

**MICHIGAN DEPARTMENT OF TRANSPORTATION**  
**Rock Quarries with Passing Durability and Gradation Tests (Riprap, Special, and Other Items)**  
as of 02/09/2024 \*

Durability testing is not required for MDOT Standard Specification pay items of Riprap, Plain; Riprap, Plain, LM; Riprap, Heavy; Riprap, Heavy, LM.

Pit Name and number	Durability Test Results				Gradation	Notes
	Quarry Passes Durability Test and Gradation (Yes or No)	Minimum Bulk Dry Specific Gravity 2.5	2.5 percent maximum 24-hour absorption ASTM D6473	Sulfate Soundness Test 5 Cycles Less Than 10 Percent ASTM D5240/D5240M		
Ottawa Lake Pit# 58-03	YES	2.61	2.30%	1.40%	Wolman Count done	Wolman Count done through blending of piles
Sylvania Pit# 58-013	YES	2.613	2.50%	1.20%	Wolman Count done	Wolman Count done through blending of piles
Wallace Stone Pit# 32-004	YES	2.63	0.55%	1.28%	Wolman Count done	Wolman Count done by blending to piles
Specification Stone Pit# 04-057	YES	2.62	1.00%	1.80%	Wolman Count done	Wolman Count done using one pile
Copper Harbor Conglomerate Pit# 42-032	YES	2.58	1.00%	0.30%	Wolman Count done	Wolman Count done by blending of piles

**NOTE:** These durability test and gradation requirements fall under pay items addressed in the following special provisions.

- Riprap, Inside Culvert-20RC813(A535)
- Riprap, Special-20RC813(A215)-Square Yard
- Riprap, Special-20RC813-A220-03-Ton
- Riprap, Under Structures-20RC813-A225-03
- Riprap, Under Structures, Into Rock 20EN813(A040)
- Riprap, Into Rock 20EN813(045)

\* This information is provided solely to inform contractors of quarries that have had passing results on past projects. The information provided on this list is not a substitute for contractual acceptance criteria and is not a guarantee that future material will pass required gradation or durability testing.