



Client: Arto Brick California Pavers
Project: ASRTM C1645 Testing
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**ASTM C1645 Standard Test Method for Freeze-thaw and De-icing Salt Durability of
Solid Concrete Interlocking Paving Units**

Start of cycling: January 1, 2016

End of cycling: February 10, 2016

Sample ID	Dimension 1, mm	Dimension 2, mm	Dimension 3, mm	Mass lost after 7 cycles, g	Mass lost after 7 cycles, g/m ²	Mass lost after 28 cycles, g	Mass lost after 28 cycles, g/m ²
Artillo	289.8	291.8	16.9	0.0	0.0	0.0	0.0
Artillo Sealed	295.4	288.0	18.3	0.0	0.0	0.0	0.0
Roman	303.0	302.4	25.0	4.2	19.7	3.6	16.9
Roman Sealed	302.6	302.5	24.4	3.6	16.9	2.4	11.2

Notes:

1. Test samples were identified as full sized, concrete tile.
2. Samples were tested with water.
3. As requested, testing was started upon sample arrival.
4. Testing was discontinued after 28 freeze-thaw cycles.
5. Visual observations after 28 freeze-thaw cycles showed no deterioration.