CARLO GAVAZZI SPACE SpA	0 RICH SYSTEM	1 ECO ref	Doc N°: **ECO-00003**
	Engineering Change Order		Date: **09.11.04**
			Page **1** of **1** attach. **A**

2 DRAWING N° / REV. / TITLE:
12-RICSYS-50.000 Rev / - Rich System Structure assy

3 SHEETS AFFECTED:
1/2

4 PREPARED BY:
A. MORONI

5 ORIGIN:
N.A.

6 REASON FOR REVISION:

3D Model modification

7 CHANGE DESCRIPTION:

- Number of tem 5 changes from 7 to 5 (See annex A).
- Number of tem 6 changes from 5 to 7 (See annex A).
- Parts list update

8 OTHER DRAWINGS AFFECTED:
Parts List

C.C.B. DISPOSITION:

9	10 CLASS:	11 Eng.	12 P.A.	13 C.C.	14 Date
Approved ☒ Rejected ☐	3	09/11/04	09.11.04		19/11/04

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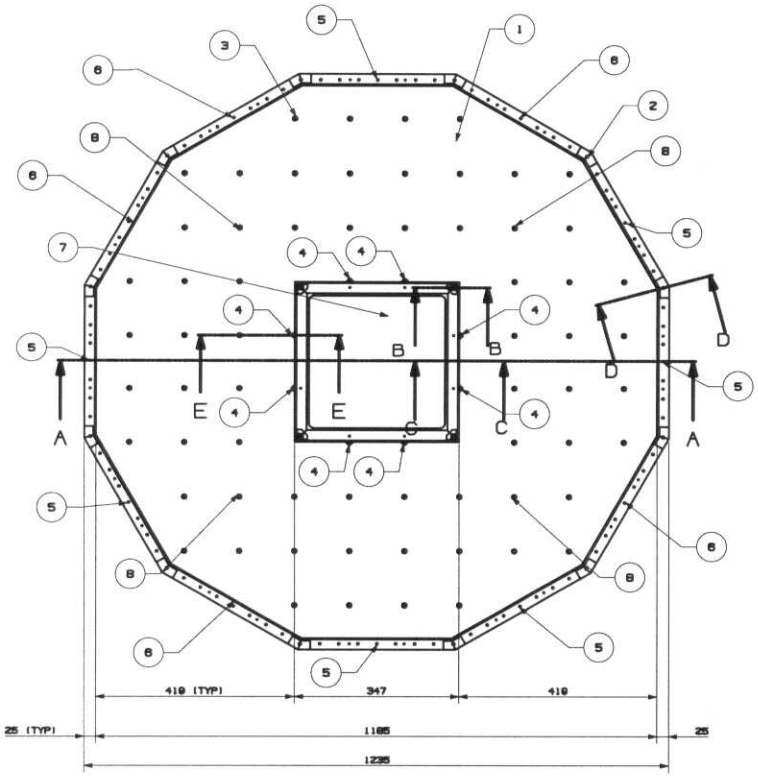
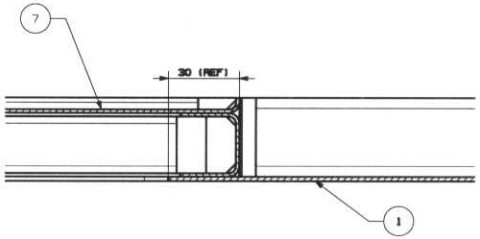
ANNEX A TO ECO-00003

SECTION A-A



TOP VIEW



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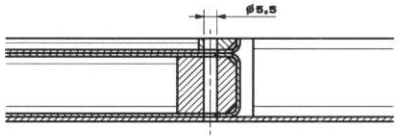

