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THE MALAYSIAN TYPE APPROVAL AUTHORITY



COMMUNICATION CONCERNING

- APPROVAL GRANTED
- ~~— APPROVAL EXTENDED~~
- ~~— APPROVAL REFUSED~~
- ~~— APPROVAL WITHDRAWN~~
- ~~— PRODUCTION DEFINITELY DISCONTINUED~~

OF A SEAT TYPE OR TYPES WITH REGARD TO ITS (THEIR)
STRENGTH PURSUANT TO REGULATION NUMBER 80

Approval number: E52*80R03/03*0017*00

1. Trade name or mark of the seat : DAMRONGSILP
2. Seat type : SMART400 2PT
3. Manufacturer's name and address : Damrongsilp Supplies Co., Ltd.
95 Moo.1 Malaiman Road, T.Thungcok,
A.Songpheenong Suphanburi 72110,
Thailand
4. If applicable, name and address of the manufacturer's representative : Not applicable
5. Additional information
- 5.1. Brief description of the seat type, its attachment fittings and its adjustment, displacement and locking systems including the minimum distance between fitting points : Drawing 1

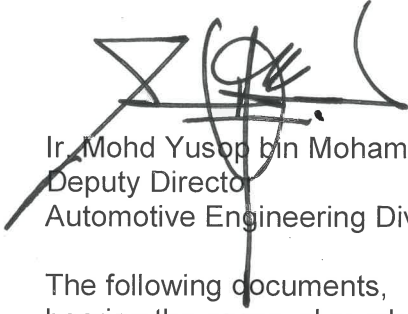


- 5.2. Position and arrangement of seats : Double Seat facing forward
- 5.3. Seats, if any, which incorporate a safety belt anchorage : Double Seat
- 5.4. Energy absorption test of the rear part of the seat-back : Yes / No
- 5.5. Drawings showing the area of the rear part of the seat-back verified for energy dissipation : Drawing 1d
- 5.6. Seat approved in accordance with paragraph 5.1. of this Regulation (dynamic test) : Yes / No
- 5.6.1. Test 1 according to Appendix 1 : Yes / No
- 5.6.2. Test 2 according to Appendix 1 : Yes / No
- 5.6.3. Description of the safety-belts and anchorages used for the purpose of Test 2 : Not applicable
- 5.6.4. Type of auxiliary seat used for test 2 (if different from the type of seat approved) : Not applicable
- 5.7. Seat approved in accordance with paragraph 5.1. of this Regulation (static test) : Yes / No
- 5.8. Test according to Appendix 5 : Yes / No
- 5.9. Test according to Appendix 6 : Yes / No
6. Seat submitted for approval on : 23rd November 2019
7. Type of device : Not applicable
8. Technical Service, responsible for the approval test : TUV Rheinland Malaysia Sdn. Bhd.
No. 27, Jalan Para U8/103,
Metropolitan Business Park,
Seksyen U8, Bukit Jelutong,
40150 Shah Alam, Selangor,
Malaysia.



Approval number: E52*80R03/03*0017*00

9. Date of report issued by that Service : 14th June 2020
10. Number of report issued by that Service : 93-R80-01915-SMART400-2PT/20
11. Approval : ~~granted/extended/refused/withdrawn~~
12. Position of approval mark on seat : On the seat fabric, beside the head rest area
13. Place : Putrajaya, Malaysia.
14. Date : 17th July 2020
15. Signature :


Ir. Mohd Yusop bin Mohamad
Deputy Director
Automotive Engineering Division

16. The following documents, bearing the approval number shown above, are available on request : Not applicable



Test Report No.: 93-R80-01915-SMART400-2PT/20



Type : SMART400 2PT
Manufacturer : Damrongsilp Supplies Co.,Ltd.

TEST REPORT

according to UNECE-Regulation

**Uniform provisions concerning the approval of seats
of large passenger vehicles and of these vehicles
with regard to the strength of the seats
and their anchorages**

UNECE R80

including all amendments until

series of amendments: 03
Supplement 03

Previously granted
UNECE - certificate : ---

Structure of report

0. General information
1. Tested vehicle(s) / object(s)
2. Test record
3. List of Appendices
4. Statement of conformity

The Test Report shall be reproduced and published in full by the client only. It shall however be reproduced partially with the written permission of the Technical Service only.



Test Report No.: 93-R80-01915-SMART400-2PT/20



Type : SMART400 2PT
Manufacturer : Damrongsilp Supplies Co.,Ltd.

0. General information

- 0.1. Make (trade name of the manufacturer) : DAMRONGSILP
- 0.2. Seat Type (Variant) : SMART400 2PT (RH, LH)
- 0.3. Seat for vehicle category : M3
- 0.4. Name and address of the manufacturer : Damrongsilp Supplies Co., Ltd.
95 Moo.1 Malaiman Road, T.Thungcok,
A.Songpheenong Suphanburi 72110, Thailand
- 0.5. No. of the information folder : UNECE R80-SMART400 2PT
date of issue : October 23, 2019
date of last amendment : --

1. Tested vehicle(s) / object(s)

- 1.1 Description
- Vehicle / object : Large Passenger Seat
- Commercial description : DAMRONGSILP
- Type(s) / variant(s) / version(s) : SMART400 2PT (RH)
- Identification number : PA10642
- Condition of vehicle(s) / Object(s) : new, ~~used~~, ~~pretested~~
- 1.2. Worst case : The determination of worst case scenario was done according to QMA 1.301.005, section 6.2.2.2.
- 1.3. Remarks : Variant RH is symmetrical with LH
Test for variant RH covers for LH



Type : SMART400 2PT
Manufacturer : Damrongsilp Supplies Co.,Ltd.

2. Test record

- 2.1. Equipment for measuring and testing : The test facilities / measurement equipment used were in compliance with the test requirements
- 2.1.1. Specifications for the test site : Damrongsilp Supplies Co. Ltd Laboratory
- 2.1.2. Subcontracting : Not applicable
- 2.2. Test results
- 2.2.1. Test results referring to measurements : See Appendix 1
- 2.2.2. Attributive tests : Test was done according to UN ECE Regulation No. 80.03, Clause 5.1 Appendix 5 and 6 (static test).
- The strength tests were only performed for vehicle category M3.
- 2.2.3. Alternative test provisions : Not applicable
- Remarks concerning extension : Not applicable
- 2.2.4. General requirements for all seats : The seat type is in compliance with the requirements of the regulation.
- 2.2.5. Adjustment and displacement devices : The seat type is in compliance with the requirements of the regulation.
- 2.2.6. Retention of the user by the seat in front : Not applicable
- 2.2.7. Risk of injury : The seat type is in compliance with the requirements of the regulation.
See Appendix 1.
- 2.2.8. Resistance of the seat and the seat fixations : The seat type is in compliance with the requirements of the regulation.
- No parts of seat, seat fixation or, accessories
a) dissolved completely
b) formed sharp edges or fractures, which can cause personal injury
c) abandon their locked position.
- 2.2.9. Constitution of the backrest and the accessories : The seat type meets the requirements regarding the prevention of injury.
- No sharp edges occurred during or after the testing.



