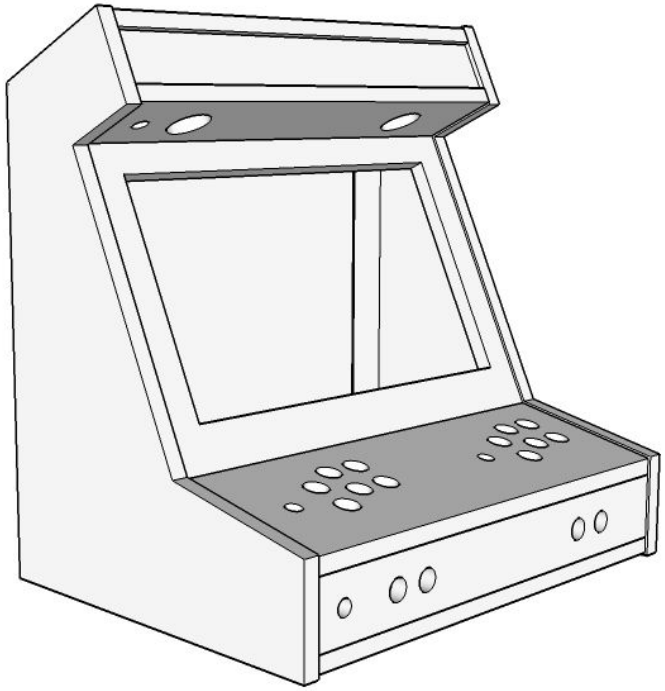
Bartop Arcade w/ Raspberry Pi



Can't get enough retro gaming? Why not build a cabinet to run a Raspberry Pi-based system! This model includes a 6-button/joystick layout, 21.5" display, USB port, custom LED-lit marquee, and 2" speakers with volume control. The design is versatile and can be changed to suit your specific needs in gear, layout, and appearance. All in a format that looks just as good in your living room as it does in a dedicated game room.

Design: Marc Spagnuolo
Plans: Marc Spagnuolo & Brian Benham
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Version 2

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Cut List

Section	Part ID	Part Description	Material	QTY	Width	Length
Arcade	A	Sides	19mm Plywood	2	457mm	635mm
	B	Marquee Top	19mm Plywood	1	171mm	559mm
	C	Monitor Panel	19mm Plywood	1	457mm	559mm
	D	Control Panel Top	19mm Plywood	1	200mm	559mm
	E	Control Panel Front	19mm Plywood	1	79mm	559mm
	F (G)	Back - (Door)	19mm Plywood	1	527mm	559mm
	H	Marquee Bottom	19mm Plywood	1	102mm	559mm
	I	Bottom	19mm Plywood	1	445mm	559mm
	K	Monitor Cleat	19mm Plywood	1	102mm	559mm

Materials Needed:

1 Sheet of 19mm Plywood
1pc of 3mm Plexi Glass 76mm x 559mm
Optional - 1pc of 4/4 hardwood 38mm x 2438mm for banding

Important Building Note:

After you cut your parts out and the cut the necessary bevels, there's a really good chance your final measurements will differ from those laid out in the plans. That's absolutely OK. The final shape of your cabinet will be transferred to the cabinet sides and those will be cut last. So use the cut list as your starting point and don't worry if your numbers differ slightly from the plans.

Resources

Everything you need to know about retro gaming on Raspberry Pi:
https://retropie.org.uk