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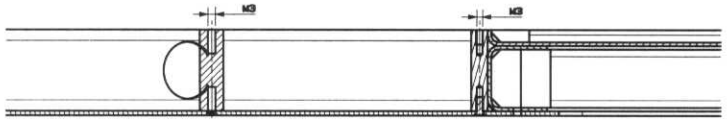
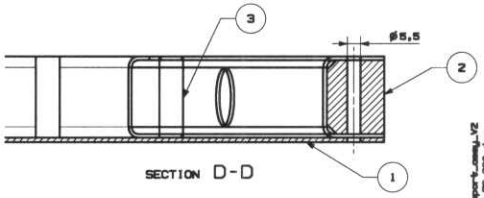
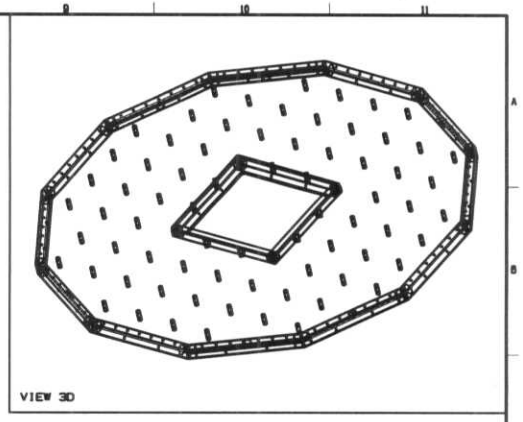


SECTION E-E



SECTION D-D



VIEW 3D

NOTES:

-GLUE 5, 6 7 AND 8 TO 1 WITH HYSOL EA 934
-GLUE 2 TO 5 AND 6 ACCORDING TO TOP VIEW WITH HYSOL EA 934
-3 AND 4 SHALL BE FIXED TO 1 WITH HYSOL EA 934 AND SCREW (SEE PART LIST)
-GLUING PROCEDURE ACCORDING TO GLUE DATA SHEET
-TIGHTENING TORQUE ACCORDING TO GD-WI-CGS-10

-ALL THE EXTERNAL SPACER ARE (2)

-THE INTERNAL SPACER WITHOUT REFERENCE ARE (3)

-ALL VISIBLE SURFACES OF ITEMS MADE OF CARBON FIBER SHALL BE COVERED WITH A SHEET OF AL 99% TH 25µm

WAS

11-RICSYS-10.000	1	01 27-02-2004	
		CARLO GAVAZZI SPACE	
		RICH SYSTEM	1:5
		STRUCTURE ASSY	ISO 2768- m
		12-RICSYS-50.000	A1 / 1 / sheet 1 of 3

FILE MODEL: 2A-Frame_4_Sandwich_Integral
FILE DRAWING: 12-RICSYS-50.000

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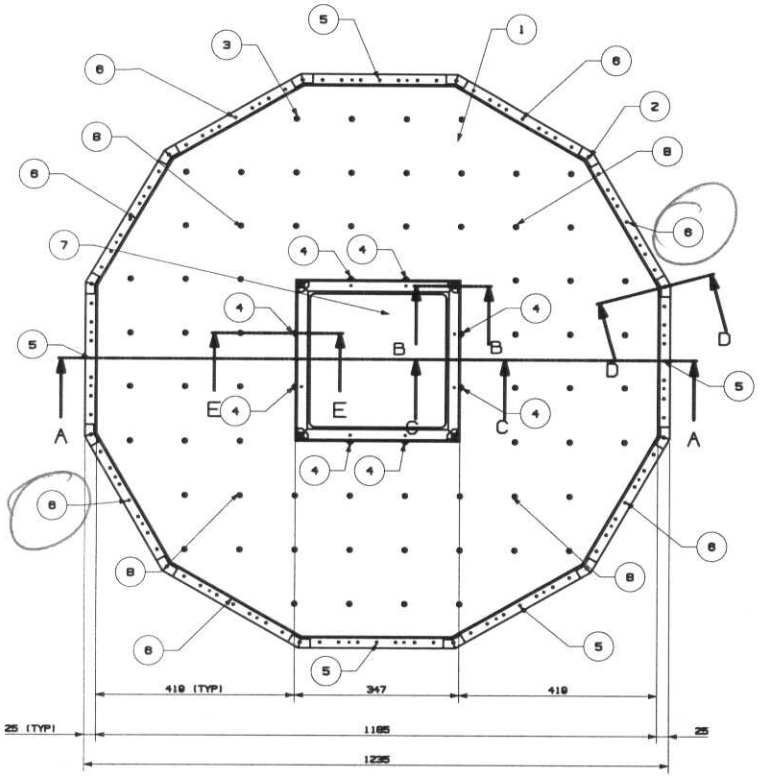
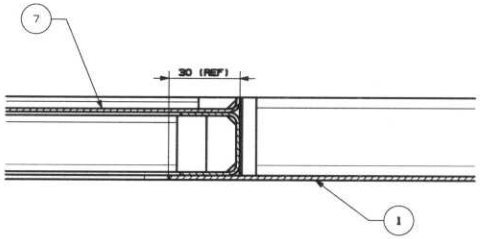
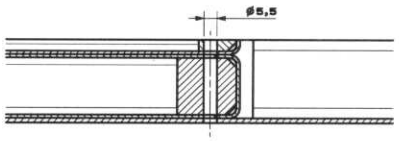
SECTION A-A