Test Report No.: 93-R80-01915-SMART400-2PT/20



Type : SMART400 2PT
Manufacturer : Damrongsilp Supplies Co.,Ltd.

- 2.3. Additional information : The results of the test refer exclusively to the object(s) mentioned under point 1. of this report.
- Test site : Damrongsilp Supplies Co. Ltd Laboratory
- Test date : November 23, 2019
- 2.4. Remarks : Not applicable

3. List of Appendices

- Appendix 0 : List of modifications
- Appendix 1 : Test record static testing

4. Statement of conformity

The information folder mentioned under point 0.5 and the type described therein complies with the requirements in the above-mentioned on page 1.

With regard to the required level of performance to be achieved, the tested samples were representative for the type to be approved.

The tests were carried out in accordance with the relevant requirements of EN ISO/IEC 17025:2005 or EN ISO/IEC 17020:2012.

Shah Alam, June 14, 2020
ML

A handwritten signature in blue ink, appearing to read "M. Lottig".

Manfred Lottig



Test Report No.: 93-R80-01915-SMART400-2PT/20



Type : SMART400 2PT
Manufacturer : Damrongsilp Supplies Co.,Ltd.

List of modifications

Appendix 0

Correction of : - ---

Modification of : - ---

Addition of : - ---

Deletion of : - ---



Type : SMART400 2PT
Manufacturer : Damrongsilp Supplies Co.,Ltd.

Test record static seat tests

Appendix 1

Seat type series

Test no.	Test object / Seat type	Height of test rig [mm]		Forward movement [mm]				Remarks
		H1	H2	CR		CL		
				s1	s2	s1	s2	
1	SMART400 2PT	750	500	215	114	-	-	OK
		750	500	-	-	210	112	OK

Remark: CR = corridorside right
CL = corridorside left

Displacement requirements:

Location	Min (mm)	Max (mm)
s1	100	400
s2	50	-



APPLICATION FOR APPROVAL

TYPE: SMART400 2PT

SEATS (LARGE PASSENGER VEHICLE)

APPLICABLE REGULATION: UNECE R80.03

APPLICATION HISTORY

Document Ref. No	Issue Date	Explanation of update	Approval No.	Approval Date
UNECE R80-SMART400 2PT	23/10/2019	Original		



