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PRODUCT / PART SPEC	<input checked="" type="checkbox"/>	WILL BE MODIFIED QC / ENG (MX)
QC CHECKLIST	<input checked="" type="checkbox"/>	WILL BE MODIFIED QC / ENG (MX)
PART DRAWING	<input checked="" type="checkbox"/>	WILL BE MODIFIED QC / ENG (MX)
ASSEMBLY DRAWING	<input type="checkbox"/>	WILL BE MODIFIED QC / ENG (MX)
INSTR SHEET	<input checked="" type="checkbox"/>	WILL BE MODIFIED QC / ENG (MX)
PROCESS VISUAL AIDS	<input checked="" type="checkbox"/>	WILL BE MODIFIED QC / ENG (MX)
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PICTURES, DRAWINGS, ETC.



Hemtack
S.A. De C.V.

ENGINEERING REPORT

REPORT TITLE:	IMPROVED HR DESIGN SLOT POSITION FOR 953/958	REPORT DATE:	08/13/2021
REPORT NUMBER:	ENGREP 047	CREATED BY:	J. Majli Jauregui Ruiz
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1. Background:

Based on an improvement proposal, a design change was requested with the objective of eliminating the need to perform the slot routing operation in the MTM production area. The proposal considers a specification change in regards of the location of the slots at each end of the woven wood shades headrail.

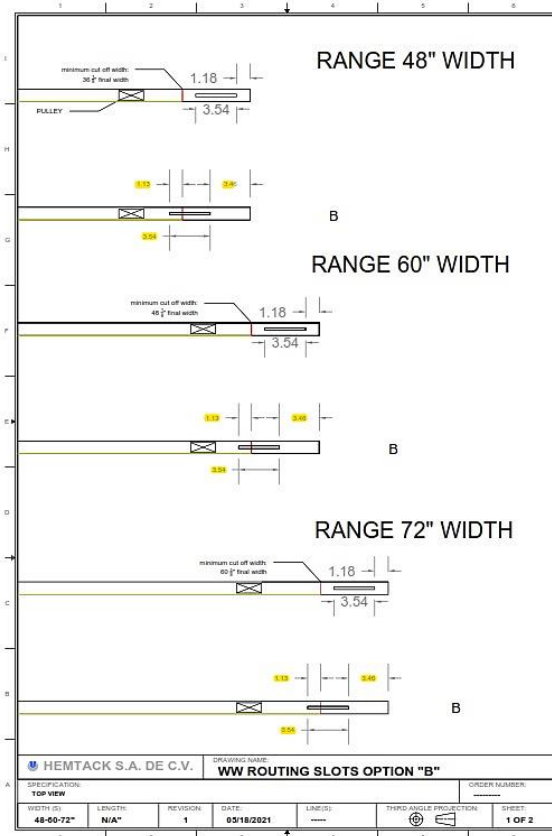


Figure. 1 DESIGN CHANGE PROPOSAL.

2. Analysis:

- During the inspection of the six samples provided by the manufacturer, we found that the new specification of the slot location was 3.5" from each end the head. This is in accordance to our design change proposal.

SAMPLE #	SKU	OPTION	SIZE (INCH) W	SIZE (INCH) L	COLOR
1	953	B	48	72	131
2	958		48		
3	953		60		
4	958		60		
5	953		72		
6	958		72		

Table 1. SAMPLE SCHEME FOR CUTTING TESTS, Option B.

