

## FIELD SEAMING OF HIGH STRENGTH GEOTEXTILE PEC200

### 1. Cross Direction

Field seaming on PEC200 geotextile panels in cross direction can be done by sewing or overlapping methods as follows (see attached Figure):

- Sewing by Prayer Seam method with an overlap between 25 mm to 70 mm.
- Overlapping with the minimum overlap of 0.3 m to 0.5 m.

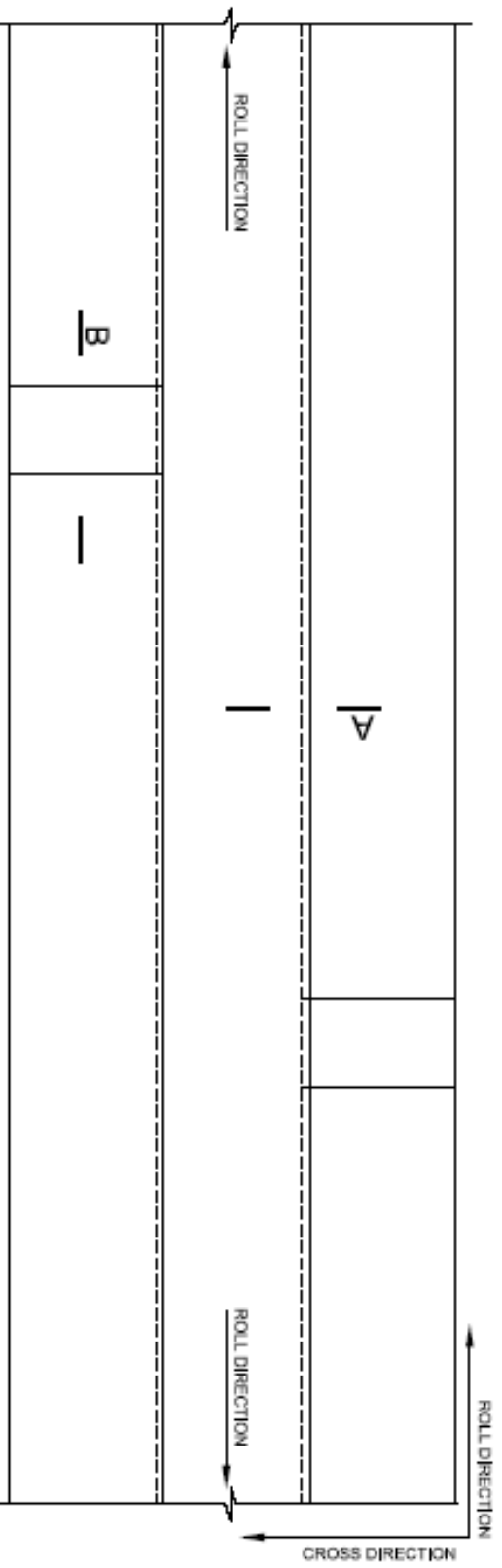
### 2. Roll Direction

Seaming of geotextile panels in roll direction shall be done by friction overlapping method with the minimum length of overlapping, L, of not smaller than 3m as seen in the attached Figure. The value of L should be checked as follows:

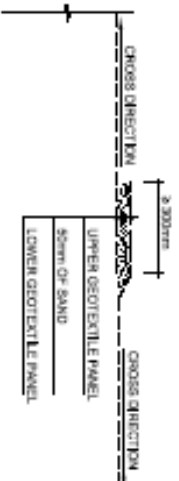
$$L \geq FS \cdot T / [2(\sigma_n \tan \phi_g + c_g)]$$

Where: L = overlapped length  
FS = factor of safety  
T = design tensile force in the reinforcement  
 $\sigma_n$  = normal stress acting on the geotextile surface  
 $\phi_g, c_g$  = friction angle and cohesion between geotextile and soil.

# FIELD SEAMING FOR GEOTEXTILE PEC200



**SECTION "A"**  
OVERLAPPING IN CROSS DIRECTION



**SECTION "A"**  
SEWING IN CROSS DIRECTION



**SECTION "B"**  
OVERLAPPING IN ROLL DIRECTION

