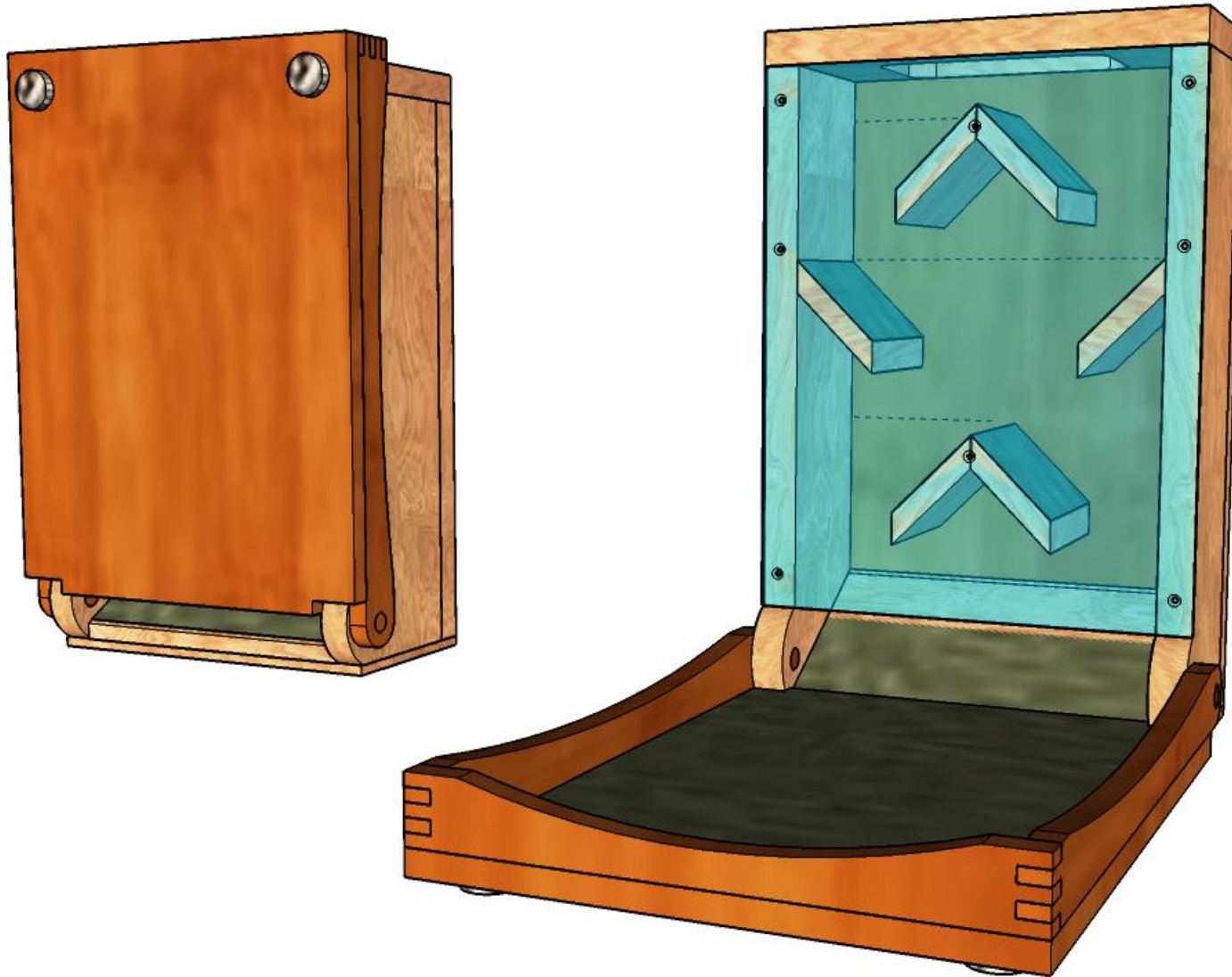




Dice Tumbler (Free Plan)



This **free** Dice Tumbler plan was designed purely for fun. If you're looking for a fun build that is easy to construct you found it.

The project can be made using shop scraps or nice wood the choice is yours.

The concept, like any other dice tower is to make sure the dice spin, rotate and change orientation. They must have enough room to change position as they travel through the tumblers. I added plexiglass to the front so you can watch the dice as they drop through.

Having a large catch tray at the exit enough to handle several dice at once. Curved sides allow easy access to the dice when they have finished their journey. You may want to round over the edges of the tray so there are no sharp edges. The tray also folds up when not in use for easier storage.

