



Iconic Brisbane lampshades

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Michelle Brown, July 2023



Workshop presentation

The Iconic Brisbane Lampshades workshop has been created into a slide show for presentation and documentation purposes. Please feel free to download and use the guide and files as per our CC license in the footnote.

Some pages may link to other online workshops, tutorials or guides created at The Edge, you may require internet to connect and view links.

Public view - Slides

[Admin view - Slides](#)

Design files

There are two base templates to choose from, a hexagon (6 sides) slimmer design or a square larger version.

Hexagon

- hexagonal template -
- hexagonal diffusion -

[DOWNLOAD FILE](#)[DOWNLOAD FILE](#)

Square

- square template -
- square diffusion -

[DOWNLOAD FILE](#)[DOWNLOAD FILE](#)

☒ [✓ mbrown1, 2023-07-12]07072023 - Files to be cut before confirming they are all good to go

4 Patterns to choose from;

- Wickham Terrace Car Park, Spring Hill -

[DOWNLOAD FILE](#)

- Torbreck, Highgate Hill - [DOWNLOAD FILE](#)
- SGIO Building, Brisbane City -

[DOWNLOAD FILE](#)

- Parliament Annexe building -

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☒ [✓ mbrown1, 2023-07-12]Torbreck cut

☒ [✓ mbrown1, 2023-07-15]Annexe to be cut

☒ [✓ mbrown1, 2023-07-15]SGIO to be cut

☒ [✓ mbrown1, 2023-07-15]Wickham as square to be cut

Coming soon

- Mains Rd building Spring Hill (designed by Karl Langer and built in 1967 by Cyril Porter Hornick)

Design File Notes

Hexagonal Lamp design notes

- Finger joint width - 15mm
- Hole width - 15.3mm
- Hole height - Set to material thickness, 4mm ply wood for this workshop so we have set our height to 4.3mm

We've allowed a 0.3mm kerf for the cutting thickness of laser and to slot pieces together tightly but without too much force (hopefully!). Sometimes this takes experimentation depending on material, as things can vary in slight widths and warp.

Square Lamp design notes

Using the online box making program <https://www.festi.info/boxes.py/ClosedBox?language=en> we can put in our dimensions and create a base design

Closed box settings

- 280mm height
- 125mm width and depth
- 4mm material thickness

Finger joint settings (keep all the default except the below)

- finger - 4
- space - 4

We need to make the holes for our light fitting and top if you'd like an open top rather than closed.

Fully closed box

▼ Settings for Finger Joints

angle	<input type="text" value="90.0"/>	
style	<input type="text" value="rectangular"/>	style of the fingers
surroundingspaces	<input type="text" value="2.0"/>	space at the start and end in multiple of normal spaces
bottom_lip	<input type="text" value="0.0"/>	height of the bottom lips sticking out (multiples of thickness) FingerHoleEdge only!
edge_width	<input type="text" value="1.0"/>	space below holes of FingerHoleEdge (multiples of thickness)
extra_length	<input type="text" value="0.0"/>	extra material to grind away burn marks (multiples of thickness)
finger	<input type="text" value="4.0"/>	width of the fingers (multiples of thickness)
play	<input type="text" value="0.0"/>	extra space to allow finger move in and out (multiples of thickness)
space	<input type="text" value="4.0"/>	space between fingers (multiples of thickness)
width	<input type="text" value="1.0"/>	width of finger holes (multiples of thickness)

▼ ClosedBox Settings

x	<input type="text" value="125"/>	inner width in mm (unless outside selected)
y	<input type="text" value="125"/>	inner depth in mm (unless outside selected)
h	<input type="text" value="280"/>	inner height in mm (unless outside selected)
outside	<input checked="" type="checkbox"/>	treat sizes as outside measurements

▼ Default Settings

thickness	<input type="text" value="4"/>	thickness of the material (in mm)
format	<input type="text" value="svg"/>	format of resulting file
tabs	<input type="text" value="0.0"/>	width of tabs holding the parts in place (in mm)(not supported everywhere)
qr_code	<input type="checkbox"/>	Add a QR Code with link or command line to the generated output
debug	<input type="checkbox"/>	print surrounding boxes for some structures
labels	<input checked="" type="checkbox"/>	label the parts (where available)
reference	<input type="text" value="100"/>	print reference rectangle with given length (in mm)(zero to disable)
inner_corners	<input type="text" value="loop"/>	style for inner corners
burn	<input type="text" value="0.1"/>	burn correction (in mm)(bigger values for tighter fit)

Light fitting

As we are using the Ikea [STRÅLA](#) cord light fitting, we need to set the height of the centre piece lightbulb holder and also our hole piece for the middle part of our lamps.

The height from the base line (not finger joints) for the hole on each panel for our template files is;

- 80mm

The diameter of the light hole;

- 28mm

Video guides

Document properties and set up - [Watch here](#)

Downloading and combining our chosen templates - [Watch here](#)

References

<https://www.festi.info/boxes.py/>

<https://inkscape.org/forums/questions/arrays/>