TOP VIEW



SECTION C-C



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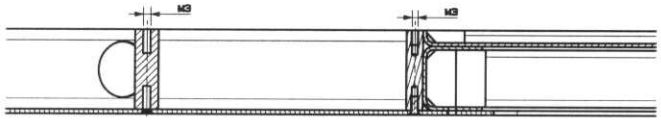
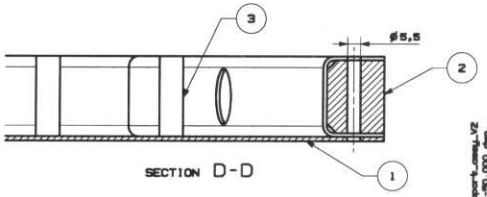
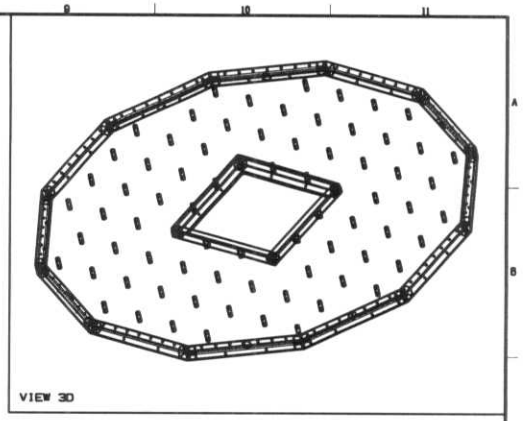


SECTION E-E



SECTION D-D



VIEW 3D

15

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ANNEX A TO ECO-00003

A	AM 08-11-2004		ECO-00003
1	CH 27-07-2004		
11-RICSYS-10.000		RICH SYSTEM STRUCTURE ASSY	CARLO GAVAZZI SPACE
		1:5	ISO 2768- m
A1		12-RICSYS-50.000	A
			SHEET 1 of 3

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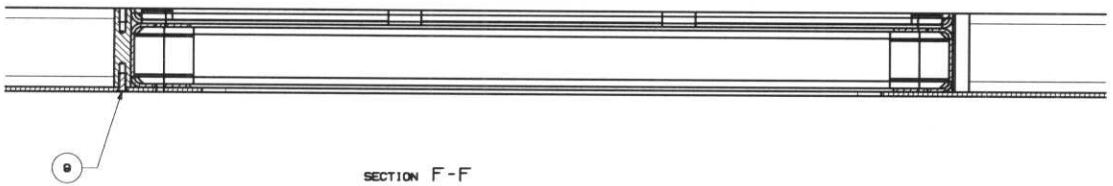
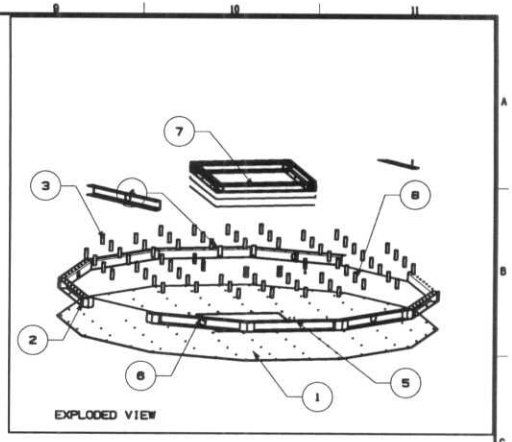
FILE MODEL: usmagni_m-space-h_assy_V2
FILE DRAWING: 12-RICSYS-50.000.dwg