No longer will you hear *"That wasn't a fair roll"* when playing your favorite board game.

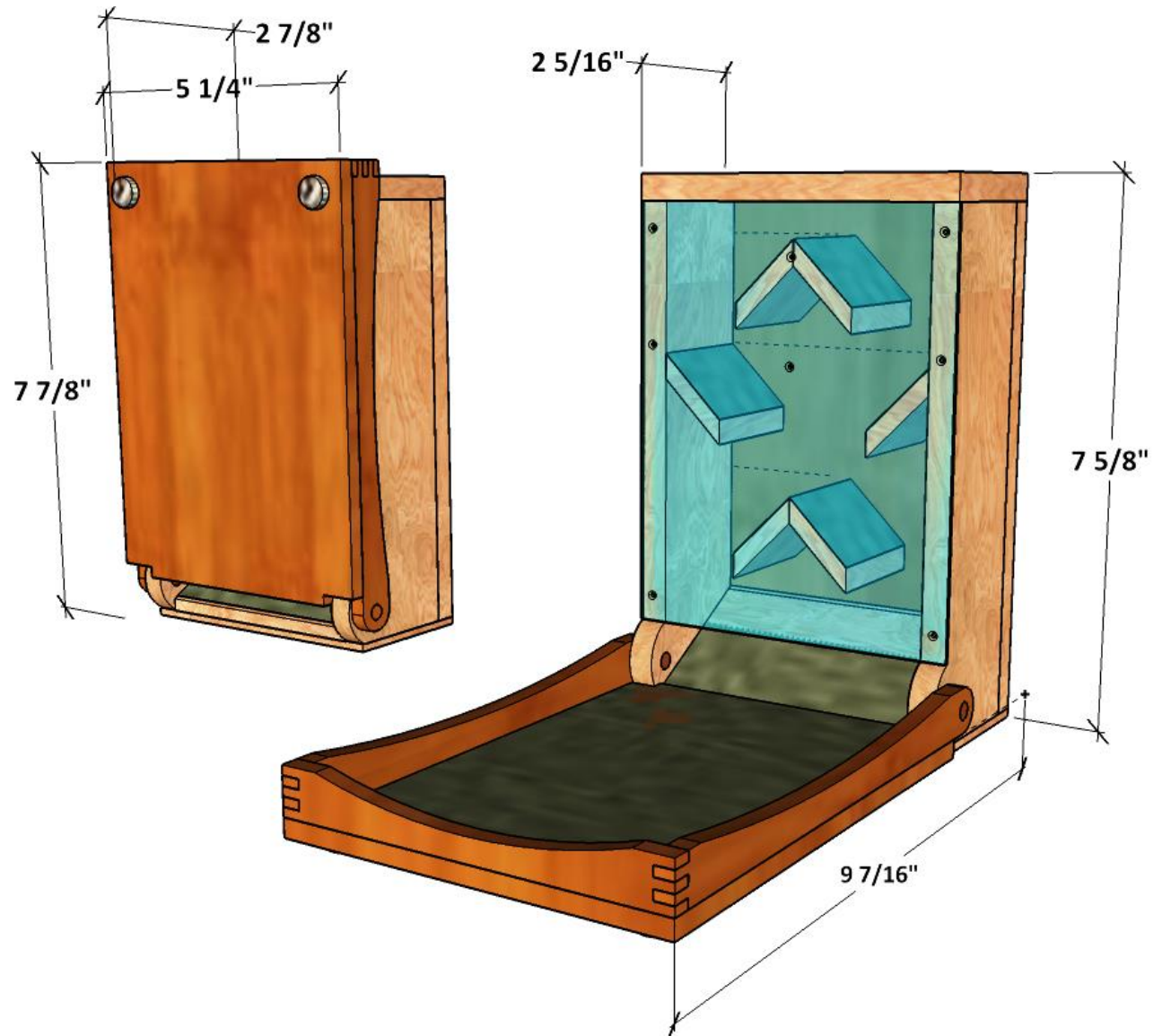
Have fun with your new Dice Tower!

