



**ESI Resource Services LLC**  
 11854 Larisa Way  
 Rancho Cordova, CA 95742  
 Tel 916-985-7787 Fax 916-985-7887



**Chris A. Marr CPESC #2211**

## Certificate of Compliance

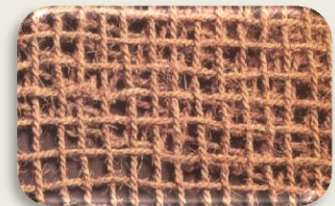
**DATE: 12-29-14**

**KoirMat™ 400 GR. SQ/M 11.80 oz. SQ. /YD.**

**As a manufacture representative of “KoirMat™ 400 gram roll”, we certify that the material to be supplied will meet or exceed the following Physical specifications.**

**Fabric Structure:** Coconut Fiber      **Yarn:** Nat. Woven Coconut Fiber

<b>Physical Property:</b>	<b>Test Method:</b>	<b>Min. Avg. Roll Value</b>
<b>Construction:</b>		Woven Coconut fiber
<b>Fabric Weight:</b>	ASTM D-5261	11.8 oz / sq. yd.
<b>Width Tensile Strength Dry:</b>	ASTM D4595	42-40 lbs. /in.
<b>Max. Elongation Dry:</b>	ASTM D4595	33-31 %.
<b>Width Tensile Strength Wet:</b>	ASTM D4595	38-30 lbs. /in.
<b>Max. Elongation Wet:</b>	ASTM D4595	36 -31 %.
<b>Water Absorption:</b>	ASTM D1117	163 %
<b>Water Velocity:</b>	Flume Tests	8 ft/sec
<b>Open Area:</b>		65%



Sizes are 6.5' X 165'(120 sq./yd.), 13'.1 x 165' (240 sq./yd.)

We at ESI Resource Services LLC look forward for future business with your company.

**Chris A. Marr Aff.M.ASCE CPESC #2211**  
**ESI Resource Services LLC**  
**WCIECA Board Member**  
 Tel# 916-985-7787 Fax# 916-9857887