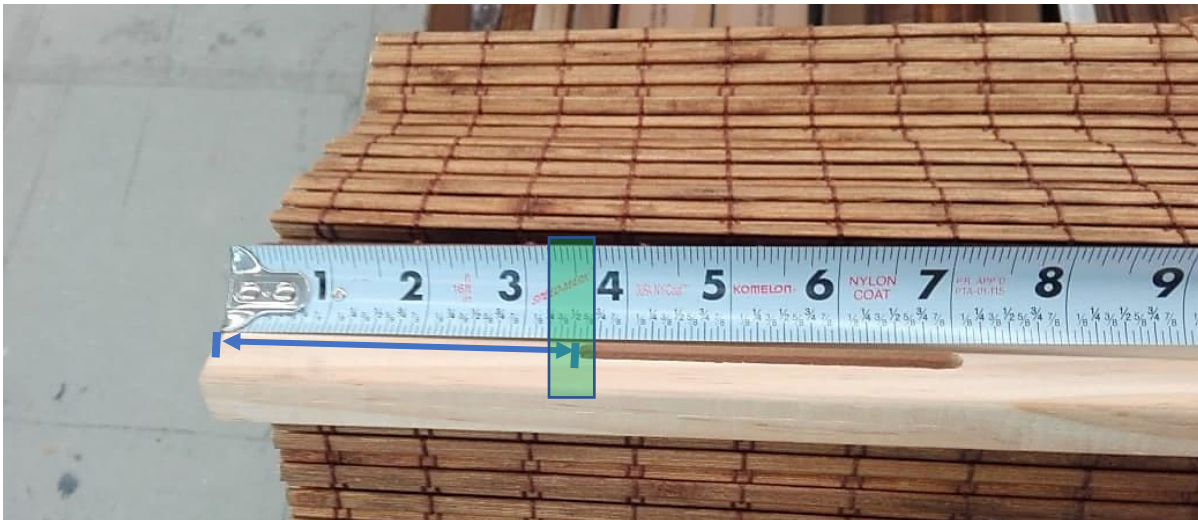


Figure. 2

CURRENT HEADRAIL DESIGN

- Specification of the current design for the 48", 60" and 72" headrail, certain width adjustment end up requiring to perform the routing operation to redo the slots, mainly because the adjustments can go up to 5 ¾" and the slot is located around 1 ¼" inwards at each end (see image 3, 4 and 5).



Figure. 3 Reveal after cutting the fabric trim on each side.



Figure. 4 Cutting action on the width of the fabric.

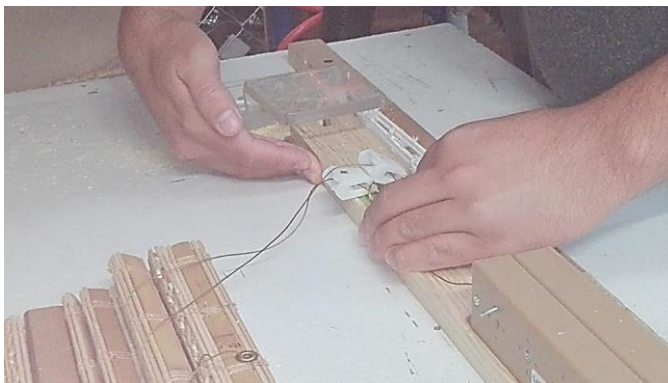


Figure. 5 Rework to recompose the slots to make assembly possible.

IMPROVED HEADRAIL DESIGN

After performing the headrail cutoff operation, we can see that the slot still runs about 1 1/8" which is sufficient to allow for installation of the mounting hardware (brackets). No additional routing is required to extend the slots.



Figure. 6 Fabric adjustment to the maximum possible based on the width ranges.

3. Conclusión:

- The improvement proposal yield a significant benefit since we are eliminating the need to perform additional labor to redo the slots with the router. An approximate of 20 seconds are eliminated by this change. Also, we are avoiding a risk of injury and an operation that requires a skilled operator.
- An approximate 30 square feet of production space can be optimized.

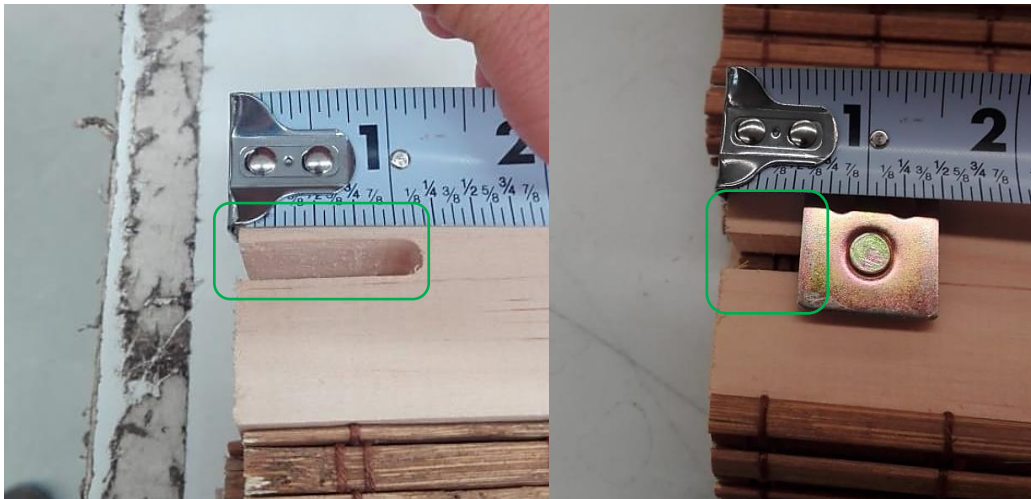


Figure. 7 left side end view of the slot, right side example of the positioning at the ends.

- As shown in figure 7, there is no interference with the position of the mounting hardware (bracket) and the returns in the case of outside mount shades.
- The formal change request will be submitted through an Engineering Change Order.