

Weaving Project Calculations Sheet	Imperial				
Date:					
Project Description: Weave structure/ source:					
Warp: Fibre type/size/source:					
Weft: Fibre type/size/source:					
•					
Sett (EPI)		Α			
Reed:		В			
Sley:		С			
Floating Selvedge:					
WARP AND WEFT CALCULATIONS		•			
Warp Length					
Finished length of total piece/hems & samples				а	 inches
Shrinkage (depends on yarn & finishing) (10%)			+_	b	inches
Length to be woven		(a+b)=		С	 inches
Take-up (10% for balanced weave)			+	d	 inches
Fringes (if required)			+	е	 inches
Loom waste of 18" to 36" less fringe TOTAL LENGTH OF WARP		(l 0	+	f	 inches
divided by 36 to change to yards		(c+d+e+f)	=	g h	inches
Warp Width		g / 36 =			Taius
Finished Width				i	Inches
Draw-in (10% - 15%)			+		 Inches
Shrinkage (of weft yarn - 5% - 15%)			+	j k	 Inches
TOTAL WIDTH AT REED		(i+j+k)=		1	Inches
Multiply WIDTH X Ends per inch (EPI)		()	Х	Α	EPI
TOTAL # OF ENDS (plus any floating selvedge)			=	m	ENDS
Materials Required for Warp					
TOTAL # of ENDS				m	
times TOTAL LENGTH of warp			Х	h	
= YARDS OF WARP NEEDED			=	n	YARDS
Convert yard to weight					
Calculate Weft YARN					
WIDTH AT REED				1	 inches
+ Take up (10% OR ?)			+_	0	inches
= Length of one weft shot (Pick)		(l+o)=		p	 inches
Picks per Inch (PPI)=EPI for Balanced weaving				q	 PPI
x Weaving Length (in inches)			Х	g	
= Number of WEFT SHOTS		(q x g)=		r	
X Length of one weft shot (Pick)			Х	р	
= TOTAL INCHES needed for weft		(r x p)=		S	inches
divided by 36 to change to yards		(s / 36) =		t	YARDS
Convert yards to weight					
Total Yards Needed for Project					

Weaving Project Calculations Sheet	Metric			
Date:				
Project Description:				
Weave structure/ source:				
Warp: Fibre type/size/source:				
Weft: Fibre type/size/source:				
Sett (EPCm)		Α		<u>l</u>
Reed:		В		
Sley:		С		
Floating Selvedge:				
WARP AND WEFT CALCULATIONS				
Warp Length				
Finished length of total piece/hems & samples			а	cm
Shrinkage (depends on yarn & finishing) (10%)		+	b	 cm
Length to be woven		(a+b)=	С	cm
Take-up (10% for balanced weave)		+	d	 cm
Fringes (if required)		+	е	 cm
Loom waste of 50-100cm less fringe		+	f	 cm
TOTAL LENGTH OF WARP		(c+d+e+f) =	g	 cm
divided by 100 to change to metres		g / 100 =	h	metres
Warp Width				
Finished Width			i	cm
Draw-in (10% - 15%)		+	i	 cm
Shrinkage (of weft yarn - 5% - 15%)		+	k	 cm
TOTAL WIDTH AT REED		(i+j+k)=	1	 cm
Multiply WIDTH x Ends per cm (EPCm)		X	Α	EPCm
TOTAL # OF ENDS (plus any floating selvedge)		=	m	ENDS
Materials Required for Warp				
TOTAL # of ENDS			m	
times TOTAL LENGTH of warp		x	h	
= METRES OF WARP needed		=	n	Metres
Convert yard to weight				
Calculate Weft YARN				
WIDTH AT REED			1	cm
+ Take up (10% OR ?)		+	0	 cm
= Length of one weft shot (Pick)		(l+o)=	р	cm
Picks per Inch (PPCm)=EPCm for Balanced weaving			q	
				 PPCm
x Weaving Length (in cm)		х	g	
= Number of WEFT SHOTS		$(q \times g)=$	r	
X Length of one weft shot (Pick)		x	p	
= TOTAL cm needed for weft		(r x p)=	s	 cm
divided by 100 to change to metres		(s / 100) =	t	Metres
Convert Metres to weight				
Total Metres Needed for Project				