



RIP RAP

SIZE: 4” & larger

Rip Rap sizes and designations vary by State. Please contact us for more information and size requirements for your projects.

Approvals: - State and Federal

Nebraska Department of Roads	Type A,B,C
Iowa DOT	Class A,B,D,E
Army Corp of Engineers	On per Job Basis

Typical Physical Properties

Absorption	.....1.66 – 1.84	Freeze-Thaw	.....0.2 – 0.5
LA Abrasion	.....28.5% - 34.1%	ASR	.....0.038% - 0.047%
Deleterious Material Total	.....0.3% - 0.8%	Soundness	
Chert	.....0.0% -0.7%	Magnesium	.....6.7% - 8.1%
Clay	.....0.0% - 0.3%	Sodium	.....2.3% - 3.6%

Typical Chemical Analysis

CaCO ₃	.....48.2% - 51.8%	SiO ₂	.....4.9% - 7.3%
CaO	.....27.0% - 28.97%	Al ₂ O ₃	.....0.54% - 0.58%
MgCO ₃	.....41.5% - 43.3%	Fe ₂ O ₃	.....0.75% - 1.16%
MgO	.....19.8% - 20.7%	S	.....0.017%

Typical Applications

- Architectural
- Channel Flow Control
- Erosion Control
- Gabion Baskets
- Jetties
- Landscaping
- Scour Protection
- Shoreline Protection
- Slope Stability

DISCLAIMER:

WARNING: This material contains crystalline silica, which can cause silicosis and lung cancer. See our SDS for additional information.