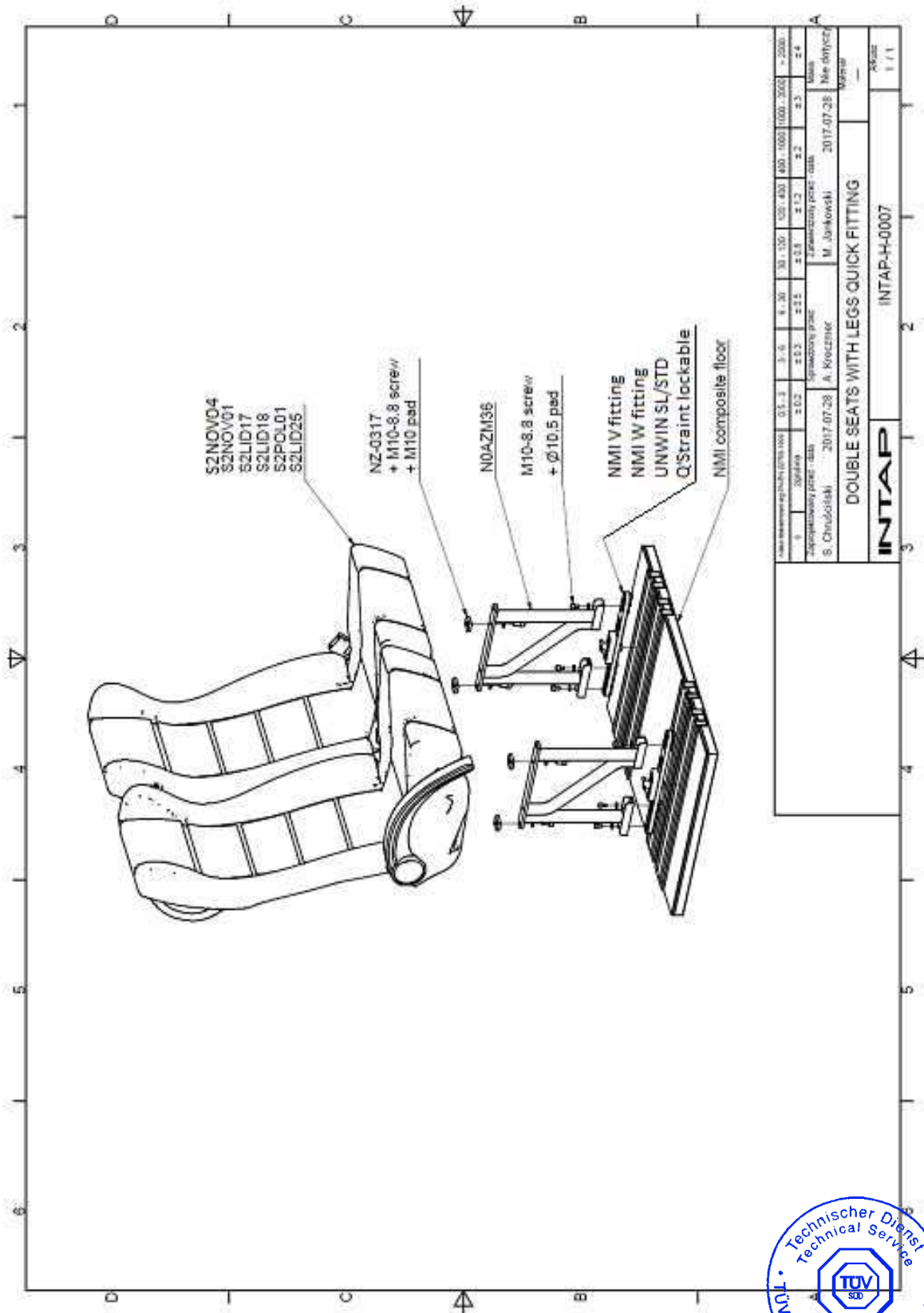
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| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 48/107 |



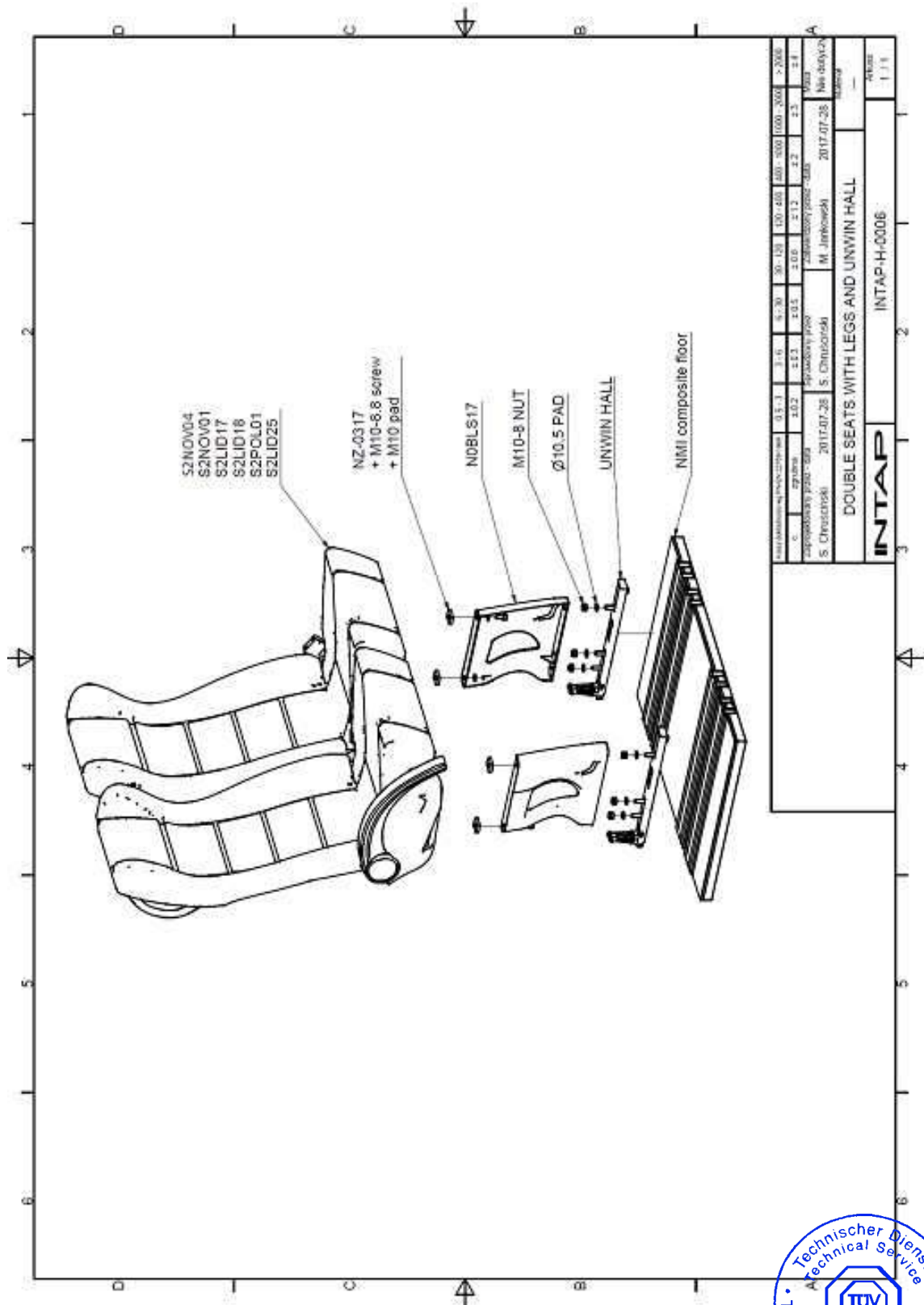
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| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 49/107 |



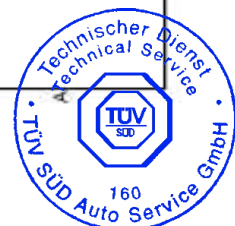
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| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 50/107 |



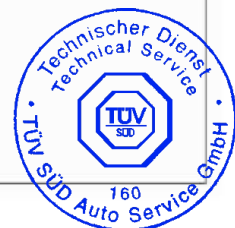
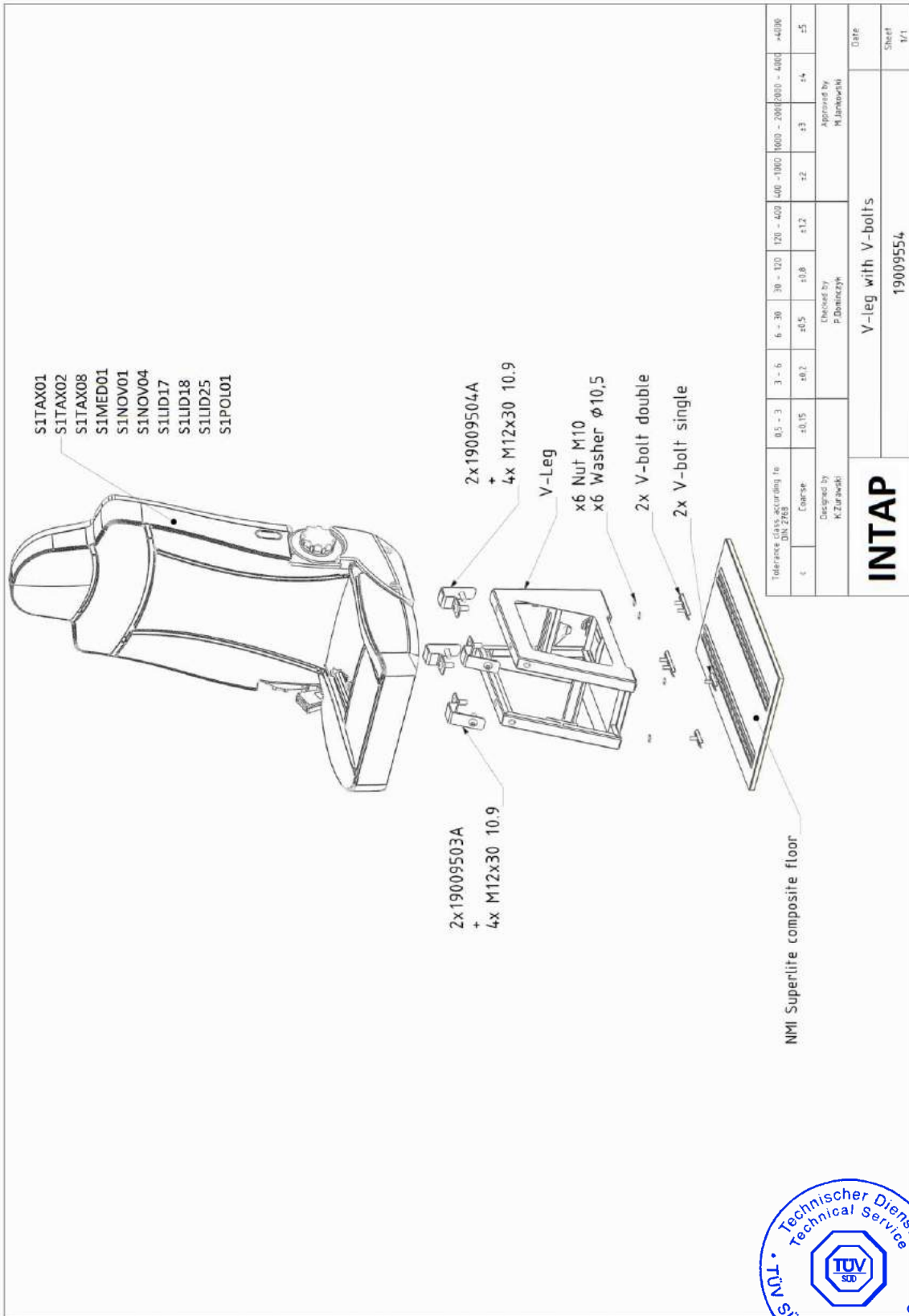
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| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 51/107 |



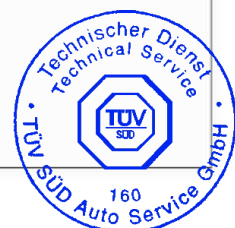
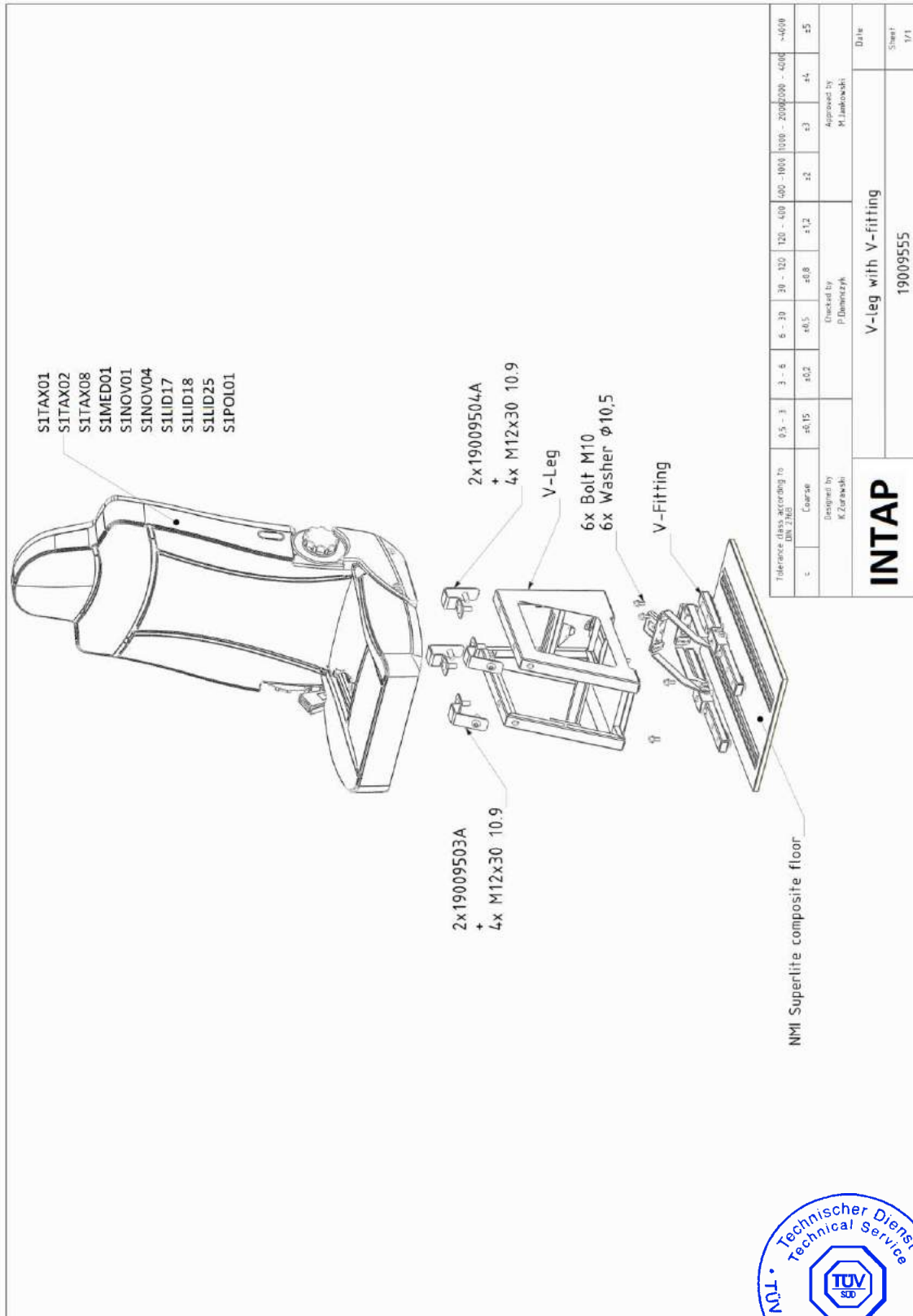
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|------------------------------------|--|---------------------------------------|------|------|--------|---------|---------|-----------|-------|
| Nazwa części / Part name | | 0.5-1 | 3-6 | 8-20 | 30-120 | 150-240 | 300-500 | 1000-2000 | >2000 |
| Czas montażu / Assembly time | | ±0.2 | ±0.3 | ±0.5 | ±0.8 | ±1.2 | ±2 | ±3 | ±4 |
| Opis części / Part description | | Wykonany przez / Made by | | | | | | | |
| Zakres części / Part scope | | M. Jankowski | | | | | | | |
| Data wykonania / Date of execution | | 2017-07-28 | | | | | | | |
| Miejscowość / Location | | S. Chruszowski | | | | | | | |
| Nazwa części / Part name | | DOUBLE SEATS WITH LEGS AND UNWIN HALL | | | | | | | |
| Numer części / Part number | | INTAP-H-0006 | | | | | | | |
| Wersja / Version | | 1 / 1 | | | | | | | |



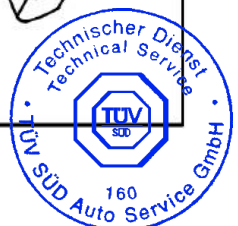
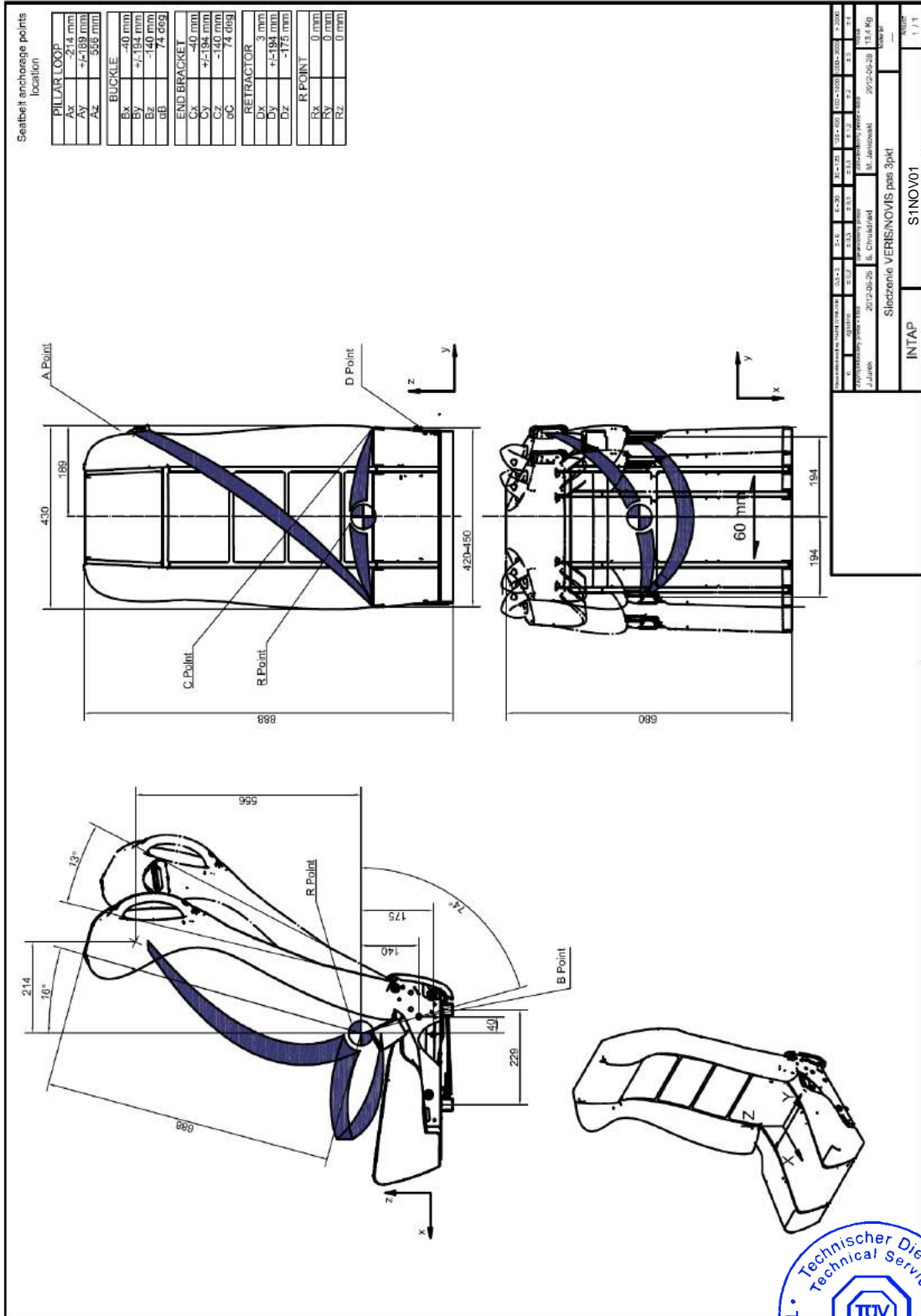
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| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 52/107 |

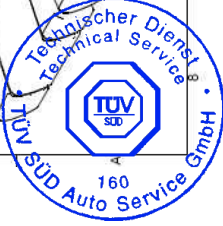
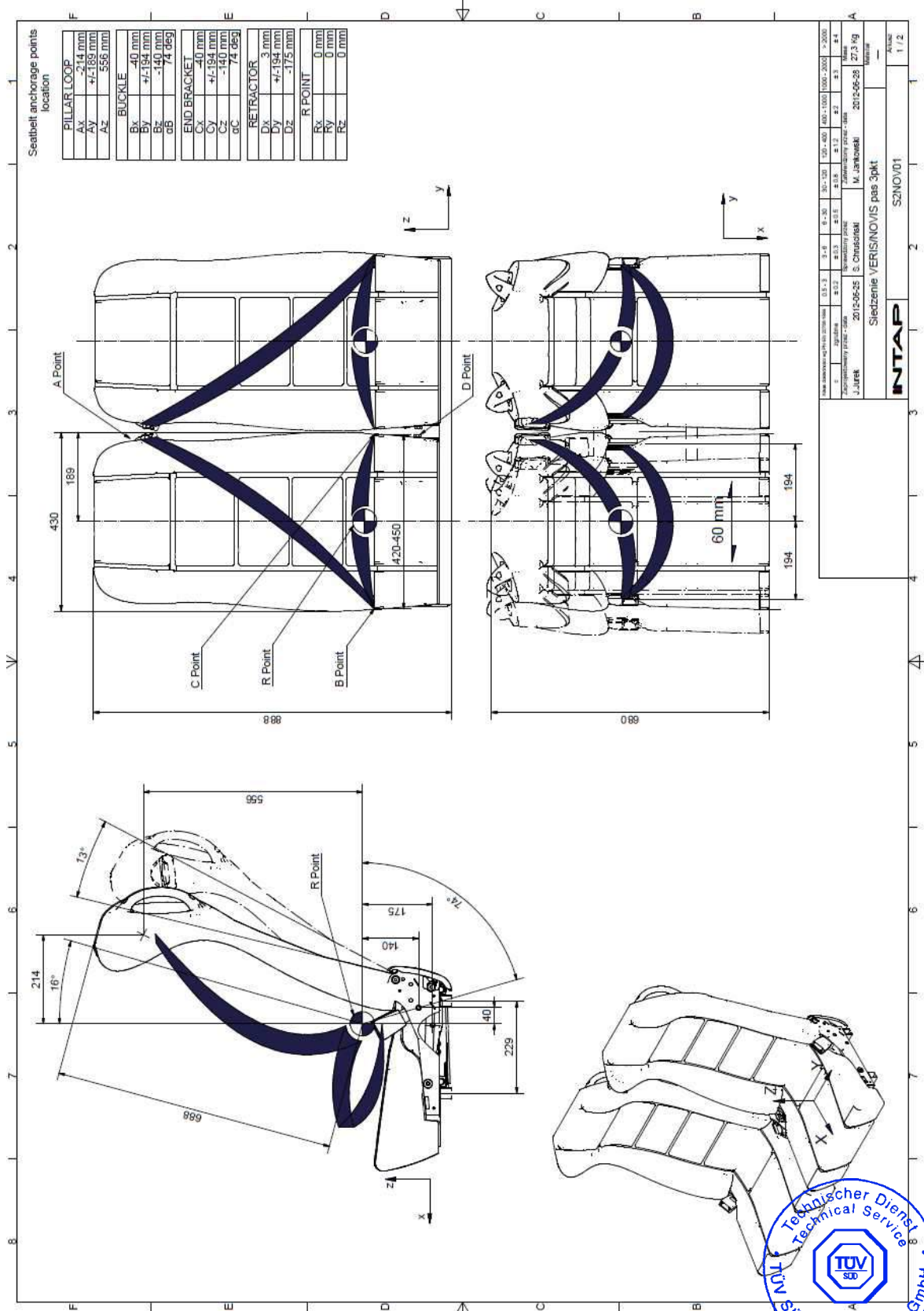


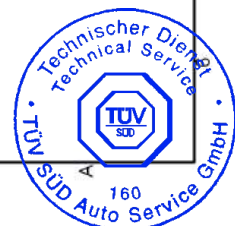
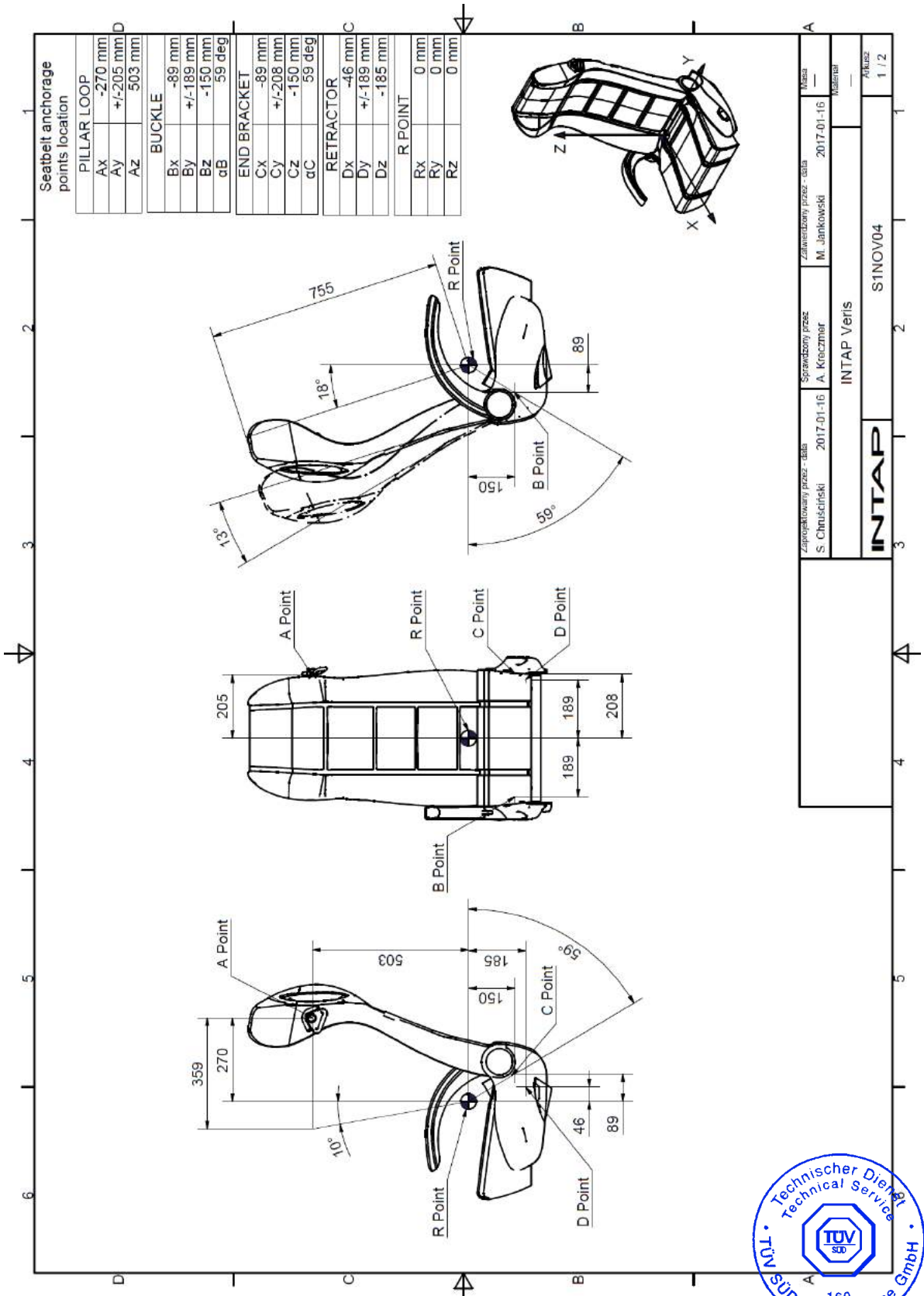
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| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 53/107 |

