

Design for Manufacture

M5X01238 | Level 5 | 2016-17

Assignment Title:	Material & Manufacturing Specification Documentation
Project Title:	IKEA DESIGN CHALLENGE
Student Name:	Martin Lodemel

#	Component Name:	Material:	Manufacturing Process:	No. x:
1	BOX	Bamboo	Glued, milled, cut, glued, sanded and routed corners	9
2	Baseplate	Aluminium	Stamped or cut	1
3	Frame part 1	Aluminium	Extruded	1
4	Frame part 2	Aluminium	Extruded and milled	1
5	Frame part 3	Aluminium	Extruded and milled	1
6	Frame part 4	Aluminium	Cut and milled	1
7	Frame part 5	Aluminium	Cut and milled	1
8	Hinge part 1	Aluminium	Cut and milled	1
9	Hinge part 2	Aluminium	Cut and milled	1
10	Hinge part 3	Steel bolt	Cut	1
11	Hinge part 4	Locking ring		1
12	Hinge part 5	Rubber disc for friction	Stamped	2
13	Hinge part 6	Locking plate	Stamped or Cut	1
14	Diffuser	Poly(methyl methacrylate) PMMA	Extruded and cut	2
15	Led Strip	http://www.ikea.com/gb/en/products/lighting/integrated-lighting/dioder-led-lighting-strip-flexible-multicolour-art-40192356/	Must be modified for the light.	1
16	Wood screw	Carbon Steel	Silverscrew (25197)	4
17	Screw	A2 Stainless Steel	Accu Group SSK-M3-14-A2	1

18	Hex Nut	A2 Stainless Steel	Screw fix (78389)	1
19	Steel for magnet	Solid Steel	Stamped or cut	1
20	Magnet	NdFeB	Magnets365 04040046_w100	2
21	LED Driver with cables.	Dimmable		1
22	Cable with switch, transformer and plug.			1
23	Plug for cable	Polyethylene	Injected moulded	1