

HART™



Ruler

PROJECT PLAN

Finished Dimensions: 9-1/4"W x 60"H x 3/4"D


Skill Level: Beginner


Materials

Item	Qty
1" x 10" x 5' Board*	1
Sandpaper**: 150g, 220g & 320g	
Hart Markers	

* Board Dimensions are "nominal". Actual dimensions are smaller due to lumber industry standards. Cuts are actual length.

** Starting grit will depend on board surface condition, a rough surface will require starting with a coarse grit first.

 Grit is measured in the coarseness of the particles on the sandpaper. The lower the grit number, the coarser the paper. Heavy sanding would require 60 to 80 grit, medium sanding would require 120 to 220 grit, and finish sanding would require 320 to 400 grit. Super fine sanding would be 600 grit and higher.

 A select/premium board or plywood comes with a smoother surface finish. It is clear or has very few tight knots, and it will have straight and sharp edges. This grade of wood pairs well with other boards or panels better and requires less time to sand and finish.

Tools Used



Circular Saw



Orbital Sander



Tape Measure



Sharp Tip Marker



Chisel Tip Marker



20V 1.5Ah Battery



20V 4.0Ah Battery




Charger



Safety Glasses

Also Needed:
Clamps

 **Battery Tip:** A 4.0 Ah battery is recommended to be paired with high amp draw tools for maximum efficiency.

Lumber Cut List

Board*	Description	Cut to	Qty
1" x 10"	Ruler	60"	1

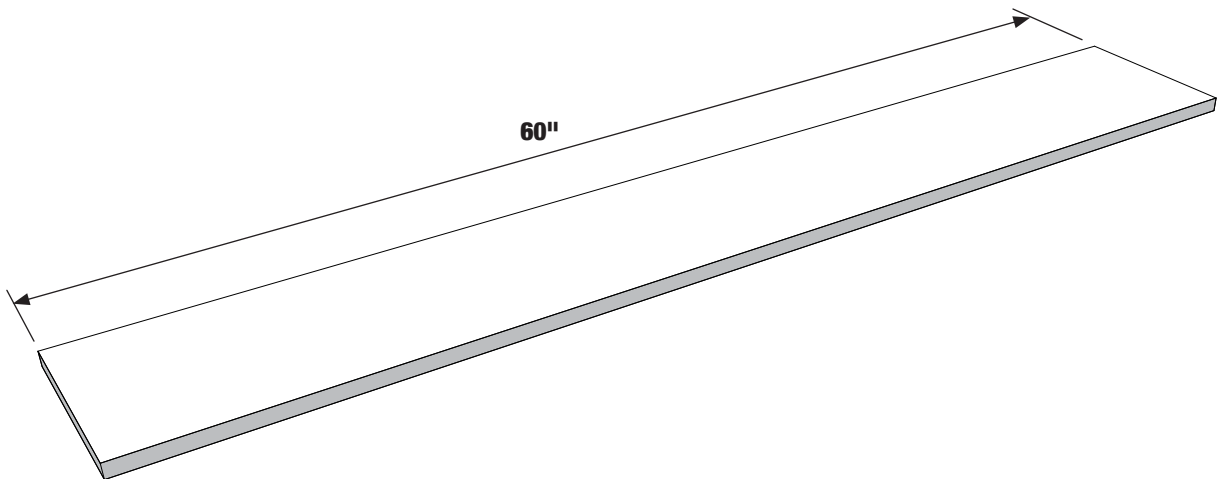
* Board dimensions are "nominal." Actual dimensions are smaller due to lumber industry standards. Cuts are actual length.

Lumber & Sheet Layout Guide

1"x 10"



Lumber & Sheet Cut Layout Guide



Assembly Instructions

Step 1

Cut out all material using the Lumber & Sheet Cut Layout Guide.

