

Cabin Interior Material Inventory		Time period analysed:	
Impact Criteria Importance:	Equivalent	Life Cycle Type:	Linear

All values in kg units	Seats				Cabin Linings		Bins	Cabin Floor		Total
Component	i. Metallic Structure	ii. Composite Structure	iii. Comfort Interfaces	iv. Misc.	v. Sidewall Panel	vi. Insulation Blankets	vii. Overhead bins	viii. Carpet	ix. Floor Panel	
Initial Design Life (years)	7	5	2	5	10	5	10	4	10	kg
Aluminium	976.3	0.0	276.0	29.7	0.0	0.0	375.5	0.0	185.2	1842.7
Brass	18.0	0.0	0.0	30.6	0.0	0.0	0.0	0.0	0.0	48.6
Cu wiring	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	1.2
Stainless Steel	0.0	0.0	309.0	332.7	0.0	0.0	0.0	0.0	0.0	641.7
Cotton	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.0	0.0	35.0
Synthetic Leather	0.0	0.0	1008.0	0.0	0.0	0.0	0.0	0.0	0.0	1008.0
Silicone Rubber	0.0	0.0	0.0	2.4	3.3	0.0	0.0	0.0	0.0	5.7
CFRP	0.0	656.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	656.4
GFRP	0.0	0.0	0.0	0.0	129.6	856.9	187.0	0.0	0.0	1173.5
Epoxy Adhesive	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4
Latex	0.0	0.0	0.0	0.0	0.0	0.0	0.0	70.0	0.0	70.0
NOMEX HC	0.0	0.0	0.0	0.0	43.6	0.0	62.8	0.0	0.0	106.4
PA	0.0	18.0	144.0	42.6	0.0	0.0	0.0	175.0	0.0	379.6
PC	0.0	0.0	1327.5	2.4	0.0	0.0	0.0	0.0	0.0	1329.9
PEI	0.0	0.0	0.0	0.0	73.8	0.0	0.0	0.0	0.0	73.8
PET Film	0.0	0.0	90.0	69.0	0.0	19.3	0.0	70.0	0.0	248.3
PMMA	0.0	0.0	0.0	0.0	59.5	0.0	0.0	0.0	0.0	59.5
PU Flexible Foam	0.0	0.0	1476.0	0.0	0.0	0.0	0.0	0.0	0.0	1476.0
PU Rigid Foam	0.0	0.0	435.0	13.2	0.0	0.0	0.0	0.0	0.0	448.2
PVC Film	0.0	0.0	9.0	3.6	39.3	0.0	56.7	0.0	0.0	108.6