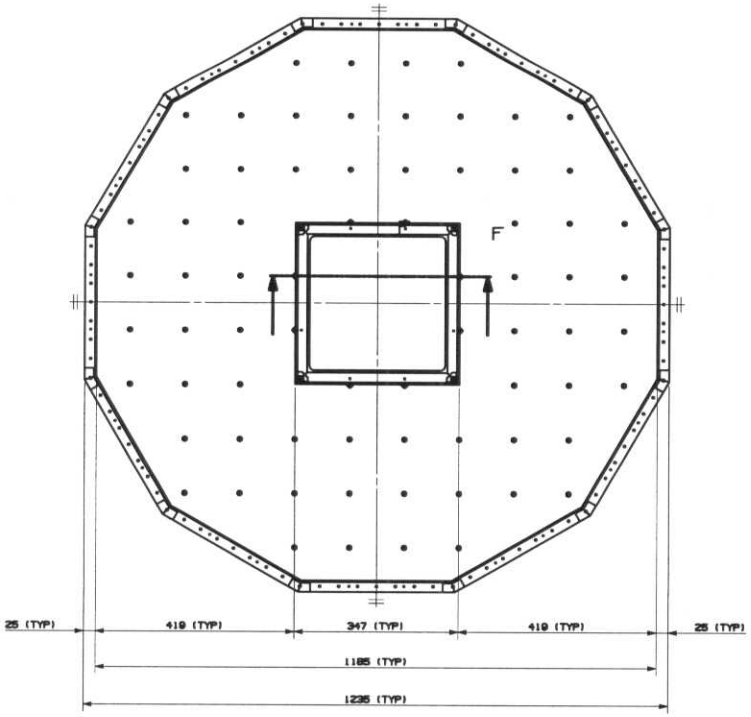
ANNEX A TO ECO-00003

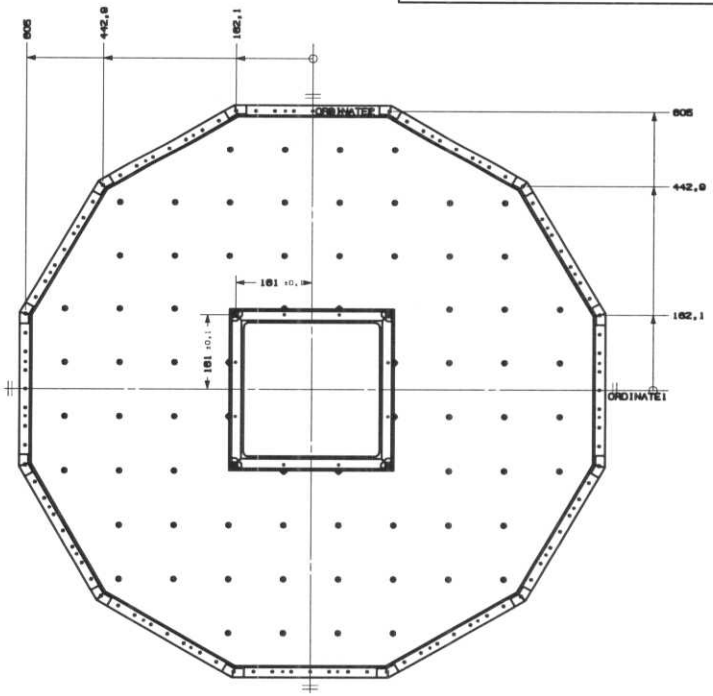


SECTION F-F



EXPLODED VIEW





TOP VIEW
TOF INTERFACE HOLES

WAS

11-RICSYS-10.000	
	CARLO GAVAZZI SPACE
	RICH SYSTEM STRUCTURE ASSY
	115
	ISO 2768-m
	3.2
A1	12-RICSYS-50.000
	SHEET 2 OF 3