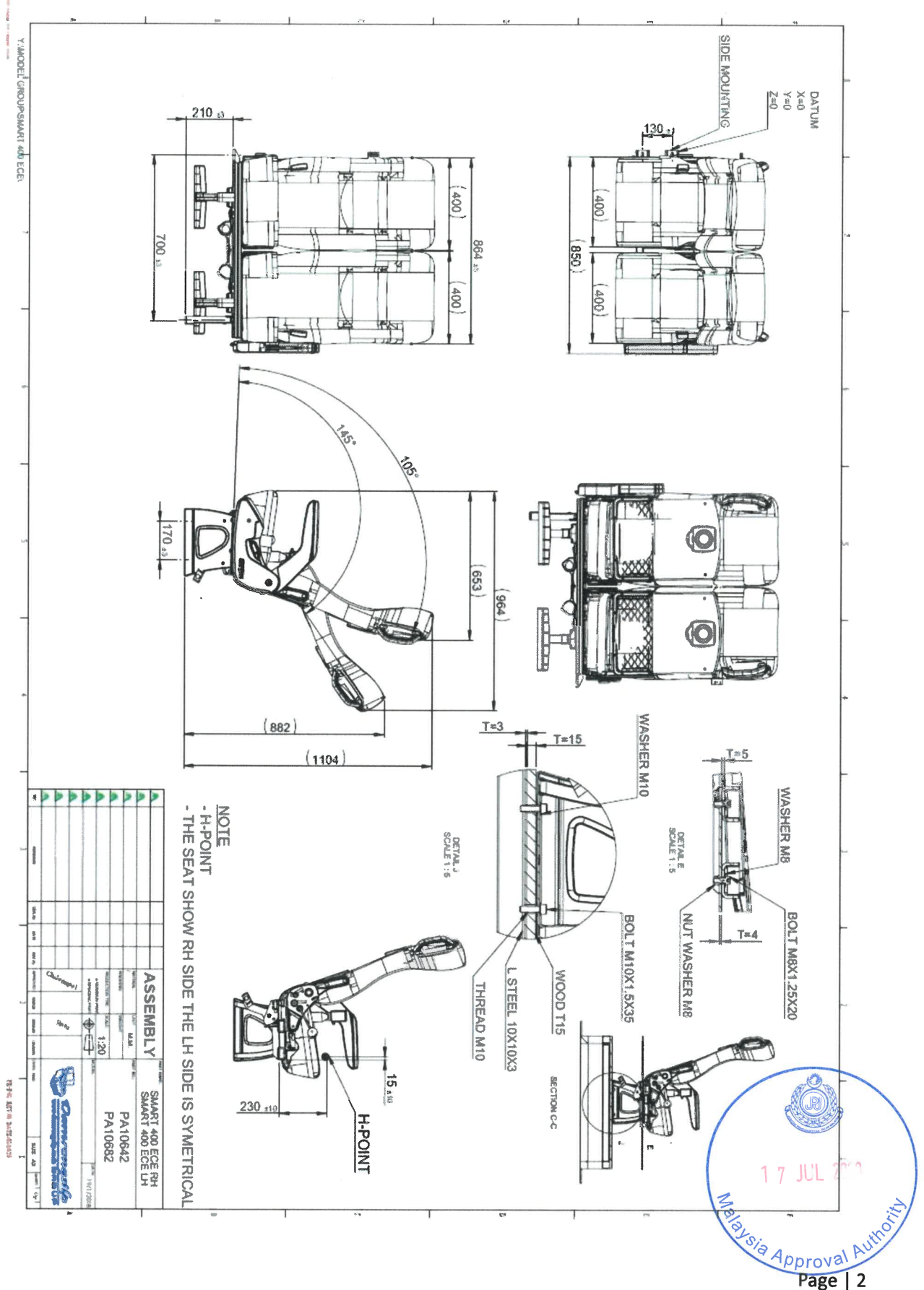
GENERAL

1.0	Trade name or mark of the seat	:	DAMRONGSILP						
2.0	Seat Type	:	SMART400 2PT						
2.1	Seat Variant	:	<table><tr><th>Variant</th><th>Model code</th></tr><tr><td>SMART400 2PT LH</td><td>PA10682</td></tr><tr><td>SMART400 2PT RH</td><td>PA10642</td></tr></table>	Variant	Model code	SMART400 2PT LH	PA10682	SMART400 2PT RH	PA10642
Variant	Model code								
SMART400 2PT LH	PA10682								
SMART400 2PT RH	PA10642								
2.2	Loaction of Seat marking	:	Drawing 2						
4.0	Manufacturer’s name and address	:	Damrongsilp Supplies Co., Ltd. 95 Moo.1 Malaiman Road, T.Thungcok, A.Songpheenong Suphanburi 72110, Thailand						
5.0	If applicable, name and address of the manufacturer’s representative	:	Not applicable						
6.0	Additional Information								
6.1	Brief description of the seat type, its attachment fittings and its adjustment, displacement and locking systems including the minimum distance between fitting points	:	Drawing 1						
6.2	Position and arrangement of seats	:	Double Seat facing forward						
6.3	Seats, if any, which incorporate a safety belt anchorage	:	Double Seat						
6.4	Energy absorption test of the rear part of the seat-back	:	Yes						
6.5	Drawing showing the area of the rear part of the seat-back verified for energy dissipation	:	Drawing 1d						
6.6	Seat approved in accordance with paragraph 5.1. of this Regulation (dynamic test)	:	No						
6.6.1	Test 1 according to Appendix 1	:	No						
6.6.2	Test 2 according to Appendix 1	:	No						
6.6.3	Description of the safety-belts and achorages used for the purpose of test 2	:	Not applicable						
6.6.4	Type of auxiliary seat used for test 2 (if different from the type of seat approved)	:	Not applicable						
6.7	Seat approved in accordance with paragraph 5.1. of this Regulation (static test)	:	Yes						
6.8	Test according to Appendix 5	:	Yes						
6.9	Test according to Appendix 6	:	No						
7.0	Seat submitted for approval on	:	???						
8.0	Type of device	:	Static pulling device						

