

Technical Report

Bill of Material Report

Report generated in BoMGen powered by CompoSIDE

Document:	Engine Grillage BoM Report
Product Name:	60' Motor Sports Fishing Boat
Author:	Jon Evans
Circulation:	

Issues and Amendments:

Issue	Issue Log	Issued by	Approved by	Issue Date
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Disclaimer:

1. This document is intended for estimation purposes only and is not to be used for materials order.
2. This document should be used as a guide to tendering only. It remains the responsibility of the builder to satisfy himself as to the final selection of materials and the quantities required.
3. Some of the laminates are based on limited information and previous experience.
4. The laminates will be subject to change as the design evolves.
5. The "Weight Estimate" is exclusive of "wastage factors" (i.e. weights as designed) but includes "usage factor" (i.e. core resin consumption etc.).
6. The "Bill of Materials (BoM)" estimate includes "wastage and usage factors"
7. Product BoM factors are specified in the Appendix to this document or if specific for component in the document section outlining component BoM.
8. It is the builder responsibility to verify the appropriateness of the "wastage factors" and "usage factors" applied.

1. Introduction

Product:	60' Motor Sports Fishing Boat
Product Type:	
Keywords:	Bill of Materials

2. Product Summary

2.1 BoM - Summary

		Summary		
Type	Material / Component	Total Areal Quantity ¹ [m ²]	Total Weight Quantity ¹ [kg]	Total Material Cost ¹ [€]
	Total		27.65	-
Cores	20 mm C70.75	1.8	3.28	-
	34 mm C70.130	1.47	7.59	-
Plies	UC-SM300-EP-PP	0.71	0.32	-
	XC-SM300-EP-PP	8.65	4.17	-
	XC-SM400-EP-PP	19.1	12.28	-

Core Weights include Resin Weight due to core resin consumption.

Areal and weight quantities include wastage and usage factors.

For core sheet size please refer to section: "Material Details"

2.2 BoM - Cost

		Component (Material Cost) [€]	
Type	Material / Component	INTERNAL	Engine Grillage
	Total	-	-
Cores	20 mm C70.75	-	-
	34 mm C70.130	-	-
Plies	UC-SM300-EP-PP	-	-
	XC-SM300-EP-PP	-	-
	XC-SM400-EP-PP	-	-

Core Weights include Resin Weight due to core resin consumption.

Areal and weight quantities include wastage and usage factors.

For core sheet size please refer to section: "Material Details"

2.3 Weight Estimate

#	Component	As Designed Weight ² [kg]
1	INTERNAL	24.95
2	INTERNAL/Engine Grillage	24.95

3. Components Summary

3.1 Engine Grillage (incl. Sub-components details)

Quantity: 1 (Including parent component quantity)

3.1.1 Engine Grillage Unique Material List (Total quantities)

#	Material Name	Type	As Designed Area ² [m ²]	Total Area ¹ [m ²]	As Designed Weight ² [kg]	Total Weight ¹ [kg]	Total Resin Weight ¹ [kg]	Total Fibre Weight ¹ [kg]	Total Price [€]	Price per Kg [€]
1	UC-SM300-EP-PP	Ply	1.85	2.04	0.83	0.93	0	0	-	-
2	XC-SM300-EP-PP	Ply	22.46	24.76	10.72	11.94	0	0	-	-
3	XC-SM400-EP-PP	Ply	91.95	101.38	58.54	65.19	0	0	-	-
4	20 mm C70.75	Core	1.55	1.8	2.99	3.28	0	0	-	-
5	20 mm T10.100	Core	7.01	8.1	15.98	17.58	0	0	-	-
6	34 mm C70.130	Core	1.27	1.47	6.9	7.59	0	0	-	-
7	34 mm T10.100	Core	2.37	2.73	9.17	10.08	0	0	-	-

Core Weights include Resin Weight due to core resin consumption.