FILE MODEL: aerogel_support_assy_V2
FILE DRAWING: 12-RICSYS-50.000.dwg

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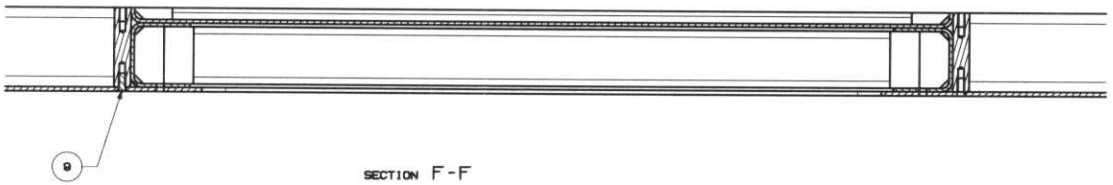
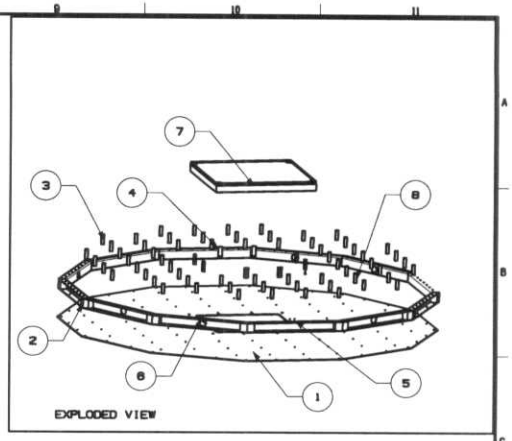
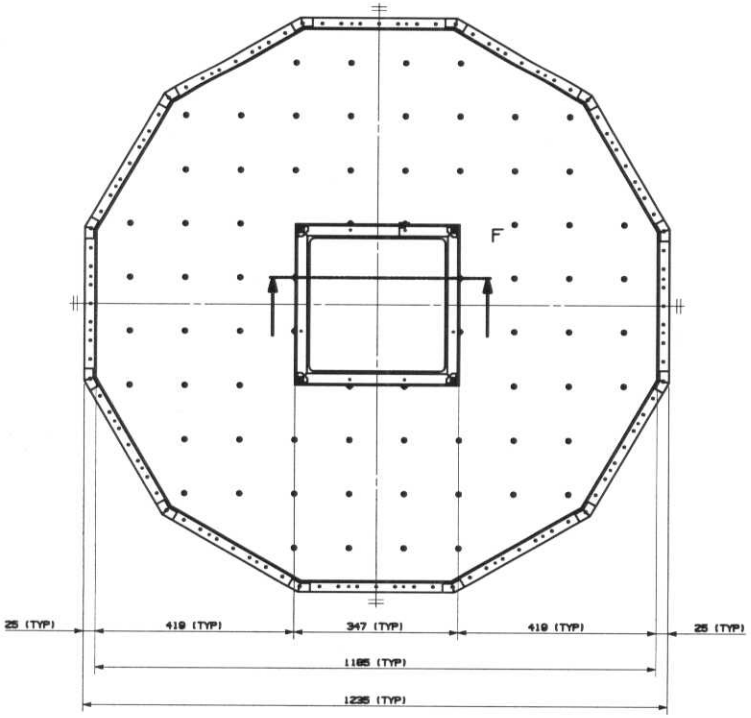
ANNEX A TO ECO-90003

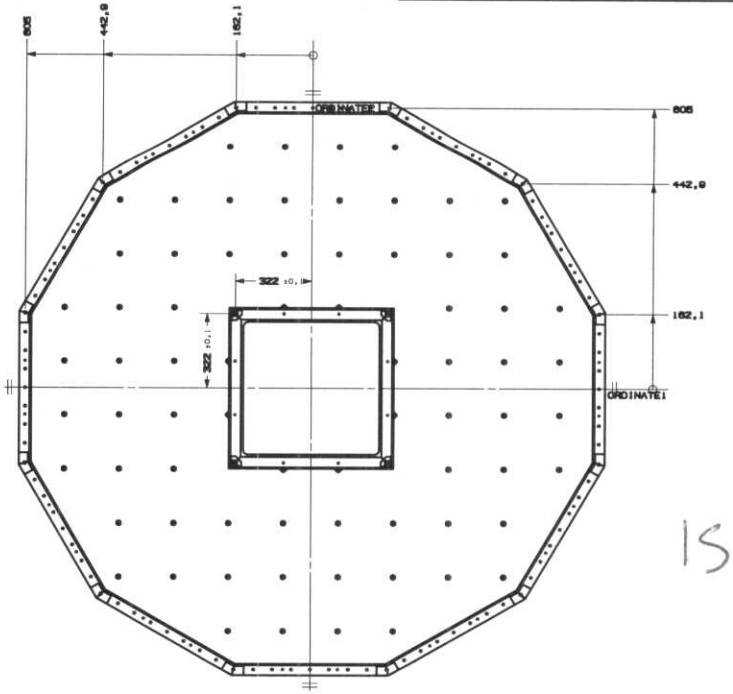


SECTION F-F



EXPLODED VIEW





TOP VIEW
TOF INTERFACE HOLES

15

FILE MODEL: aerogel_support_assy_V2
FILE DRAWING: 12-RICSYS-50.000.dwg

11-RICSYS-10.000

RICH SYSTEM
STRUCTURE ASSY

CARLO GAVAZZI SPACE

1:5

ISO 2768-m

3.2

A1

12-RICSYS-50.000

SHEET 2 OF 3

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ANNEX A TO ECO-00003

PARTS LIST

WAS

REV.	DRAWN BY - DATE	MEC. CHECK - DATE	ELEC. CHECK - DATE	SYS. CHECK - DATE	P.A. CHECK - DATE	C. of C. CHECK - DATE	CHANGE AUTHORITY
\	CM 27-07-04	27.07.04	N.A.	27/7/04	28.07.04	28/7/4	

PARTS LIST TITLE

STRUCTURE ASSY

Parts list

CARLO GAVAZZI SPACE S.p.A.