Dice Tumbler (Free Plan)



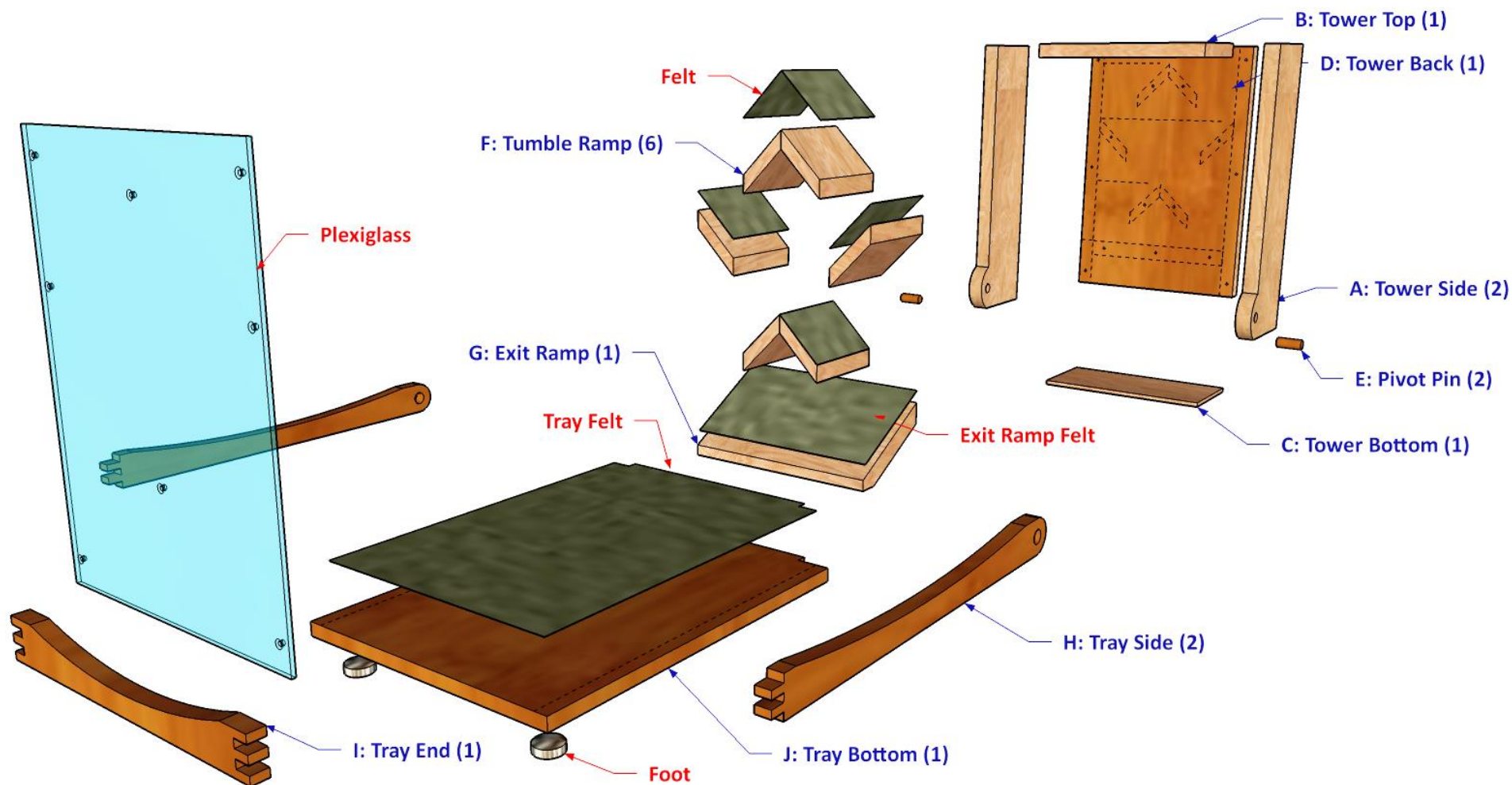
Overall Dimensions

The back, plexiglass and tumble ramps are secured with screws. The bottom of the tray is meant to be glued in place, however you could certainly add screws for durability.