Engine Grillage Subcomponents:

#	Name	Type	Unit Area / Unit Length [m ²] / [mm]	Unit Subcomponent Weight (Factored) ² [kg]	Unit Quantity	Quantity (including component quantity)
1	Beam_001	Beam	- / 6346	23.16	1	1
2	Beam_002	Beam	- / 6346	45.18	1	1
3	Beam_003	Beam	- / 1120	3.97	1	1
4	Beam_004	Beam	- / 1119.99	5.31	1	1
5	Beam_005	Beam	- / 1120	6.65	1	1
6	Beam_006	Beam	- / 1060	7.55	1	1
7	Beam_007	Beam	- / 1060	8.43	1	1

3.1.2 Engine Grillage Stacking

3.1.2.1 Beam_001 StackUp (Beam)

Subcomponent Quantity: 1, Length: 6346 [mm]

Material		α	Width / Leng. / Cov.	Comment	Element_001	Element_002	Element_003
		[°]	[mm] / [mm] / [%]		ShearWeb	ShearWeb	ShearWeb
1	QC-SM600-EP-PP	0	200 / 6346 / 100		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	XC-SM400-EP-PP	45	200 / 6346 / 100		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3 - 6	4 x XC-SM300-EP-PP	45	200 / 6346 / 100		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	34 mm C70.130	0	200 / 6346 / 100		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8	17 mm C70.75	0	200 / 6346 / 100		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9	20 mm C70.100	0	200 / 6346 / 100		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10 - 12	3 x XC-SM300-EP-PP	45	200 / 6346 / 100		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13	QC-SM600-EP-PP	0	200 / 6346 / 100		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14 - 15	2 x UC-SM300-EP-PP	0	245 / 6346 / 100		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Element Quantity			[-]		1	1	1
Single Element Thickness			[mm]		36.35	24.27	1.19
Average Lap Distance			[mm]		0	0	0
Bonding Tape Radius (Radius used for bonding plies width calculation)			[mm]		0	0	0

Material		α	Width / Leng. / Cov.	Comment	Element_001	Element_002	Element_003
		[°]	[mm] / [mm] / [%]		ShearWeb	ShearWeb	ShearWeb
16 - 20	5 x XC-SM400-EP-PP	0	245 / 6346 / 100		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
21	20 mm C70.75	0	245 / 6346 / 100		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
22 - 26	5 x XC-SM400-EP-PP	0	245 / 6346 / 100		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
27 - 28	2 x UC-SM300-EP-PP	0	245 / 6346 / 100		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
29 - 30	2 x UC-SM300-EP-PP	0	25 / 6346 / 100		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
31 - 35	5 x XC-SM400-EP-PP	0	25 / 6346 / 100		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
36	20 mm C70.75	0	25 / 6346 / 100		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
37 - 41	5 x XC-SM400-EP-PP	0	25 / 6346 / 100		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
42 - 43	2 x UC-SM300-EP-PP	0	25 / 6346 / 100		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Element Quantity			[-]		1	1	1
Single Element Thickness			[mm]		36.35	24.27	1.19
Average Lap Distance			[mm]		0	0	0
Bonding Tape Radius (Radius used for bonding plies width calculation)			[mm]		0	0	0

3.1.2.2 Beam_002 StackUp (Beam)

Subcomponent Quantity: 1, Length: 6346 [mm]

Material		α	Width / Leng. / Cov.	Comment	Element_002	Element_003	Element_001
		[°]	[mm] / [mm] / [%]		ShearWeb	ShearWeb	ShearWeb
1	QC-SM600-EP-PP	0	200 / 6346 / 100		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	XC-SM400-EP-PP	45	200 / 6346 / 100		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3 - 6	4 x XC-SM300-EP-PP	45	200 / 6346 / 100		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	34 mm T10.100	0	200 / 6346 / 100		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8	17 mm T10.100	0	200 / 6346 / 100		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9	20 mm T10.100	0	200 / 6346 / 100		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10 - 12	3 x XC-SM300-EP-PP	45	200 / 6346 / 100		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
13	QC-SM600-EP-PP	0	200 / 6346 / 100		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14 - 15	2 x UC-SM300-EP-PP	0	663 / 6346 / 100		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16 - 20	5 x XC-SM400-EP-PP	0	663 / 6346 / 100		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21	20 mm T10.100	0	663 / 6346 / 100		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22 - 26	5 x XC-SM400-EP-PP	0	663 / 6346 / 100		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
27 - 28	2 x UC-SM300-EP-PP	0	663 / 6346 / 100		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
29 - 30	2 x UC-SM300-EP-PP	0	25 / 6346 / 100		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
31 - 35	5 x XC-SM400-EP-PP	0	25 / 6346 / 100		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
36	20 mm T10.100	0	25 / 6346 / 100		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
37 - 41	5 x XC-SM400-EP-PP	0	25 / 6346 / 100		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
42 - 43	2 x UC-SM300-EP-PP	0	25 / 6346 / 100		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Element Quantity			[-]		1	1	1
Single Element Thickness			[mm]		24.27	1.19	36.35
Average Lap Distance			[mm]		0	0	0
Bonding Tape Radius (Radius used for bonding plies width calculation)			[mm]		0	0	0