Per-Material Comparison: Scores & Ranks																					
DB: EI / M: CML(nb)		DB: EI / M: EF 3		DB: EI / M: EP 2015		DB: EI / M: ILCD 2011		DB: EI / M: IMP 2002+		DB: EI / M: IPCC 21 100		DB: EI / M: ReCiPe 2016		DB: EI / M: TRACI 2		DB: EI / M: EPS 2015d		Combined Scores		Diversio	
%	rank	%	rank	%	rank	%	rank	%	rank	%	rank	%	rank	%	rank	%	rank	%	rank	%	rank
18.8%	2	20.0%	2	17.4%	2	26.4%	2	19.1%	2	19.7%	2	21.1%	2	28.6%	2	22.2%	2	21.5%	2	52%	0
2.4%	8	1.9%	8	2.0%	8	1.9%	9	1.9%	8	0.1%	13	1.9%	9	1.8%	9	0.9%	11	1.7%	9	135%	5
0.1%	17	0.1%	18	0.1%	18	0.1%	18	0.0%	17	0.1%	18	0.1%	18	0.1%	18	0.0%	19	0.0%	18	127%	2
1.5%	9	1.5%	9	1.1%	9	2.8%	8	1.1%	10	1.4%	9	1.8%	10	3.3%	7	4.1%	8	2.1%	8	145%	3
0.6%	13	1.0%	11	1.0%	10	0.9%	11	0.6%	11	0.1%	15	1.1%	11	0.3%	14	0.4%	17	0.7%	11	161%	7
6.3%	4	8.5%	3	10.1%	4	7.5%	3	6.5%	3	3.9%	5	9.7%	3	4.8%	4	7.6%	6	7.2%	3	86%	3
0.0%	19	0.0%	19	0.0%	19	0.0%	19	0.0%	19	0.0%	18	0.0%	19	0.0%	19	0.1%	18	0.0%	19	162%	1
47.7%	1	44.2%	1	43.9%	1	44.3%	1	49.4%	1	51.2%	1	38.3%	1	40.5%	1	26.5%	1	42.9%	1	58%	0
5.4%	5	5.4%	5	4.9%	5	4.6%	4	5.0%	4	7.2%	4	8.0%	4	5.6%	3	8.8%	5	6.1%	4	69%	2
0.0%	20	0.0%	20	0.0%	20	0.0%	20	0.0%	20	0.0%	19	0.0%	20	0.0%	20	0.0%	20	0.0%	20	187%	1
0.1%	18	0.1%	17	0.1%	17	0.1%	17	0.2%	17	0.0%	16	0.1%	17	0.1%	17	0.4%	16	0.1%	17	292%	2
0.6%	14	0.4%	14	0.3%	15	0.2%	14	0.4%	14	0.4%	14	0.5%	12	0.3%	13	0.7%	13	0.4%	14	105%	5
0.9%	12	1.3%	10	1.0%	11	0.9%	10	1.4%	9	2.5%	7	2.4%	8	1.4%	10	2.6%	9	1.6%	10	108%	5
2.8%	6	4.2%	7	10.3%	3	3.1%	6	4.2%	6	7.2%	3	4.9%	6	4.6%	5	9.2%	3	5.6%	5	134%	4
0.2%	16	0.2%	15	0.6%	12	0.2%	16	0.2%	16	0.4%	11	0.3%	14	0.3%	16	0.5%	14	0.3%	15	134%	5
0.9%	11	0.4%	13	0.5%	13	0.4%	13	0.5%	12	0.1%	14	0.4%	13	0.5%	11	1.5%	10	0.6%	12	232%	4
0.2%	15	0.2%	16	0.2%	16	0.2%	15	0.4%	15	0.3%	12	0.3%	15	0.3%	15	0.4%	15	0.3%	16	92%	4
2.8%	7	4.4%	6	3.1%	6	3.1%	5	4.6%	5	3.8%	6	5.2%	5	4.3%	6	9.1%	4	4.5%	6	140%	3
7.6%	3	5.9%	4	3.0%	7	3.0%	7	3.9%	7	1.6%	8	3.7%	7	2.9%	8	4.1%	7	4.0%	7	151%	5
1.1%	10	0.4%	12	0.4%	14	0.4%	12	0.4%	13	0.0%	20	0.2%	16	0.4%	12	0.9%	12	0.5%	13	238%	10

Per-Product Comparison: Scores									
DB: EI / M: CML(nb)	10.8%	47.7%	23.6%	3.3%	1.7%	4.0%	5.6%	1.3%	1.9%
DB: EI / M: EF 3	11.3%	44.2%	27.2%	2.8%	1.4%	4.0%	5.4%	1.8%	2.0%
DB: EI / M: EP 2015	10.0%	43.9%	30.2%	2.6%	1.6%	3.6%	4.7%	1.7%	1.8%
DB: EI / M: ILCD 2011	14.7%	44.4%	22.3%	3.4%	1.1%	3.4%	6.5%	1.5%	2.7%
DB: EI / M: IMP 2002+	10.8%	49.5%	23.2%	2.6%	1.5%	3.7%	5.2%	1.5%	1.9%
DB: EI / M: IPCC 21 100	10.5%	51.3%	21.1%	1.5%	1.7%	5.2%	5.4%	1.3%	2.0%
DB: EI / M: ReCiPe 2016	11.9%	38.4%	28.5%	3.1%	1.7%	5.9%	5.9%	2.5%	2.1%
DB: EI / M: TRACI 2	15.8%	40.5%	23.1%	3.8%	1.4%	4.1%	7.1%	1.2%	2.9%
DB: EI / M: EPS 2015d	12.1%	26.6%	36.8%	4.0%	2.5%	6.6%	6.8%	2.3%	2.2%
Combined Scores	12%	43%	26%	3%	2%	4%	6%	2%	2%
Scores Diversio	49%	57%	60%	81%	87%	70%	41%	75%	52%
Per-Product Comparison: Ranks									
DB: EI / M: CML(nb)	3	1	2	6	8	5	4	9	7
DB: EI / M: EF 3	3	1	2	6	9	5	4	8	7
DB: EI / M: EP 2015	3	1	2	6	9	5	4	8	7
DB: EI / M: ILCD 2011	3	1	2	5	9	6	4	8	7
DB: EI / M: IMP 2002+	3	1	2	6	8	5	4	9	7
DB: EI / M: IPCC 21 100	3	1	2	8	7	5	4	9	6
DB: EI / M: ReCiPe 2016	3	1	2	6	9	5	4	7	8
DB: EI / M: TRACI 2	3	1	2	6	8	5	4	9	7
DB: EI / M: EPS 2015d	3	2	1	6	7	5	4	8	9
Combined Ranks	3	1	2	6	8	5	4	8	7
Ranks Diversio	0	1	1	3	2	1	0	2	3