The Raspberry PI:
http://amzn.to/2j1sjQf

Marquee LED Lights:
http://amzn.to/2jbjwbL

Speakers:
http://amzn.to/2ic6qws

Display:
http://amzn.to/2jbmZqK

Buttons and Joysticks:
http://amzn.to/2jbncKG

USB Hub
http://amzn.to/2j1sGdB

Countersink Bit
http://amzn.to/2j4VEW6

Jigsaw Blades
http://amzn.to/2iIquHI

Clamping Tool Guide
http://amzn.to/2j1gvxu

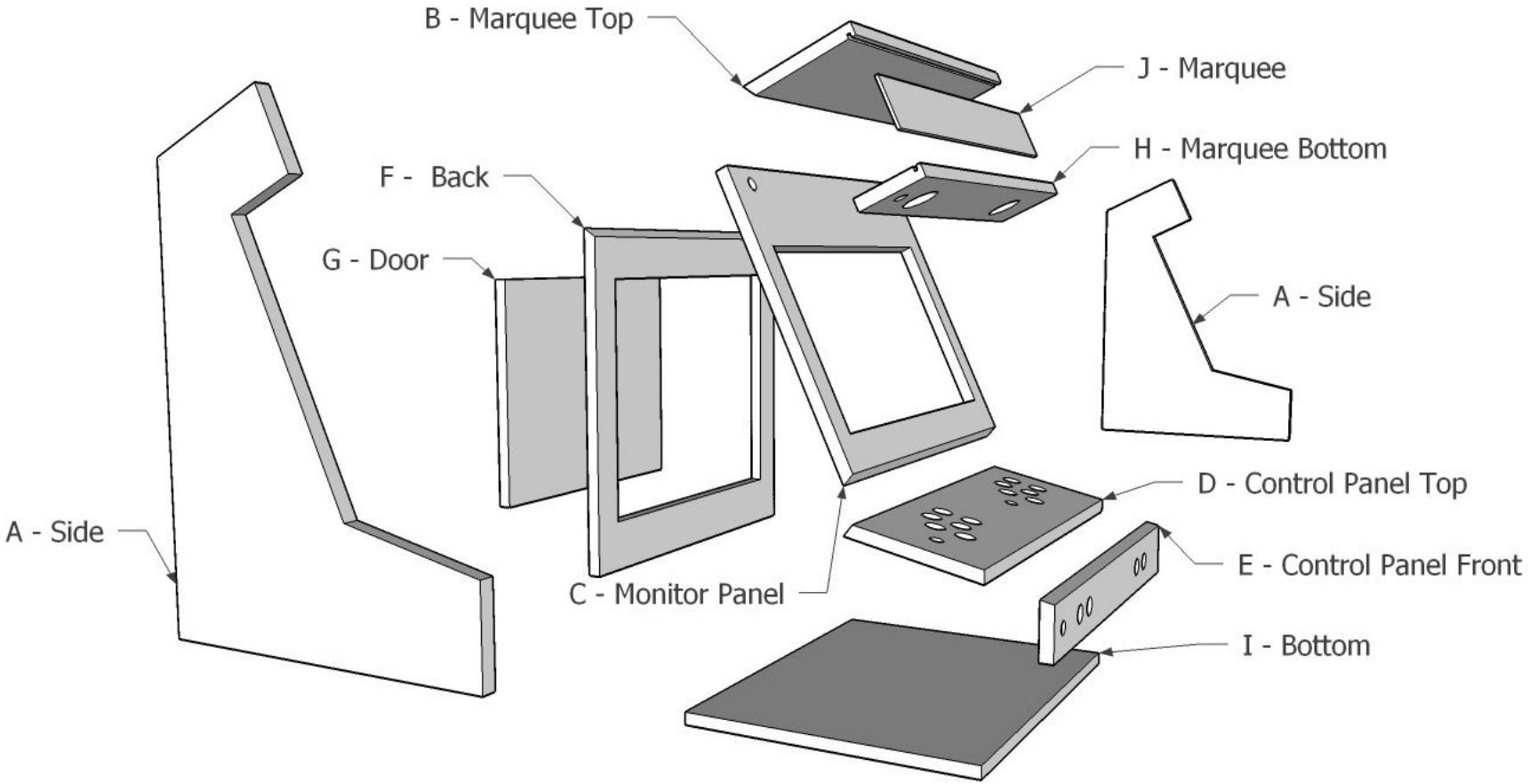
Wiping Poly
http://amzn.to/2j1qjre

GRR-Ripper
http://amzn.to/2iXnpmR

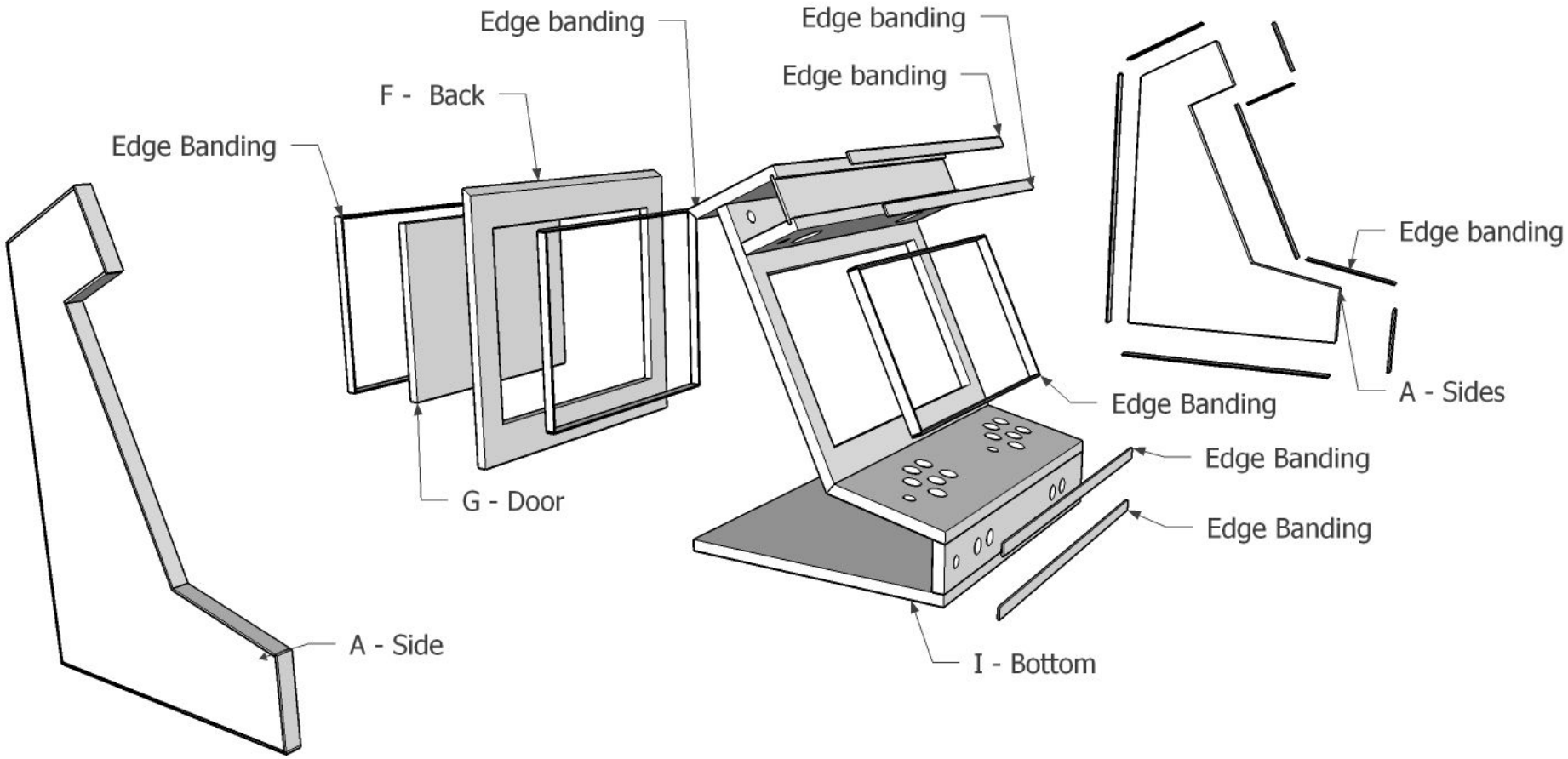
Self-Centering Drill Bits
http://amzn.to/2iWmqBf

