



# Coastal Construction Manual

## FORMULA CALCULATOR

### 12.4 Sliding Resistance of Foundation Walls and Footing

$\phi$ :		<b>Sliding Resistance =</b>	<b>lb</b>
<b>N :</b>			
<b>PF :</b>			

**Sliding Resistance =  $(\tan \phi)(N) +$  Passive Force at Vertical Foundation Walls**

$\phi$  = internal angle of soil friction in degrees

**N** = net normal force (building weight - uplift forces)

**PF** = Passive Force at Vertical Foundation Walls