

## Opticutter:

- Going forward we have to create the nesting BOM for all floor parts that have a **1/4” thickness**.
- For that, we can use “Opticutter” which is a free tool & you can use the below link.
- Link: <https://www.opticutter.com/cut-list-optimizer#form>
- Refer to the next slide for the setting.

- Kerf thickness should be 0.1875" (3/16").
- Select the "Labels on panels" option.
- Select the unit Decimal inches or Fractional inches.



## Free cutlist optimizer

⚠ Looking for [linear cut calculator](#) or [piece count calculator](#) ?

Powerful cutlist optimizer designed to find optimal cut layouts. Type the sheet length and width, cutting kerf and required panel sizes and quantities. Cutlist optimizer will generate optimal panel nesting plan in couple of seconds.

Import

Kerf / Blade thickness

0.1875"

Labels on panels



Consider grain direction



Stock groups



Beta



Units: Fractional inches (15 3/4")

Generic/Metric (15.75)

Decimal inches (15.75")

Decimal feet & inches (1' 3.75")

Fractional inches (15 3/4")

Fractional feet & inches (1' 3 3/4")

OR

Available stock panels

#	Length	Width	Quantity
---	--------	-------	----------

➤ All four sizes of raw materials (given in the below snap) should be used for the calculation.

Part	Description
804-05139	Plate 1/4" x 120" x 338" Long
804-05140	Plate 1/4" x 120" x 314" Long
804-05141	Plate 1/4" x 120" x 276" (23' 0") Long
804-05142	Plate 1/4" x 120" x 230" Long

- Actual size of raw materials should not be used, reduce 1" per side in length & width, and the remaining size only needs to be used in the tool as shown below.
- No need to provide the QTY details for raw materials.

optiCutter

FeaturesShowcasePricingFree CalculatorsContact UsLog In

Kerf / Blade thickness3/16"

Labels on panels☒

Consider grain direction☐

Stock groups☐

BetaPricesTrim the edges☐

Available stock panels

#	Length	Width	Quantity	Actions
1	336"	118"		<input type="button" value="Delete"/>
2	312"	118"		<input type="button" value="Delete"/>
3	274"	118"		<input type="button" value="Delete"/>
4	228"	118"		<input type="button" value="Delete"/>

Note: Stock panels quantity is not required if you have many panels of these dimensions.



- All parts that are 1/4" thick listed in the metal fab BOM need to be entered in the tool.
- We should refer to the part drawing for sizes.
- Refer below snap and the next slide for a sample.

ITEM#	PART#	LEGEND	ITEM NO	DESCRIPTION	QTY.	THICKNESS
STRUCTURAL STEEL						
1	1253147	A	1	W12x30	1	
PLATE						
15	1253148			FLOOR PLATE	1	1/4"
16	1253150			FLOOR PLATE	1	1/4"
17	1001601			GROUNDING PAD, FOR #4/0 AWG	3	1"
18	1015168			CONNECTING PLATE	8	3/8"
19	1015166			CONNECTING PLATE	8	1/4"
20	1006294			FLOOR STIFFENER PLATE	32	1/2"
21	1057763			LIFTING LUG WELDMENT	12	-
22	1076991			LIFTING BRACKET ASSEMBLY	8	-
23	1272806			MOUNTING CLIP	4	3/8"
24	1293819			TIE PLATE	2	1/2"
HARDWARE						
25	853-00522			BOLT, 3/4"-10 X 2 1/4" HEAVY HEX A490 PLAIN FINISH	40	-
26	855-00084			LOCKWASHER, 3/4" GRADE 8 PLAIN FINISH (USE WITH A490 BOLTS)	40	

- Provide the **Length**, **Width**, and **Qty** of all parts in the respective columns.
- Provide the **Item#** in the **Label** column.
- Extra rows need to be deleted and should have only the required rows.
- Run the calculation after filling in all required inputs.

4

228

118

⊗

Note: Stock panels quantity is not required if you have many panels of these dimensions.

⊕

Required panels

#	Length	Width	Quantity	Label	Actions
1	164.5	95.875	1	15	⊗ Delete
2	164.5	116.375	1	16	⊗ Delete
3	6.625	6	8	19	⊗ Delete

⊕ Add

⏮ Calculate

💬 Feedback

- After running the tool, it will give the **required raw material qty with size**.
- Take the print and submit it to QC while submitting the nesting BOM for review. As all are manual entries, we need to verify all details while reviewing the nesting BOM. So print is a must.
- From the output, we need to create the nesting BOM in the Nesting summary sheet

**Result**

New Edit Feedback Units: Fractional inches (15 3/4") Print / Export

Solution Configuration

**Required stocks**

Stock dimensions	Quantity
336" x 118"	1
228" x 118"	1
<b>Total</b>	<b>2</b>

Kerf / Blade thickness 3/16"

Total panels area (Quantity)	47689 11/16" (13)
Used stocks total area (Yield)	66552" (71)
Total cutting layouts	
Total cuts length (Quantity)	1421 9/16"

Cutting layouts

Layout ID	Repetition	Stock dimensions	Layout settings								
A	1x	336" x 118"	<table><tbody><tr><td>Panel</td><td>0</td></tr><tr><td>164 1/2" x 95 7/8" / 15</td><td>1</td></tr><tr><td>6" x 6 5/8" / 19</td><td>2</td></tr><tr><td></td><td>3</td></tr></tbody></table>	Panel	0	164 1/2" x 95 7/8" / 15	1	6" x 6 5/8" / 19	2		3
Panel	0										
164 1/2" x 95 7/8" / 15	1										
6" x 6 5/8" / 19	2										
	3										

Item Description	Raw Material Number	Qty.	Purchase Length (inches)
W12x30	804-05101	2	700
W10x17	804-05100	2	308
L3x3x1/4	804-14010	2	480

  

Nesting BOM for 1/4" Floor Plates			
Item Description	Raw Material Number	Qty.	Purchase Size (inches)
1/4" PLATE	804-05139	1	120" X 338"
1/4" PLATE	804-05142	1	120" X 230"

  

FLOOR METAL FAB BOM

NestingSummary

+