Flush-Trim Bit
http://amzn.to/2jfkKBE

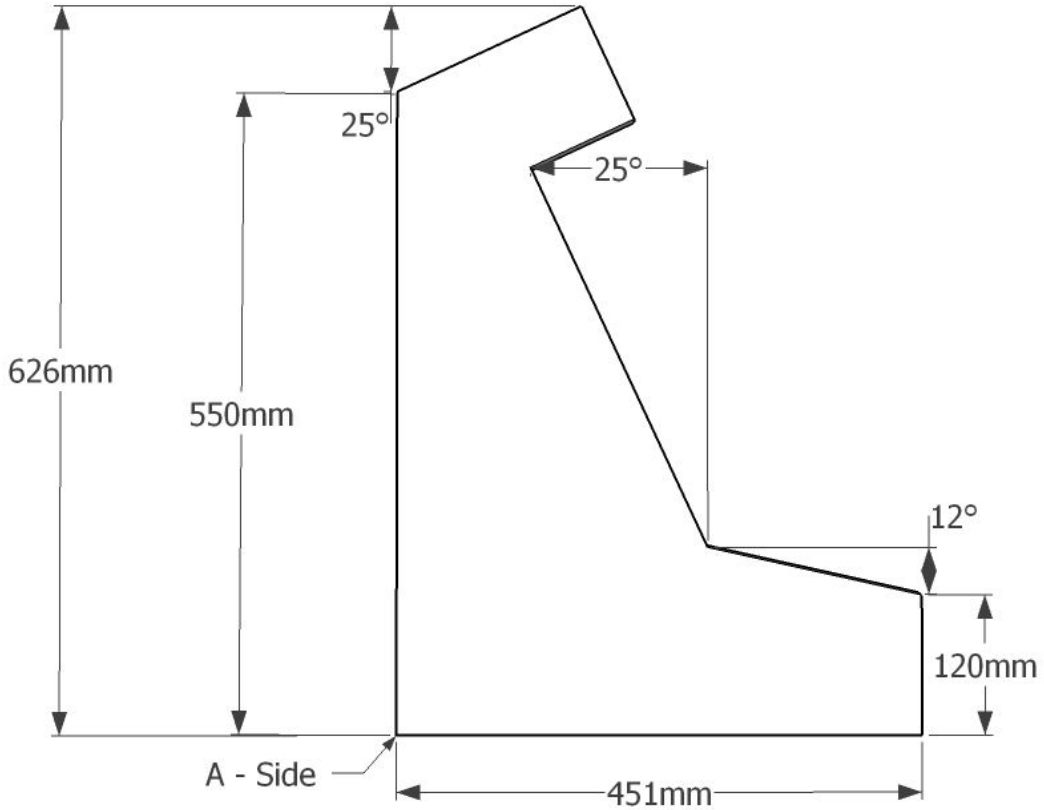
Exploded View



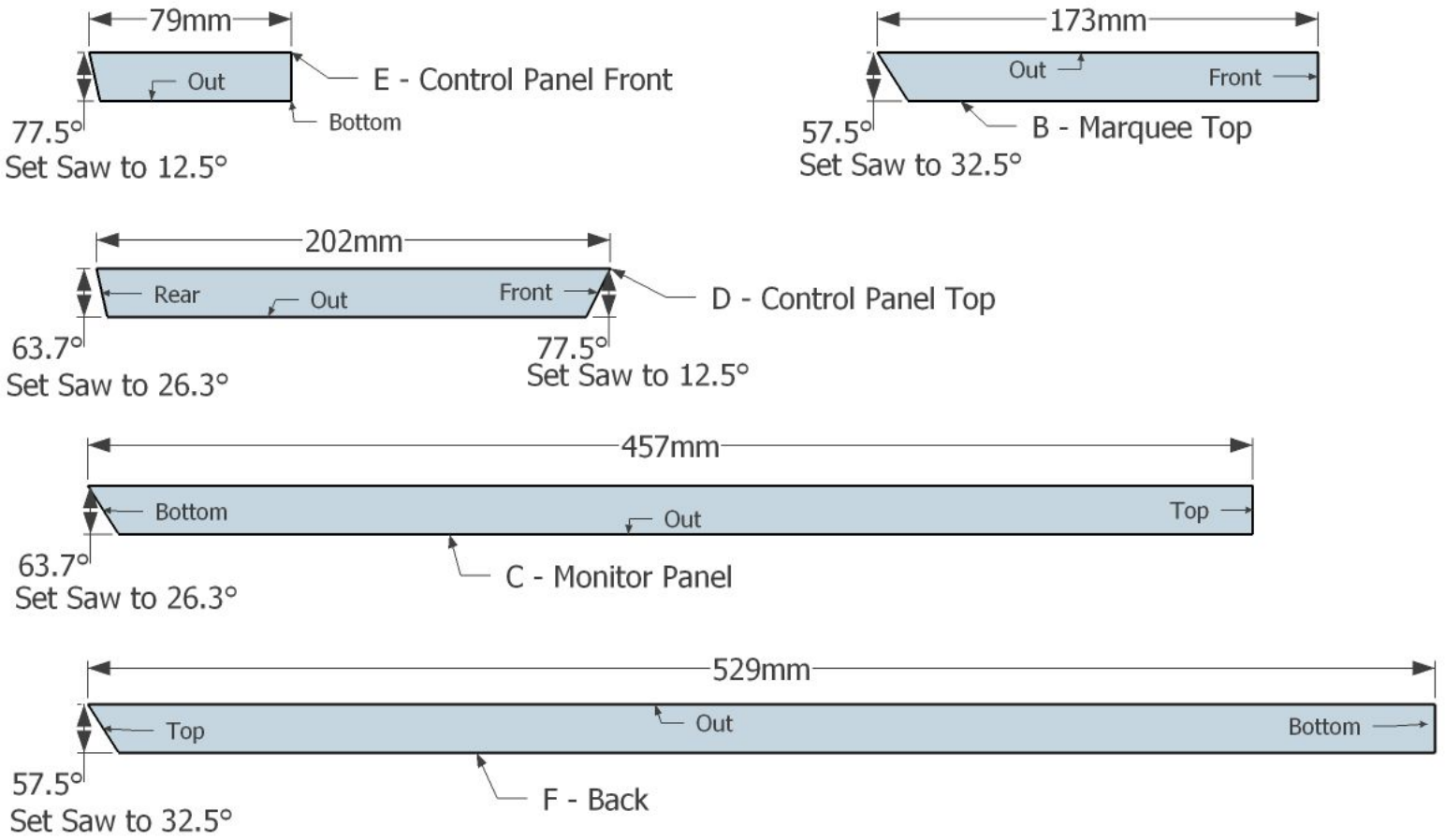
Banding Exploded View (optional)



