




Declared material list																		
<div>RWTH</div> Physics AC-I			TRD							Doc. No: AMS-TRD-RWTH-001								
			Straw Modules							Issue/Rev.: 1 draft								
1	2	3	4	5	6	7	8			9			10					11
Item No	Drawing No	Group No	Commercial identification	*Chemical nature *type of product	*Procurement Information *Manufacturer / Supplier *Specification Issue/Rev	Use/ location	Environment. code			Size code			C o r r	S C C	F a m	O F G	O T G	Remarks/ Approval
							WT (kg)	THK (cm)	ESA* cm ²									
01	ams02-1755c	15	Kapton film	Polyimide type 100 VN	Dupont, (25 ± 2.5) μm thickness	Straw wall	L	V	3 4	13.4	7.2 · 10 ^{−3}	153228.04						
02	ams1883c ams1948b ams1973b	15	Uni. Direct. Fibre UMS 2526 385 GPa	Tenax	Secar	Longitudinal/ Transversal, Stiffener	L	V	3 4	} 20.9	} 0.03	} 248.7/ 25312.0						
03		10	Laminating Resin 470-36	Dorakane	Dow Chemical	Longitudinal/ Transversal Stiffener	L	V	3 4									
04	ams1972c	2	Cu-seal	AlNi coated		Transversal stringer, bulkhead position	L	V	3 4									
05		10	Stycast 1266	Epoxy	Stycast	Fixation straw/ stiffener	L	V	3 4									
06	ams1938f ams1939f	17	Polycarbonate	Polycarbonate		Endpieces, Gas- Manifolds, Housing of Item06-14	L	V	3 4	10.5 (incl. Item06 - Item15)		19877						
07	ams1842d	17	Polyimide Cu/Au coated		Dupont	Ground connector	L	V	3 4									
08	ams1844d	17	PEEK 30 GF	Polyetherehter- keton	Ensinger	Centricator	L	V	3 4									
09	ams1843b	17	Polyimide 50 μm		Dupont	Seal Stopper	L	V	3 4									
10	ams02-1712c ams02-1713c ams02-1714b ams02-1756b ams1845f	2	CuTe (1.5% Te)			Crimp Connector	L	V	3 4									

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<div>RWTH Physics AC-I</div>			TRD Fibre Radiator					Doc. No: AMS-TRD-RWTH-001 Issue/Rev.: 1 draft											Page: 3 27th Nov. 2004	
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Item No	Drawing No	Group No	Commercial identification	*Chemical nature *type of product	*Procurement Information *Manufacturer / Supplier *Specification Issue/Rev	Use/ location	Environment. code			Size code			C o r r	S C C	F l C a m	O F F G	O U T G	Remarks/ Approval		
										R	A	T							WT (kg)	THK (cm)
01		14	LRP 375 BK	Polypropylene 85% Polyethylene 15%	Freudenberg Vliesstoffe KG	Fleece Fibre Radiator	L	V	3 4	60.04	40.0	2001125.0		P	P			non woven, CH ₂ Cl ₂ cleaning soxhlett extraktion/ ASTM E 1559		

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			Octagon Support Structure						Issue/Rev.: 1 draft									
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			Date: 27th Nov. 2004															
1	2	3	4	5	6	7	8			9			10					11
Item No	Drawing No	Group No	Commercial identification	*Chemical nature *type of product	*Procurement Information *Manufacturer / Supplier *Specification Issue/Rev	Use/ location	Environment. code			Size code			C o r r	S C C	F l a m	O F G	O T G	Remarks/ Approval
01	ams02-03-1001 ... ams02-03-1008	15	CFC	M40-J 377 GPa	Toray	Octagon Panels	L	V	3 4	42.3	2 · 0.2							E-mail R. Dasgupta 01.10.2001
02	see Item 01 see Item 01	10	Laminating resin Hardener	L285 287	M. G. Scheufler	Octagon Panels	L	V	3 4									E-mail R. Dasgupta 01.10.2001
03	see Item 01 see Item 01 see Item 01	10	Adh. Glue/ Hardener	A10/B10 287	M. G. Scheufler	Octagon Panels	L	V	3 4									E-mail R. Dasgupta 01.10.2001
04	see Item 01 see Item 01 see Item 01	1	Core Aluminium	Al 5056 3.2-50-P	Hexel 1/8 -5056- 0,0007 P	Octagon Panels	L	V	3 4		2.6							E-mail R. Dasgupta 01.10.2001
05	ams02-1645d, ams02-1646d, ams02-1647d	15	CFC	M40-J 377 GPa	Toray	Bulkheads	L	V	3 4	13.2	0.35							E-mail R. Dasgupta 01.10.2001
06	see Item 05 see Item 05 see Item 05	10	Laminating resin Hardener	L285 287	M. G. Scheufler	Bulkheads	L	V	3 4									E-mail R. Dasgupta 01.10.2001
07	ams1995f, ams1996f	15	C-Fabric	C15-HTA 5131, 3K T300	Eurocomposites	Lower/Upper Reinforcement Ring	L	V	3 4	9.3	0.5							E-mail R. Dasgupta 02.07.2001
08	see Item 07 see Item 07	10	Laminating Resin	EP 121	Eurocomposites	Lower/Upper Reinforcement Ring	L	V	3 4									E-mail R. Dasgupta 02.07.2001

