



$$D_{50} = 0.57 \frac{H}{\cot^{1/3} \theta}$$

D_{50} = Median Riprap Size

H = Wave Height

θ = Bank Angle with Horizontal

Example

Given:

Slope = 1V:2H

$H = 0.91$ m

Find:

D_{50}

Solution:

$D_{50} = 0.4$ m

**HUDSON RELATIONSHIP FOR RIPRAP SIZE REQUIRED
TO RESIST WAVE EROSION**

Figure 38-6G