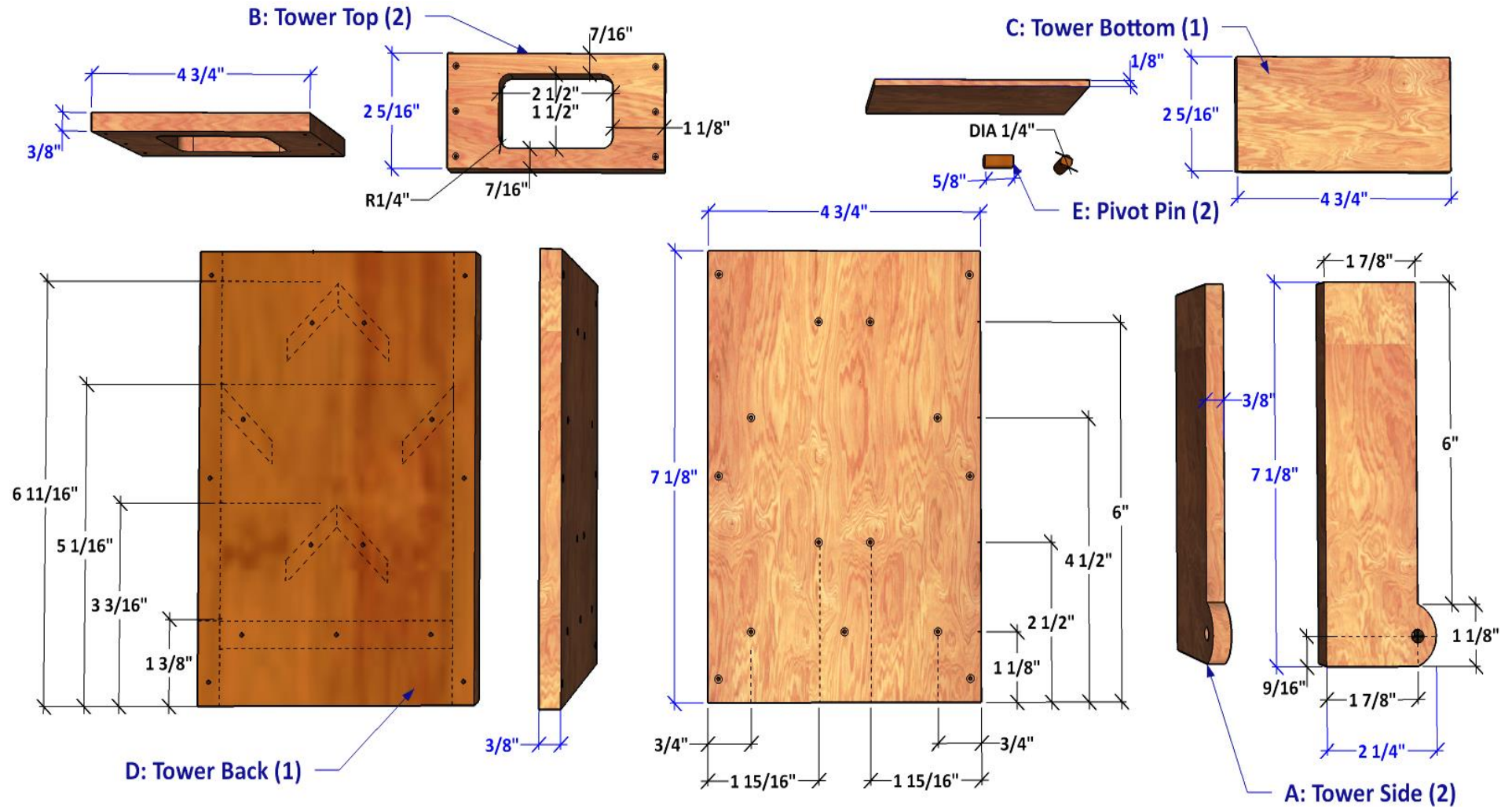
Dice Tumbler (Free Plan)