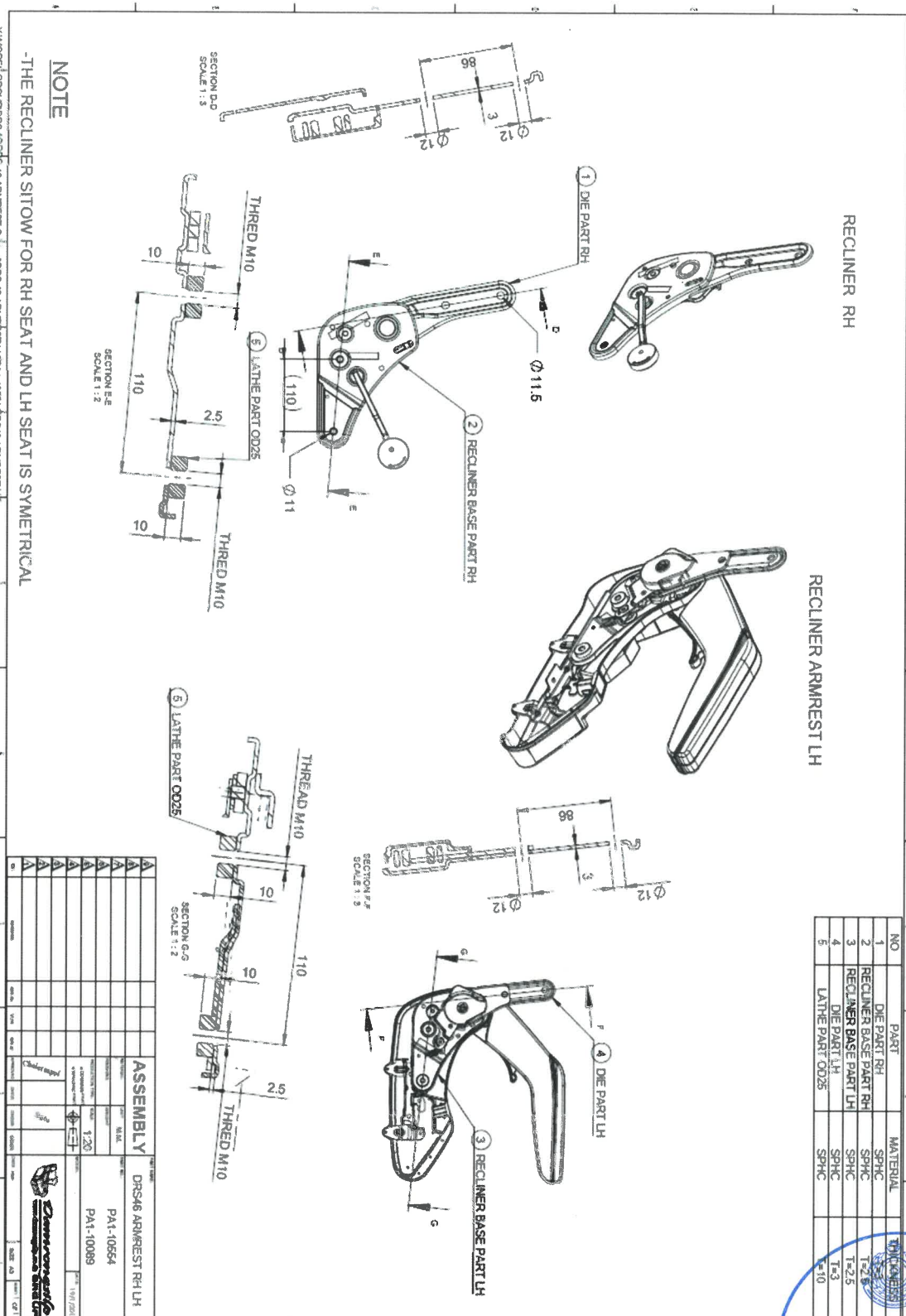




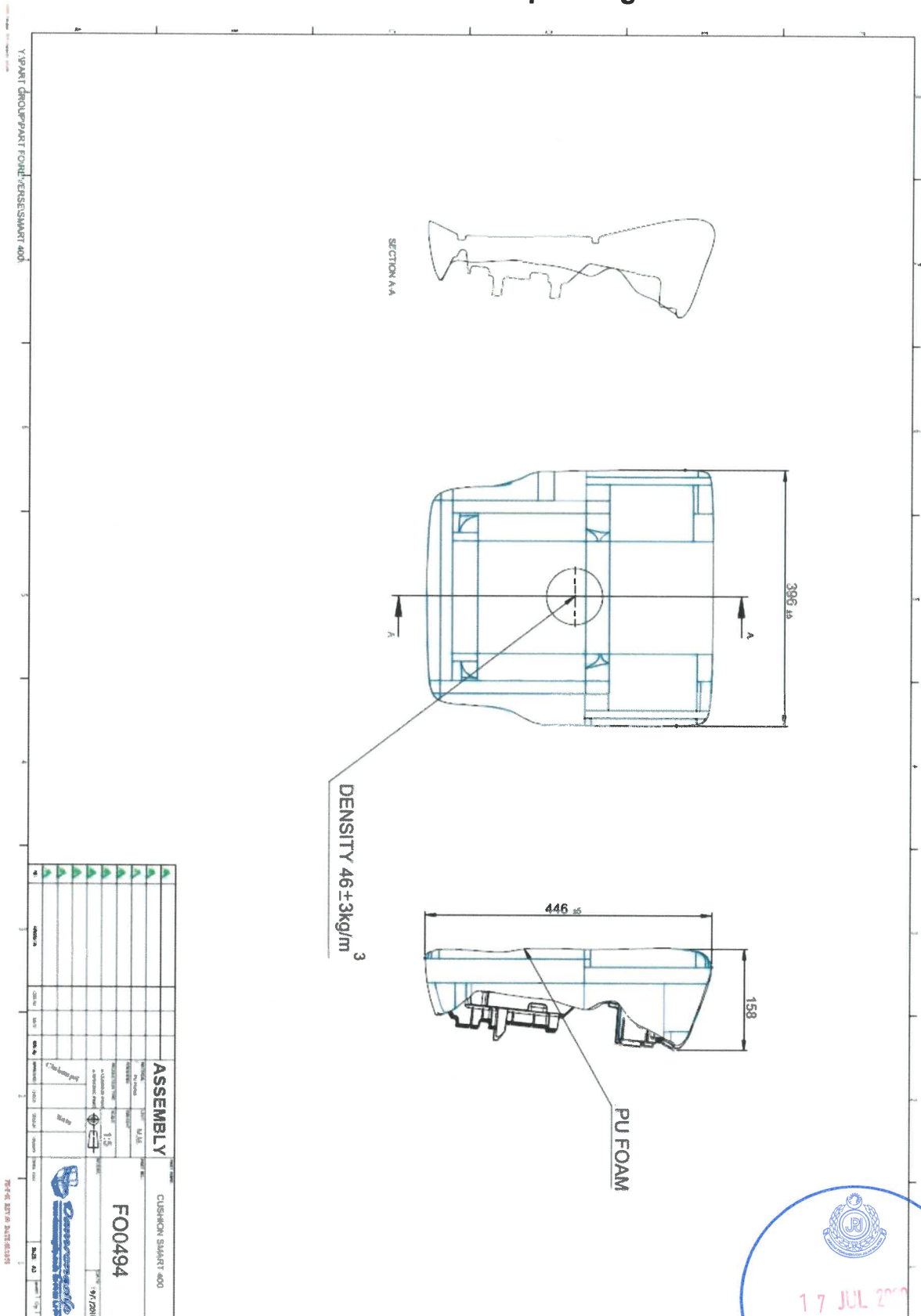
Drawing 1 – Seat Drawing(s)



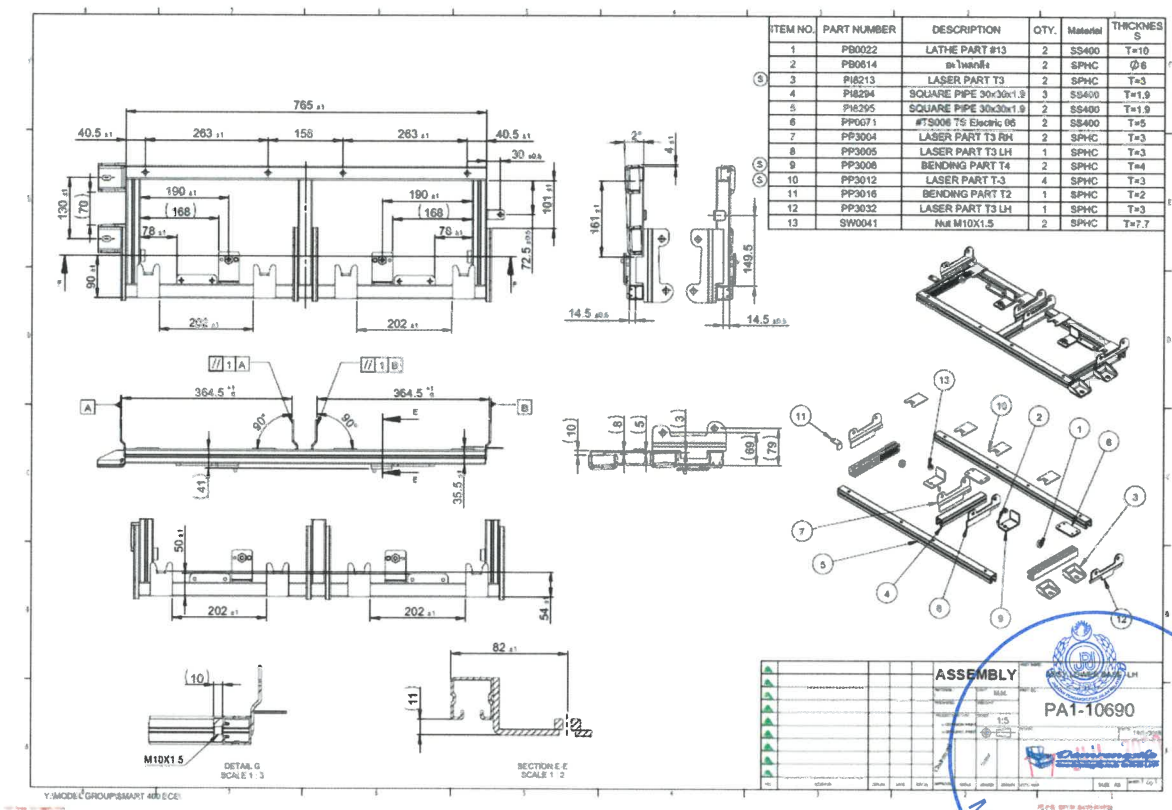
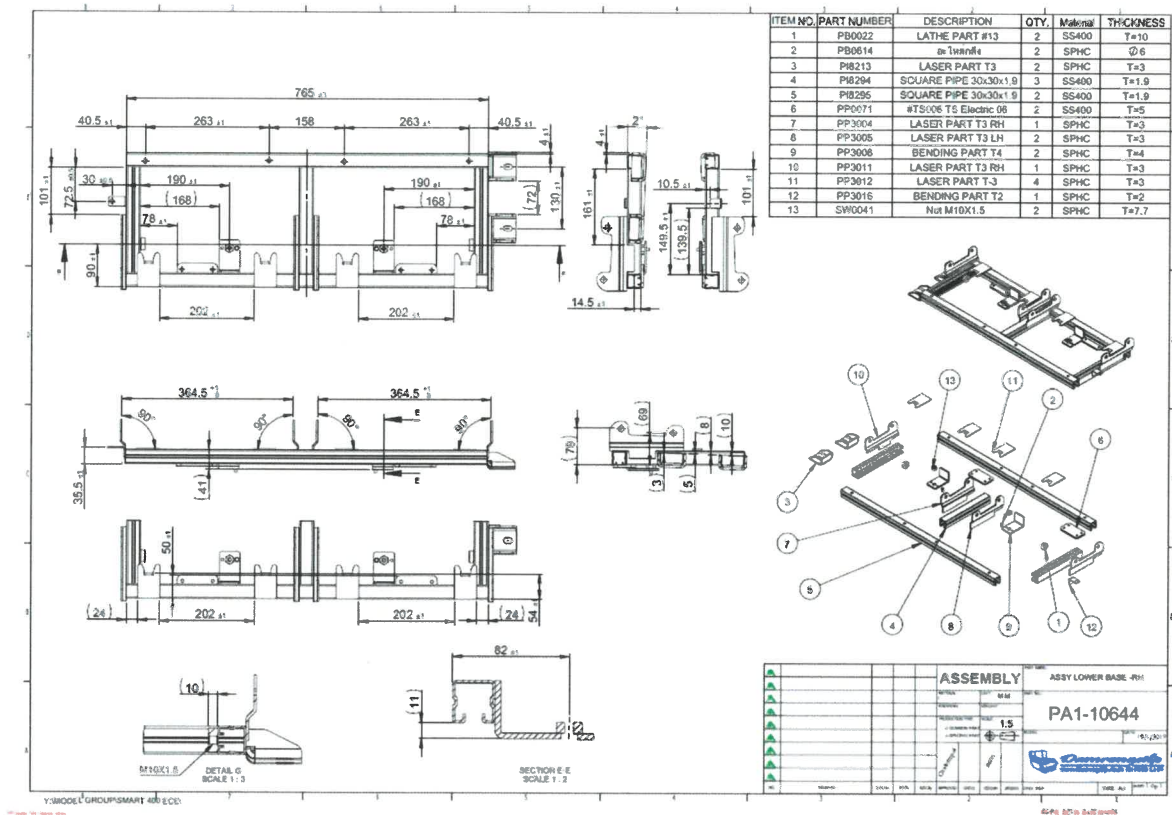
F. WOODS GROUP LTD'S 46 ADRIEST ORIGINALS 46 ADRIEST LHPA1-10294 DRS46 ADRIEST LH