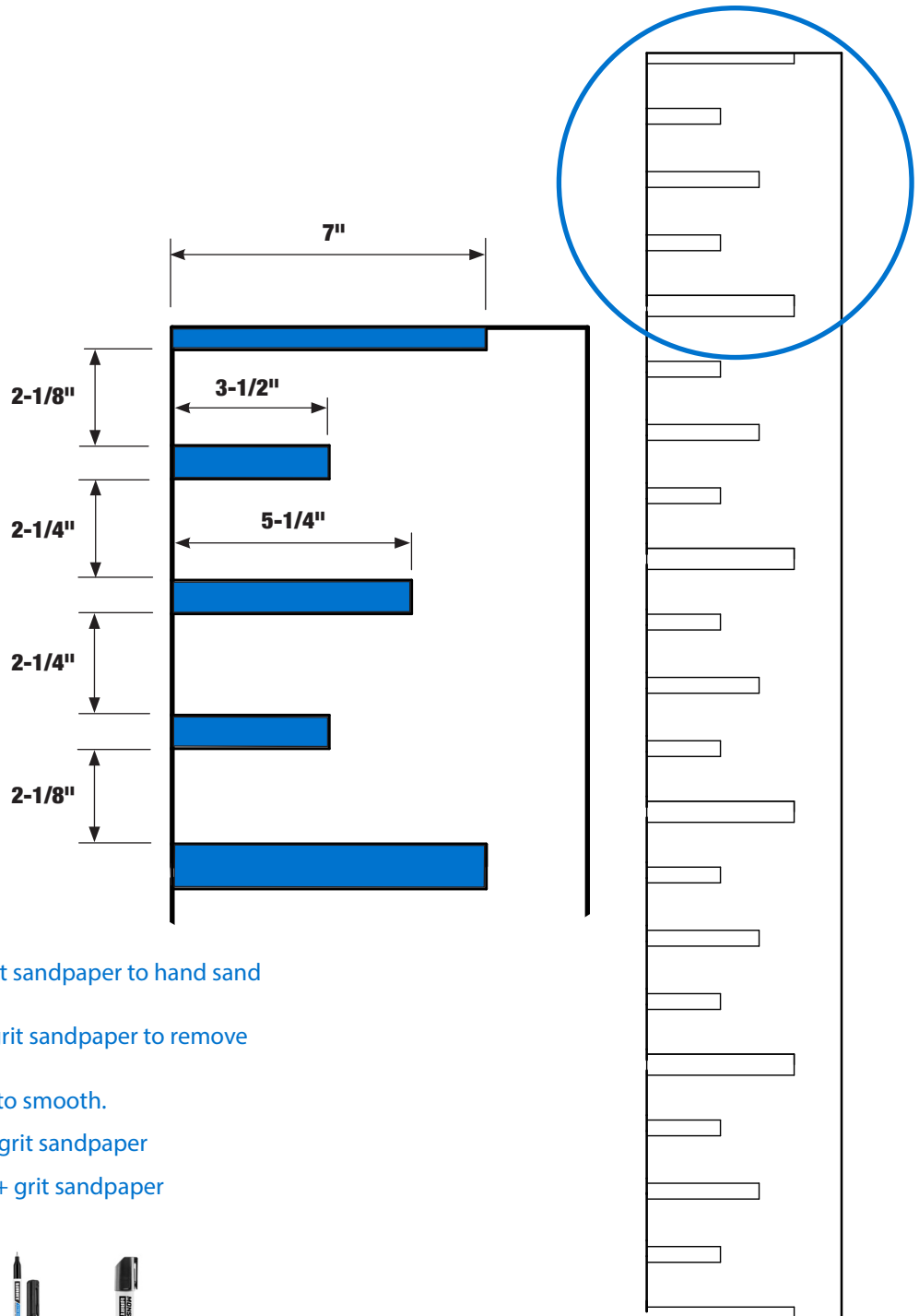


Step 2

Sand and finish board to your desire.

Follow the diagram to create the increments. The starting and ending marks are 1/2" wide. The half and quarter marks are 3/4" wide. The full foot marks are 1" wide. Follow this pattern for the full length of the ruler.

Lines can be drawn with a Hart Sharp Tip Marker and filled in with a Hart Chisel Tip Marker.



Rougher finish – Use 60-80 grit sandpaper to hand sand with the grain of the wood.

Smoother finish – Use 60-80 grit sandpaper to remove scratches & imperfections.

Followed by using 120-220 grit to smooth.

Finish Sanding – Use 320-400 grit sandpaper

Super fine sanding – Use 600+ grit sandpaper



Step 3

You may choose to put a clear protective finish on the ruler before displaying.

Ruler project complete!