Exploded View



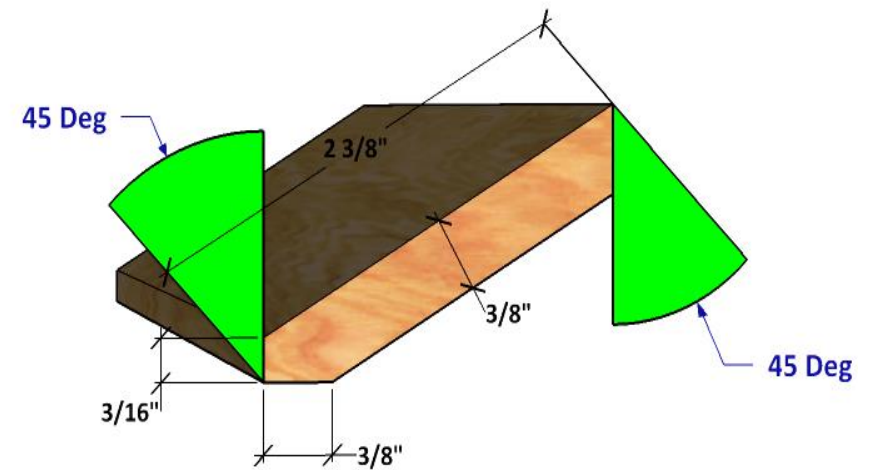
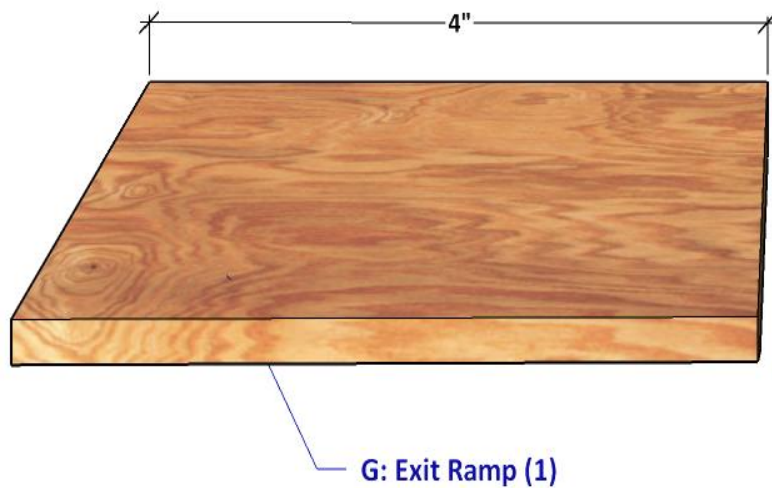
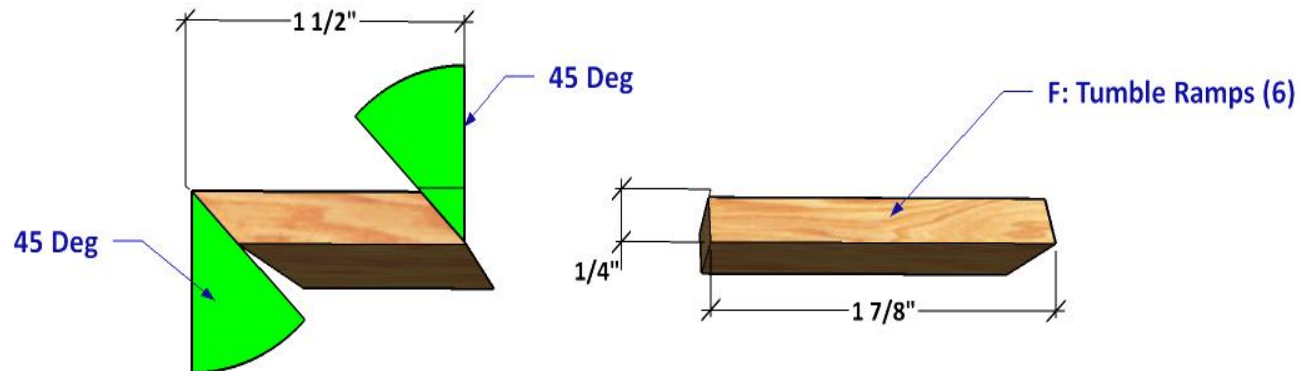
Dice Tumbler (Free Plan)

Tumbler Parts (A, B, C, D, E)