3.1.2.3 Beam_003 StackUp (Beam)

Subcomponent Quantity: 1, Length: 1120 [mm]

Material		α	Width / Leng. / Cov.	Comment	Element_002	Element_003	Element_001
		[°]	[mm] / [mm] / [%]		ShearWeb	ShearWeb	ShearWeb
1	QC-SM600-EP-PP	0	200 / 1120 / 100		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	XC-SM400-EP-PP	45	200 / 1120 / 100		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3 - 6	4 x XC-SM300-EP-PP	45	200 / 1120 / 100		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	34 mm T10.100	0	200 / 1120 / 100		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8	17 mm T10.100	0	200 / 1120 / 100		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9	20 mm T10.100	0	200 / 1120 / 100		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10 - 12	3 x XC-SM300-EP-PP	45	200 / 1120 / 100		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
13	QC-SM600-EP-PP	0	200 / 1120 / 100		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14 - 15	2 x UC-SM300-EP-PP	0	245 / 1120 / 100		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16 - 20	5 x XC-SM400-EP-PP	0	245 / 1120 / 100		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21	20 mm T10.100	0	245 / 1120 / 100		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22 - 26	5 x XC-SM400-EP-PP	0	245 / 1120 / 100		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
27 - 28	2 x UC-SM300-EP-PP	0	245 / 1120 / 100		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
29 - 30	2 x UC-SM300-EP-PP	0	25 / 1120 / 100		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
31 - 35	5 x XC-SM400-EP-PP	0	25 / 1120 / 100		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
36	20 mm T10.100	0	25 / 1120 / 100		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
37 - 41	5 x XC-SM400-EP-PP	0	25 / 1120 / 100		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
42 - 43	2 x UC-SM300-EP-PP	0	25 / 1120 / 100		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Element Quantity			[-]		1	1	1
Single Element Thickness			[mm]		24.27	1.19	36.35
Average Lap Distance			[mm]		0	0	0
Bonding Tape Radius (Radius used for bonding plies width calculation)			[mm]		0	0	0

3.1.2.4 Beam_004 StackUp (Beam)

Subcomponent Quantity: 1, Length: 1119.99 [mm]

Material		α	Width / Leng. / Cov.	Comment	Element_002	Element_003	Element_001
		[°]	[mm] / [mm] / [%]		ShearWeb	ShearWeb	ShearWeb
1	QC-SM600-EP-PP	0	200 / 1119.99 / 100		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	XC-SM400-EP-PP	45	200 / 1119.99 / 100		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3 - 6	4 x XC-SM300-EP-PP	45	200 / 1119.99 / 100		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	34 mm T10.100	0	200 / 1119.99 / 100		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8	17 mm T10.100	0	200 / 1119.99 / 100		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9	20 mm T10.100	0	200 / 1119.99 / 100		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10 - 12	3 x XC-SM300-EP-PP	45	200 / 1119.99 / 100		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
13	QC-SM600-EP-PP	0	200 / 1119.99 / 100		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14 - 15	2 x UC-SM300-EP-PP	0	385 / 1119.99 / 100		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16 - 20	5 x XC-SM400-EP-PP	0	385 / 1119.99 / 100		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21	20 mm T10.100	0	385 / 1119.99 / 100		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22 - 26	5 x XC-SM400-EP-PP	0	385 / 1119.99 / 100		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
27 - 28	2 x UC-SM300-EP-PP	0	385 / 1119.99 / 100		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
29 - 30	2 x UC-SM300-EP-PP	0	25 / 1119.99 / 100		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
31 - 35	5 x XC-SM400-EP-PP	0	25 / 1119.99 / 100		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
36	20 mm T10.100	0	25 / 1119.99 / 100		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Element Quantity			[-]		1	1	1
Single Element Thickness			[mm]		24.27	1.19	36.35
Average Lap Distance			[mm]		0	0	0
Bonding Tape Radius (Radius used for bonding plies width calculation)			[mm]		0	0	0