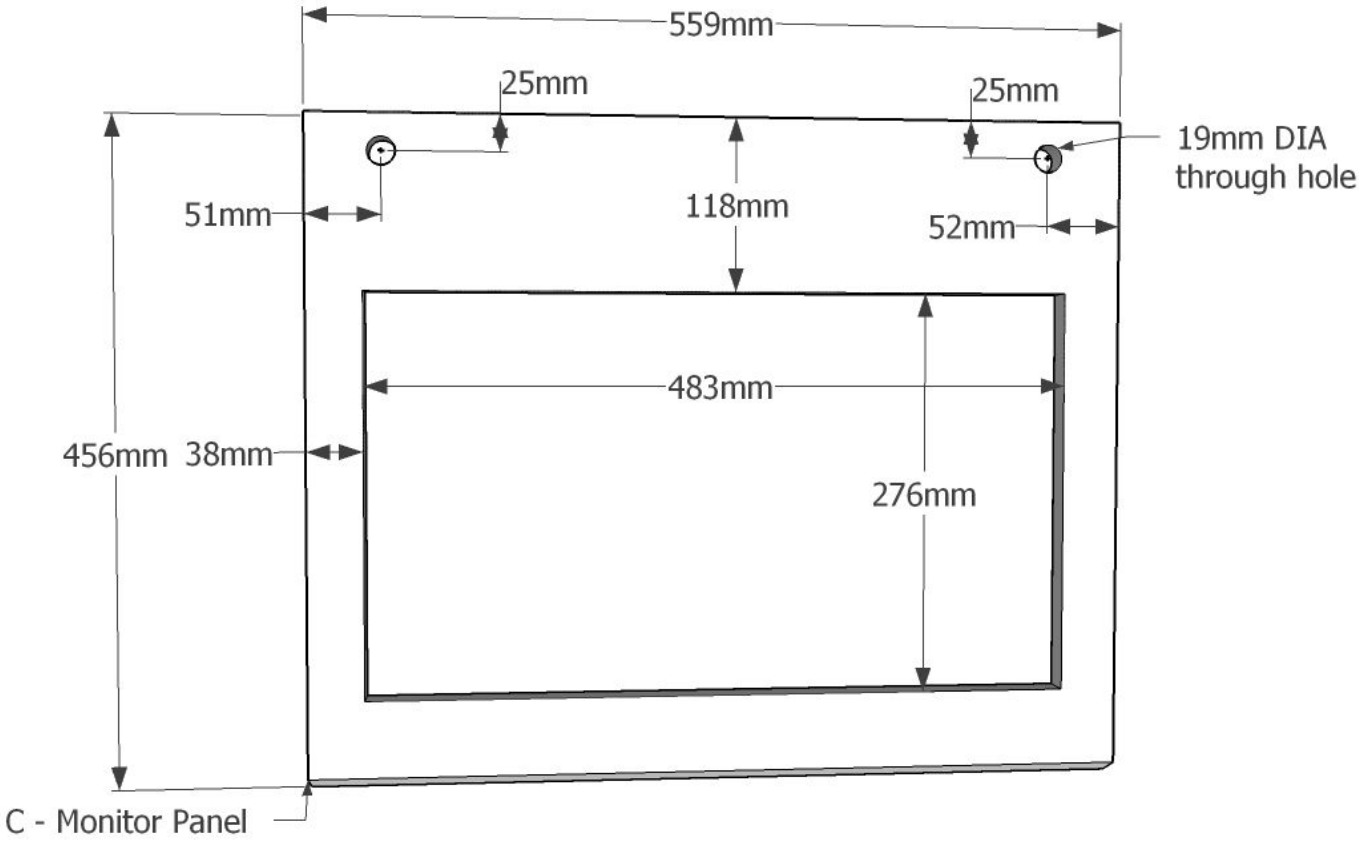
Sides



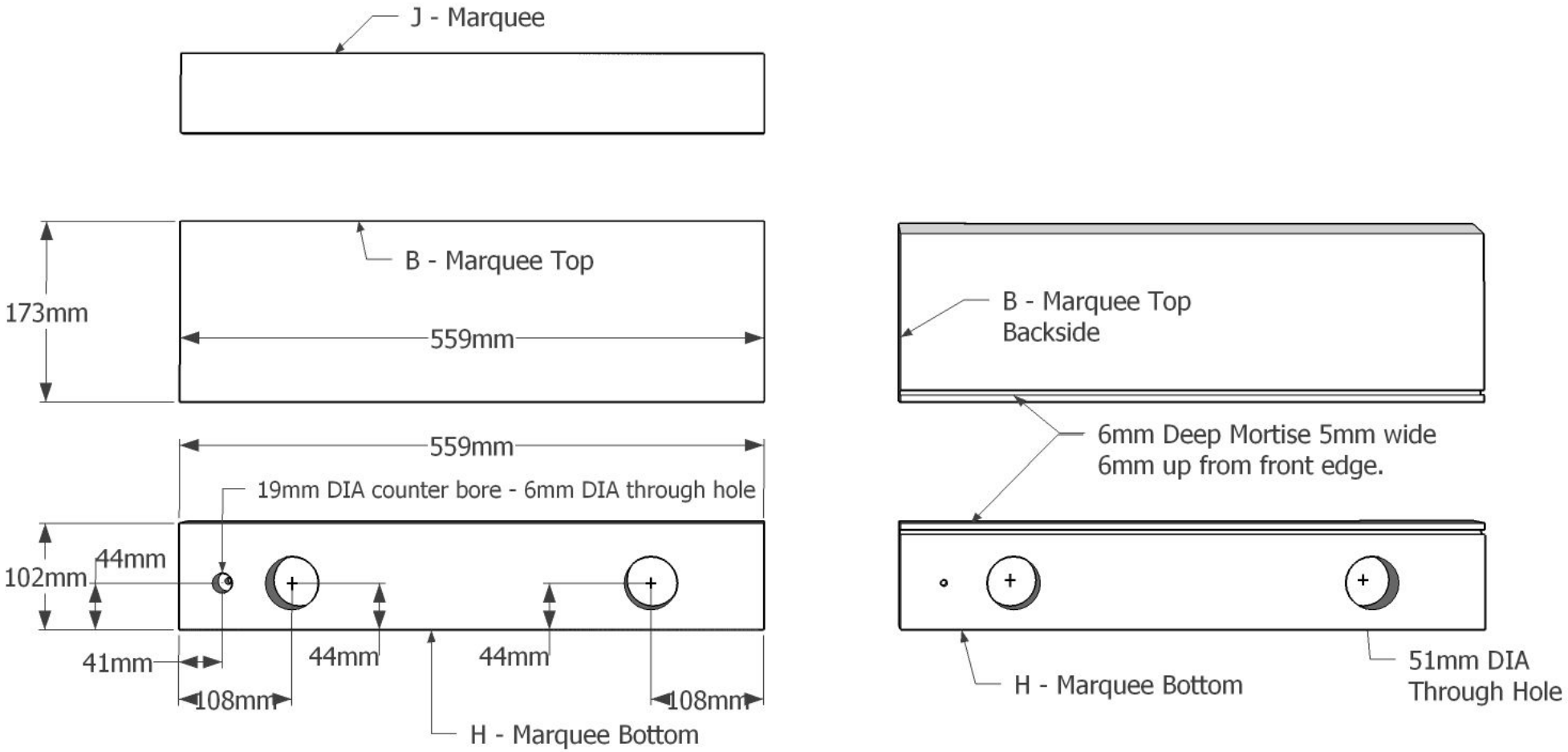
Bevel Cuts


79mm
Out
E - Control Panel Front
Bottom
77.5°
Set Saw to 12.5°
173mm
Out
Front
57.5°
B - Marquee Top
Set Saw to 32.5°
202mm
Rear
Out
Front
D - Control Panel Top
63.7°
Set Saw to 26.3°
77.5°
Set Saw to 12.5°
457mm
Bottom
Out
Top
63.7°
Set Saw to 26.3°
C - Monitor Panel
529mm
Top
Out
Bottom
57.5°
Set Saw to 32.5°
F - Back