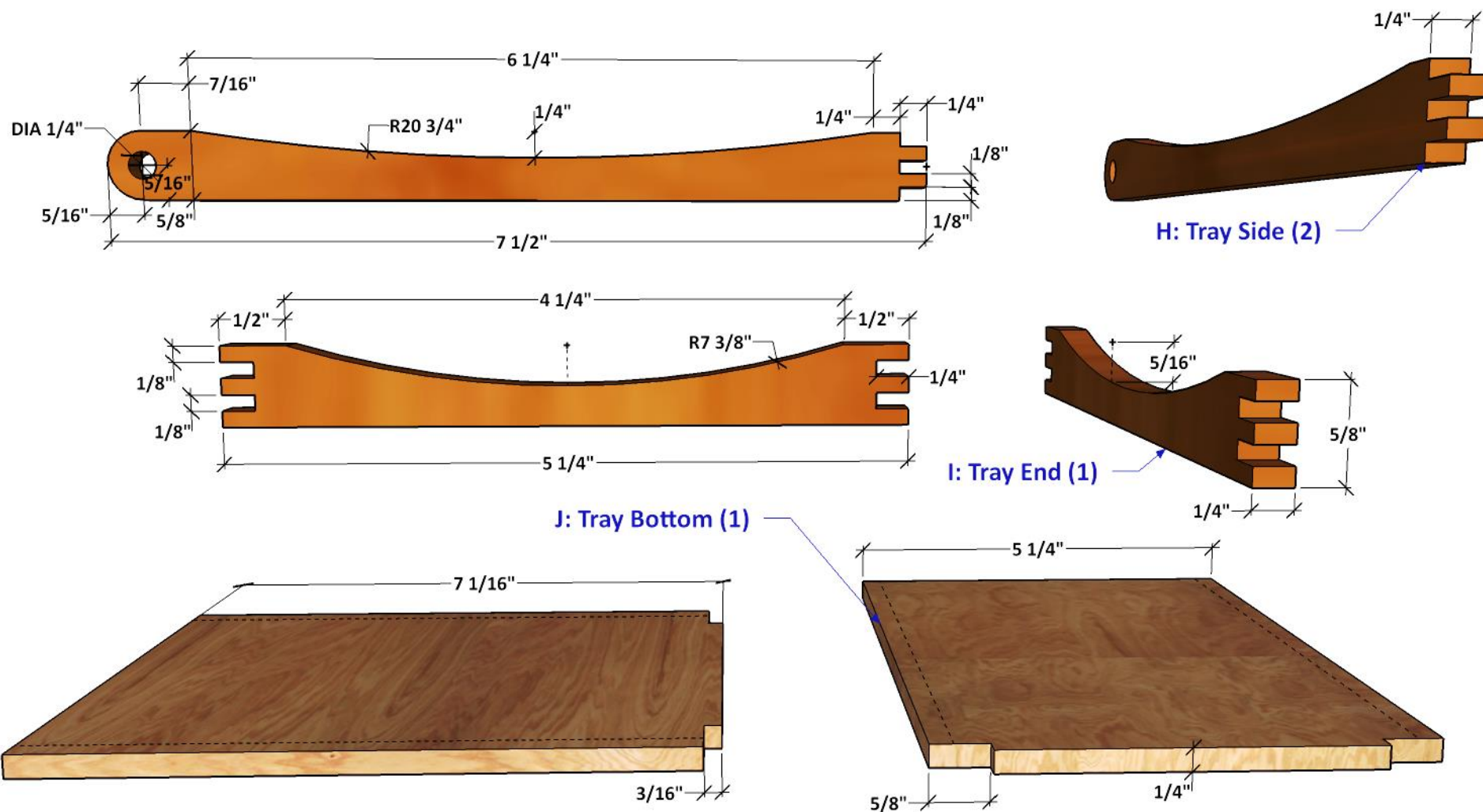
Tumbler Ramps



Note: All ramps have parallel 45 degree bevels



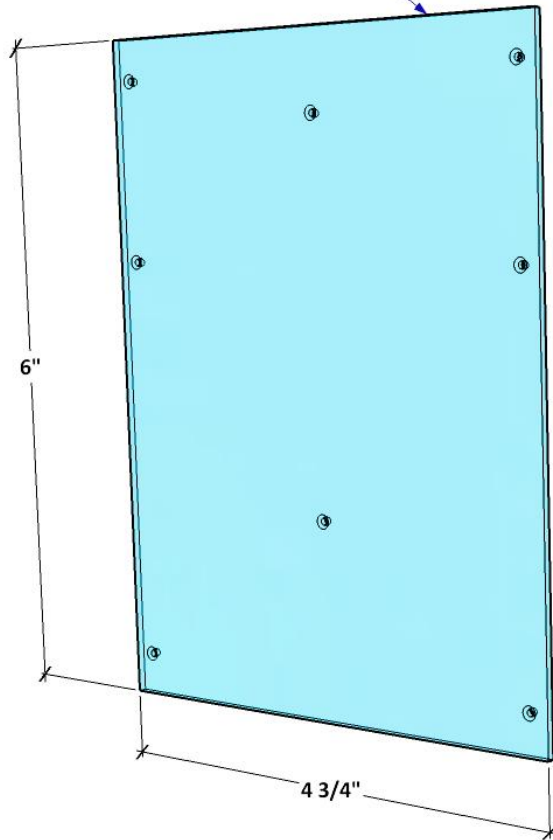
Tray Components (Parts H, I, J)