Material		α	Width / Leng. / Cov.	Comment	Element_002	Element_003	Element_001
		[°]	[mm] / [mm] / [%]		ShearWeb	ShearWeb	ShearWeb
37 - 41	5 x XC-SM400-EP-PP	0	25 / 1119.99 / 100		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
42 - 43	2 x UC-SM300-EP-PP	0	25 / 1119.99 / 100		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Element Quantity			[-]		1	1	1
Single Element Thickness			[mm]		24.27	1.19	36.35
Average Lap Distance			[mm]		0	0	0
Bonding Tape Radius (Radius used for bonding plies width calculation)			[mm]		0	0	0

3.1.2.5 Beam_005 StackUp (Beam)

Subcomponent Quantity: 1, Length: 1120 [mm]

Material		α	Width / Leng. / Cov.	Comment	Element_002	Element_003	Element_001
		[°]	[mm] / [mm] / [%]		ShearWeb	ShearWeb	ShearWeb
1	QC-SM600-EP-PP	0	200 / 1120 / 100		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	XC-SM400-EP-PP	45	200 / 1120 / 100		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3 - 6	4 x XC-SM300-EP-PP	45	200 / 1120 / 100		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	34 mm T10.100	0	200 / 1120 / 100		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8	17 mm T10.100	0	200 / 1120 / 100		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9	20 mm T10.100	0	200 / 1120 / 100		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10 - 12	3 x XC-SM300-EP-PP	45	200 / 1120 / 100		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
13	QC-SM600-EP-PP	0	200 / 1120 / 100		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14 - 15	2 x UC-SM300-EP-PP	0	525 / 1120 / 100		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16 - 20	5 x XC-SM400-EP-PP	0	525 / 1120 / 100		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21	20 mm T10.100	0	525 / 1120 / 100		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22 - 26	5 x XC-SM400-EP-PP	0	525 / 1120 / 100		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
27 - 28	2 x UC-SM300-EP-PP	0	525 / 1120 / 100		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
29 - 30	2 x UC-SM300-EP-PP	0	25 / 1120 / 100		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
31 - 35	5 x XC-SM400-EP-PP	0	25 / 1120 / 100		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
36	20 mm T10.100	0	25 / 1120 / 100		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
37 - 41	5 x XC-SM400-EP-PP	0	25 / 1120 / 100		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
42 - 43	2 x UC-SM300-EP-PP	0	25 / 1120 / 100		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Element Quantity			[-]		1	1	1
Single Element Thickness			[mm]		24.27	1.19	36.35
Average Lap Distance			[mm]		0	0	0
Bonding Tape Radius (Radius used for bonding plies width calculation)			[mm]		0	0	0

3.1.2.6 Beam_006 StackUp (Beam)

Subcomponent Quantity: 1, Length: 1060 [mm]

Material		α	Width / Leng. / Cov.	Comment	Element_002	Element_003	Element_001
		[°]	[mm] / [mm] / [%]		ShearWeb	ShearWeb	ShearWeb
1	QC-SM600-EP-PP	0	200 / 1060 / 100		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

2	XC-SM400-EP-PP	45	200 / 1060 / 100	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3 - 6	4 x XC-SM300-EP-PP	45	200 / 1060 / 100	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	34 mm T10.100	0	200 / 1060 / 100	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8	17 mm T10.100	0	200 / 1060 / 100	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9	20 mm T10.100	0	200 / 1060 / 100	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10 - 12	3 x XC-SM300-EP-PP	45	200 / 1060 / 100	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
13	QC-SM600-EP-PP	0	200 / 1060 / 100	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14 - 15	2 x UC-SM300-EP-PP	0	663 / 1060 / 100	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16 - 20	5 x XC-SM400-EP-PP	0	663 / 1060 / 100	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21	20 mm T10.100	0	663 / 1060 / 100	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22 - 26	5 x XC-SM400-EP-PP	0	663 / 1060 / 100	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
27 - 28	2 x UC-SM300-EP-PP	0	663 / 1060 / 100	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
29 - 30	2 x UC-SM300-EP-PP	0	25 / 1060 / 100	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
31 - 35	5 x XC-SM400-EP-PP	0	25 / 1060 / 100	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
36	20 mm T10.100	0	25 / 1060 / 100	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
37 - 41	5 x XC-SM400-EP-PP	0	25 / 1060 / 100	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
42 - 43	2 x UC-SM300-EP-PP	0	25 / 1060 / 100	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Element Quantity			[-]	1	1	1
Single Element Thickness			[mm]	24.27	1.19	36.35
Average Lap Distance			[mm]	0	0	0
Bonding Tape Radius (Radius used for bonding plies width calculation)			[mm]	0	0	0