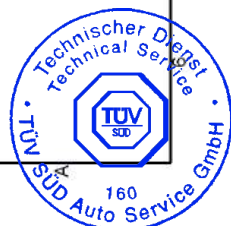
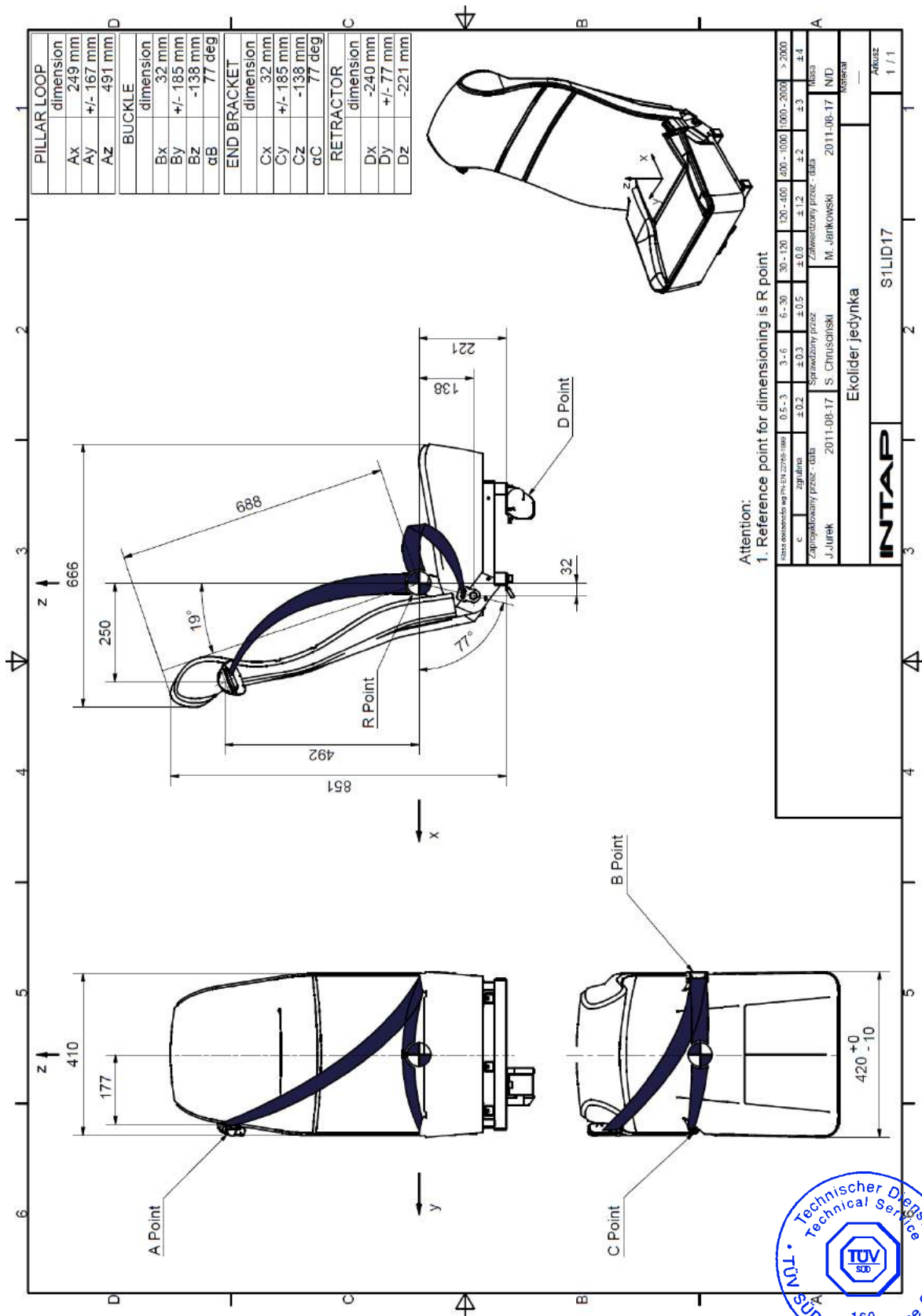


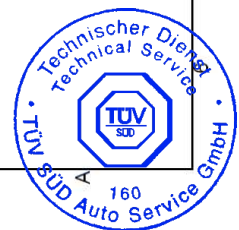
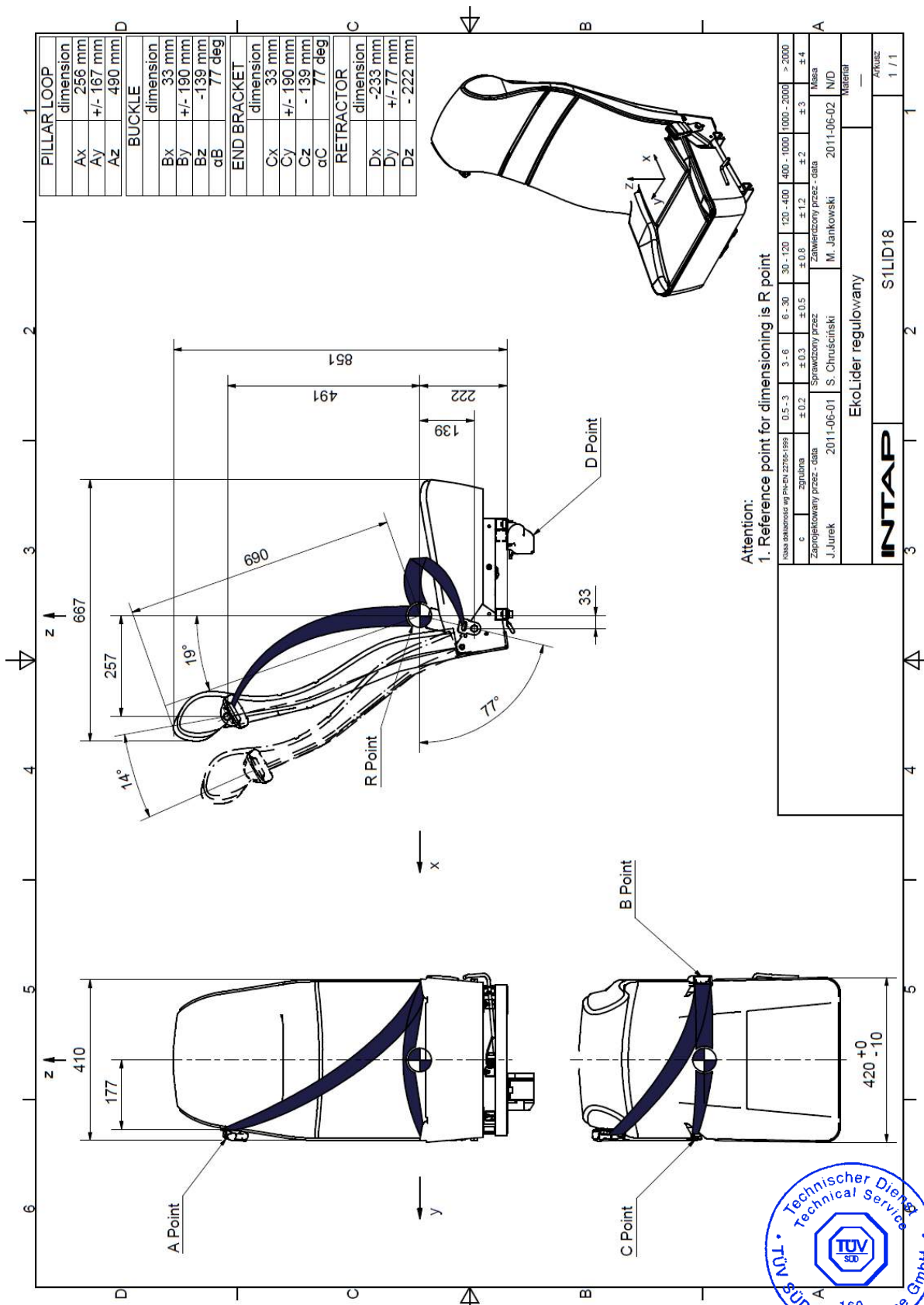
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| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 54/107 |



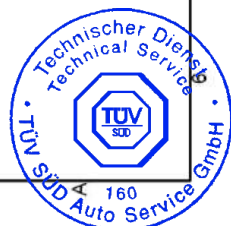
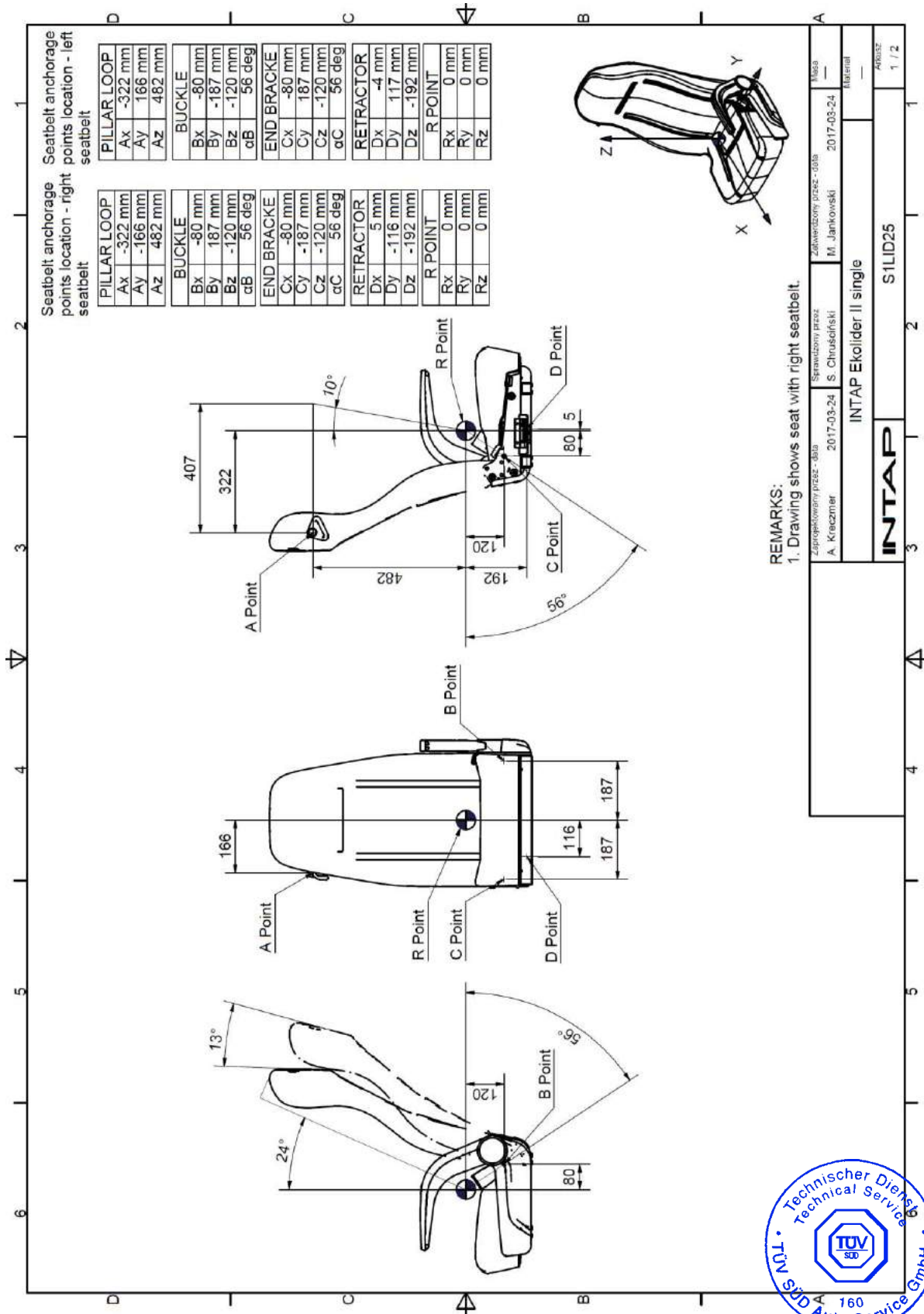


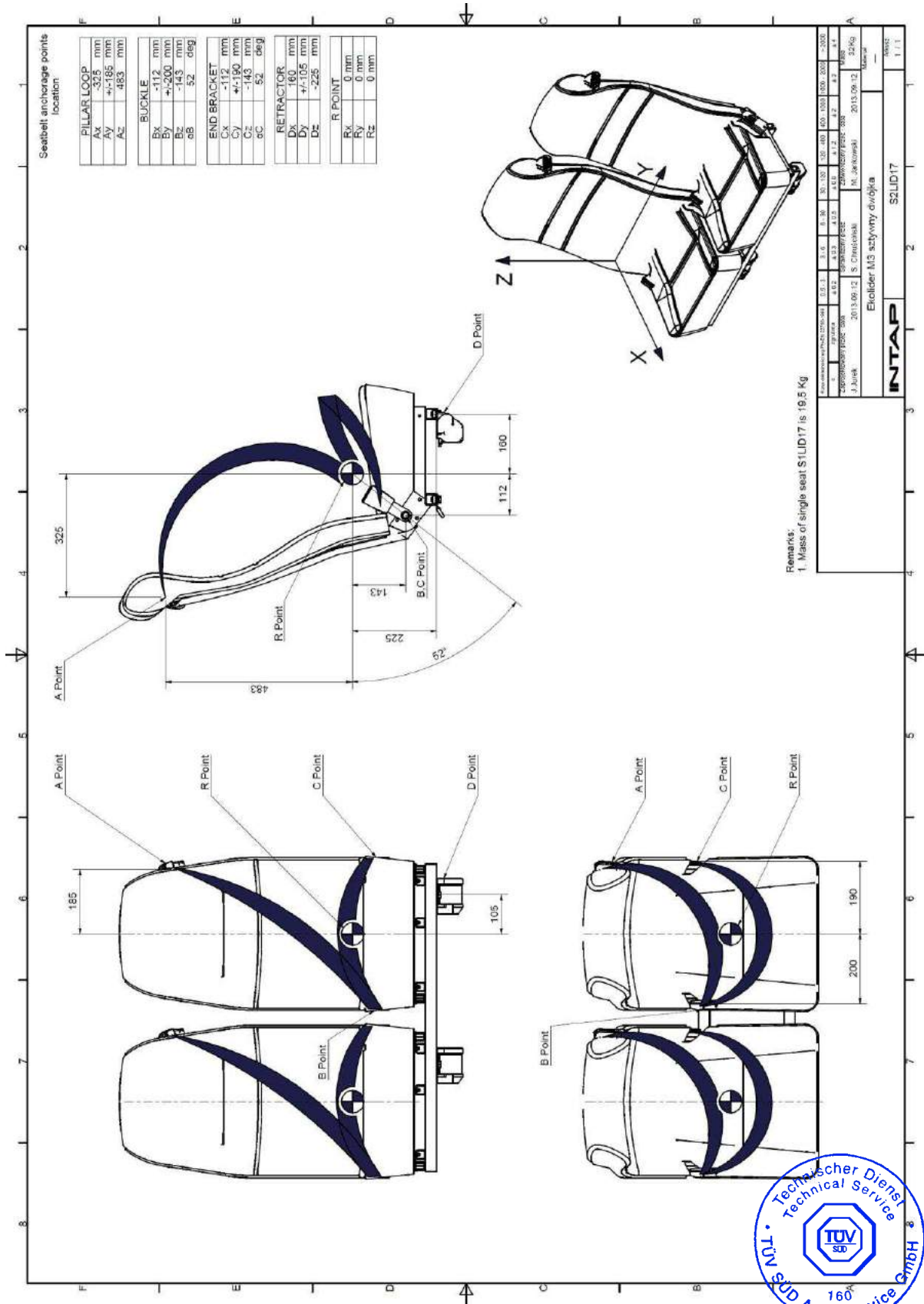


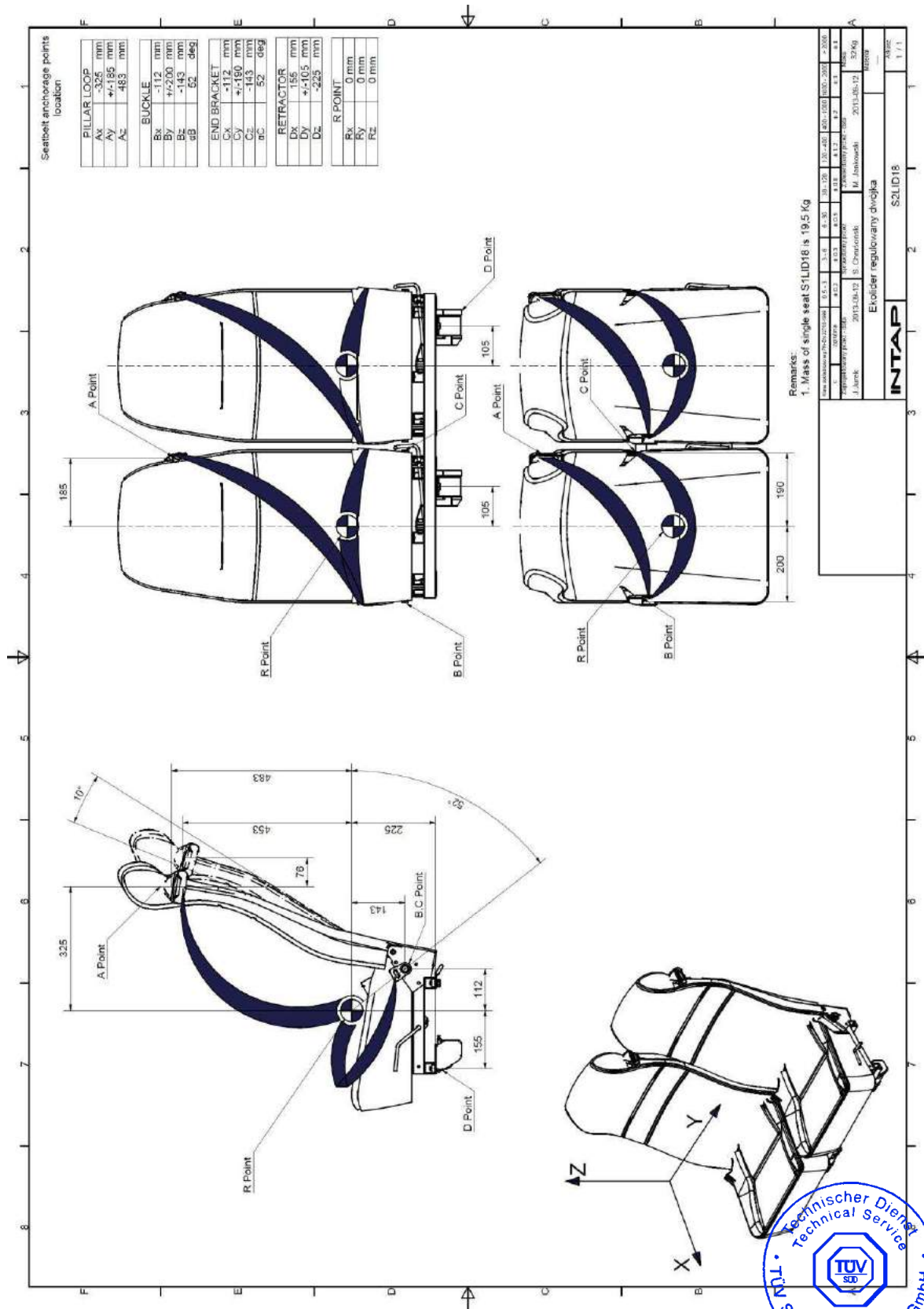




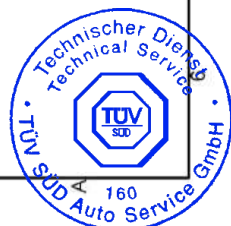
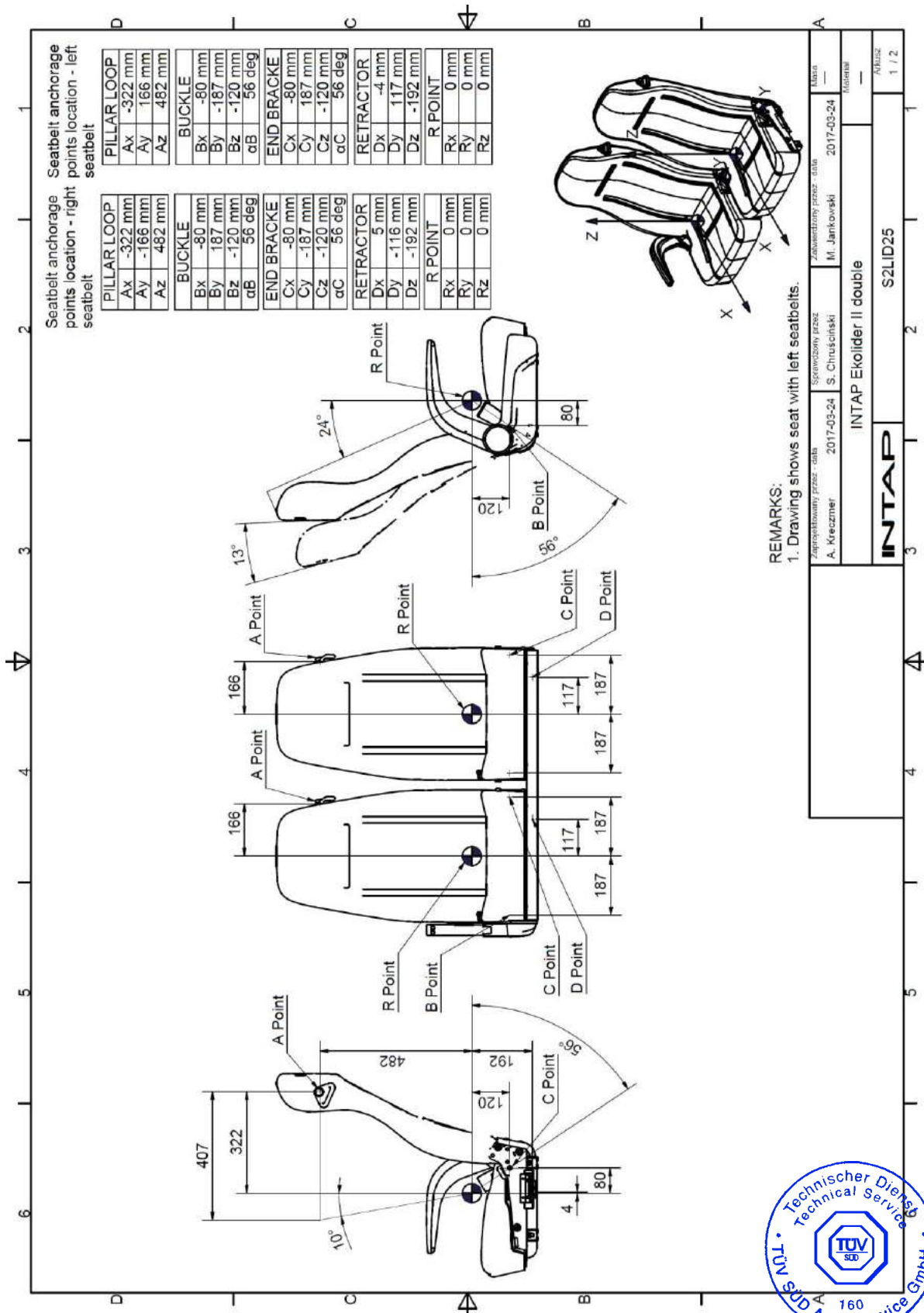
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| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 59/107 |