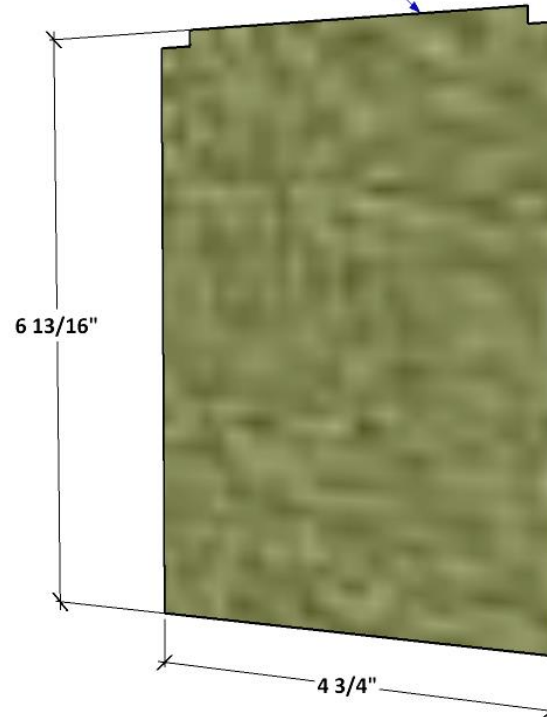


Miscellaneous Parts (Purchased)

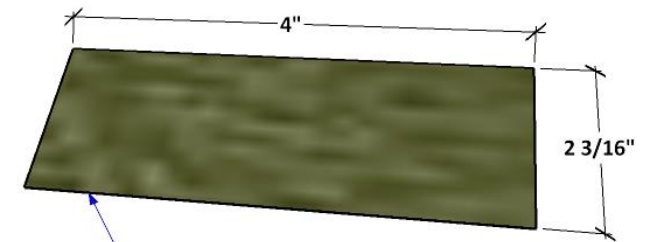
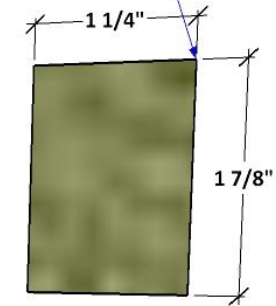
Plexiglass $1/16"$ x $4\ 3/4"$ x $6"$ (1)



Tray Felt $4\ 3/4"$ x $6\ 13/16"$ (1)



Ramp Felt $1\ 1/4"$ x $1\ 7/8"$ (6)



Exit Ramp Felt $2\ 3/16"$ x $4"$ (1)



Foot Pads (2)

Material & Machining Required →



Material List

ID #	QTY	Description	T"	W"	L"	Material	Notes: TBE / MBE = Tenon or Mortise Both Ends, ALSO: Machining required for workpiece	Page
A	2	Tower Sides	3/8	2 1/4	7 1/8	Choice	Trimmed to 1 7/8 x 6", Bulge	4
B	1	Tower Top	3/8	2 5/16	4 3/4	Choice	Rectangular Hole	4
C	1	Tower Bottom	1/8	2 5/16	4 3/4	Choice		4
D	1	Tower Back	3/8	4 3/4	7 1/8	Choice		4
E	2	Pivot Pins	1/4" Dia.		5/8	Hardwood	Brass pins would look good here	4
F	6	Tumble Ramps	1/4	1 1/2	1 7/8	Choice	45 Degree Bevels	5
G	1	Exit Ramp	3/8	2 3/8	4	Choice	Three (3) Bevel Cuts	5
H	2	Tray Sides	1/4	5/8	7 1/2	Choice	Box Joints (1 End), Curve, (Optional Roundover)	6
I	1	Tray End	1/4	5/8	5 1/4	Choice	Box Joints (Both Ends), Curve, (Roundover)	6
J	1	Tray Bottom	1/4	5 1/4	7 1/16	Choice	Notches	6
Miscellaneous								
	1	Plexiglass	1/16	4 3/4	6			7
	1	Tray Felt		4 3/4	6 13/16			7
	6	Ramp Felt		1 1/4	1 7/8			7
	1	Exit Ramp Felt		2 3/16	4			7
	2	Feet						
	24	woodscrews	#6		3/4		Case Screws	
	8	woodscrews	#4		1/2		Plexiglass Screws	

Happy Woodworking!