

Formula for figuring your warp needs

Project length finished _____
+ fringe _____
+take-up (10% average) _____
 factors to think about _____
+Shrinkage (10% average) _____
 type of yarns _____
+Loom waste _____
 (floor 36" or table 27" loom) _____
= _____ **Total warp length**
÷ 36 inches _____
= _____ **Total warp yards**

Finished width _____
+ draw-in (1-2"average) _____
+ shrinkage (10% average) _____
= _____ **Width in reed**
x warp sett for yarn _____
 (e.p.i. or ends per inch) _____
= _____ **Total warp ends needed**

Total warp length _____
x **Total warp ends needed** _____
= _____ Total warp thread needed in inches
÷ 36 inches _____
= _____ **Total yards needed for warp**

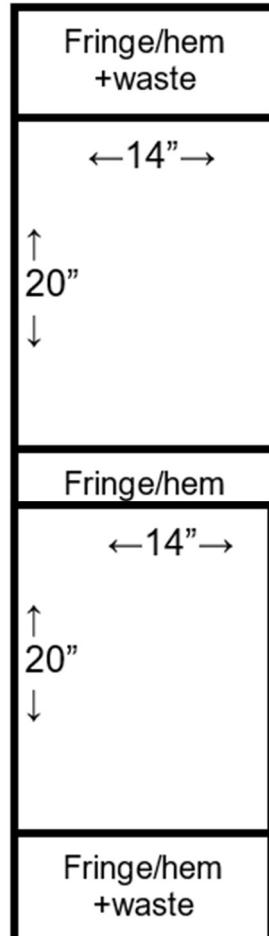
Weft Formula

Width in reed _____
x p.p.i or picks per inch _____
= _____ p.p.i. 20 balance weave
= _____ **weft needed to weave 1" of fabric**

Project length finished _____
+take-up (10% average) _____
+Shrinkage (10% average) _____
= _____ **Total woven length**
x **Weft needed to weave 1"** x _____
= _____
÷ 36 inches _____
= _____ **Total yards needed for weft**

Formula for figuring your warp needs

Project length finished	<u>40"</u>	
+ fringe	<u>+ 40"</u>	10" each
+ take-up (10% average)	<u>+ 8"</u>	
factors to think about		
+ Shrinkage (10% average)	<u>+ 8"</u>	
type of yarns		
+ Loom waste	<u>+ 27"</u>	Table loom
(floor 36" or table 27" loom)		
	<u>= 123"</u>	Total warp length
÷ 36 inches	<u>÷ 36</u>	
	<u>= 3.4</u>	Total warp yards
Finished width	<u>14"</u>	
+ draw-in (1-2" average)	<u>+ 2"</u>	
+ shrinkage (10% average)	<u>+ 1.6"</u>	
	<u>= 17.6"</u>	Width in reed
x warp sett for yarn	<u>x 20</u>	epi 20
(e.p.i. or ends per inch)		
	<u>= 352</u>	Total warp ends needed



Total warp length

$$\begin{array}{l} \text{x Total warp ends needed} \\ \text{÷ 36 inches} \end{array} \begin{array}{l} \text{x } 352 \\ = 43,296" \text{ Total warp thread needed in inches} \\ \text{÷ } 36 \\ = 1,203 \text{ Total yards needed for warp} \end{array}$$

Weft Formula

Width in reed

x p.p.i or picks per inch 20 p.p.i. 20 balance weave
= 350" **Weft needed to weave 1" of fabric**

Project length finished 40"
 +take-up (10% average) + 8"
 +Shrinkage (10% average) + 8"
= 56" Total woven length
x Weft needed to weave 1" x 350"
= 1,960"
÷ 36
= 545 Total yards needed