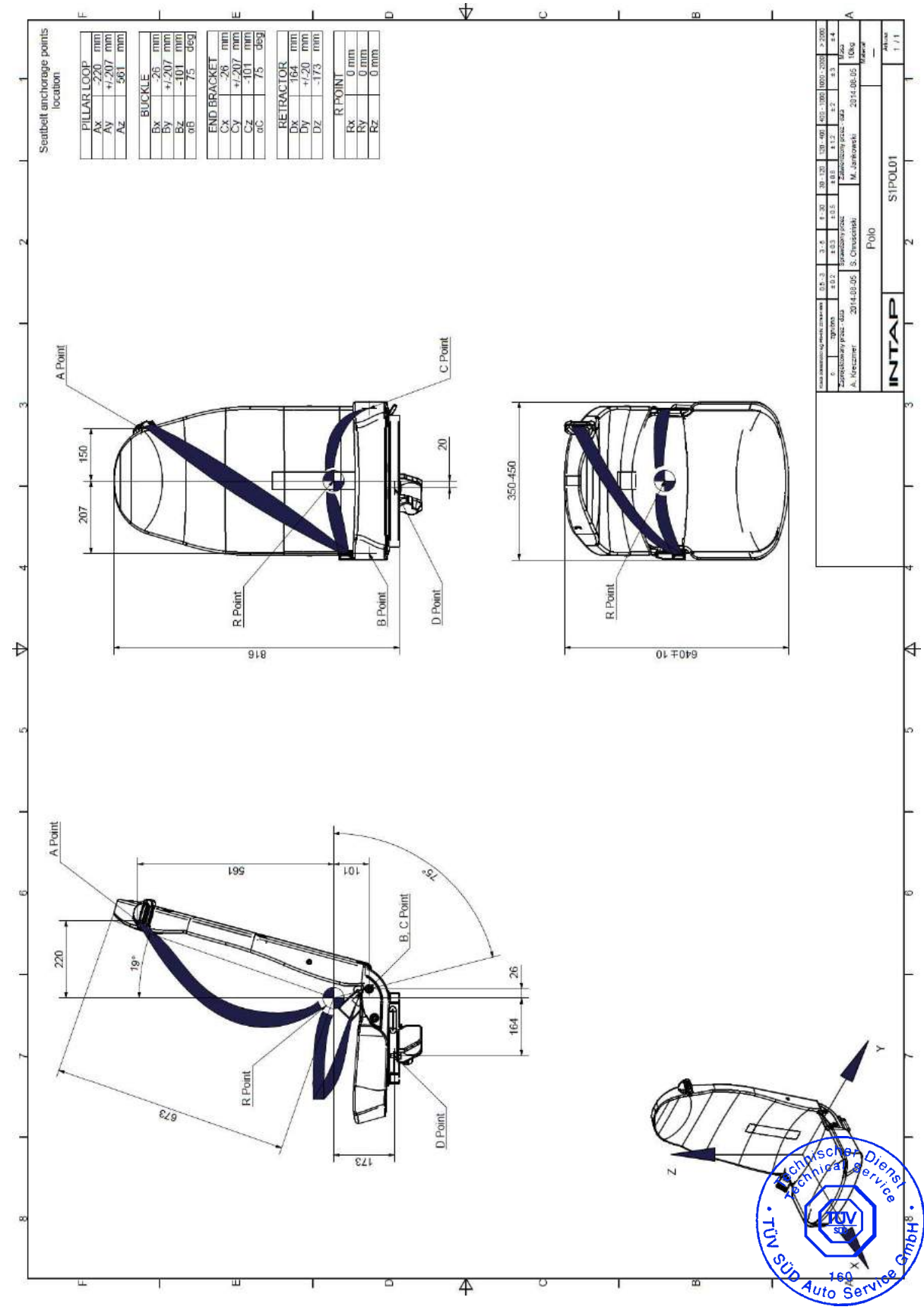


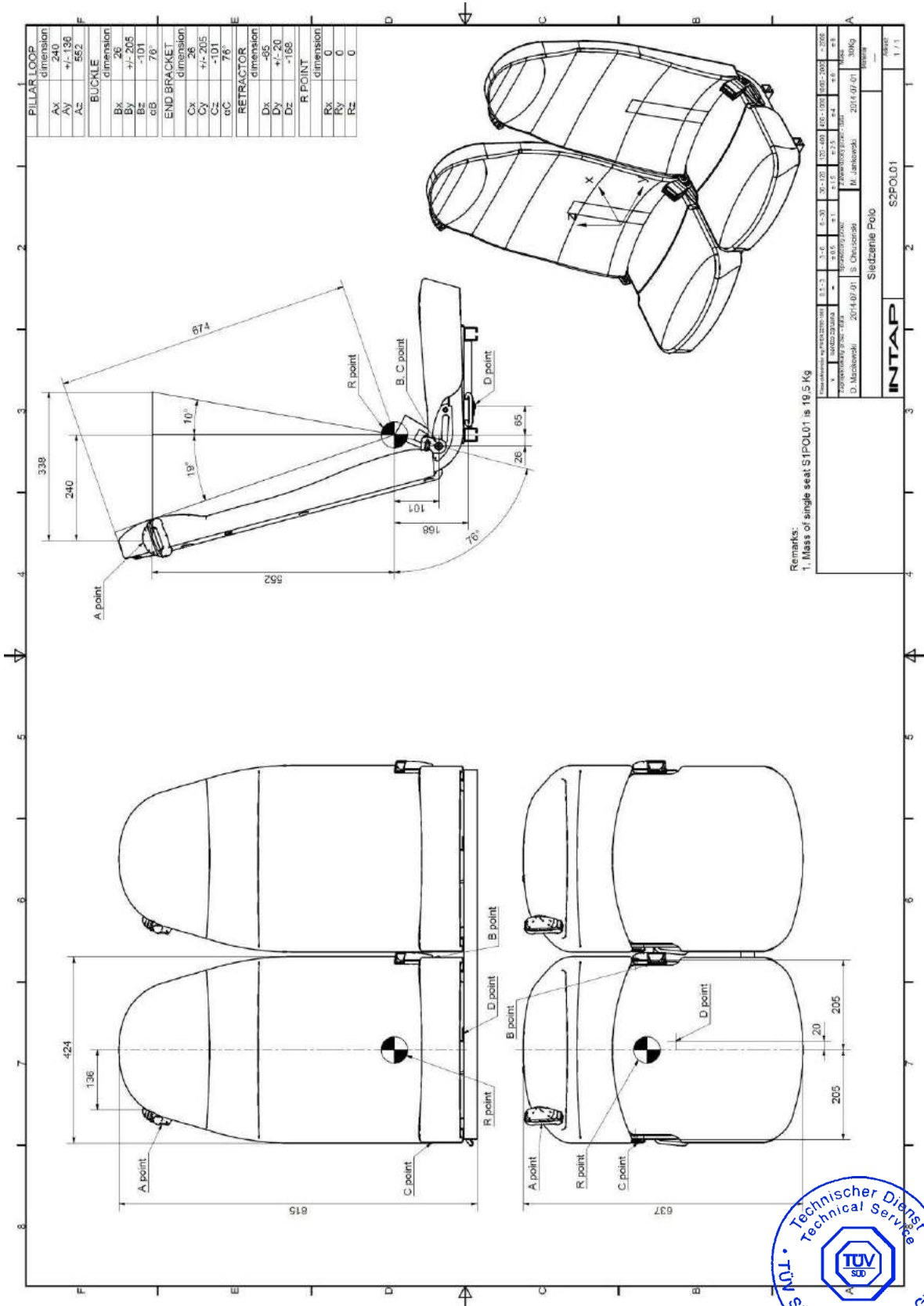


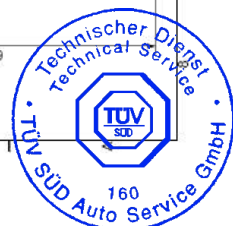
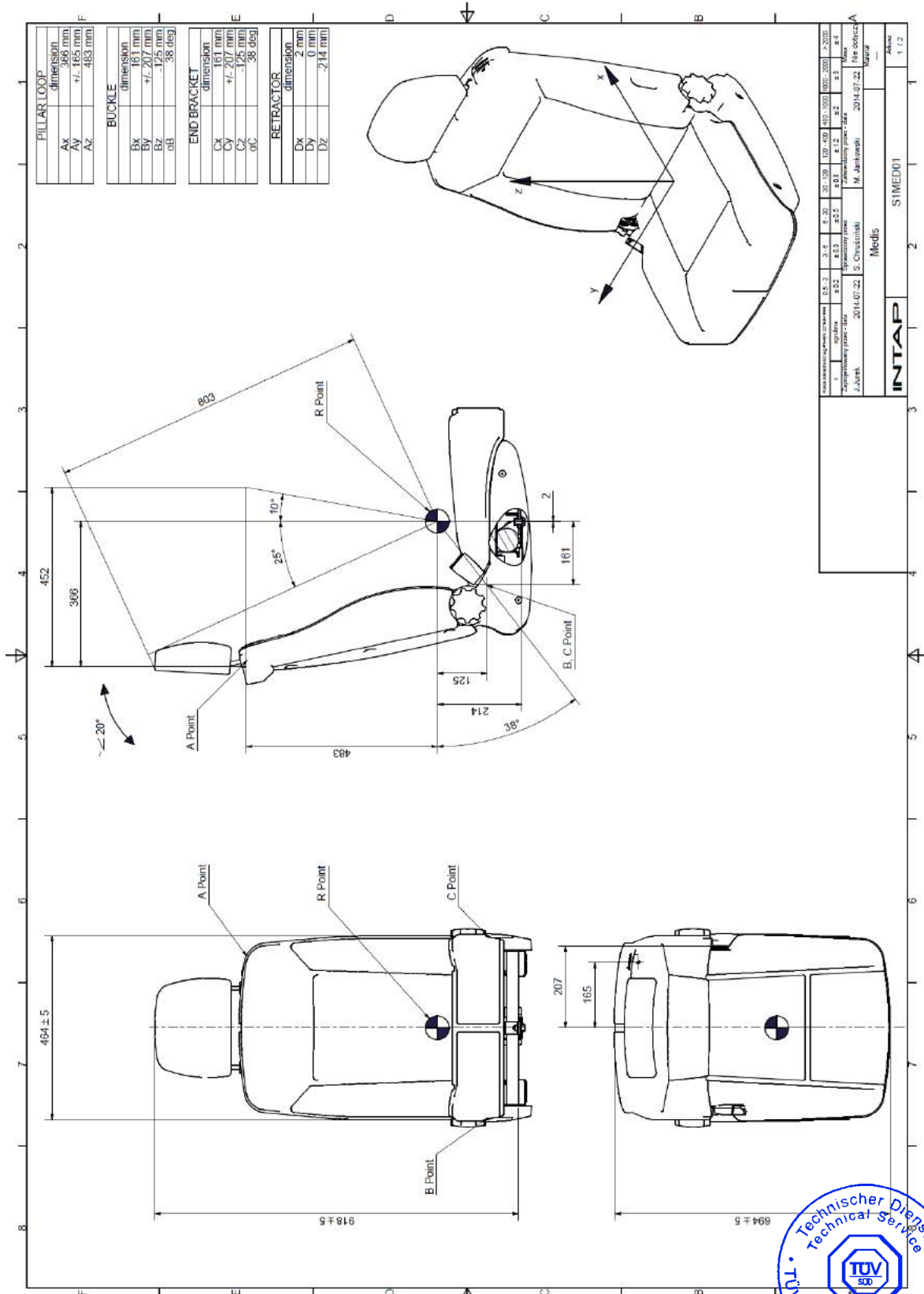


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| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 62/107 |

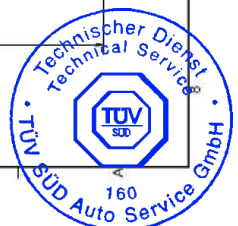
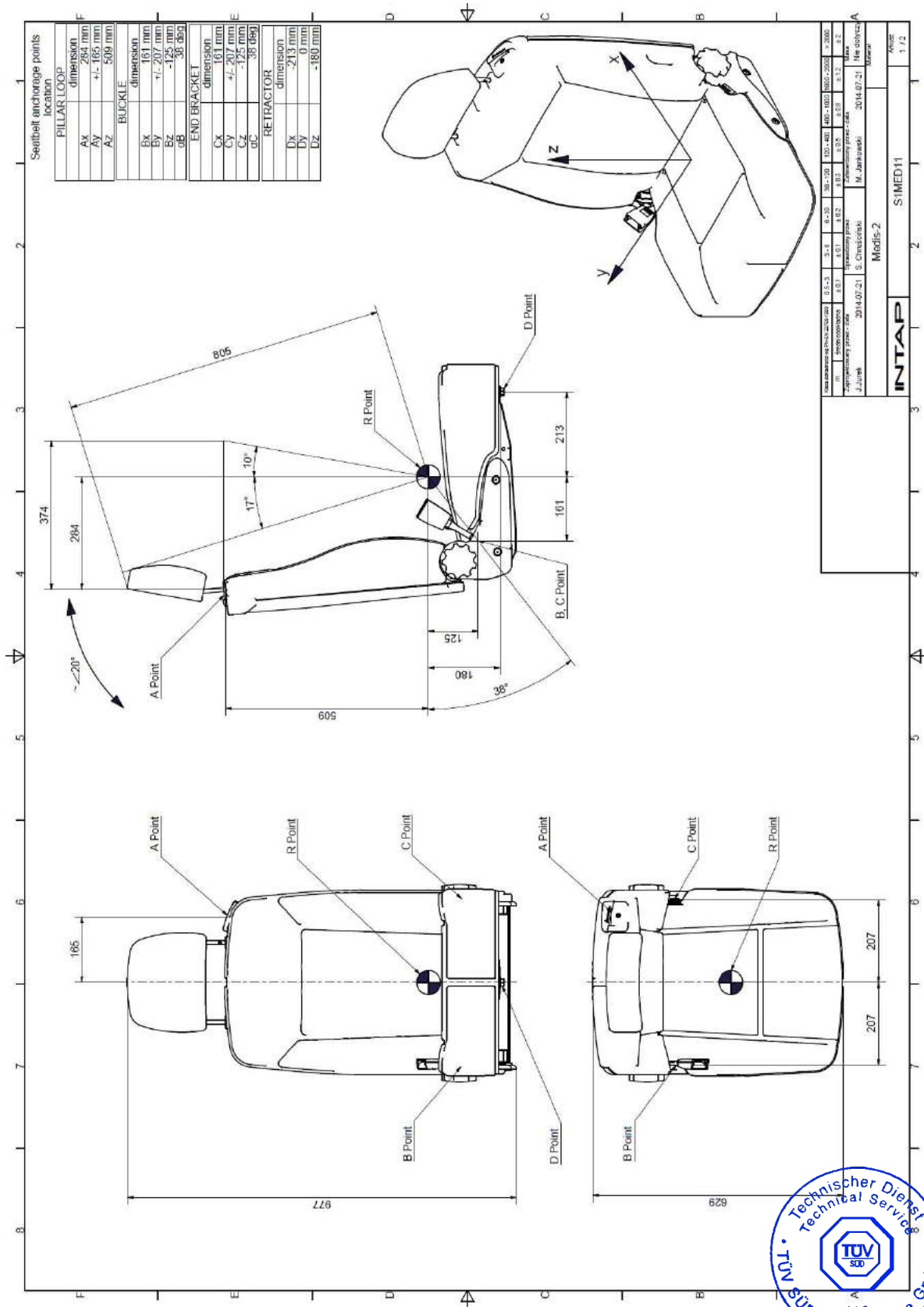


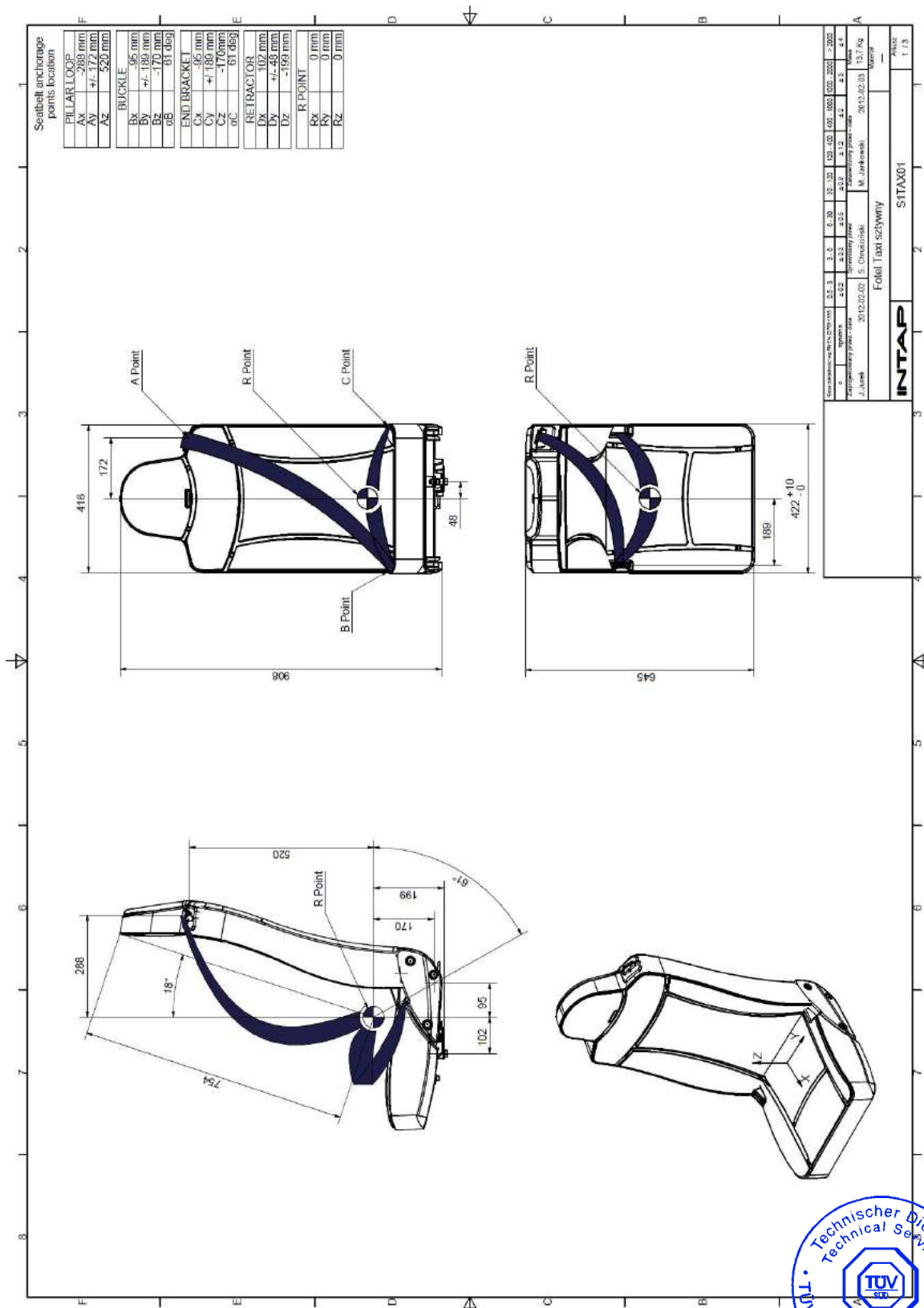






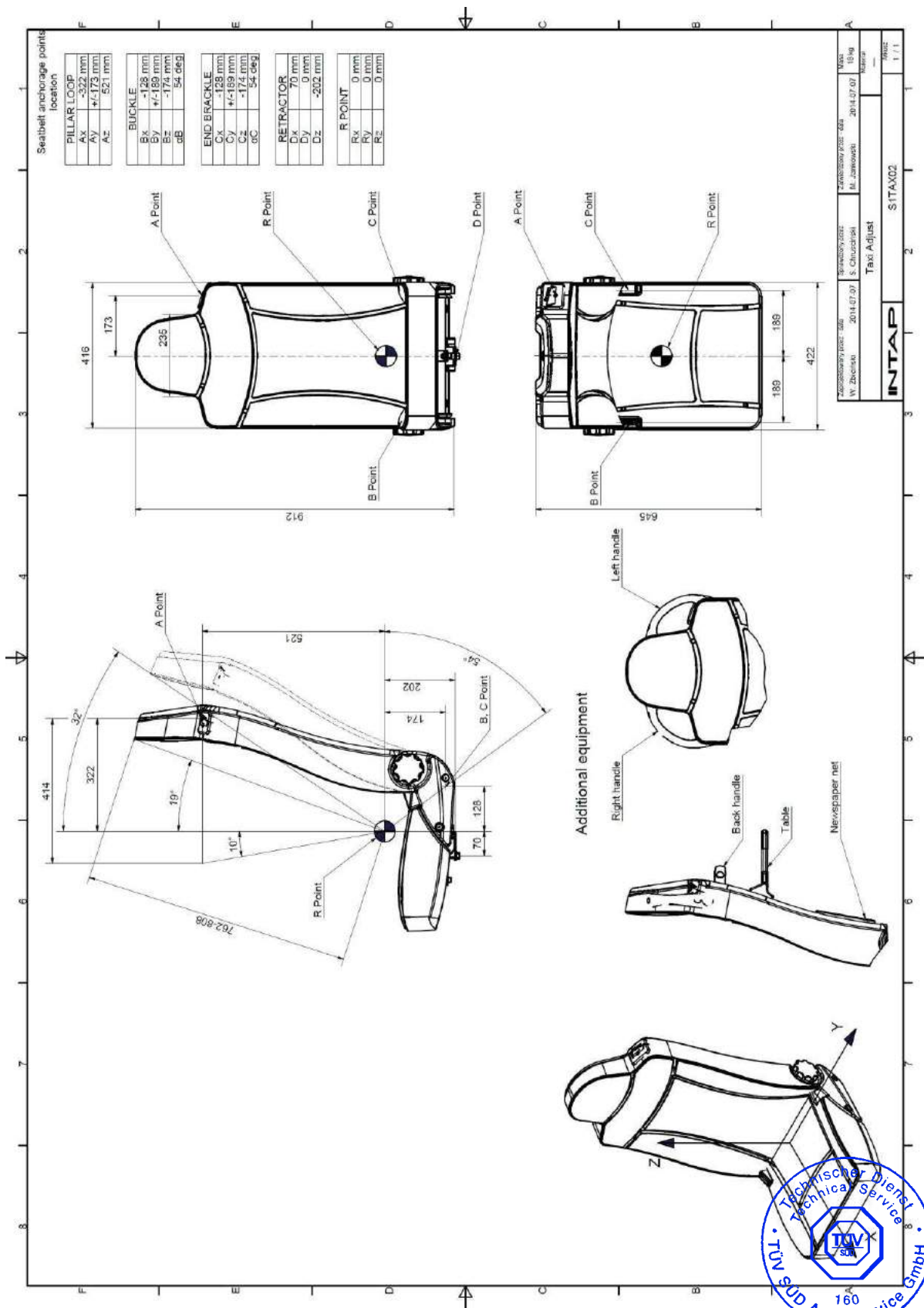
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| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 66/107 |



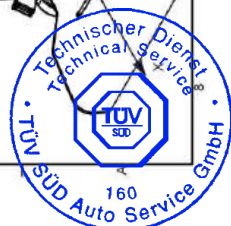
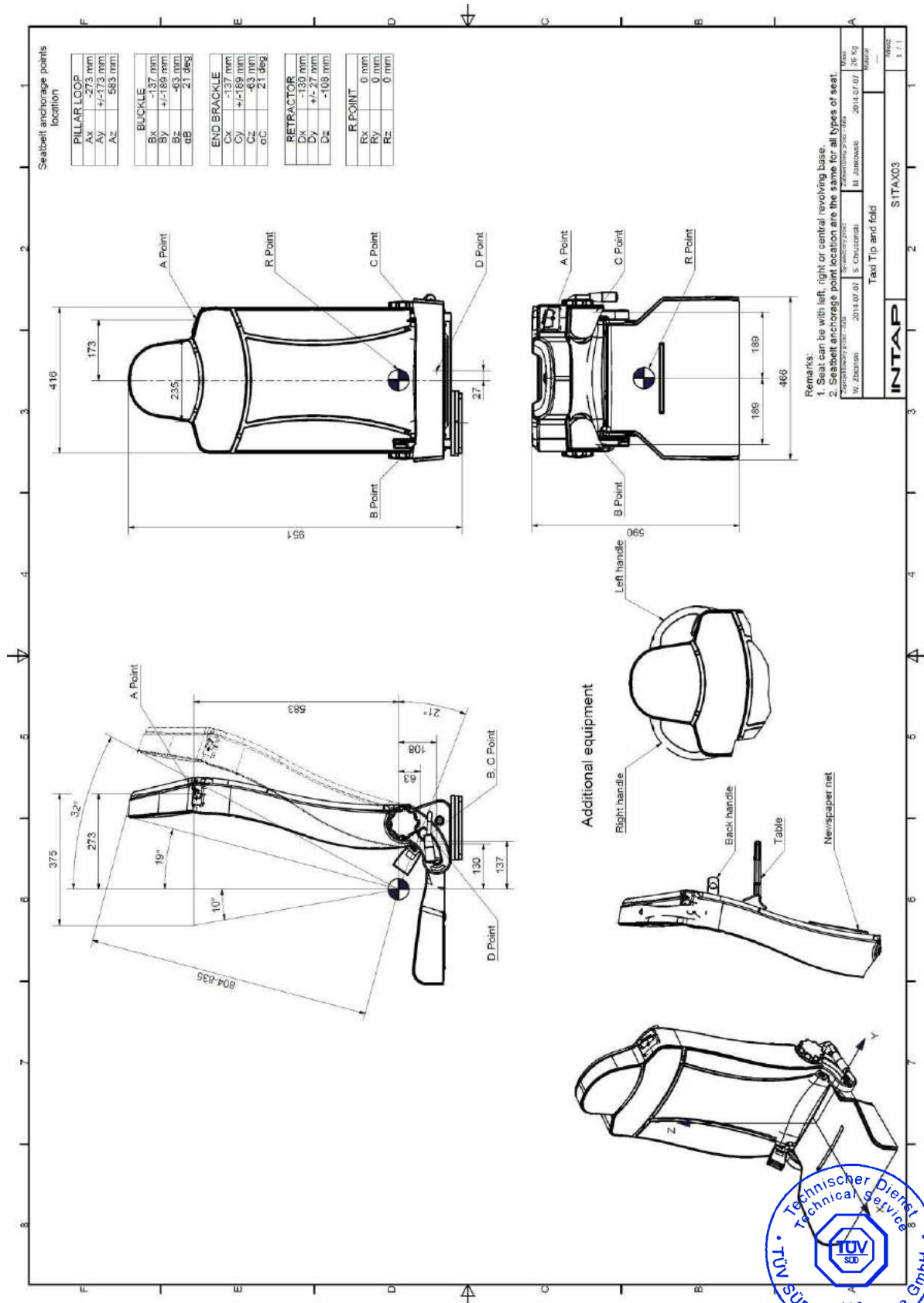


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|-----------------------------|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 | 190 | 200 |
| SITAX01 | | | | | | | | | | | | | | | | | | | | |
| INTAP | | | | | | | | | | | | | | | | | | | | |
| Folie Tam sztywne | | | | | | | | | | | | | | | | | | | | |
| 2012.02.01 S. Chruscielniak | | | | | | | | | | | | | | | | | | | | |
| W. Jankowski | | | | | | | | | | | | | | | | | | | | |
| 2012.02.01 13.7 kg | | | | | | | | | | | | | | | | | | | | |
| 2012.02.01 13.7 kg | | | | | | | | | | | | | | | | | | | | |
| 1.3 | | | | | | | | | | | | | | | | | | | | |