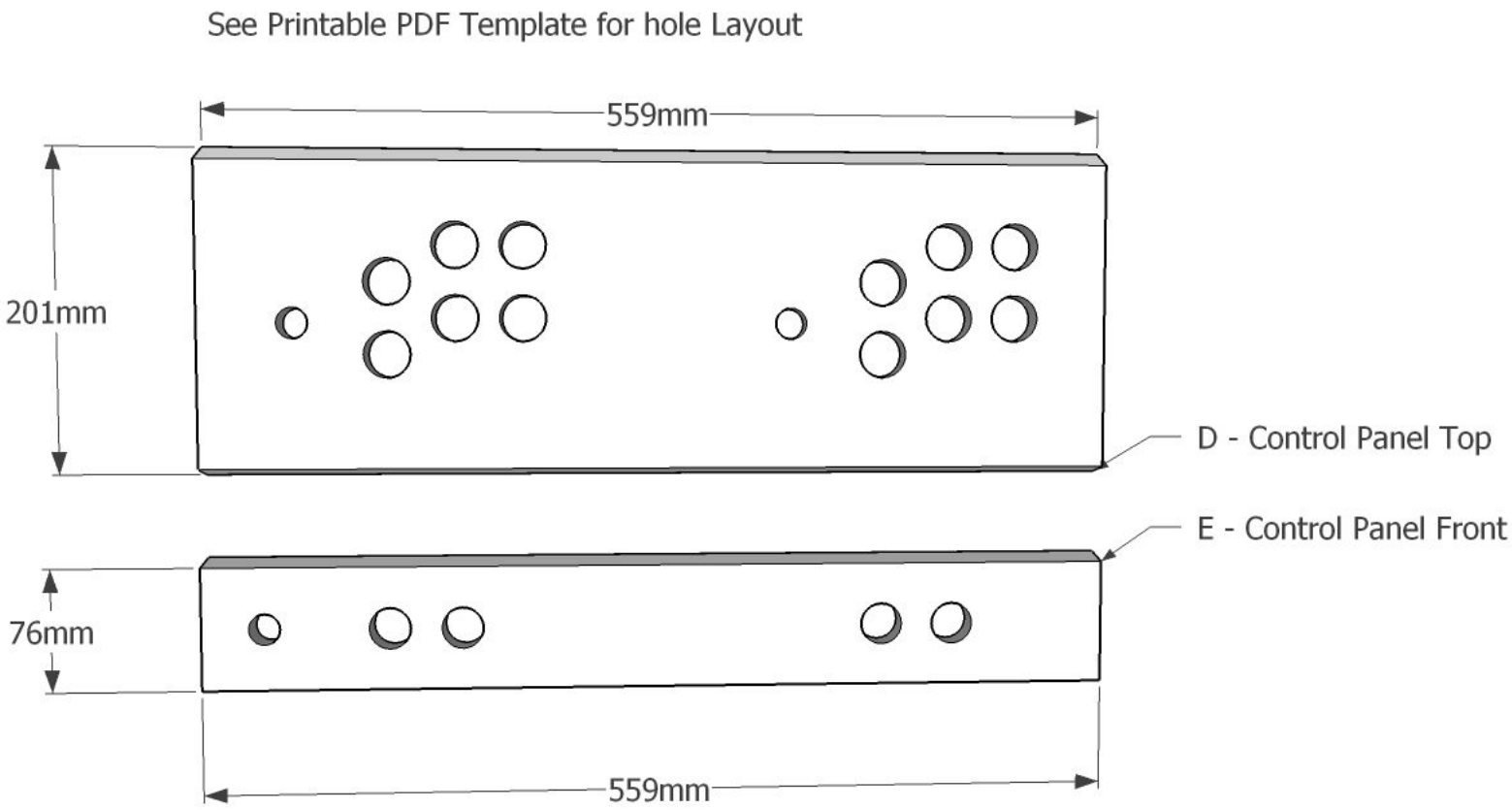
Monitor Panel



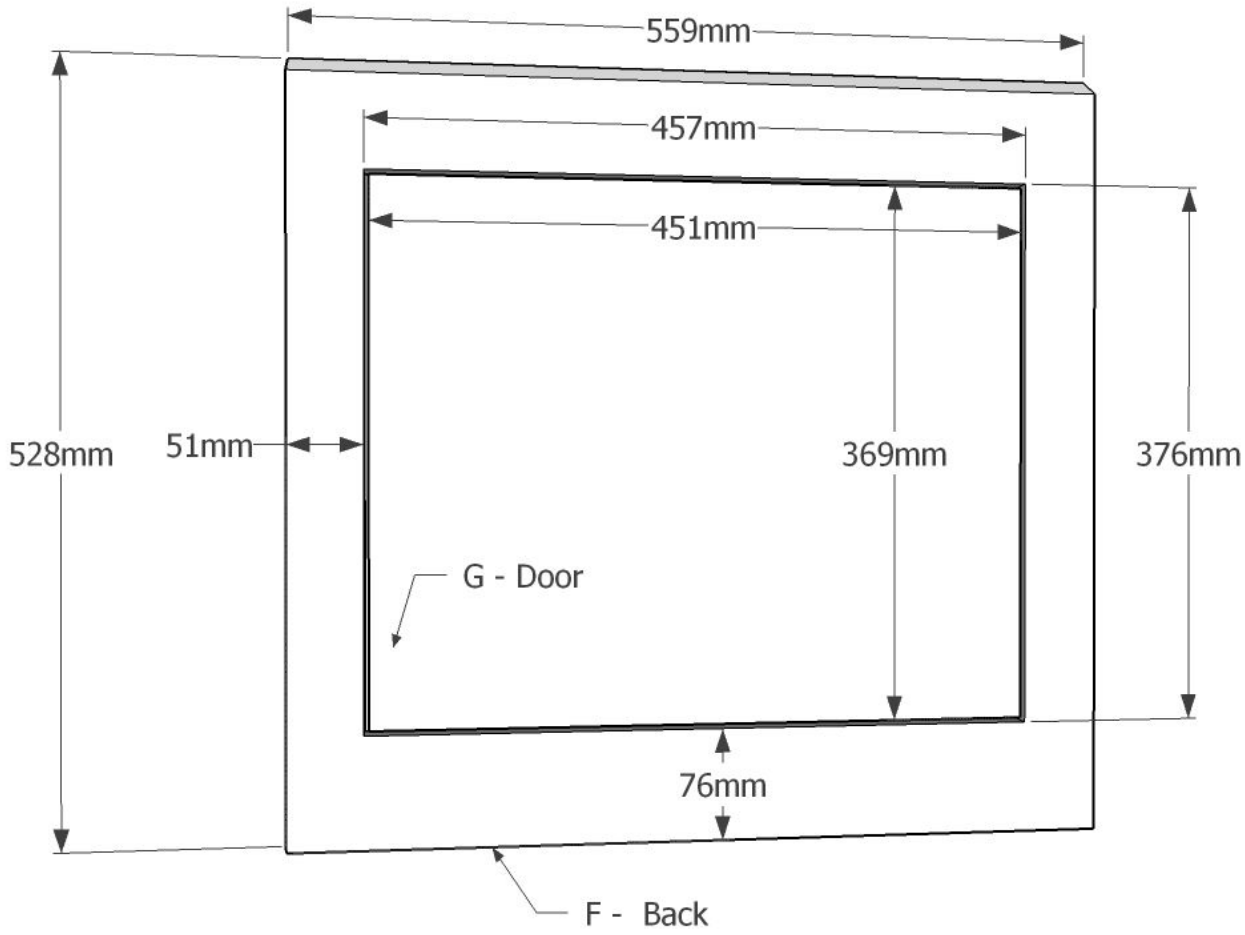
Marquee Pieces