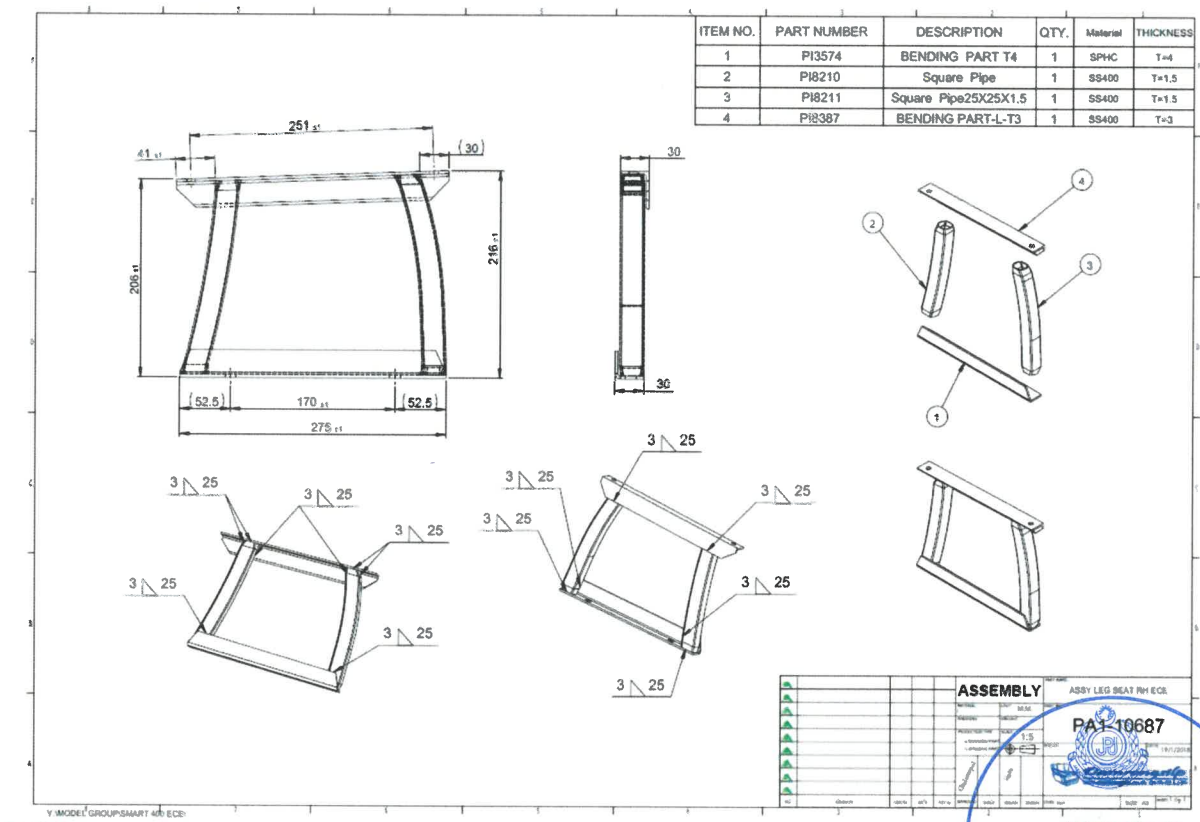
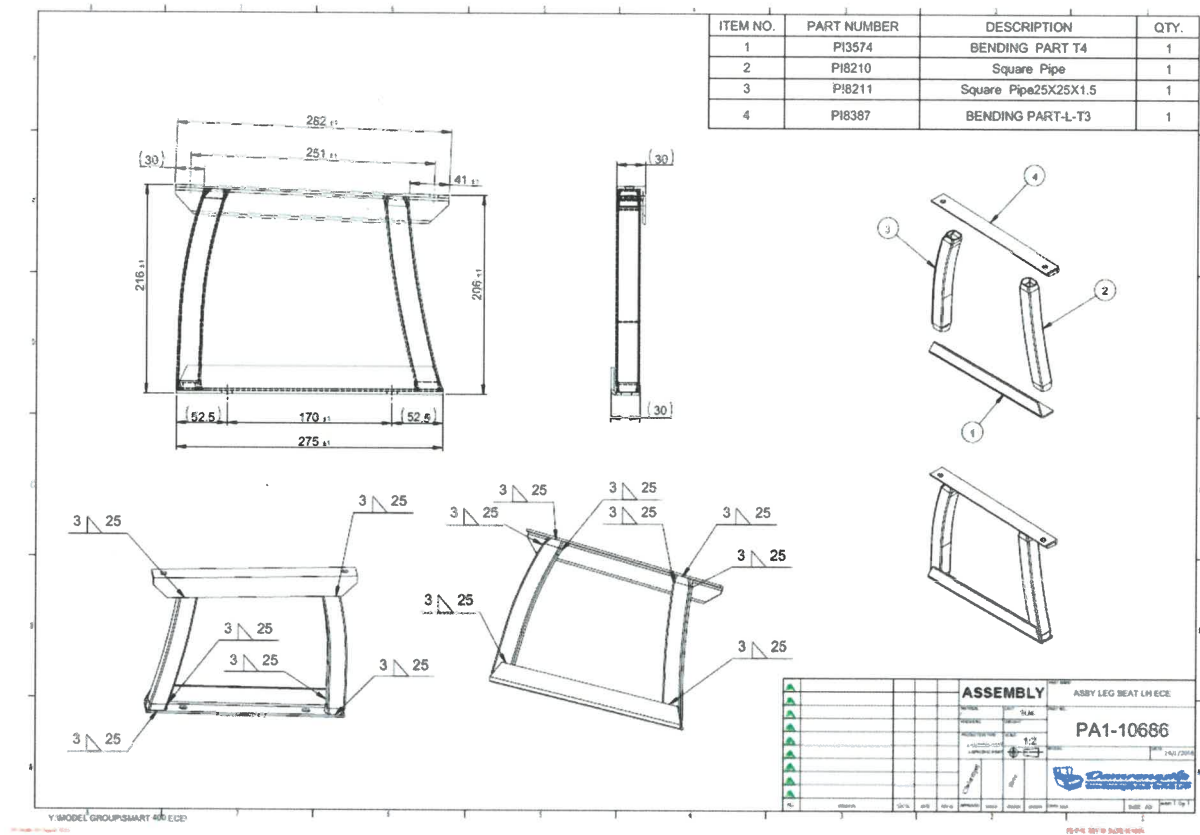


