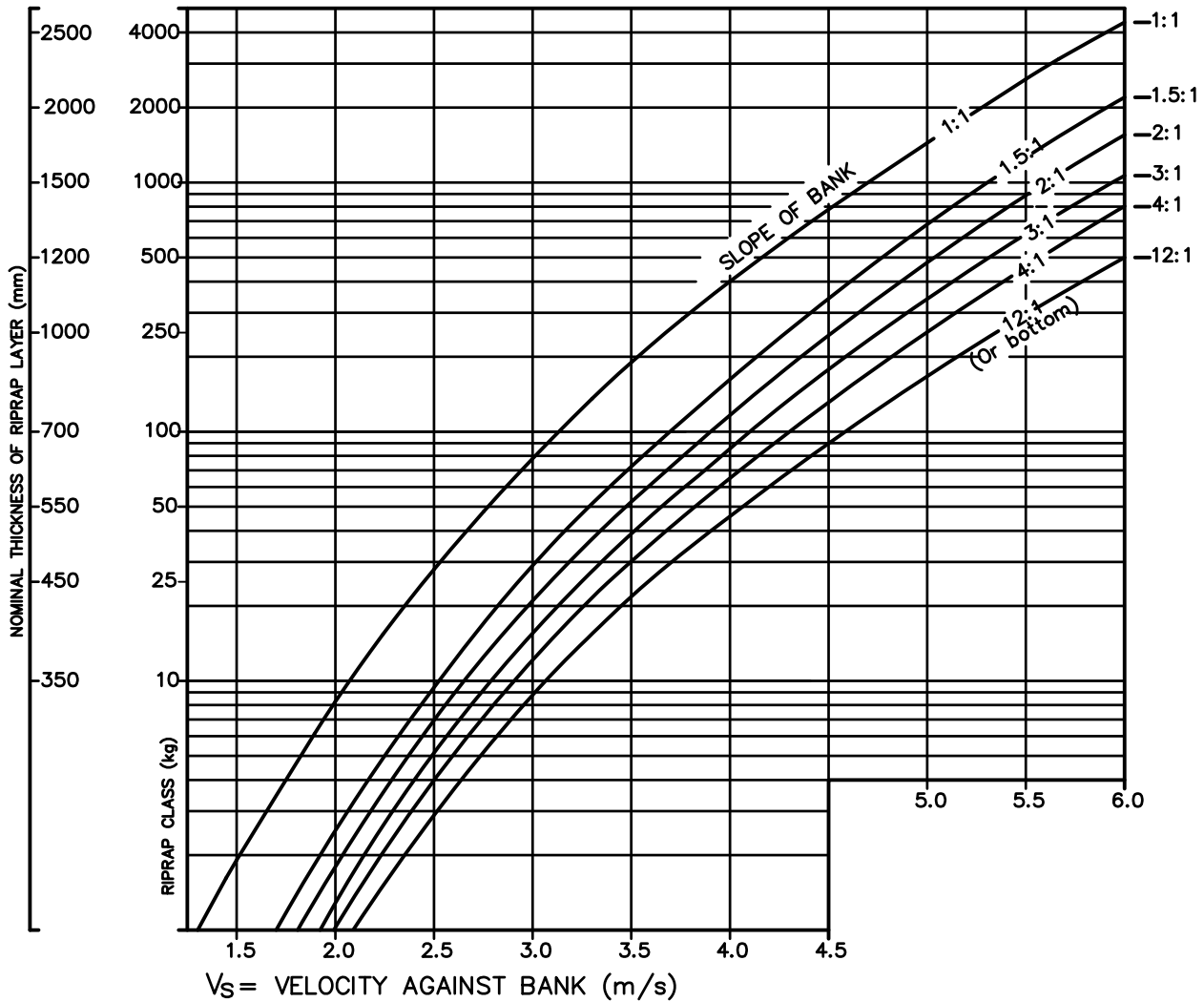


STANDARD DETAIL DRAWINGS



SIZE OF ROCK AND THICKNESS OF PROTECTION BLANKET THAT WILL RESIST DISPLACEMENT FOR VARIOUS VELOCITIES AND BANKSIDE SLOPES.

Notes:

- Adapted from report of Sub-committee on slope protection, Am. Soc. Civil Engineers Proc. June 1948.
- Density of stone assumed at 2,640 kg/m³.
- Enter graph at known velocity to intersection with desired slope curve. Move horizontally to required riprap class and thickness.
- V_M = mean stream velocity.
- For parallel flow along tangent bank; $V_S = 2/3 V_M$
- For impinging flow against curved bank; $V_S = 4/3 V_M$
- For direct impingement on the bank; $V_S = 2 V_M$
- The riprap class No. is the mass (kg) of the 50% rock size (i.e., at least half of the riprap must be heavier than its class mass).
- Do not interpolate between riprap classes. Use the next highest class.

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RIPRAP DESIGN CHART

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DATE: MAY08/02