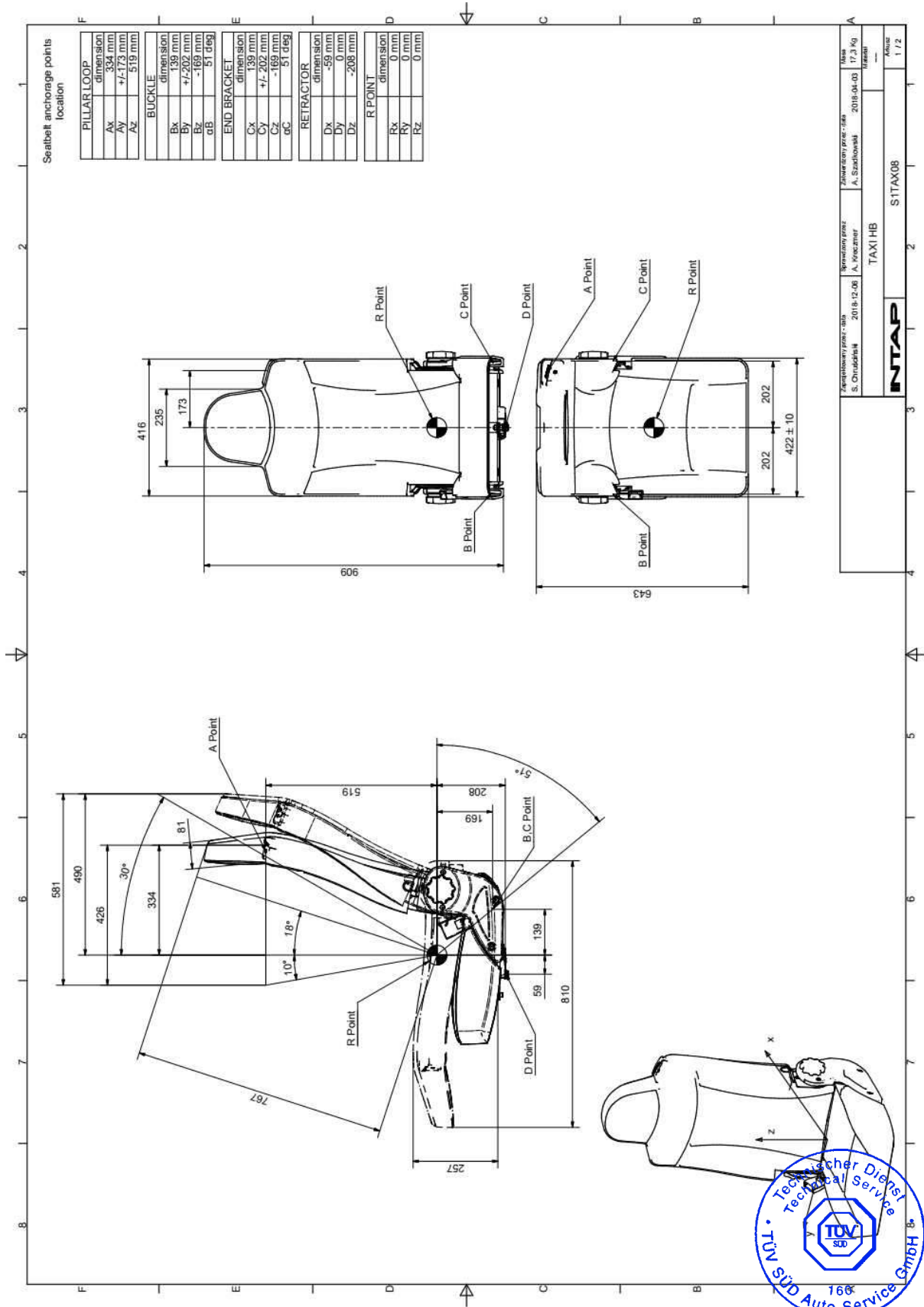




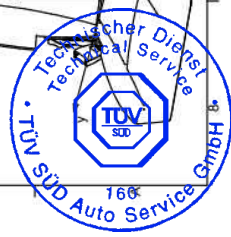
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| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 70/107 |



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| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 71/107 |



| | | | | | |
|-------------------------|-----------|---------------|------------|-------------------------|---------|
| Manufacturer name - min | 2018-2-06 | Approval date | 2018-04-03 | Mass | 17,3 Kg |
| S. Chrástka | A. Kocman | A. Špaňovská | 2018-04-03 | Manufacturer name - max | |
| NTAP TAXI HB | | SITAX08 | | Month | 1 / 2 |



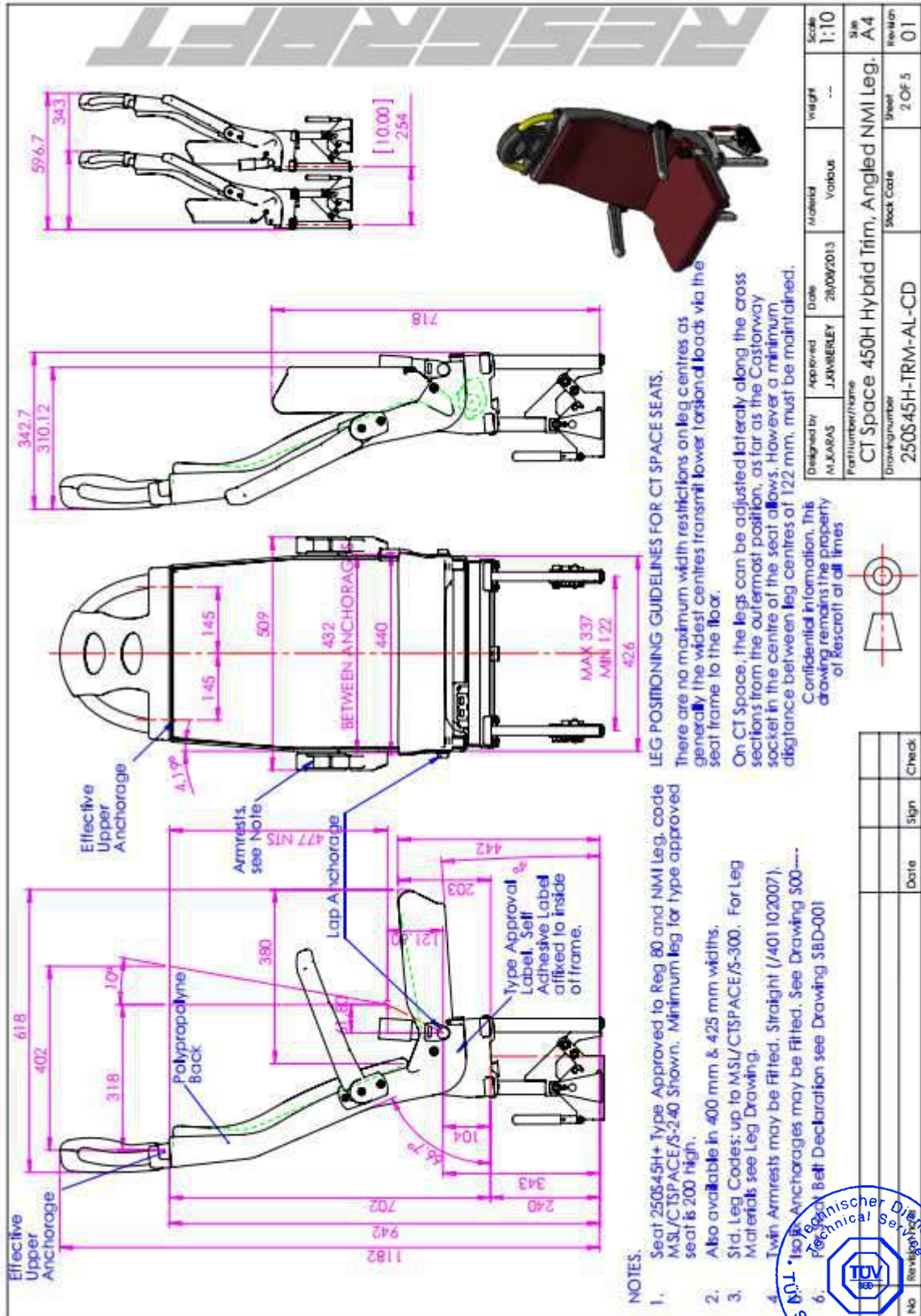
4.3 Seats produced by Rescroft

Rescroft Ltd.
20 Oxleasow Road,
East Moons Moat,
REDDITCH,
Worcestershire, B98 0RE
United Kingdom

| Seat type | Leg | Category seat | Weight of maximum mass configuration |
|-----------|-----------------|---------------|--------------------------------------|
| CT Space | Space saver leg | M2/N2, M3/N3 | 25 kg |



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| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 73/107 |



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| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 74/107 |



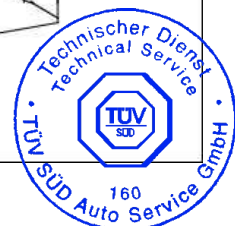
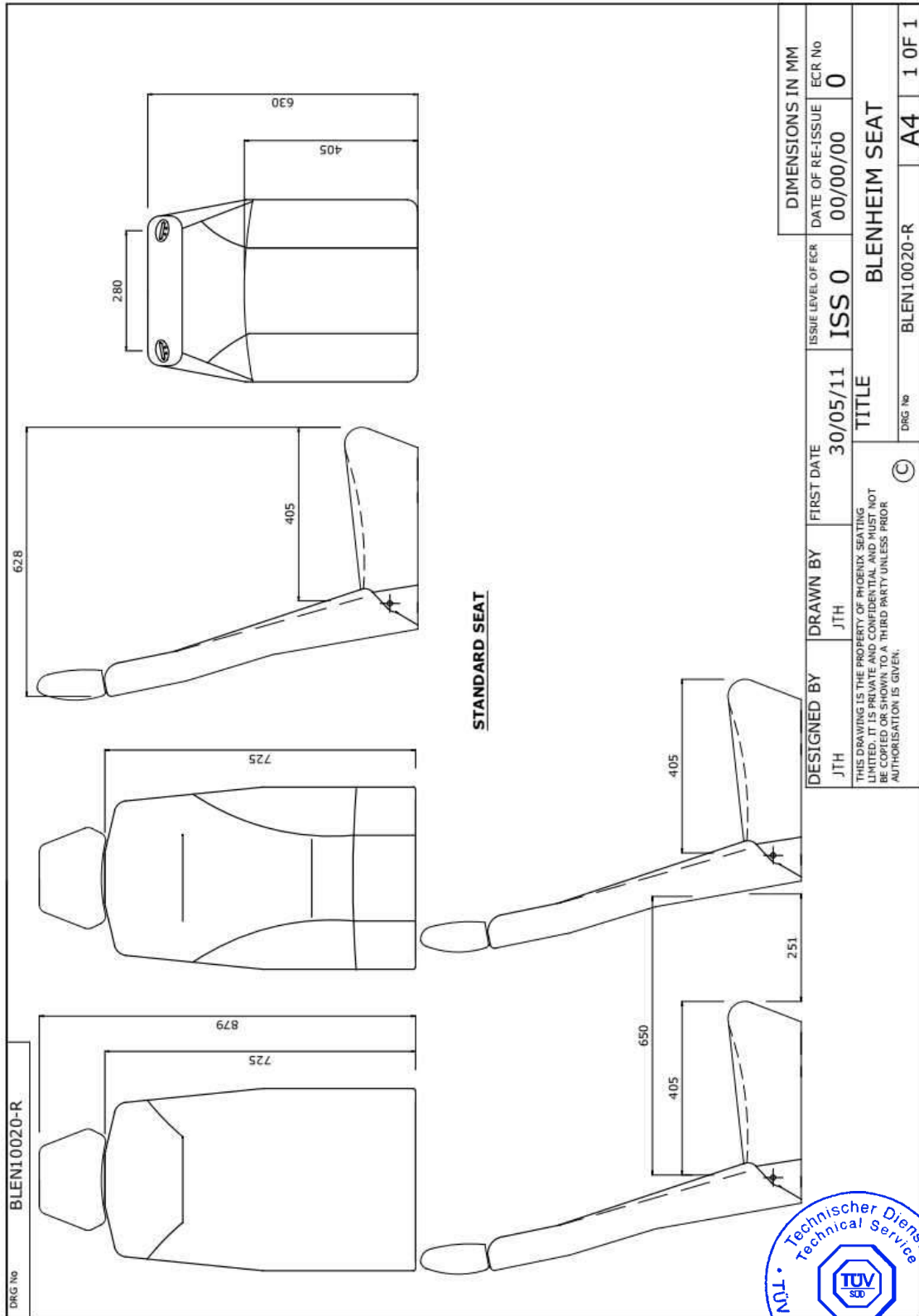
4.4 Seats produced by Phoenix Seating Limited

Phoenix Seating Limited
Unit 47, Bay 3,
Second Avenue,
The Pensnett Estate, Kingswinford,
West Midlands, DY6 7UZ

| Seat type | Leg | Category seats | Weight of maximum mass configuration |
|-----------|----------------|---------------------|--------------------------------------|
| Blenheim | Millennium leg | M1/N1, M2/N2, M3/N3 | 23 kg |



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| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 75/107 |



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| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 76/107 |

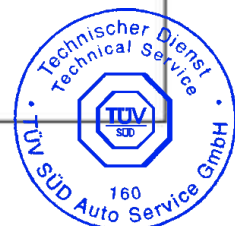
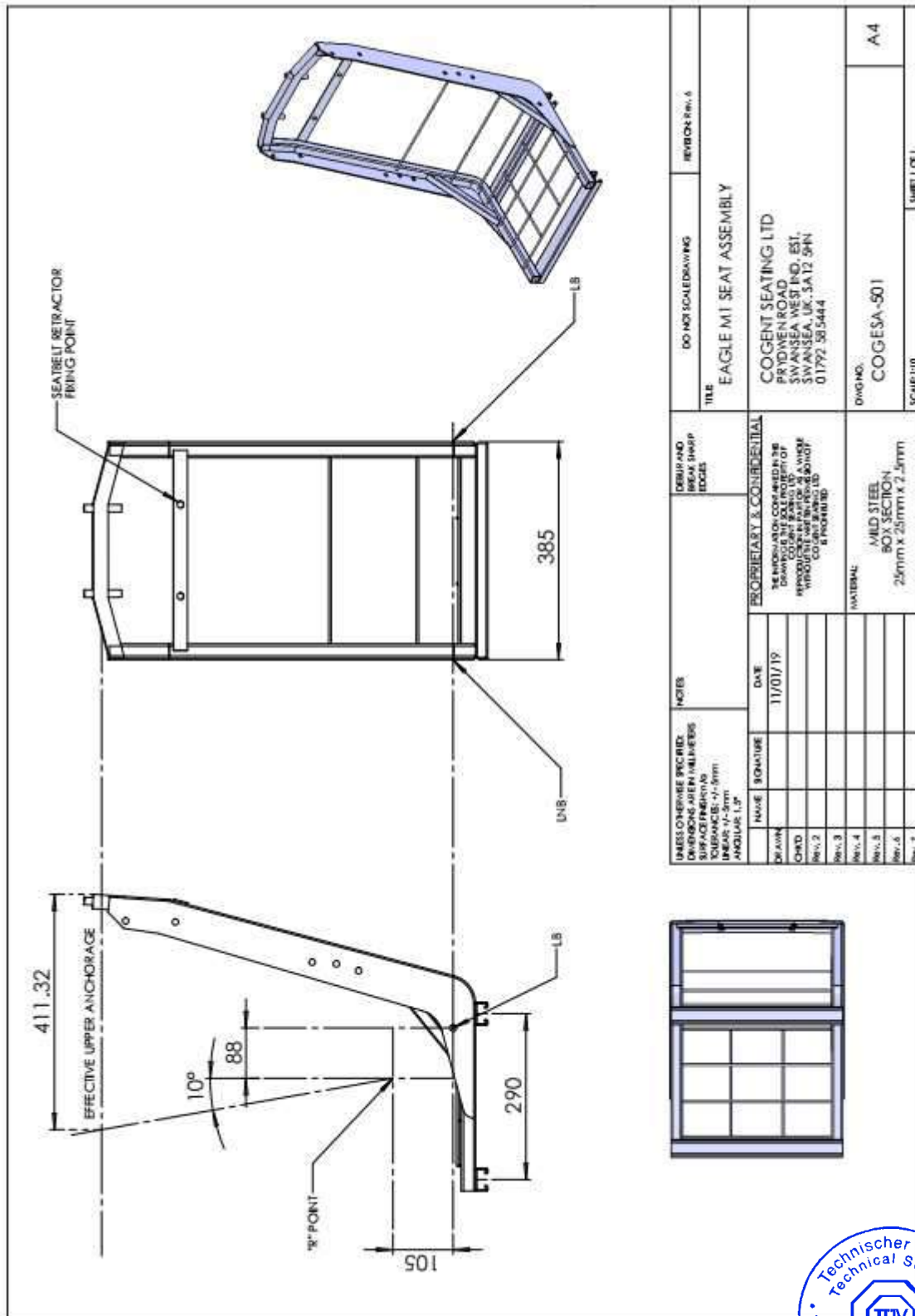
4.5 Seats produced by Cogent Passenger Seating Ltd

Cogent Passenger Seating Ltd
 Prydwen Road
 Swansea West Industrial Park, SA5 4HN

| Seat type | Leg | Category seat | Weight of maximum mass configuration |
|------------|----------------|---------------------|--------------------------------------|
| COGESA-501 | Millennium leg | M1/N1, M2/N2, M3/N3 | 19 kg |

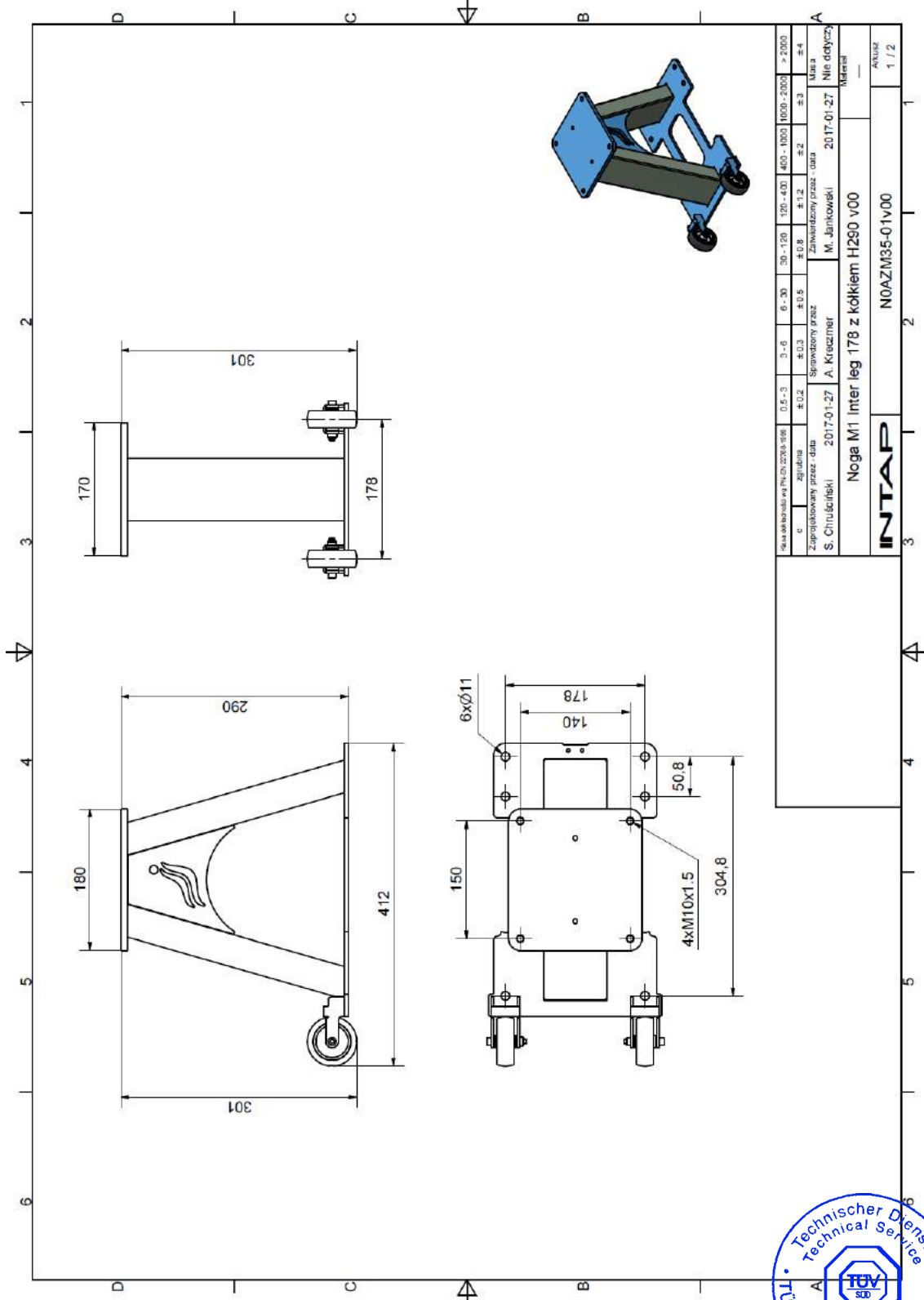


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| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 77/107 |

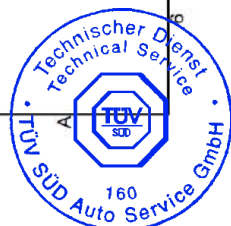


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| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 78/107 |

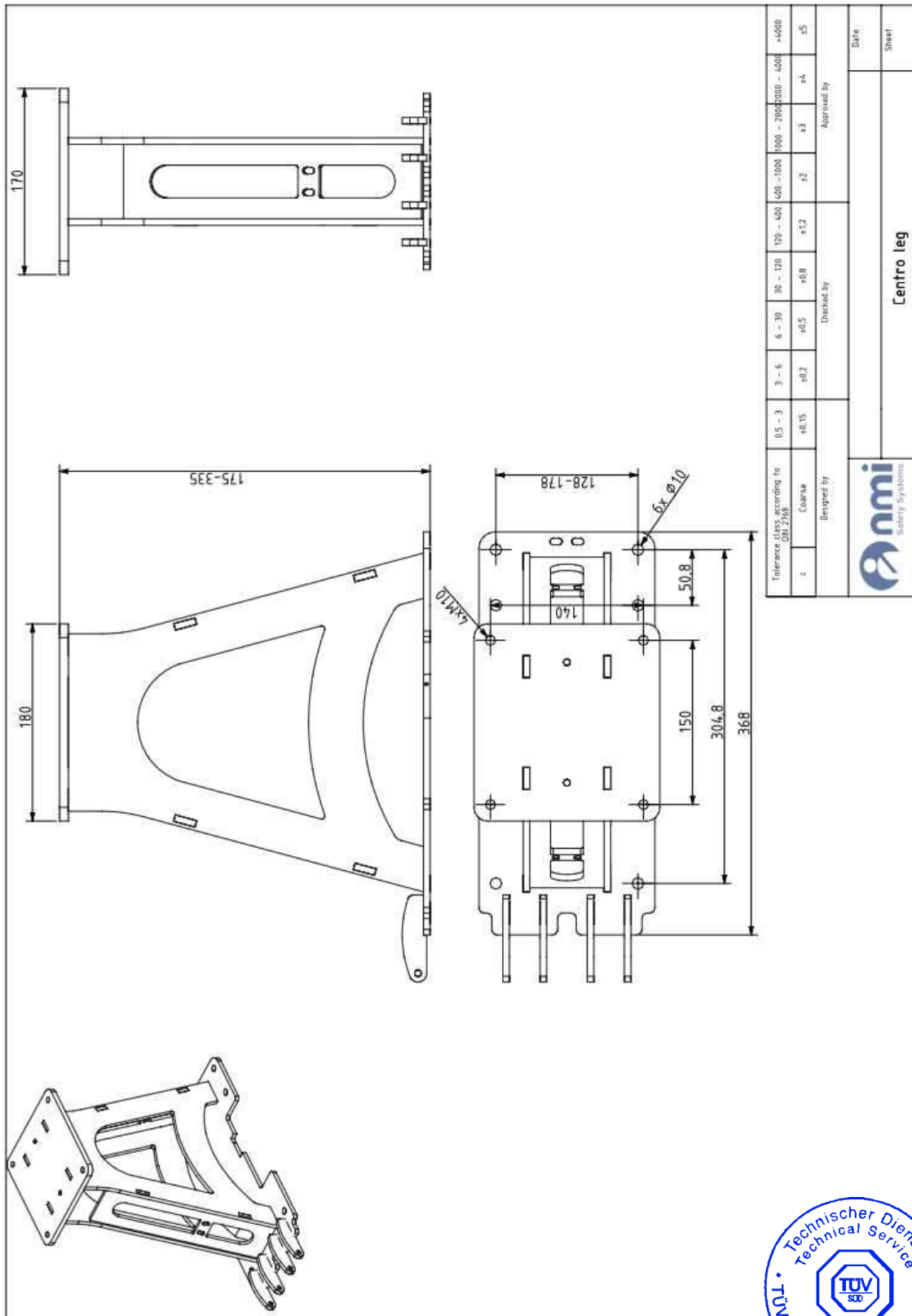
Enclosure 5: DRAWINGS OF LEGS/BASES/WHEELARCH BRIDGES



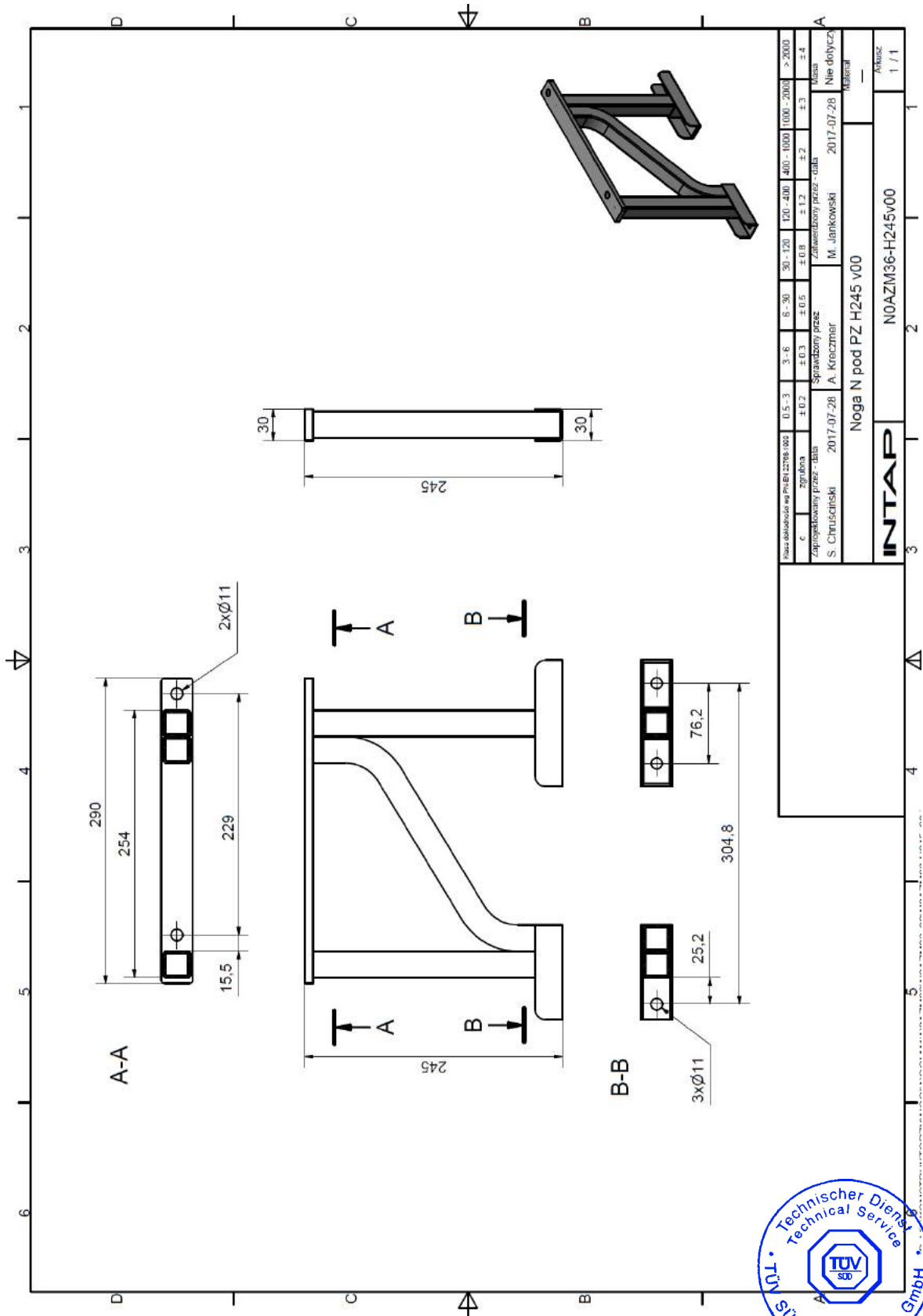
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|--|------------|-------------|------------------|----------------------------|--------------|------------|-------------|----------|
| Wzrost człowieka w PN-EN 22038-1:08 | 0,5 - 3 | 3 - 6 | 6 - 30 | 30 - 120 | 120 - 400 | 400 - 1000 | 1000 - 2000 | > 2000 |
| c | ±0,2 | ±0,3 | ±0,5 | ±0,8 | ±1,2 | ±2 | ±3 | ±4 |
| Zaplanowany przez - data | 2017-01-27 | A. Kreczmer | Sprawdzony przez | Zweryfikowany przez - data | M. Jankowski | 2017-01-27 | Nie dotyczy | Materiał |
| Noga M1 Inter leg 178 z kolkiem H290 V00 | | | | | | | | |
| INTAP | | | | | | | | |
| NOAZM35-01V00 | | | | | | | | |
| ANULUJ | | | | | | | | |
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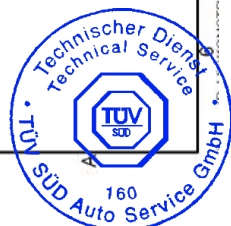
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| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 79/107 |