DWG. 1b – Seat padding

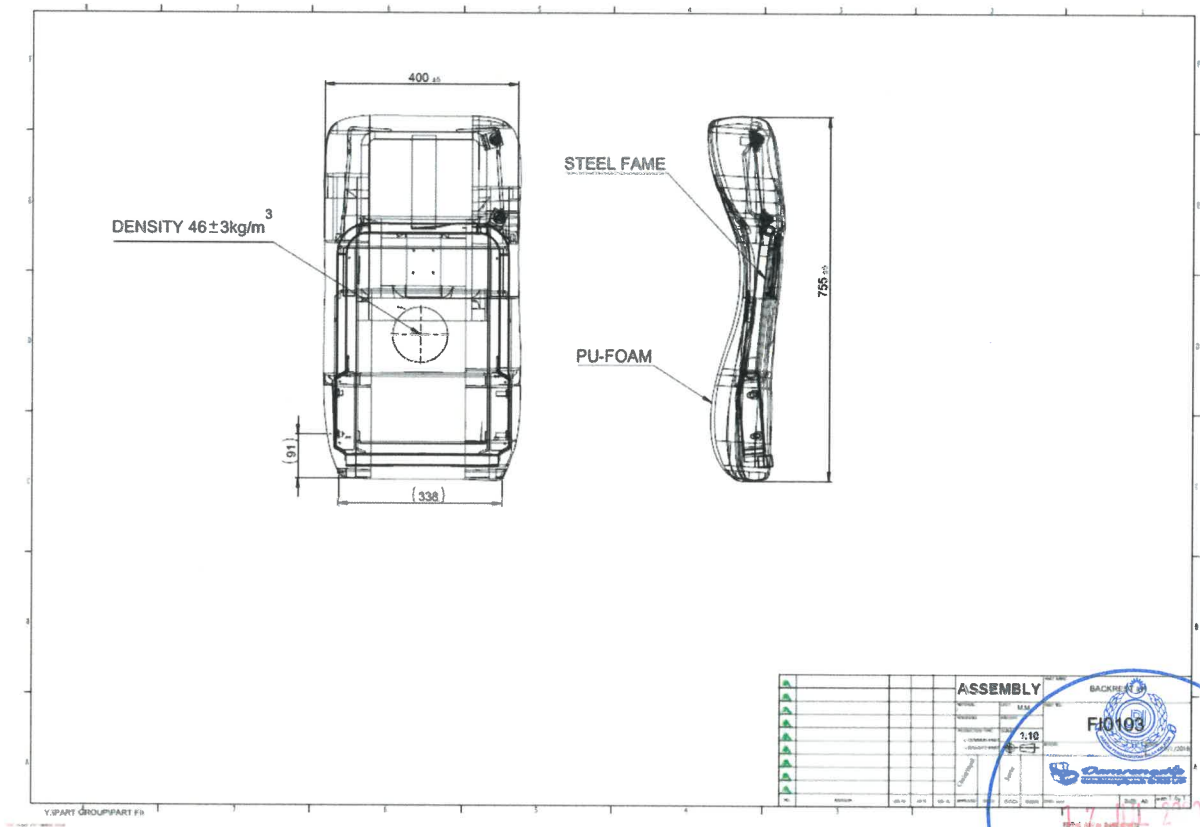
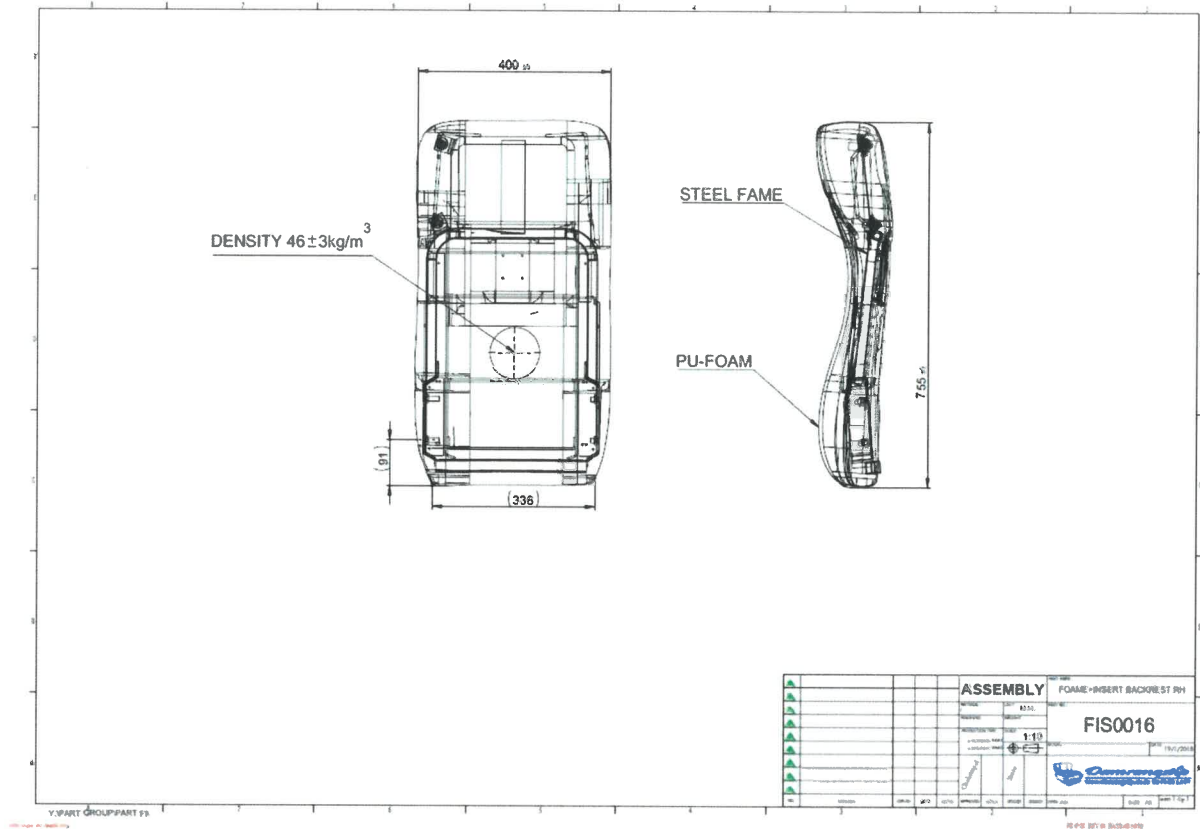