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			Octagon Support Structure						Issue/Rev.: 1 draft										Date: 27th Nov. 2004	
1	2	3	4	5	6	7	8			9			10					11		
Item No	Drawing No	Group No	Commercial identification	*Chemical nature *type of product	*Procurement Information *Manufacturer / Supplier *Specification Issue/Rev	Use/ location	Environment. code			Size code			C o r r	S C C	F l a m	O F G	O U T G	Remarks/ Approval		
																			WT (kg)	THK (cm)
09	ams1956l	15	C-Fabric	C15-HTA 5131, 3K	Eurocomposites	Lower Honeycomb Plate	L	V	3 4	5.5	2 · 0.05							E-mail R. Dasgupta 02.07.2001		
10	see Item 09	10	Laminating Resin	EP 121	Eurocomposites	Lower Honeycomb Plate	L	V	3 4									E-mail R. Dasgupta 02.07.2001		
11	see Item 09	1	Core Aluminium	Al 5056 ECM 48-32	EC 3/16-5056 0,0007 V	Lower Honeycomb Plate	L	V	3 4		4.0							E-mail R. Dasgupta 02.07.2001		
12	see Item 09		Void Filler	EC 622	Eurocomposites	Lower Honeycomb Plate	L	V	3 4									E-mail R. Dasgupta 02.07.2001		
13	ams1942f	15	C-Fabric	M40-J 377 GPa	Toray	Upper Honeycomb Plate	L	V	3 4	38.2	2 · 0.1									
14	see Item 13	10	Laminating Resin	TBD		Upper Honeycomb Plate	L	V	3 4											
15	see Item 13	10	Hardener	TBD		Upper Honeycomb Plate	L	V	3 4											
16	see Item 13	1	Core Aluminium	Al 5056 ECM 48-32	EC 3/16-5056 0,0007 V	Upper Honeycomb Plate	L	V	3 4		9.2							E-mail R. Dasgupta 02.07.2001		

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			Octagon Support Structure							Issue/Rev.: 1 draft								
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1	2	3	4	5	6	7	8			9			10					11
Item No	Drawing No	Group No	Commercial identification	*Chemical nature *type of product	*Procurement Information *Manufacturer / Supplier *Specification Issue/Rev	Use/ location	Environment. code			Size code			C o r r	S C C	F l a m	O F G	O U T G	Remarks/ Approval
							R	A	T	(kg)	(cm)	cm ²						
17		10	Adh. resin A10/A20 Hardener B10/B20		M.G.Scheufler	Panels, Skin - Core	L	V	3 4									E-mail R. Dasgupta 01.10.2001
18	ams1988b ams1949e	1	Aerospace Aluminium	EN AW-7075 T 7351		Inserts Lower/Upper Honeycomb	L	V	3 4	5.4								
19	ams02-1759b	1	Aerospace Aluminium	EN AW-7075 T 7351		UFE Board Mounting Pins	L	V	3 4									
20	ams1961d ams1967a ams02-04-1020...1023	1		AlMgSi1.0 3.2315		Straw Module Fixation	L	V	3 4									

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<div>RWTH Physics AC-I</div>			TRD Soldering and Brazing Materials						Doc. No: AMS-TRD-RWTH-001										Page: 9	
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1	2	3	4	5	6	7	8			9			10					11		
Item No	Drawing No	Group No	Commercial identification	*Chemical nature *type of product	*Procurement Information *Manufacturer / Supplier *Specification Issue/Rev	Use/ location	Environment. code			Size code			C o r r	S C C	F l C a m	O F F G	O U T G	Remarks/ Approval		
							R	A	T	WT (kg)	THK (cm)	ESA* cm ²								
01		7	Castolin	1020F /L-Ag55Sn	Castolin GmbH	Brazing Gas Tubes/ Manifolds	L	V	3 4									E-mail R. Dasgupta 01.10.2001		

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<div>RWTH</div> <div>Physics AC-I</div>			TRD							Doc. No: AMS-TRD-RWTH-001								
			Front End Electronics							Issue/Rev.: 1 draft								
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			29th Nov. 2004															
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1	2	3	4	5	6	7	8			9			10					11
Item No	Drawing No	Group No	Commercial identification	*Chemical nature *type of product	*Procurement Information *Manufacturer / Supplier *Specification Issue/Rev	Use/ location	Environment. code			Size code			C o r r	S C C	F l a m	O F G	O U T G	Remarks/ Approval
							R	A	T	WT (kg)	THK (cm)	ESA* cm ²						
01			UTE	FR4+Cu	Company Straschu		L	V	34	4.0								see AMS-02 Electronic List
03			Jumper Cable			Connection UTE-UFE Board	L	V	34	2.6								see AMS-02 Electronic List
02			UFE	FR4+Cu	Company Straschu		L	V	34	5.7								see AMS-02 Electronic List
03		15	Thermoelements DS 18 202 Kapton film	Silicon + Epoxy Compounds Dallas Sensors Polyimide	Dallas Semiconductor Dupont													see AMS-02 Electronic List