3.1.2.7 Beam_007 StackUp (Beam)

Subcomponent Quantity: 1, Length: 1060 [mm]

Material	α	Width / Leng. / Cov.	Comment	Element_002	Element_003	Element_001
	[°]	[mm] / [mm] / [%]		ShearWeb	ShearWeb	ShearWeb
1	QC-SM600-EP-PP	0	200 / 1060 / 100	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	XC-SM400-EP-PP	45	200 / 1060 / 100	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3 - 6	4 x XC-SM300-EP-PP	45	200 / 1060 / 100	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	34 mm T10.100	0	200 / 1060 / 100	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8	17 mm T10.100	0	200 / 1060 / 100	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9	20 mm T10.100	0	200 / 1060 / 100	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10 - 12	3 x XC-SM300-EP-PP	45	200 / 1060 / 100	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
13	QC-SM600-EP-PP	0	200 / 1060 / 100	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14 - 15	2 x UC-SM300-EP-PP	0	760 / 1060 / 100	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16 - 20	5 x XC-SM400-EP-PP	0	760 / 1060 / 100	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21	20 mm T10.100	0	760 / 1060 / 100	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22 - 26	5 x XC-SM400-EP-PP	0	760 / 1060 / 100	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
27 - 28	2 x UC-SM300-EP-PP	0	760 / 1060 / 100	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
29 - 30	2 x UC-SM300-EP-PP	0	25 / 1060 / 100	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
31 - 35	5 x XC-SM400-EP-PP	0	25 / 1060 / 100	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
36	20 mm T10.100	0	25 / 1060 / 100	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
37 - 41	5 x XC-SM400-EP-PP	0	25 / 1060 / 100	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
42 - 43	2 x UC-SM300-EP-PP	0	25 / 1060 / 100	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Element Quantity			[-]	1	1	1
Single Element Thickness			[mm]	24.27	1.19	36.35
Average Lap Distance			[mm]	0	0	0
Bonding Tape Radius (Radius used for bonding plies width calculation)			[mm]	0	0	0

4. BoM Material Details

Cores

Name	t_{pp} [mm]	ρ [kg/m ³]	A_m [g/m ²]	Sheet Width Sheet Length [mm]	Core Preprocessing Type	Paper/Film Type	Cell Shape / Grade	Price per m ² €
20 mm C70.75	20	80	1600	1020 2180	Plain (PL)	-	- / -	
34 mm C70.130	34	130	4420	850 1900	Plain (PL)	-	- / -	

Plies

Name	t_{pp} [mm]	A_m [g/m ²]	FVF	RWF	Material Type	Reinforcement Type	Matrix Type	Processing Type	Price per m ² €
UC-SM300-EP-PP	0.298	454.39	0.56	0.34	UD	SMC	Epoxy	Prepreg	
XC-SM300-EP-PP	0.321	482	0.52	0.378	Biaxials	SMC	Epoxy	Prepreg	
XC-SM400-EP-PP	0.427	643	0.52	0.378	Biaxials	SMC	Epoxy	Prepreg	

Material Description

Type	Name	Description
Cores	20 mm C70.75	
	34 mm C70.130	
Plies	UC-SM300-EP-PP	
	XC-SM300-EP-PP	
	XC-SM400-EP-PP	

5. Appendix

5.1 BoM Settings

Wastage factors

Property	Value	Unit
Wastage Scale Factor	1	
Finished Part Offcut	5	%
Cores Offcut	10	%

Prepreg	
Fabric Offcut [%]	5
Resin Application Wastage [%]	0

Included in Usage and Wastage Quantities accordingly.

Usage factors

Property	Value	Unit
Usage Scale Factor	1	

Prepreg	
General Resin Usage [%]	0
Resin Bleed-Out [%]	1

Included in Usage and Wastage Quantities accordingly.

Overlap Factors (Wastage & Usage)

Overlap Factors (Percentage of ply total area)

Prepreg	
Multiaxial Overlap [%]	3
UD Overlap [%]	2

Included in Usage and Wastage Quantities accordingly.

Core Resin Consumption Factors

Core Resin Consumption varies and depends on Core Preprocessing (i.e. Core Cut Type) and Laminate Processing Type (i.e. Infusion).

Defined according to CompoSIDE Internal Knowledge.

5.2 Tables Header Notes

¹ Including Wastage & Usage Factors

² Including Usage Factors

³ Laminates are compliant with the ISO 12215 Category A and ABS guidelines