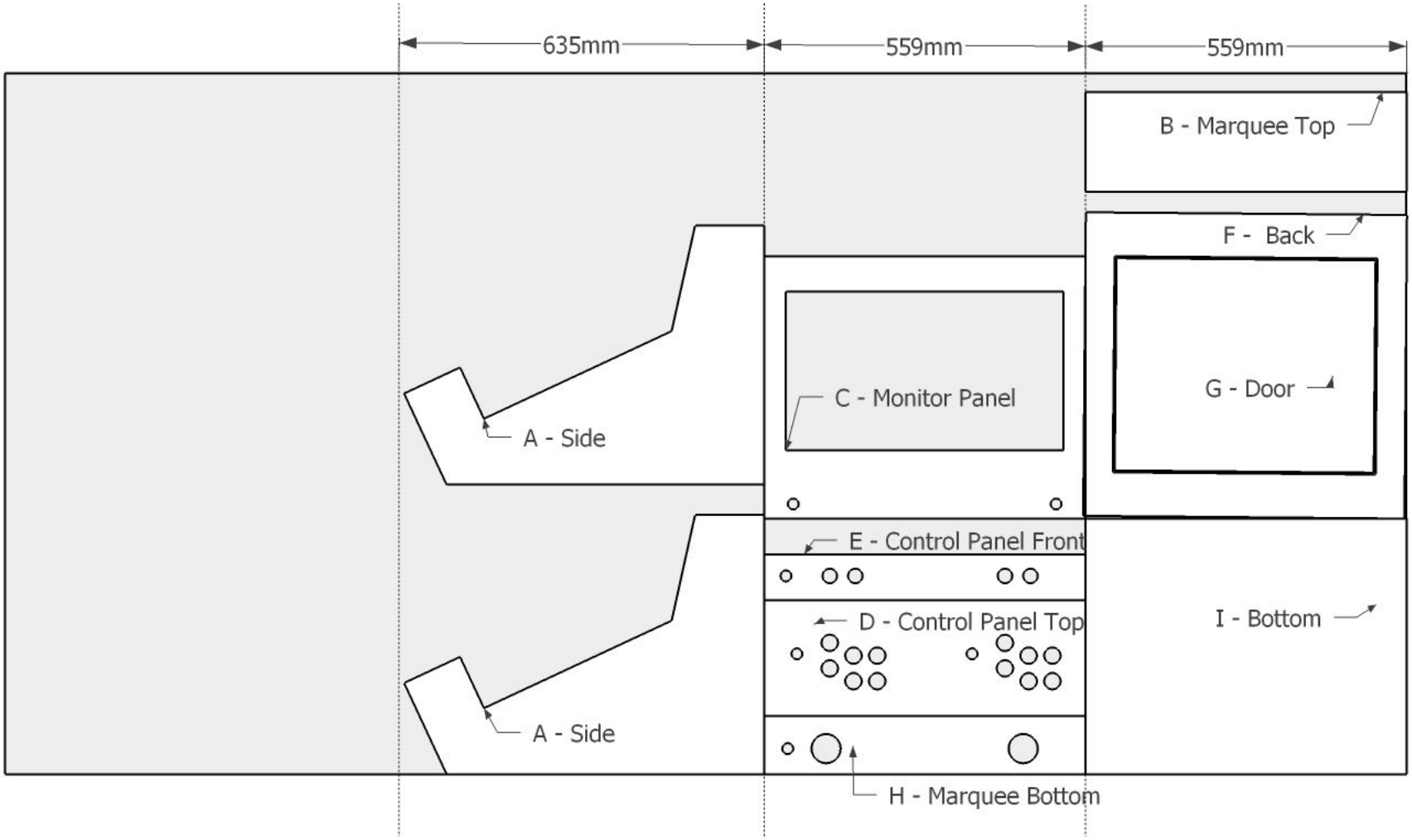
Components Layout



Back



Plywood Cut Diagram



Wiring Diagram