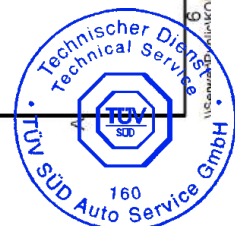
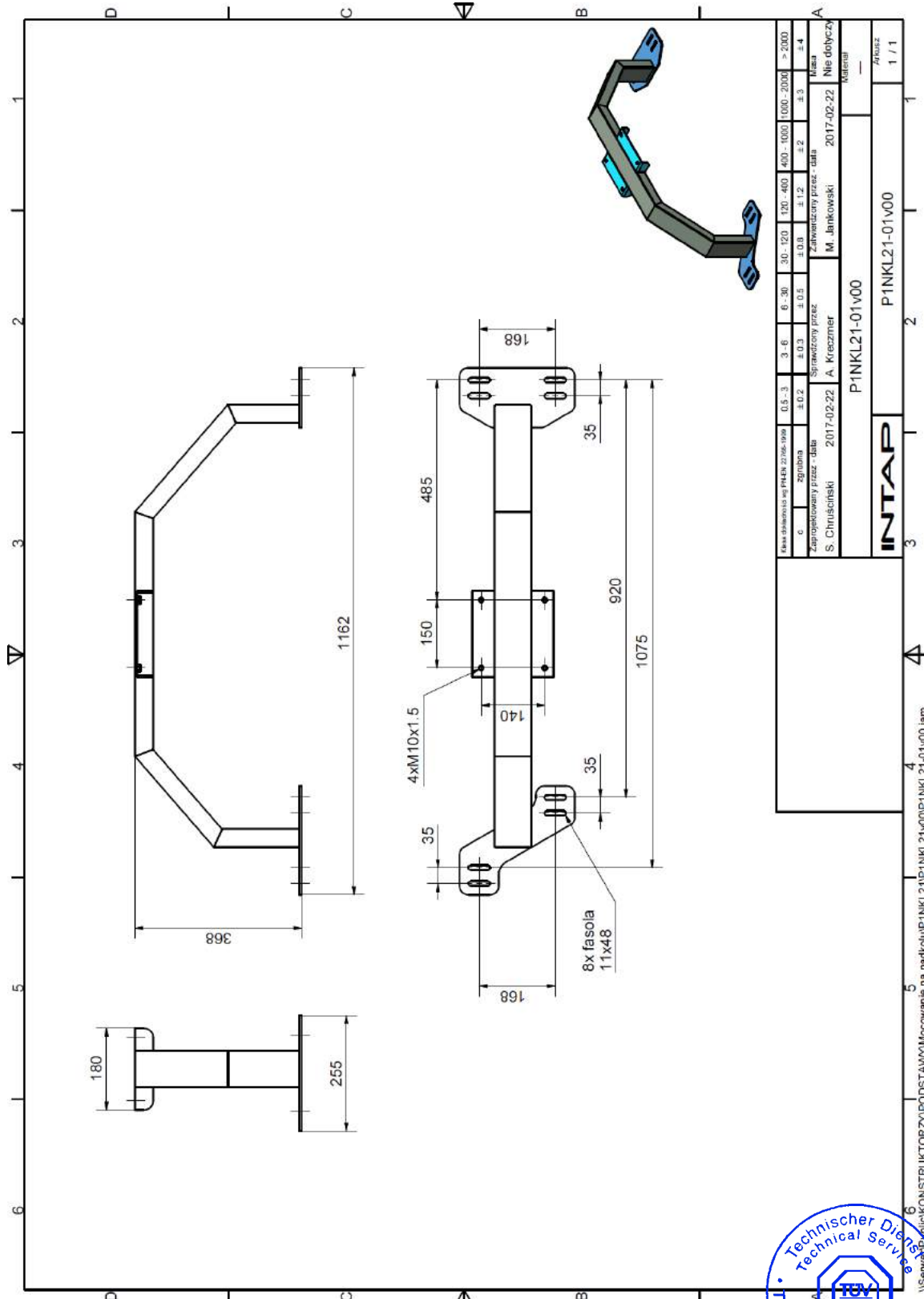
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| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 80/107 |



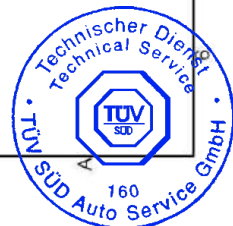
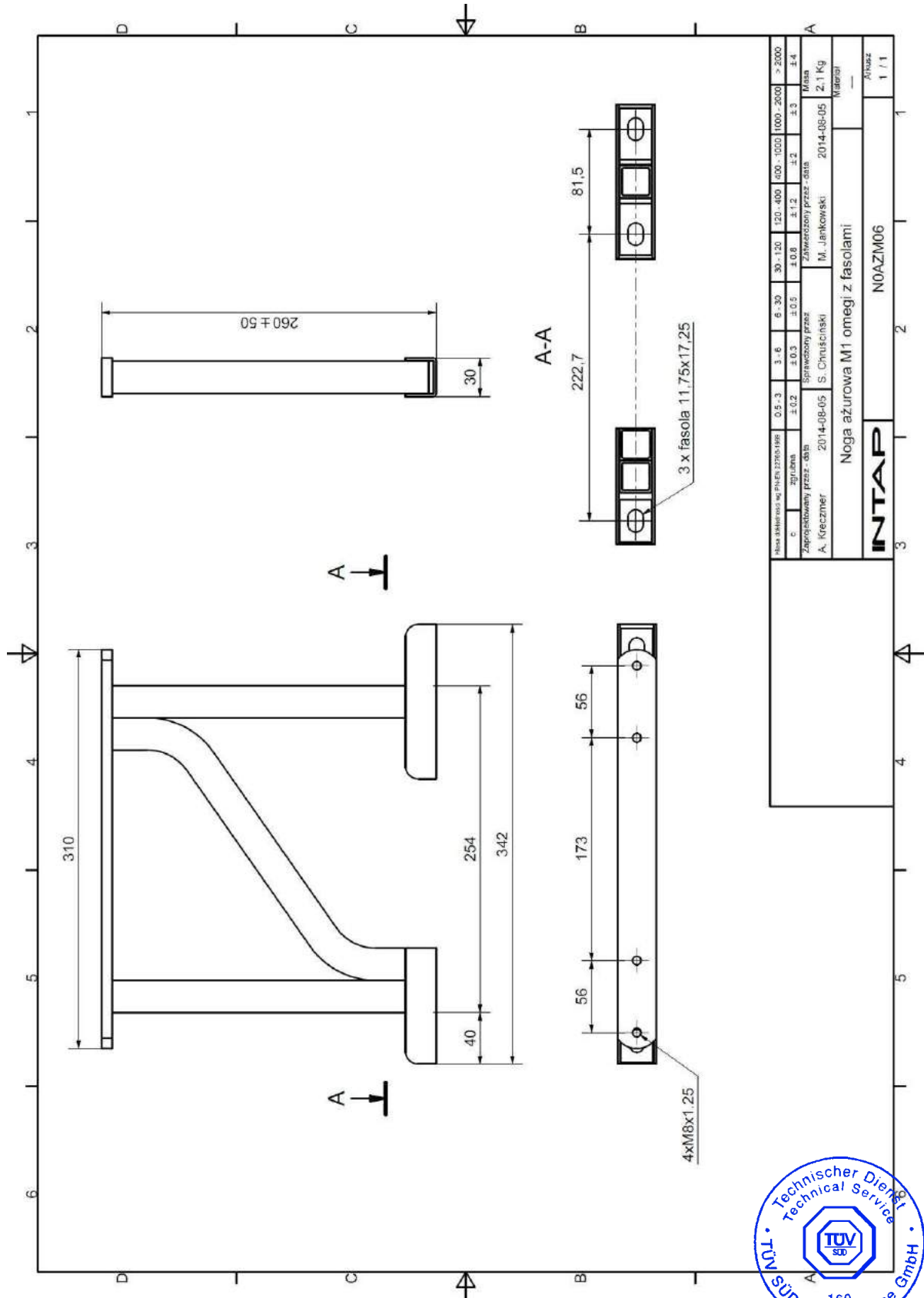
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|--|------|-------|------|--------|------|----------|------|-----------|------|------------|----|-------------|----|--------|----|
| 0.5 - 3 | ±0.2 | 3 - 6 | ±0.3 | 6 - 30 | ±0.5 | 30 - 120 | ±0.8 | 120 - 400 | ±1.2 | 400 - 1000 | ±2 | 1000 - 2000 | ±3 | > 2000 | ±4 |
| Zaproszony przez - data | | | | | | | | | | | | | | | |
| S. Chruscinski 2017-07-28 A. Kreiczmer M. Jankowski 2017-07-28 Nie dotyczy | | | | | | | | | | | | | | | |
| Zaprojektowany przez - data | | | | | | | | | | | | | | | |
| S. Chruscinski 2017-07-28 A. Kreiczmer M. Jankowski 2017-07-28 Nie dotyczy | | | | | | | | | | | | | | | |
| Sprawdzony przez - data | | | | | | | | | | | | | | | |
| A. Kreiczmer M. Jankowski 2017-07-28 Nie dotyczy | | | | | | | | | | | | | | | |
| Zatwierdzony przez - data | | | | | | | | | | | | | | | |
| M. Jankowski 2017-07-28 Nie dotyczy | | | | | | | | | | | | | | | |
| Materiał | | | | | | | | | | | | | | | |
| Noga N pod PZ H245 v00 | | | | | | | | | | | | | | | |
| N0AZM36-H245v00 | | | | | | | | | | | | | | | |
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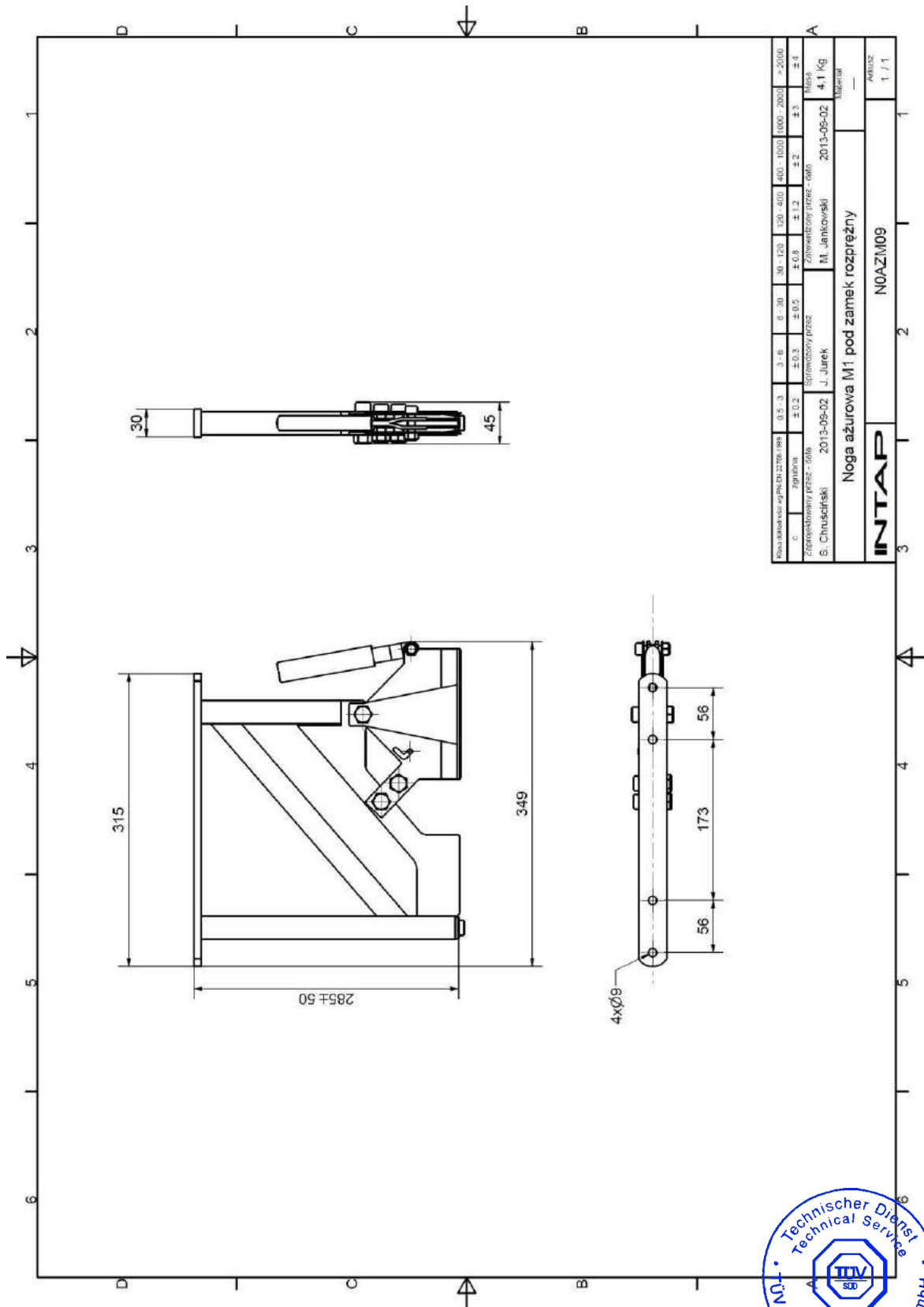
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| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 81/107 |



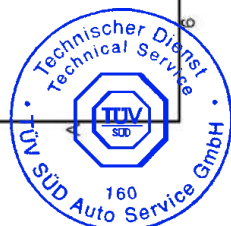
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| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 82/107 |



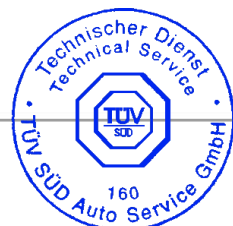
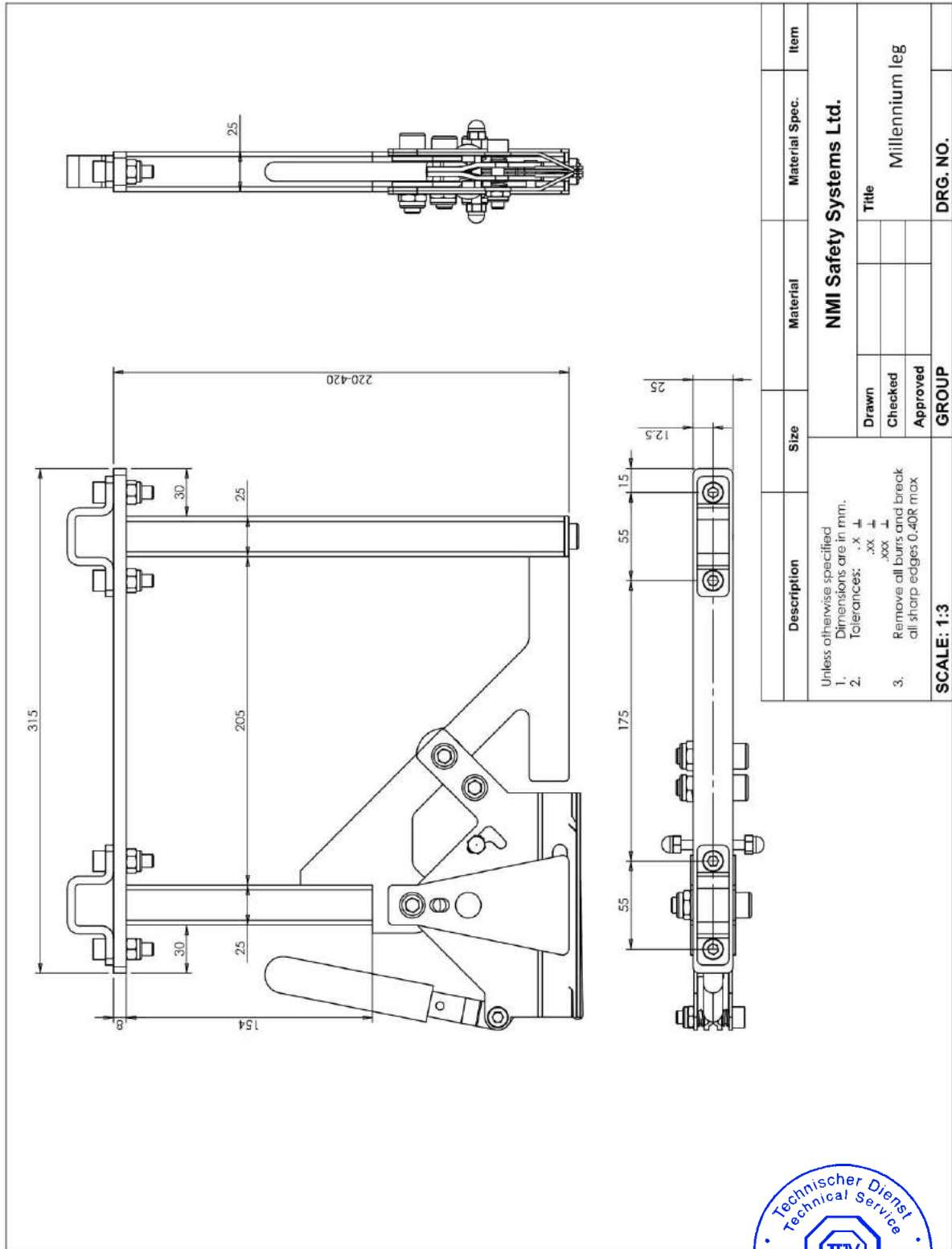
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| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 83/107 |



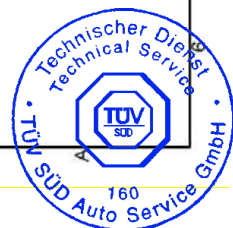
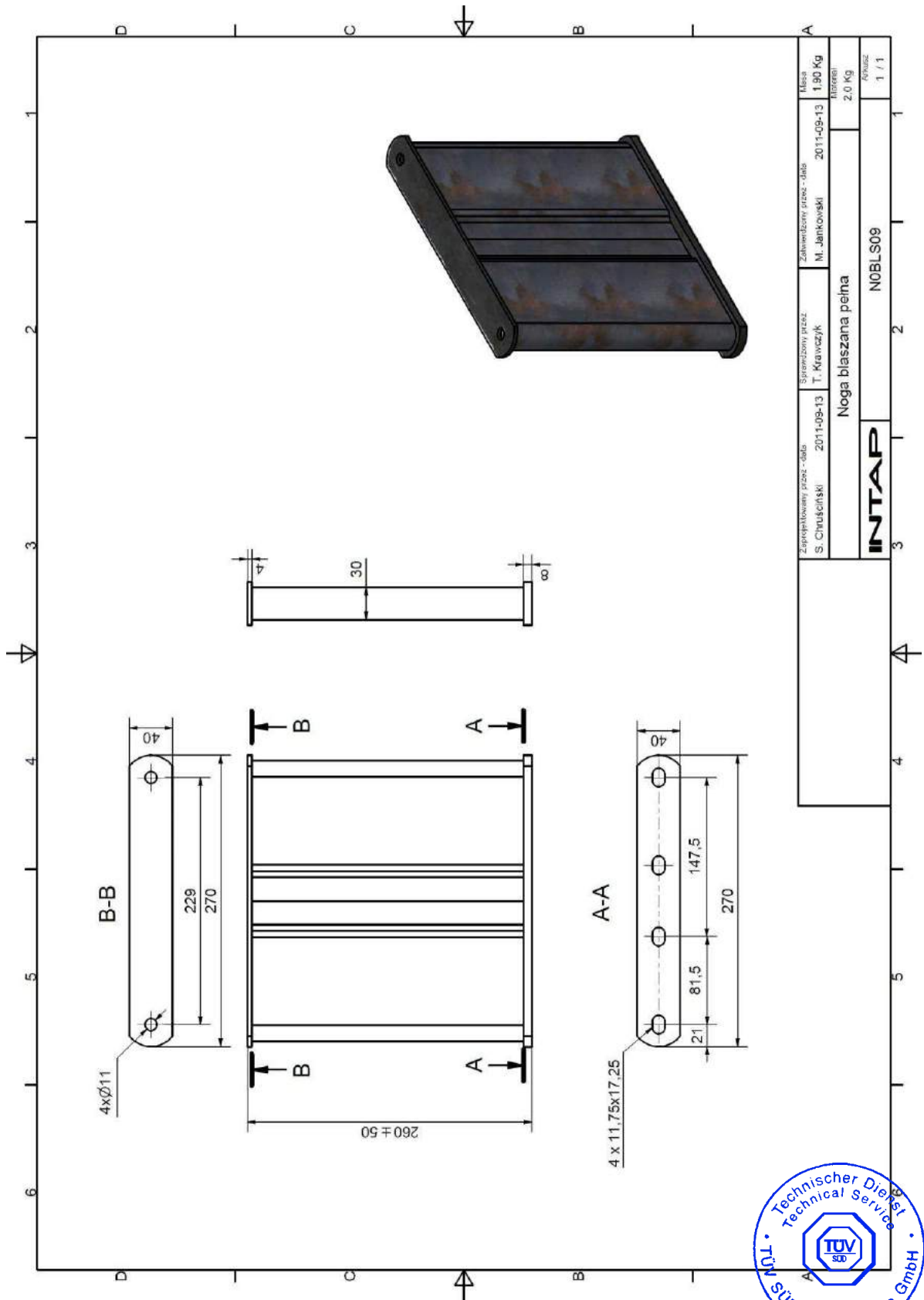
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|--|--|------------------|-------|--------------------|----------|------------|------------|-------------|--------|
| Rozmiar składowy (mm) | | 0,5 - 3 | 3 - 6 | 6 - 30 | 30 - 120 | 120 - 400 | 400 - 1000 | 1000 - 2000 | ≥ 2000 |
| Zgrubienia | | ± 0,2 | ± 0,3 | ± 0,5 | ± 0,8 | ± 1,2 | ± 2 | ± 3 | ± 4 |
| Zępatkowalność (PFSS) - 009 | | Sprawdzony przez | | Zatwierdzony przez | | Masa | | Materiał | |
| S. Chruszczński | | 2013-09-02 | | J. Jurek | | 2013-09-02 | | 4,1 Kg | |
| M. Jankowski | | 2013-09-02 | | M. Jankowski | | 2013-09-02 | | — | |
| Noga ażurowa M1 pod zamek rozprężny | | | | | | | | | |
| INTAP | | NOAZM09 | | 1 / 1 | | 1 / 1 | | 1 / 1 | |



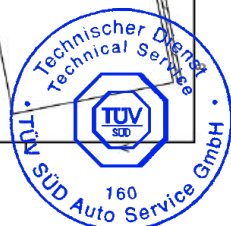
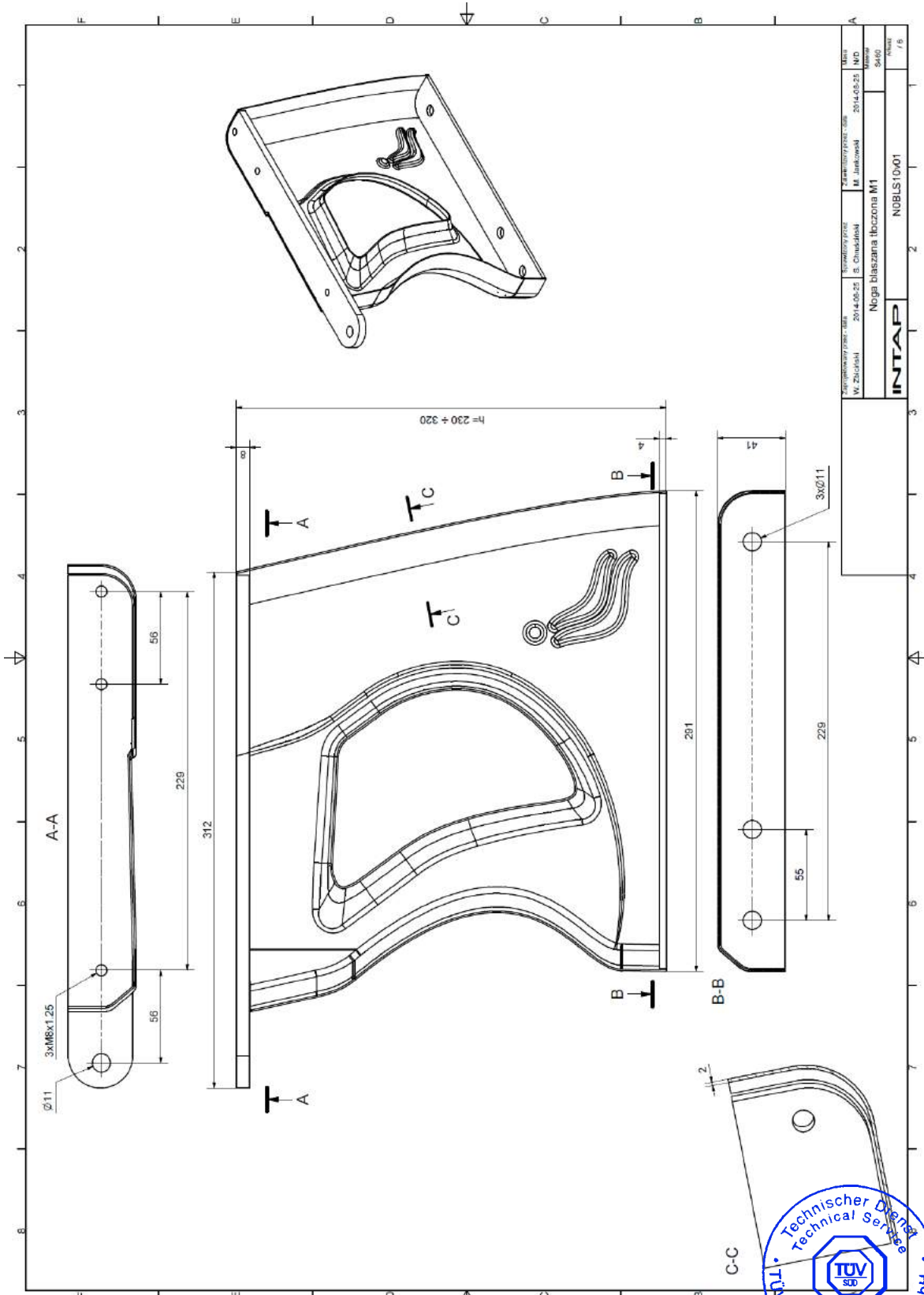
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| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 84/107 |