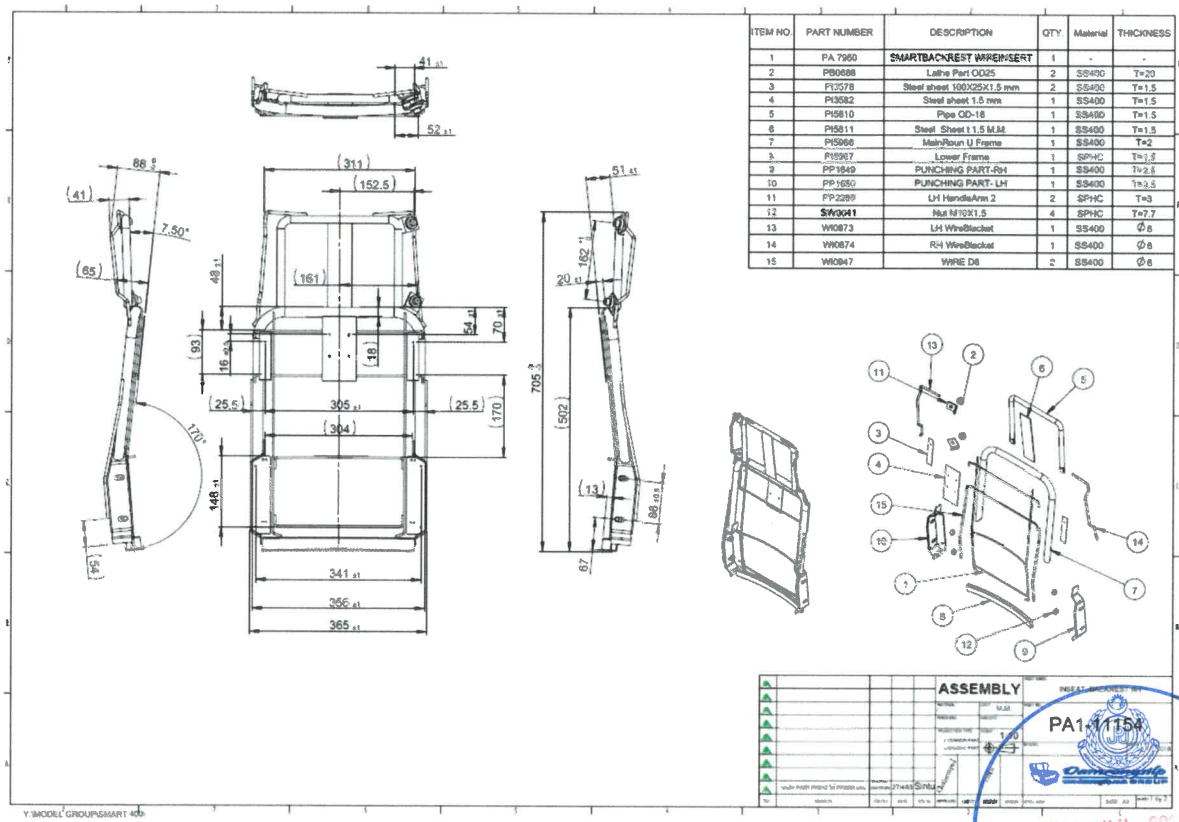
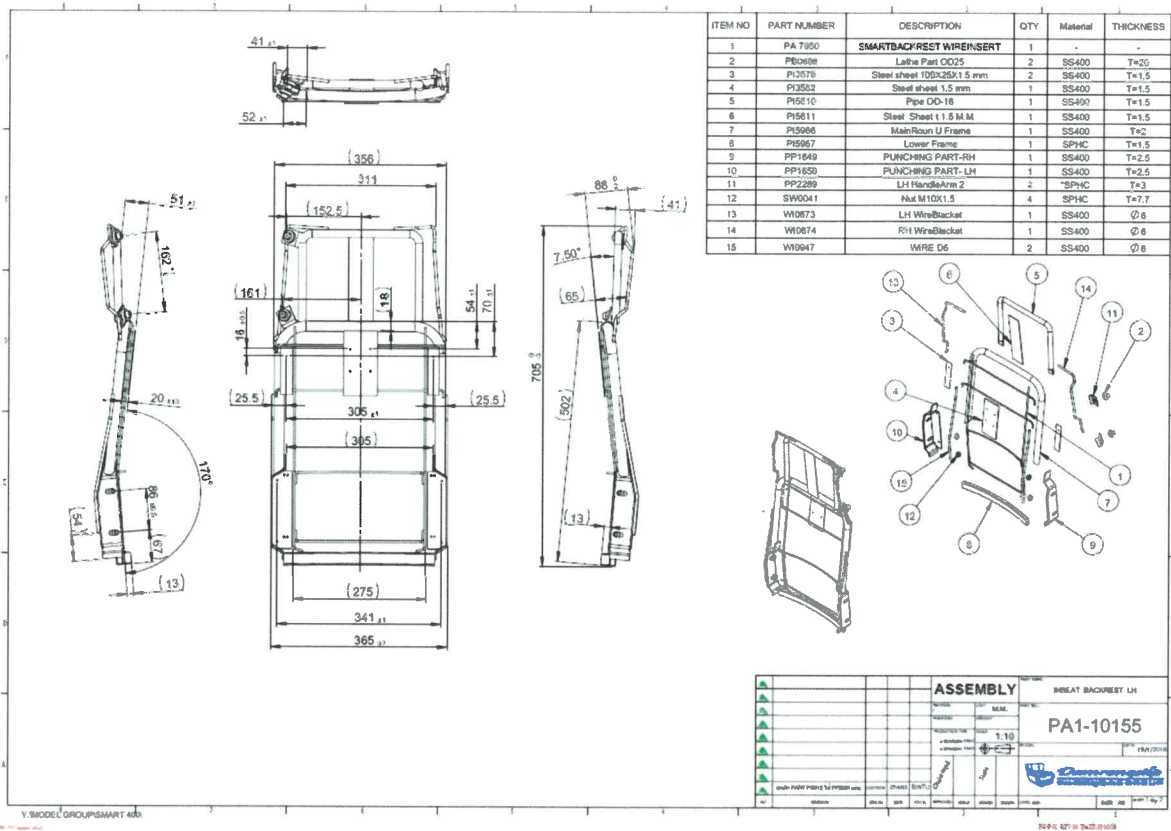
DWG. 1c – Seat frame