FILE NAME	NEXT ASSY	PARTS LIST NUMBER	REV.
12-RICSYS-50.000_revSL.xls	11-RICSYS-10.000	12-RICSYS-50.000	\

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POS.	DESCRIPTION	SPECIFICATION / PROC. SPEC	SUPPLIER	PART NUMBER / ID. CODE	ISSUE REV.	CGS CODE / MATERIAL	-01 Q.TY	-02 Q.TY	-03 Q.TY	-04 Q.TY	DATA CODE	S/N	REMARKS
1	Base Plate		PLYFORM	12-RICSYS-50.001	\		1	-	-	-			
2	Spacer 1		PLYFORM	12-RICSYS-50.002	\		12	-	-	-			
3	Spacer 4		PLYFORM	12-RICSYS-50.003	\		60	-	-	-			
4	Spacer 5		PLYFORM	12-RICSYS-50.004	\		8	-	-	-			
5	Extrenal Longeron 1		PLYFORM	12-RICSYS-50.005	\		7	-					
6	Extrenal Longeron 2		PLYFORM	12-RICSYS-50.006	\		5	-	-	-			
7	NAF SUPPORT ASSY		PLYFORM	12-RICSYS-51.000	\		1	-	-	-			
8	Spacer 6		PLYFORM	12-RICSYS-50.007	\		4	-	-	-			
9	Slotted flat trim head machine screw	VSM 13328	BOSSARD	BN 658 M3x8	\		68	-	-	-			
10	Adhesive		LOCTITE	HYSOL EA 934	AR				-				
							-	-	-	-			
							-	-	-	-			
							-	-	-	-			
							-	-	-	-			
										-			
							-	-	-	-			
							-	-	-	-			
							-	-	-	-			
							-	-	-	-			

ANNEX A TO ECO-00003

PARTS LIST

15

REV.	DRAWN BY - DATE	MEC. CHECK - DATE	ELEC. CHECK - DATE	SYS. CHECK - DATE	P.A. CHECK - DATE	C. of C. CHECK - DATE	CHANGE AUTHORITY
A	AM 10-11-04						
/	CM 27-07-04						

PARTS LIST TITLE

STRUCTURE ASSY

Parts list

CARLO GAVAZZI SPACE S.p.A.

FILE NAME	NEXT ASSY	PARTS LIST NUMBER	REV.
12-RICSYS-50.000_revA.xls	11-RICSYS-10.000	12-RICHSYS-50.000	A

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POS.	DESCRIPTION	SPECIFICATION / PROC. SPEC	SUPPLIER	PART NUMBER / ID. CODE	ISSUE REV.	CGS CODE / MATERIAL	-01 Q.TY	-02 Q.TY	-03 Q.TY	-04 Q.TY	DATA CODE	S/N	REMARKS
1	Base Plate		PLYFORM	12-RICSYS-50.001	/		1	-	-	-			
2	Spacer 1		PLYFORM	12-RICSYS-50.002	/		12	-	-	-			
3	Spacer 4		PLYFORM	12-RICSYS-50.003	/		60	-	-	-			
4	Spacer 5		PLYFORM	12-RICSYS-50.004	/		8	-	-	-			
5	External longeron 1		PLYFORM	12-RICSYS-50.005	/		5	-	-	-			
6	External longeron 2		PLYFORM	12-RICSYS-50.006	A		7	-	-	-			
7	NAF SUPPORT ASSY		PLYFORM	12-RICSYS-50.000	/		1	-	-	-			
8	Spacer 6		PLYFORM	12-RICSYS-50.007	/		4	-	-	-			
9	Slotted flat trim head machine screw		BOSSARD	BN 658 M3x8	/		68	-	-	-			
10	Adhesive		LOCTITE	HYSOL EA 934	/		AR	-	-	-			

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