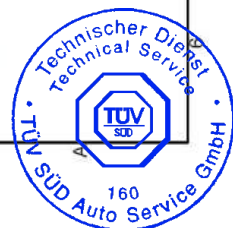
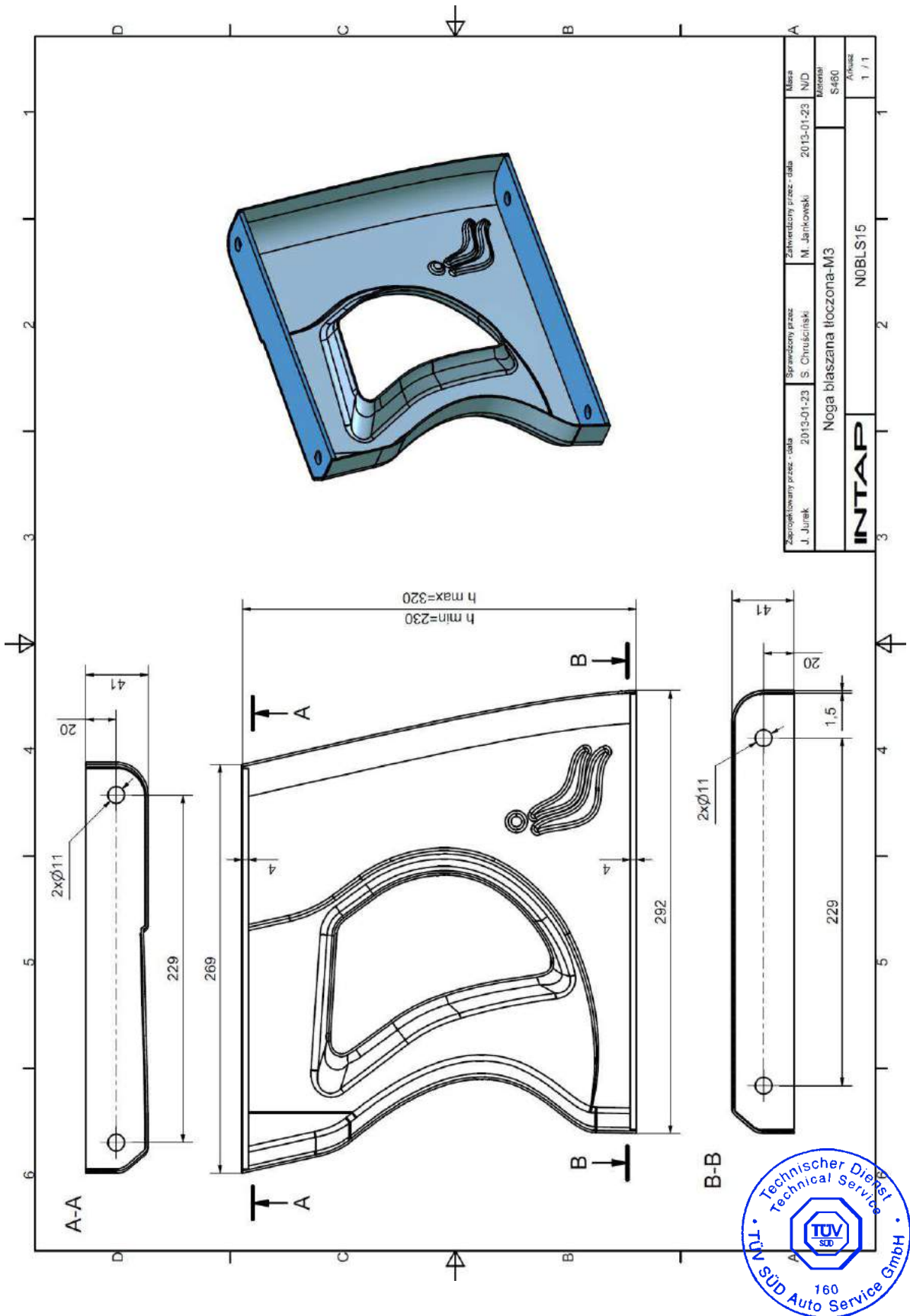
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| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 85/107 |



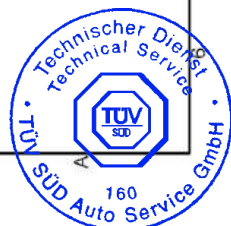
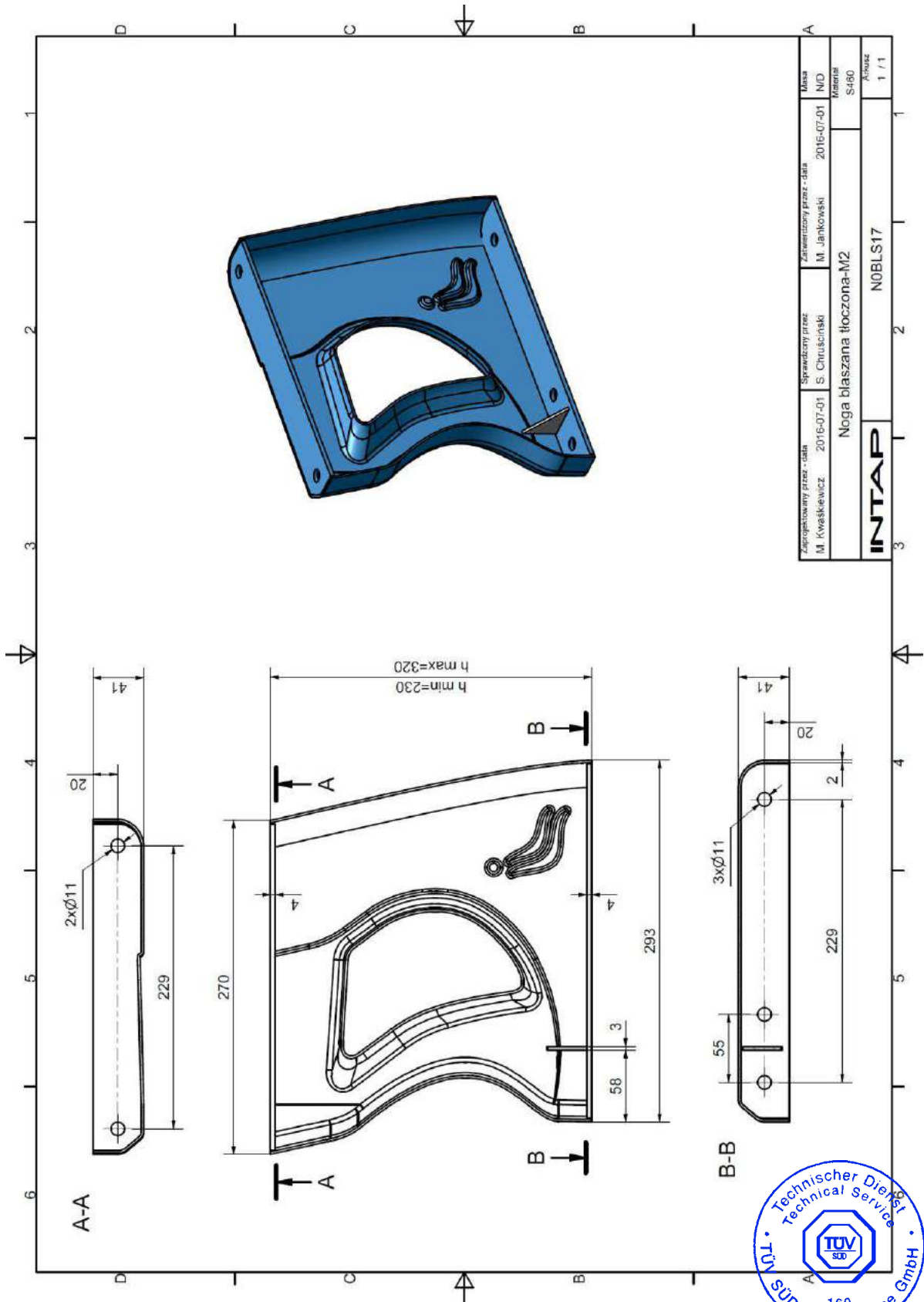
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| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 86/107 |



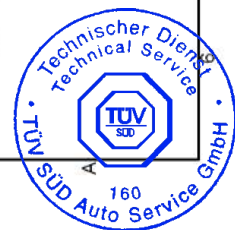
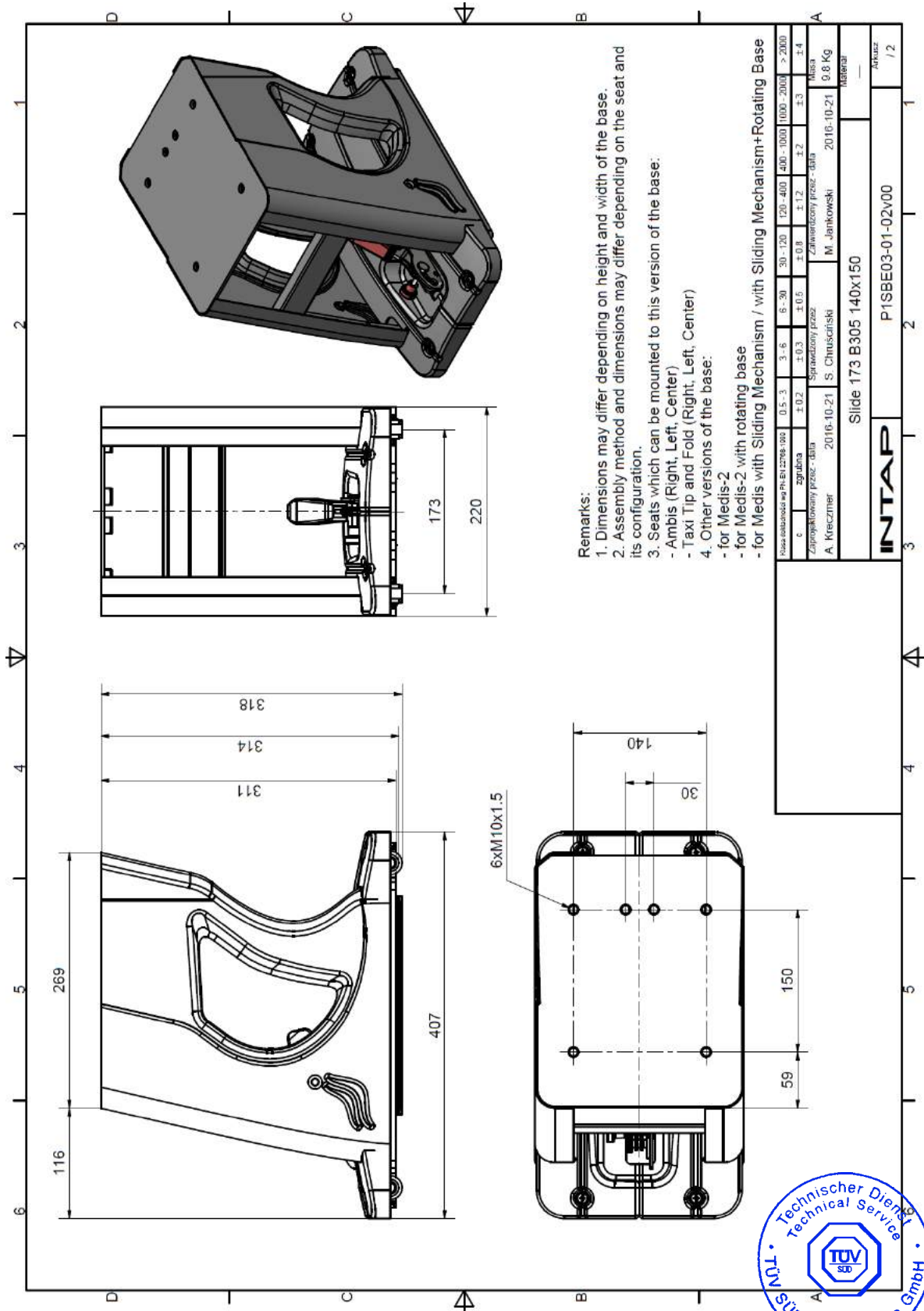
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| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 87/107 |



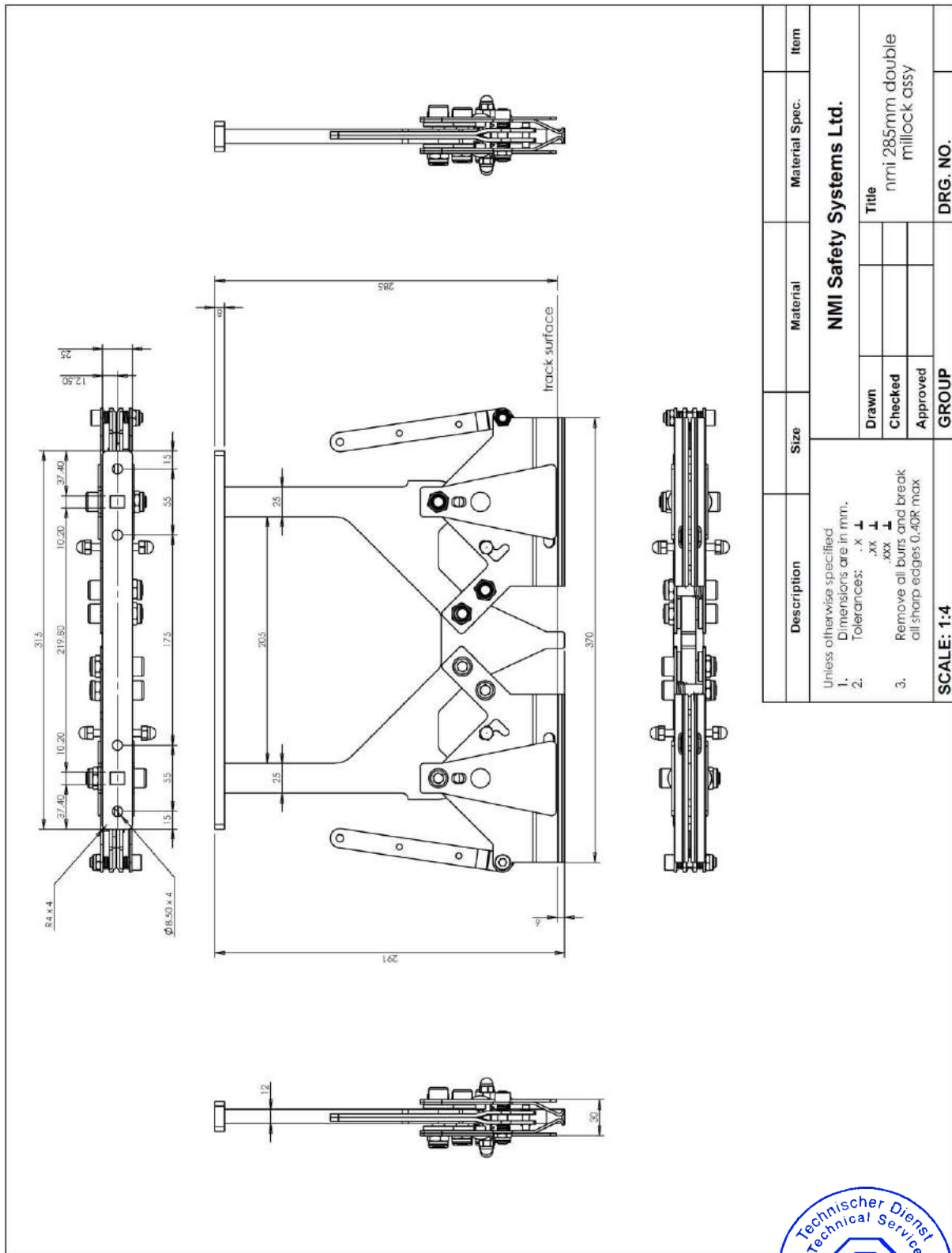
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| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 88/107 |



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| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 89/107 |



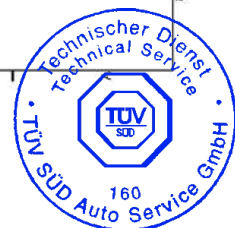
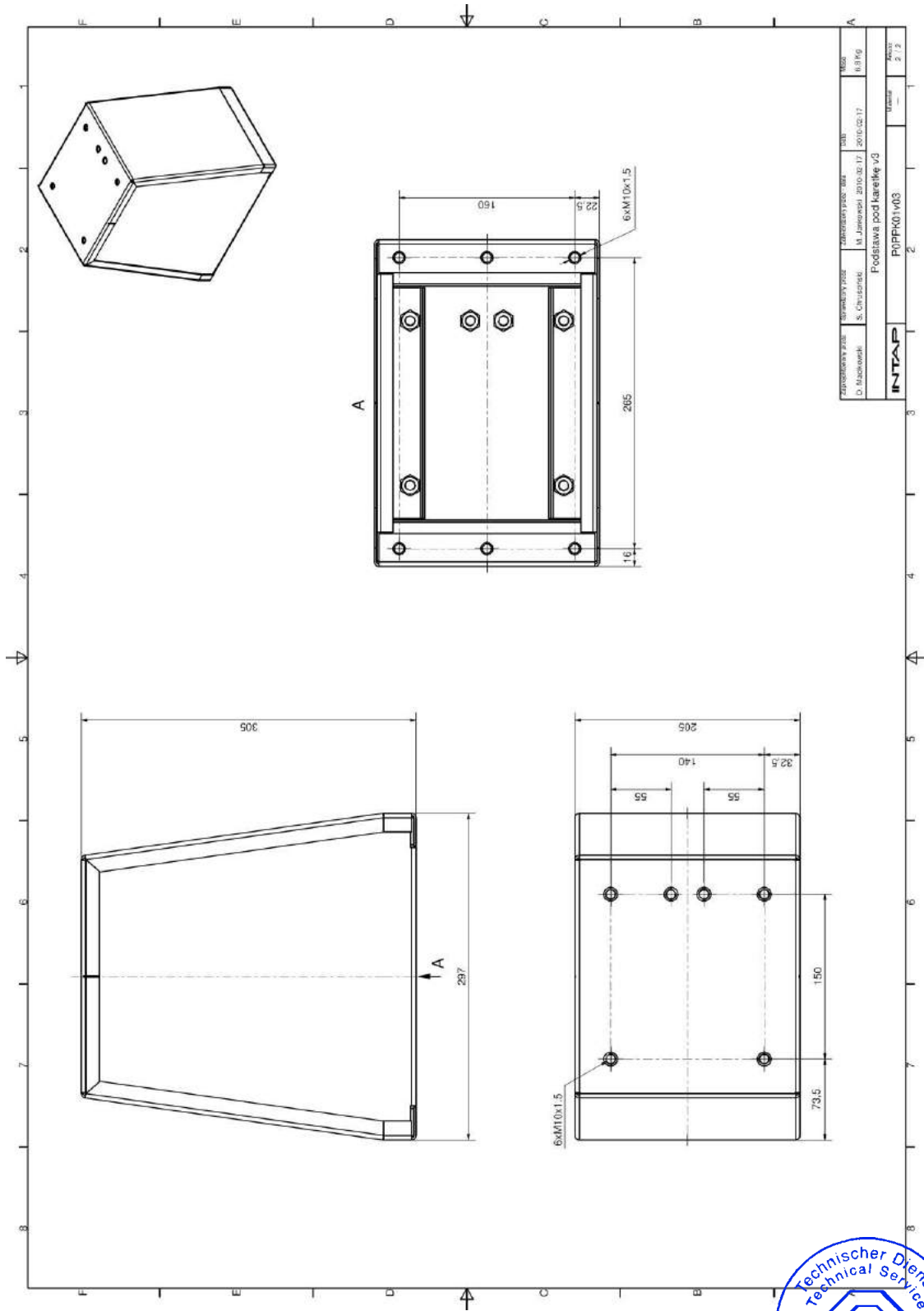
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| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 90/107 |



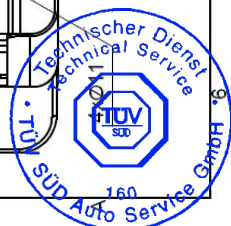
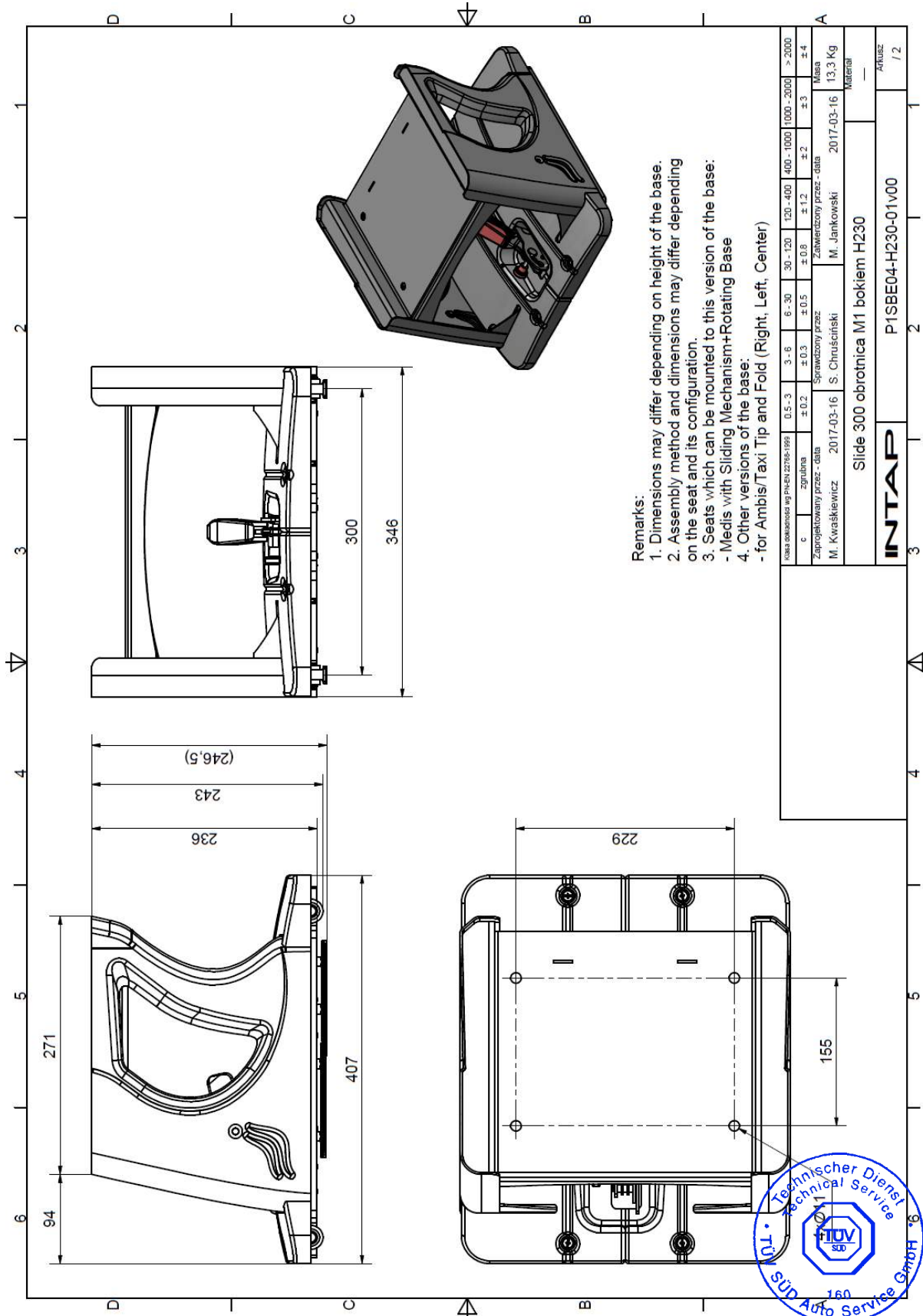
| Description | Size | Material | Material Spec. | Item |
|--|------|---|----------------|------|
| NMI Safety Systems Ltd. | | | | |
| Unless otherwise specified 1. Dimensions are in mm. 2. Tolerances: .x \pm .xx \pm .xxx \pm 3. Remove all burrs and break all sharp edges 0.40R max | | Title nmi 285mm double millock assy | | |
| Drawn Checked Approved | | GROUP DRG. NO. | | |
| SCALE: 1:4 | | | | |

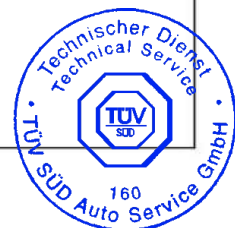
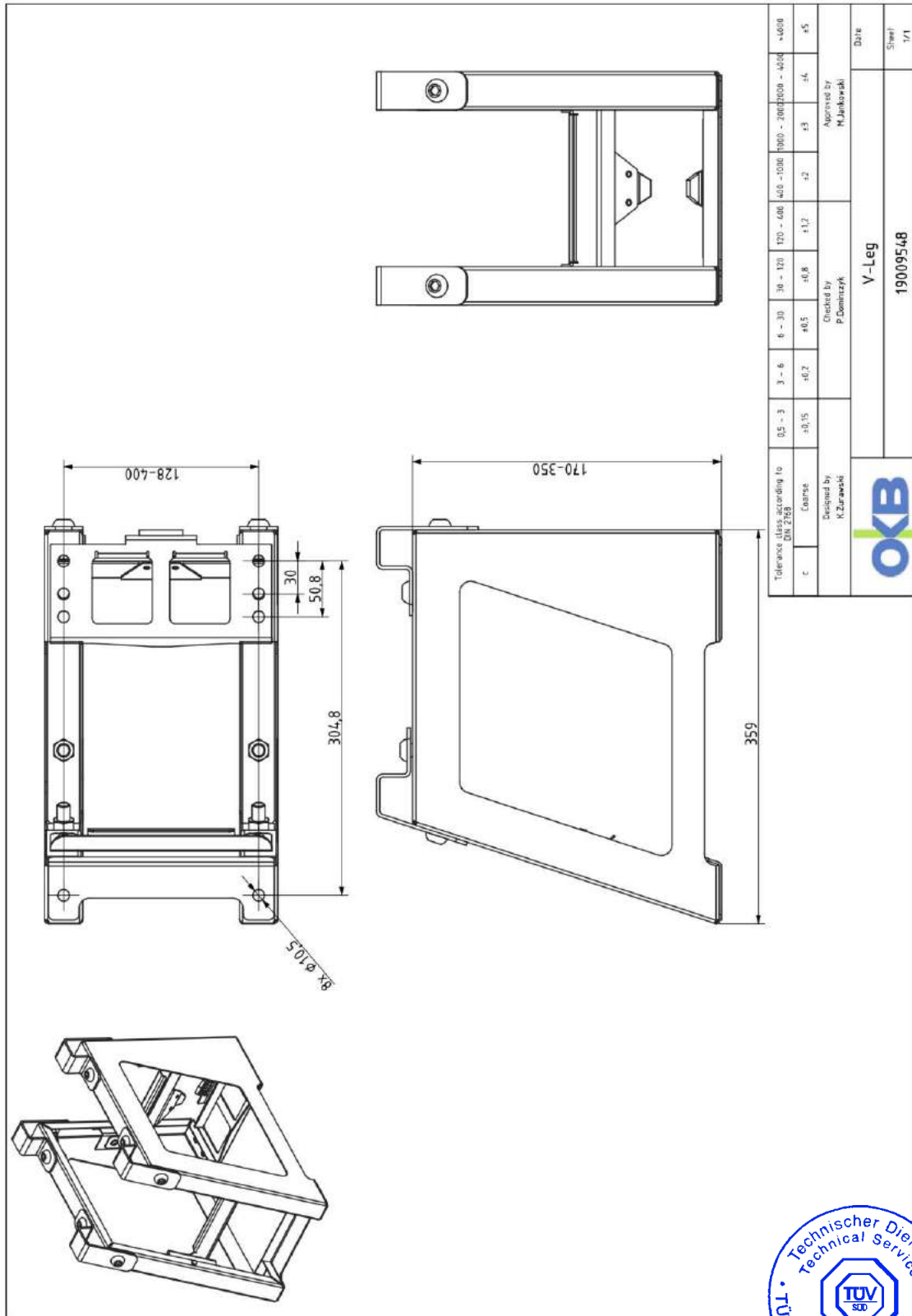