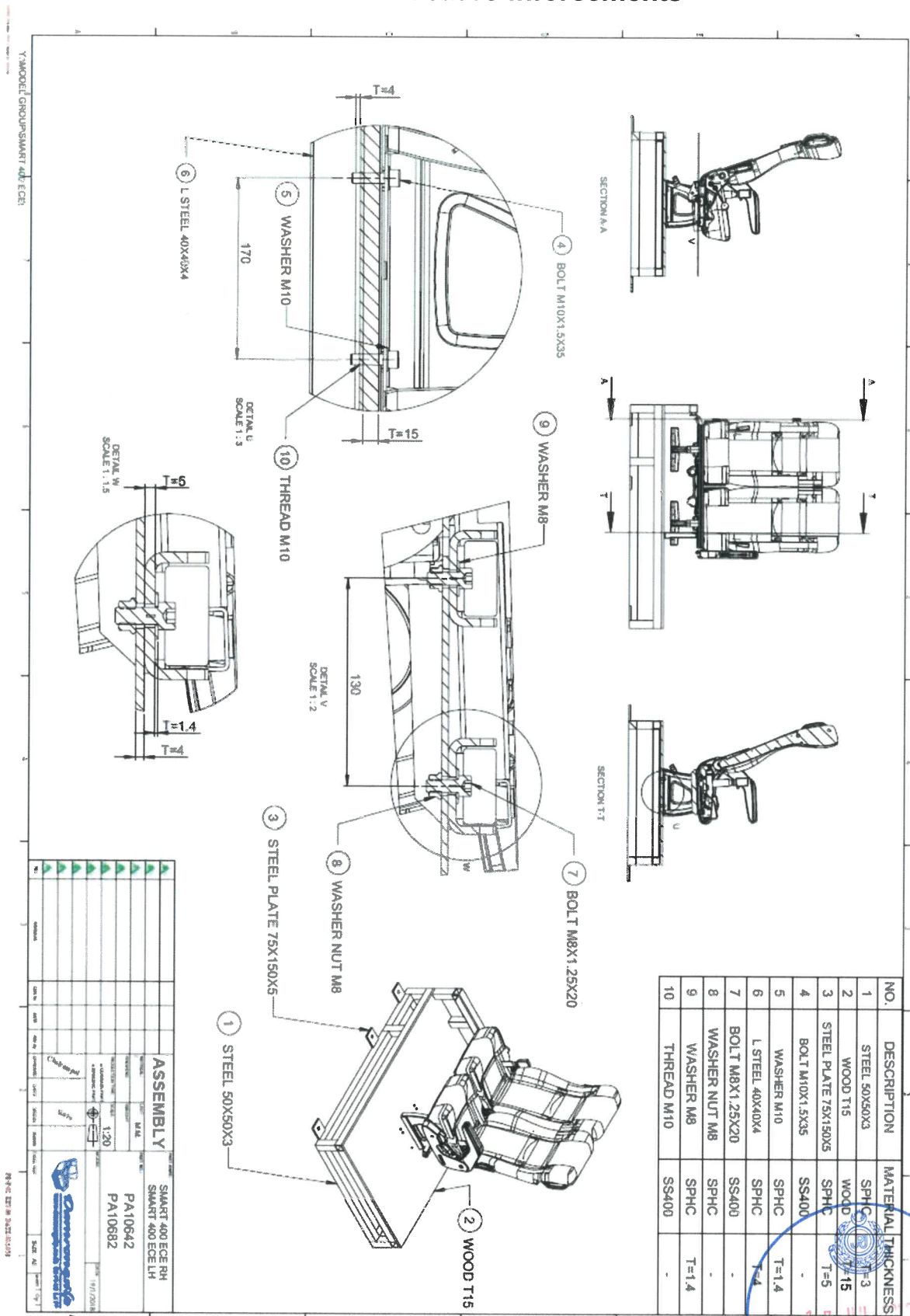


DWG. 1d – Seat back

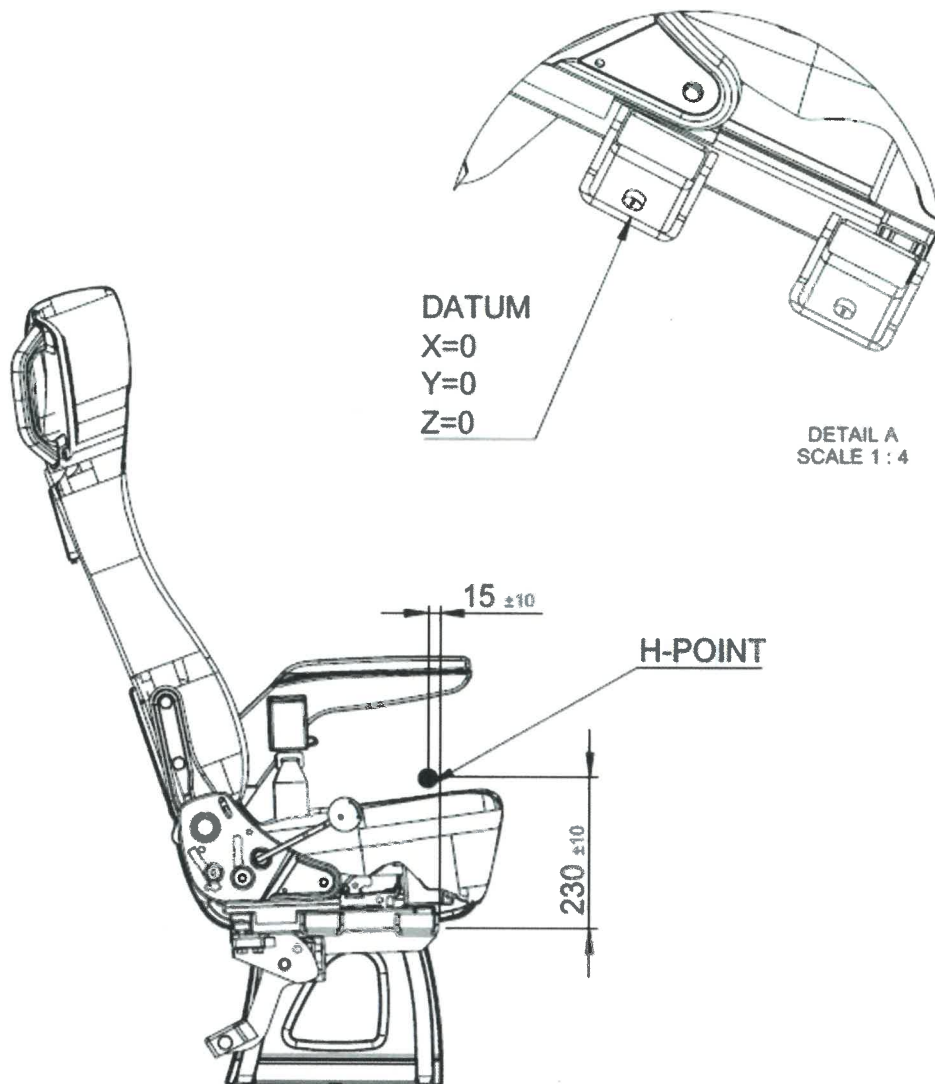




DWG. 1e – Seat re-inforcements



DWG. 1g – H-Point



DWG. 2 – Seat marking and E-mark Sticker location

