

Slope Surface Characteristics	Placement Method	Correction Factor
Concrete pavement	---	1.00
Concrete blocks (voids < 20%)	fitted	0.90
Concrete blocks (20% < voids > 40%)	fitted	0.70
Concrete blocks (40% < voids > 60%)	fitted	0.50
Grass	---	0.85 - 0.90
Rock riprap (angular)	random	0.60
Rock riprap (round)	random	0.70
Rock riprap (hand placed or keyed)	keyed	0.80
Grouted rock	---	0.90
Wire enclosed rocks/gabions	---	0.80

**CORRECTION FACTORS FOR WAVE RUNUP**  
**Figure 38-5C**