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| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 91/107 |

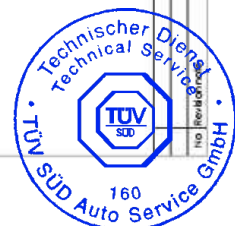
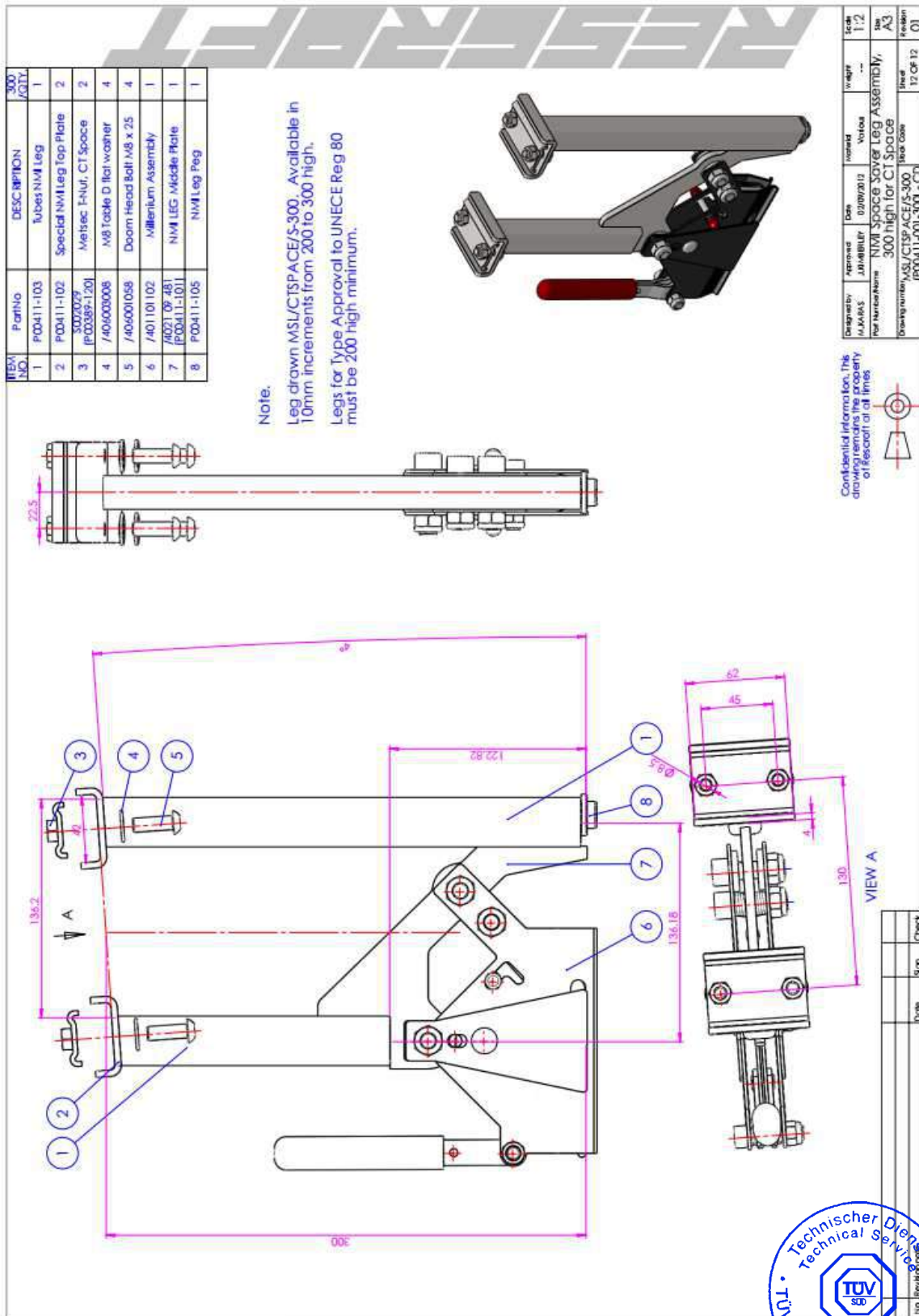


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| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 92/107 |



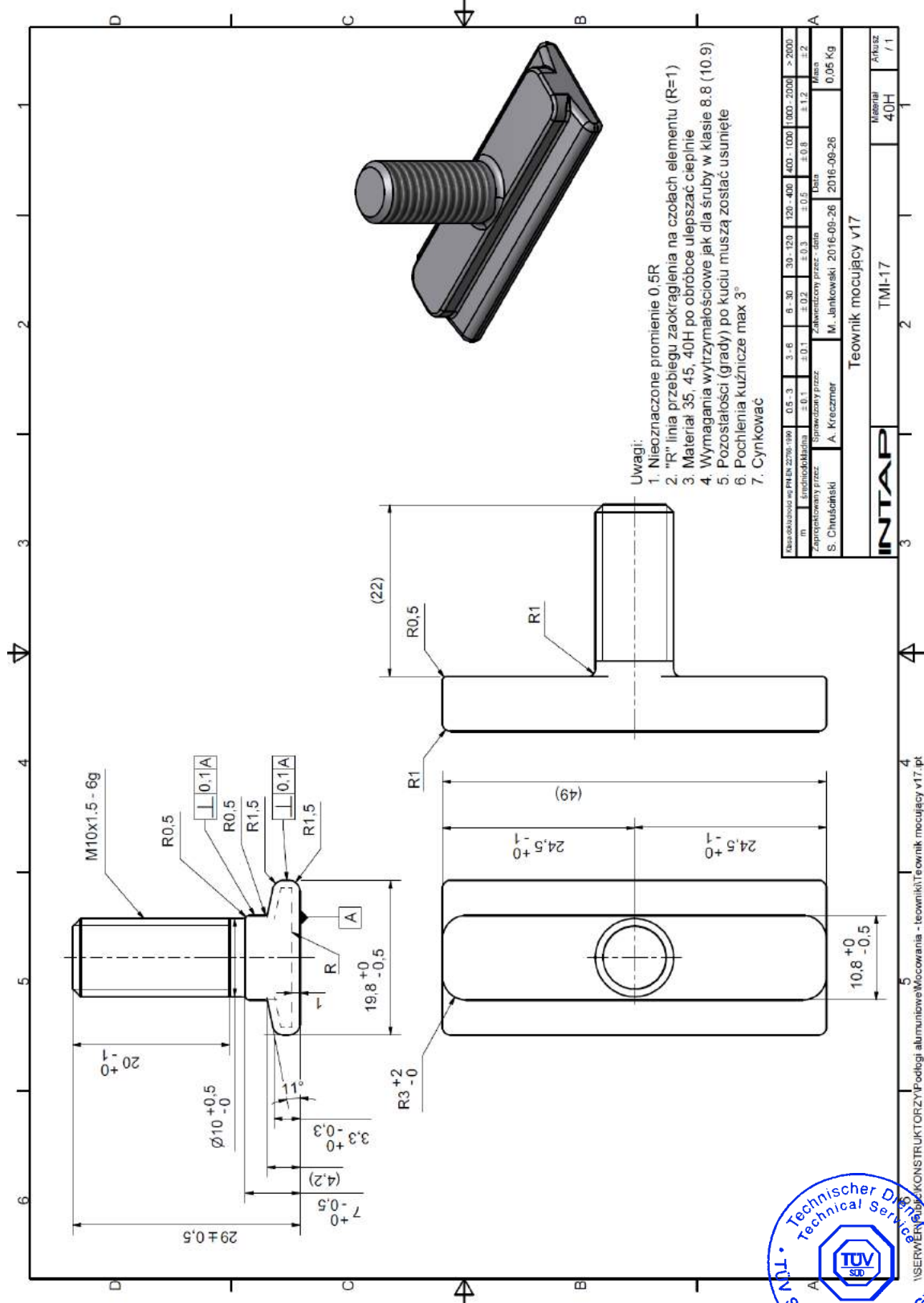


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| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 94/107 |

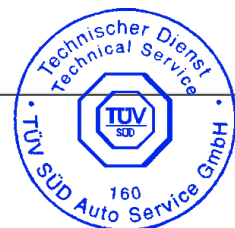
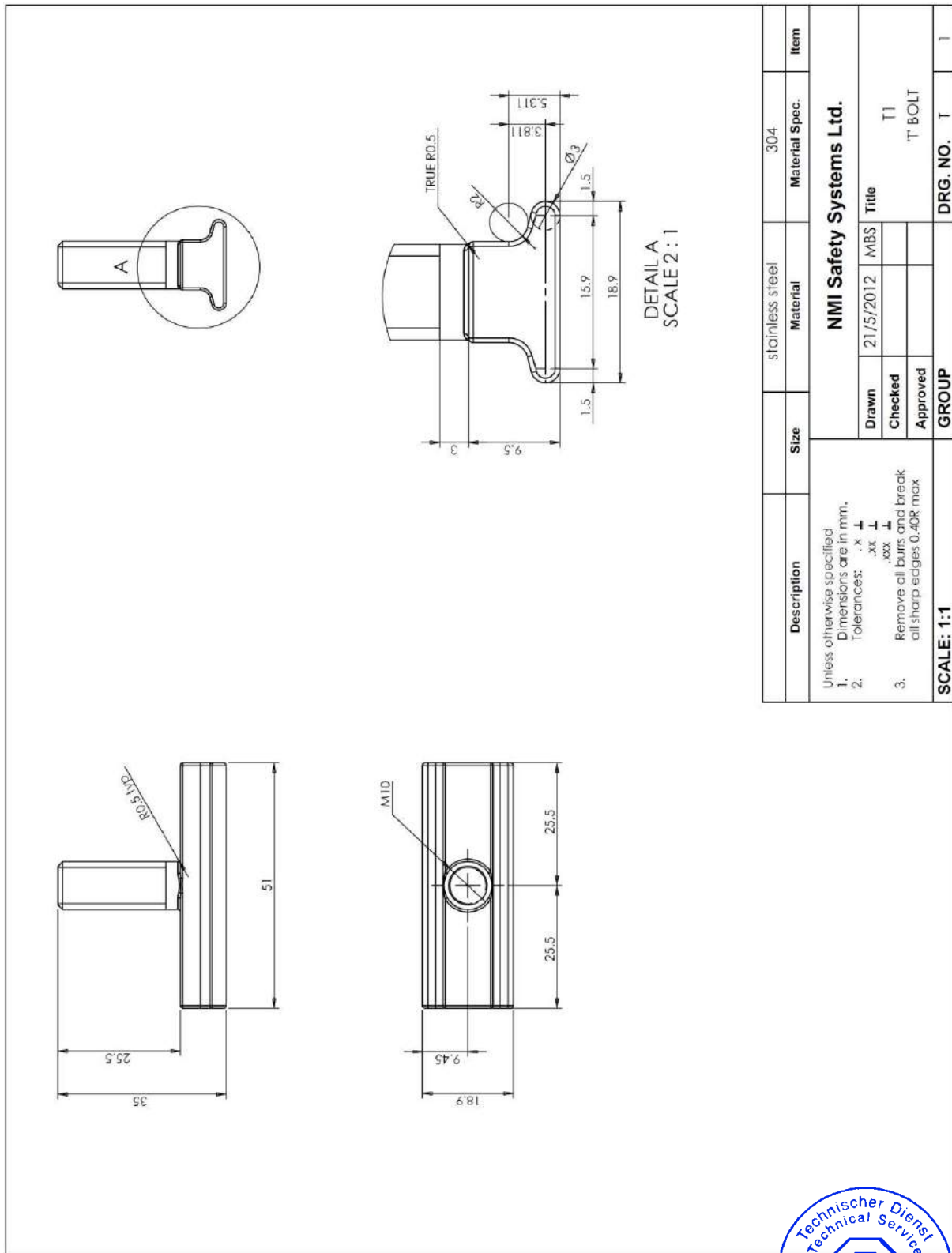


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| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 95/107 |

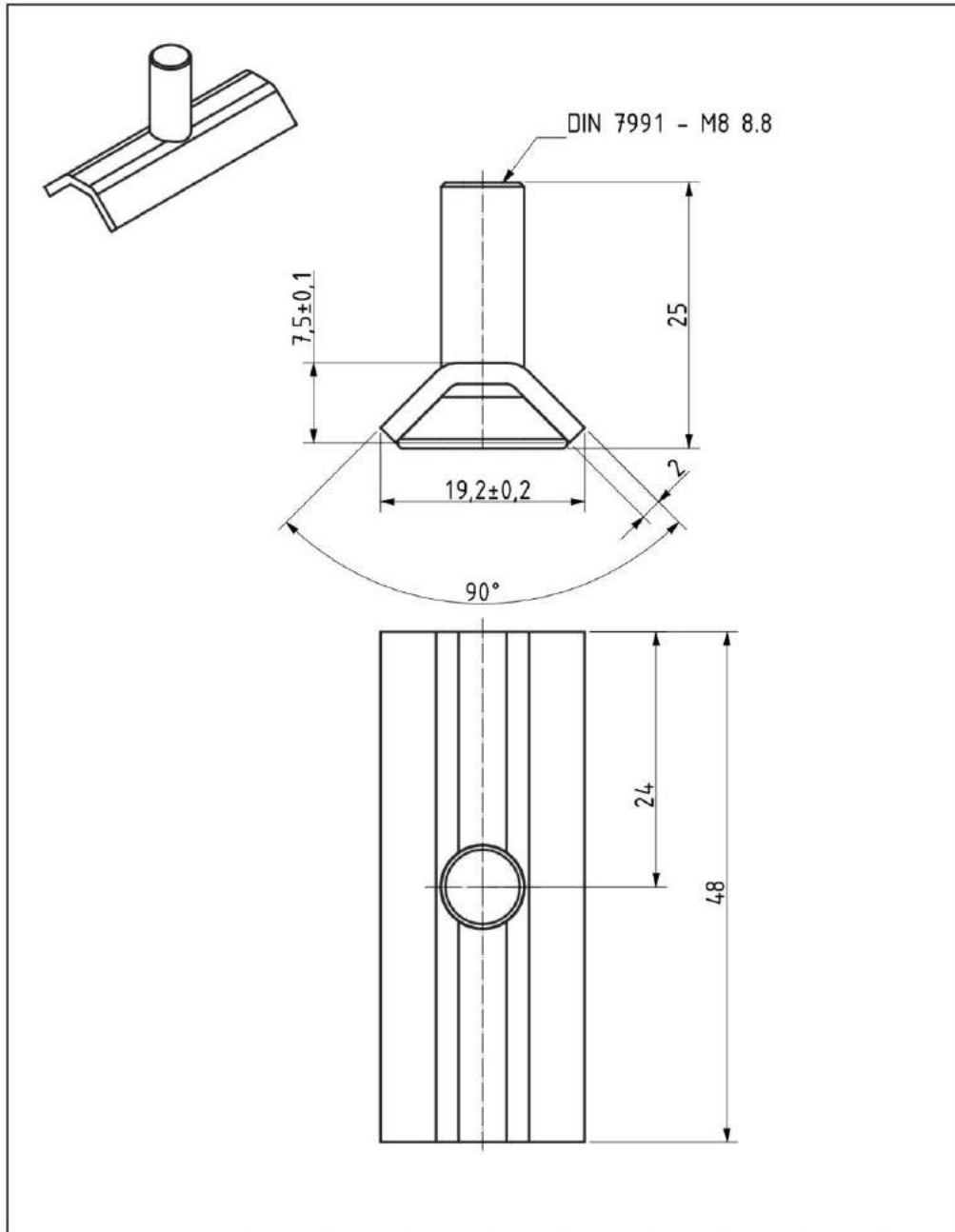
Enclosure 6: DRAWINGS OF FIXATION PARTS



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| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 96/107 |

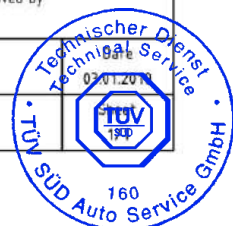


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| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 97/107 |

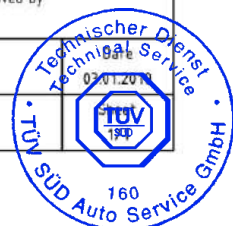
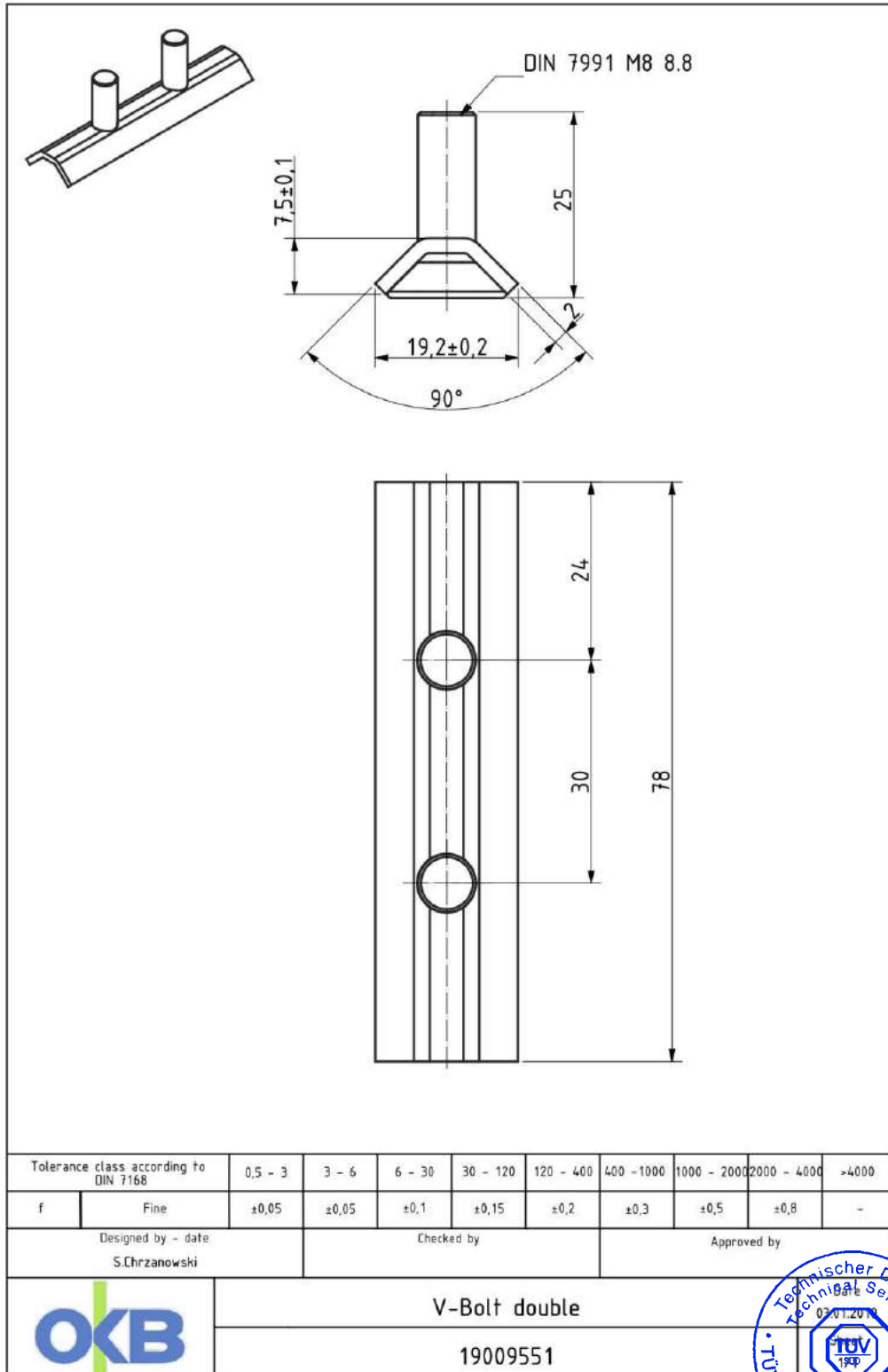


| | | | | | | | | | | |
|---------------------------------------|------|---------|------------|--------|----------|-----------|-------------|-------------|-------------|-------|
| Tolerance class according to DIN 7168 | | 0,5 - 3 | 3 - 6 | 6 - 30 | 30 - 120 | 120 - 400 | 400 - 1000 | 1000 - 2000 | 2000 - 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 | | | |

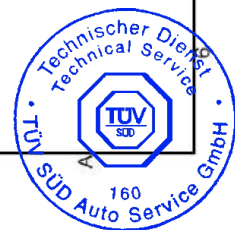
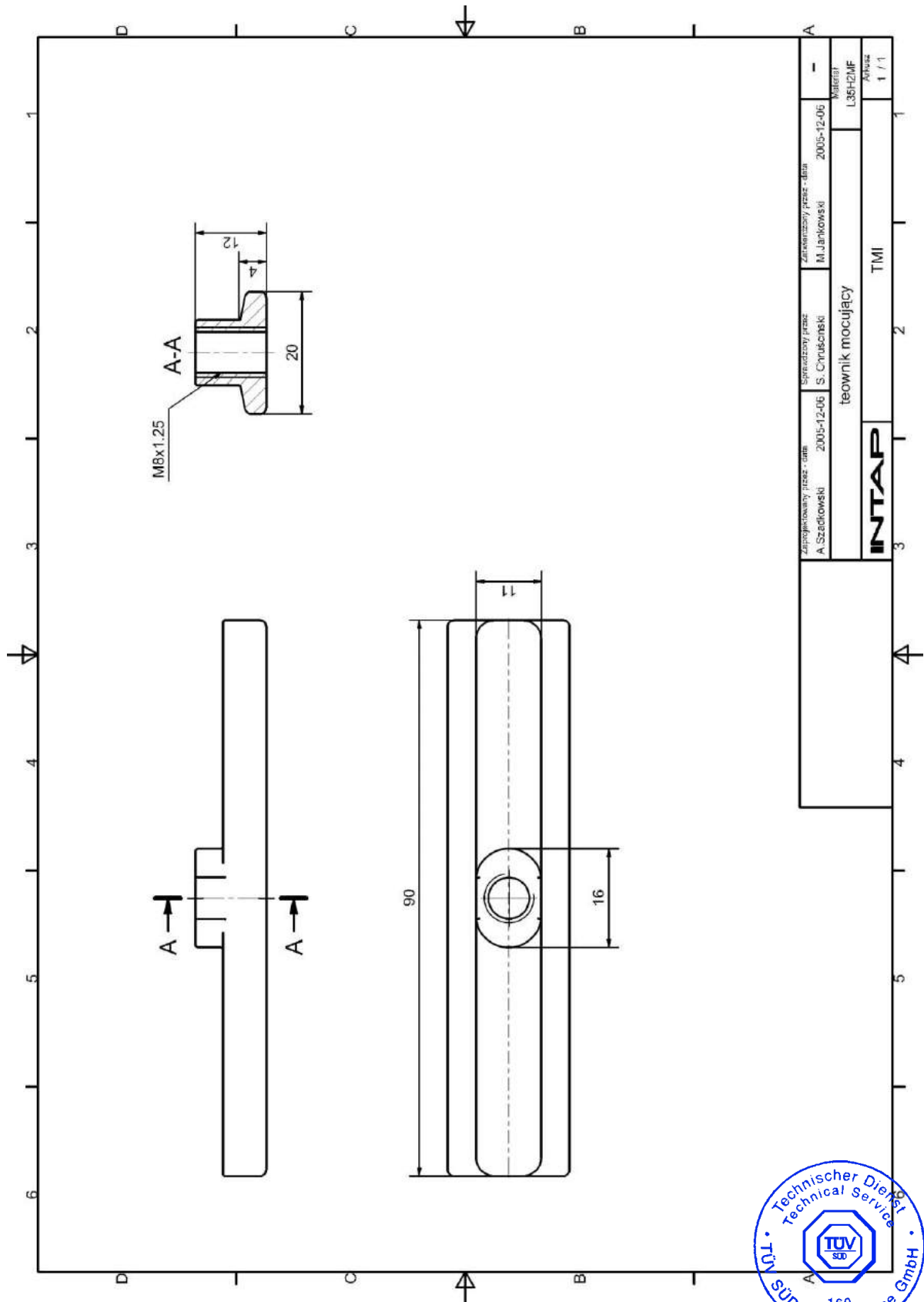
OKB V-bolt single
19009550



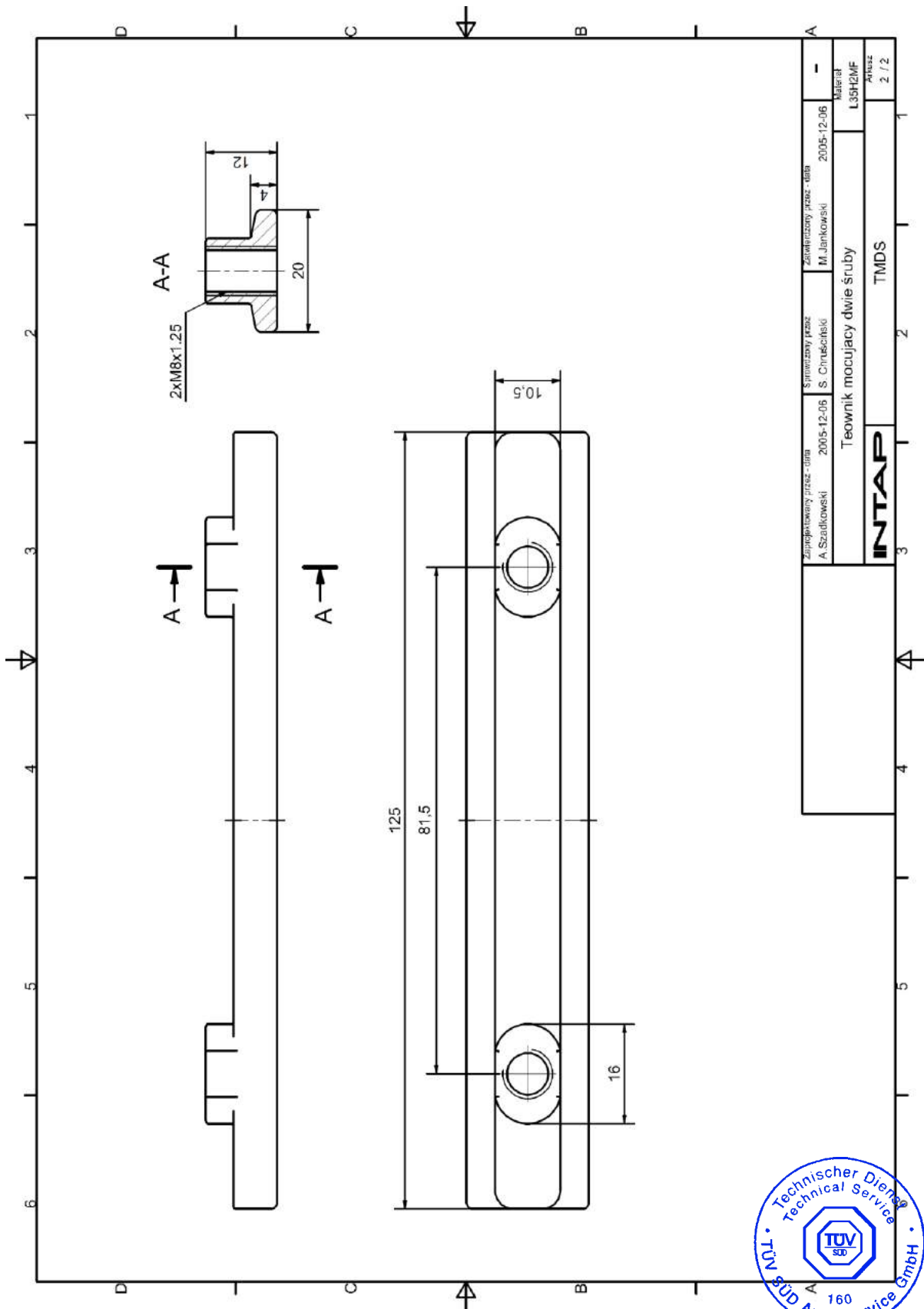
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| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 98/107 |



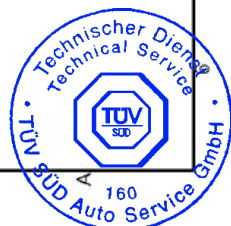
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| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 99/107 |



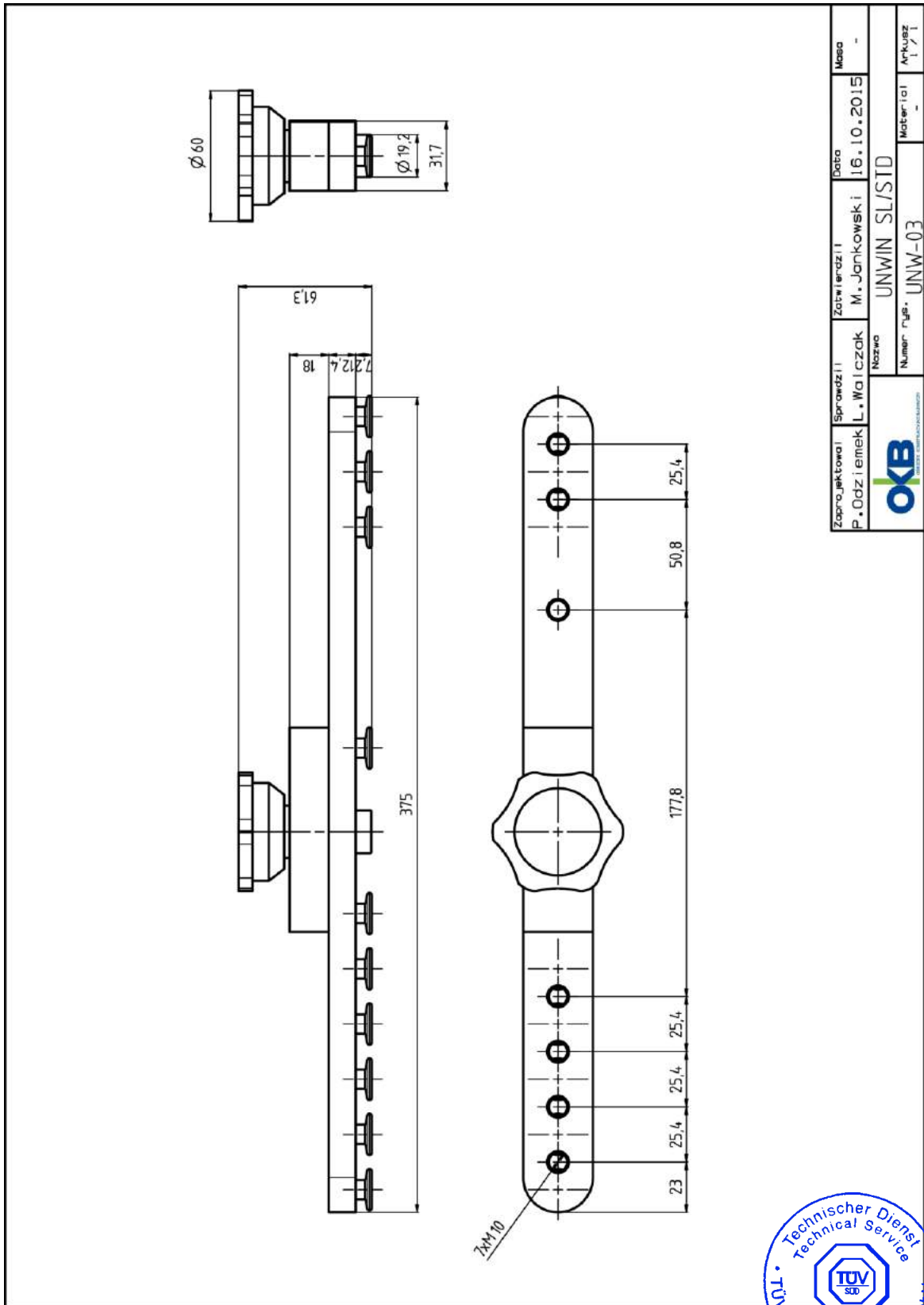
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| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 100/107 |



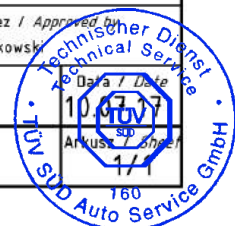
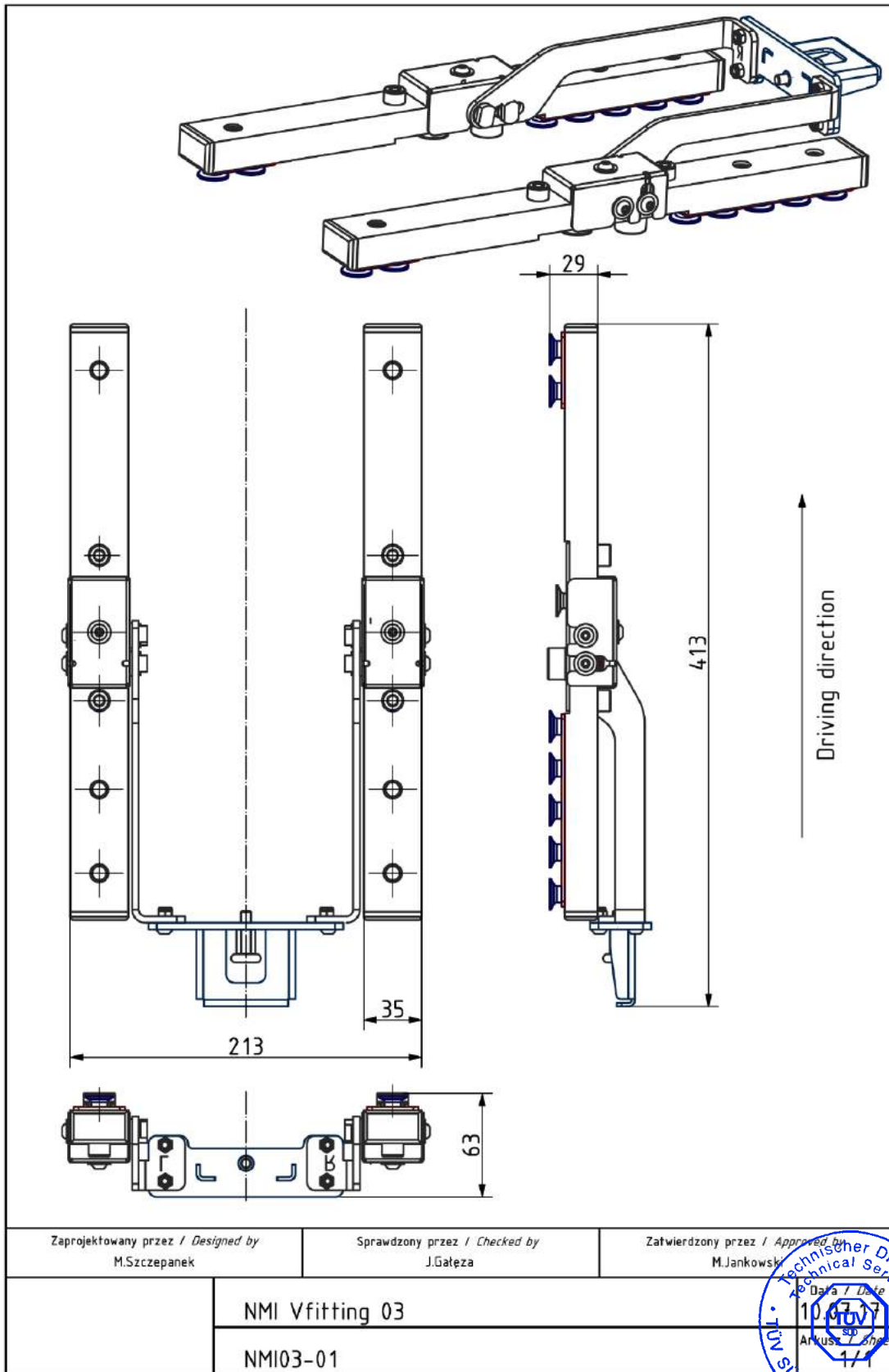
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|-----------------------------|--|-----------------------------|--|------------|--|
| Zaprojektowany przez - obra | | Zaprojektowany przez - obra | | - | |
| A. Szadkowski | | M. Jankowski | | 2005-12-06 | |
| 2005-12-06 | | S. Czumakowski | | Materiał | |
| Teownik mocujący dwie śruby | | L35H2MF | | Aktualiz | |
| INTAP | | TMDS | | 2 / 2 | |



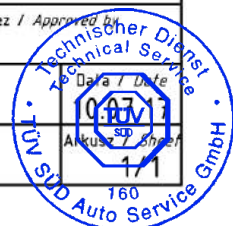
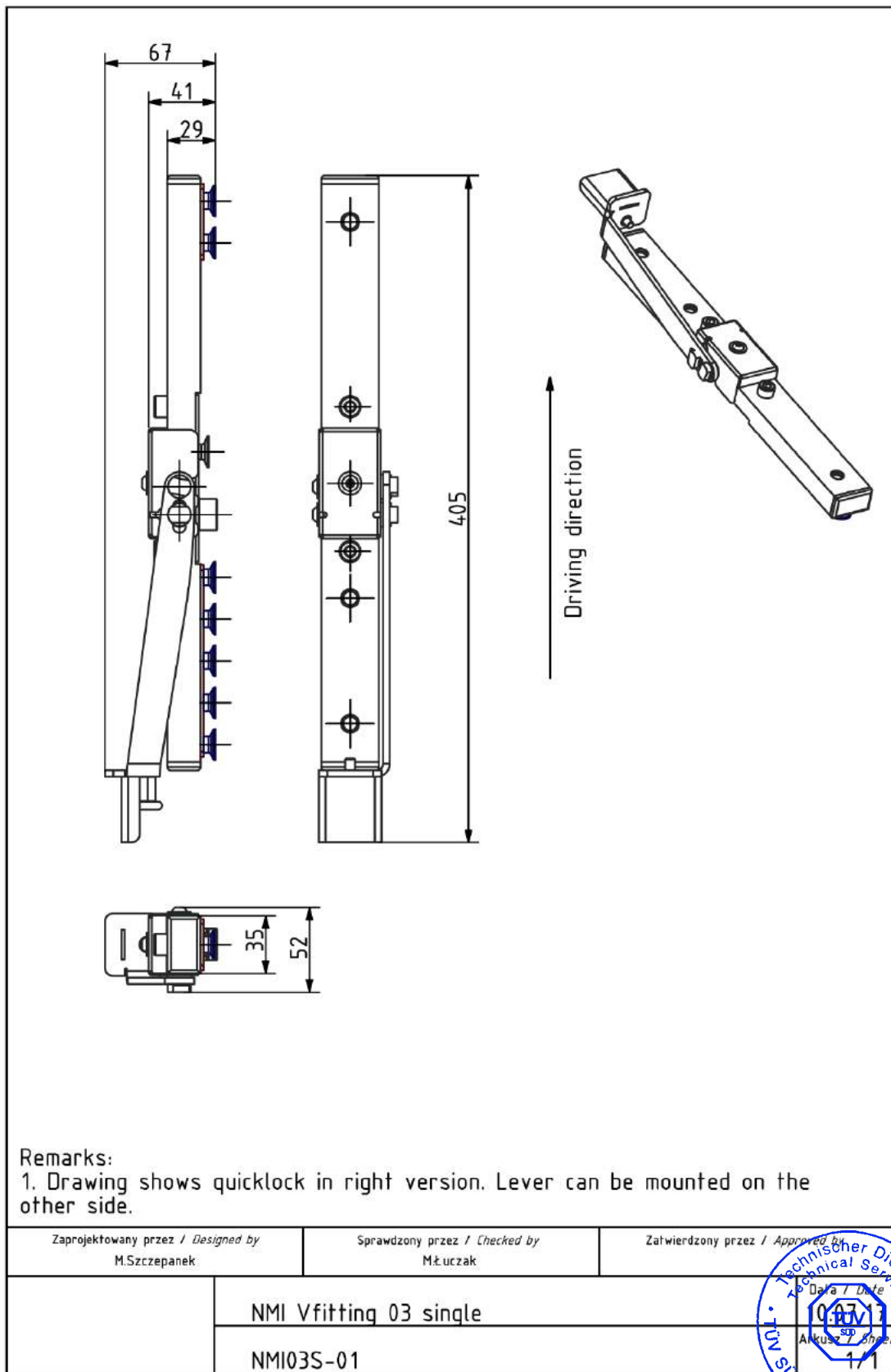
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| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 101/107 |



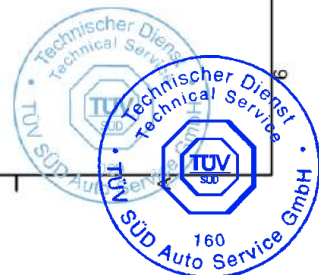
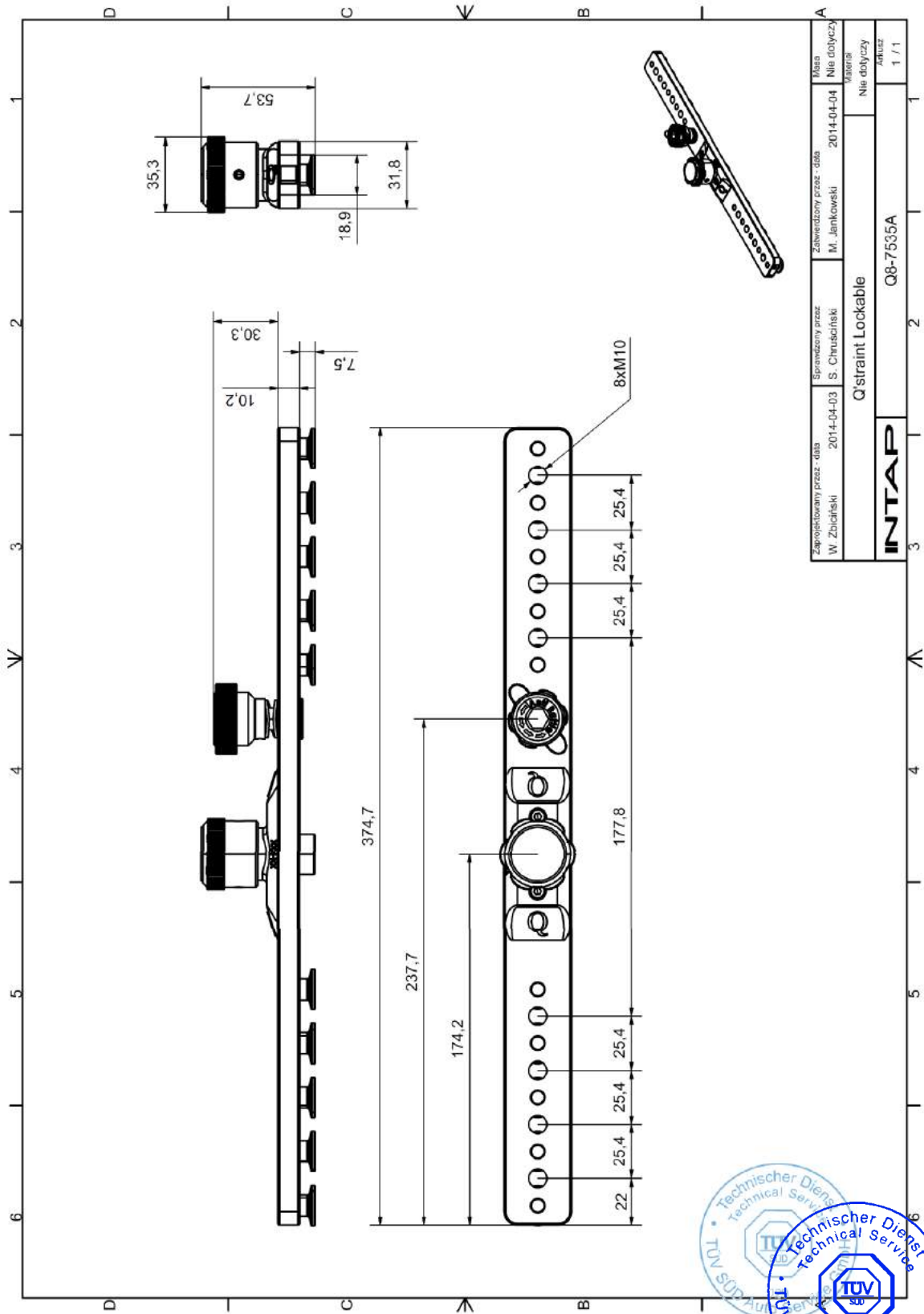
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| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 102/107 |



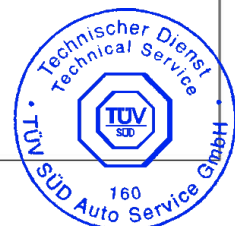
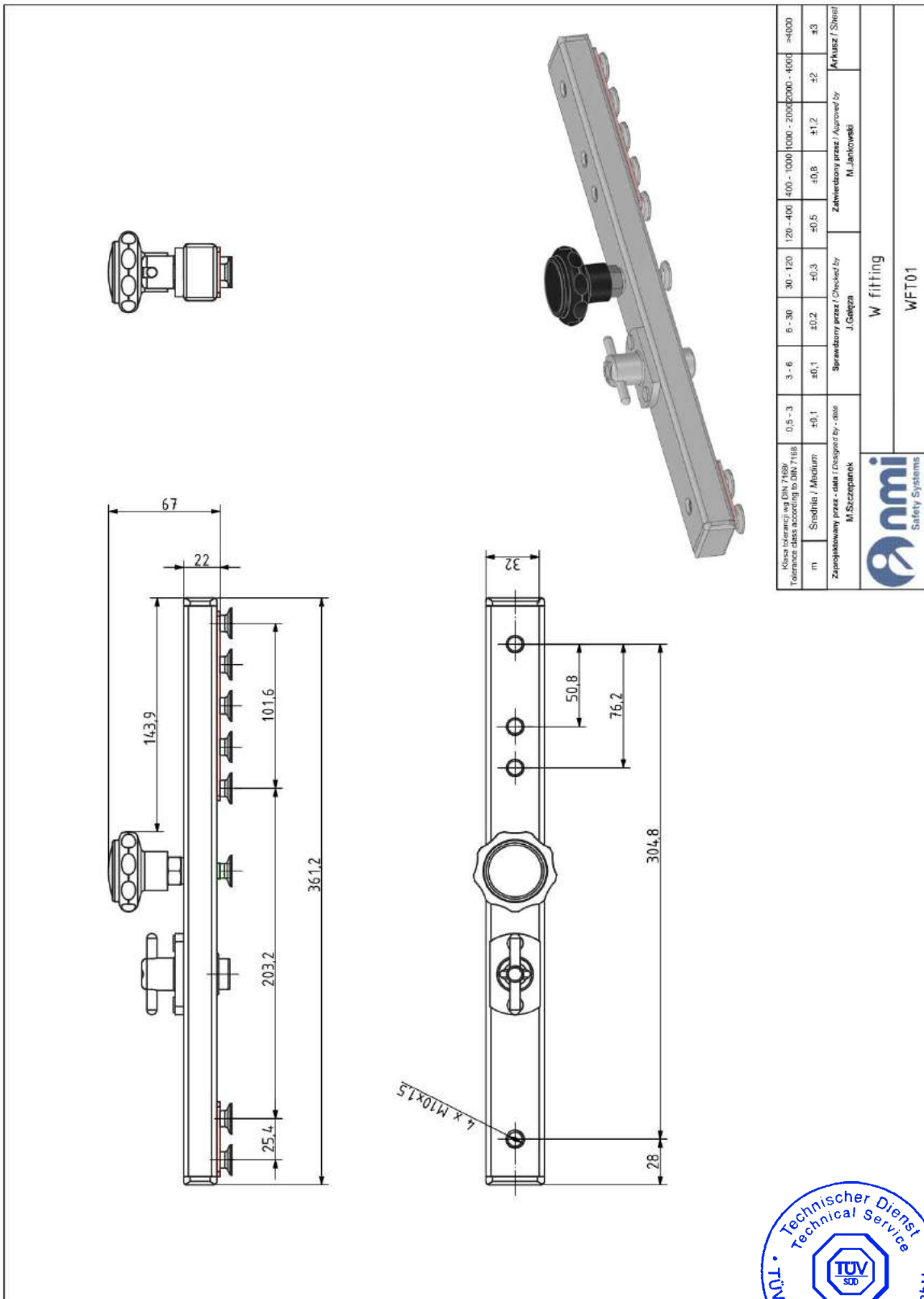
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| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 103/107 |



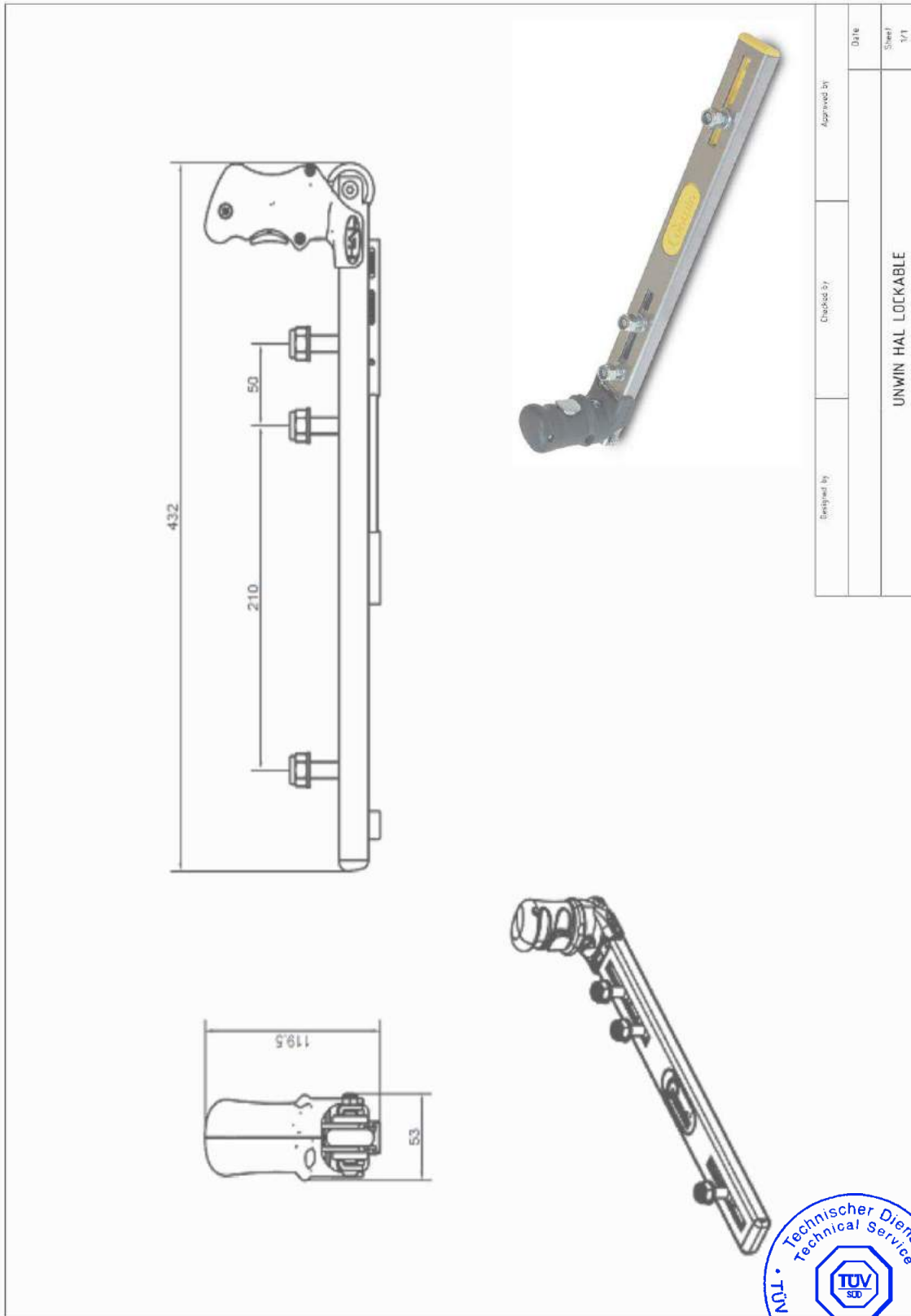
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| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 104/107 |



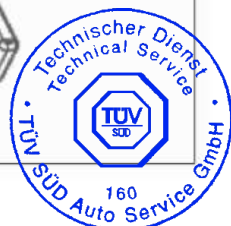
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| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 105/107 |



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| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 106/107 |



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| Designed by | Checked by | Approved by | Date |
| | | | |
| UNWIN HAL LOCKABLE | | | Sheet / 1/1 |



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| | Application for Approval | Date: 05.06.2019 |
| | FL-01-2019 | Page / pages: 107/107 |