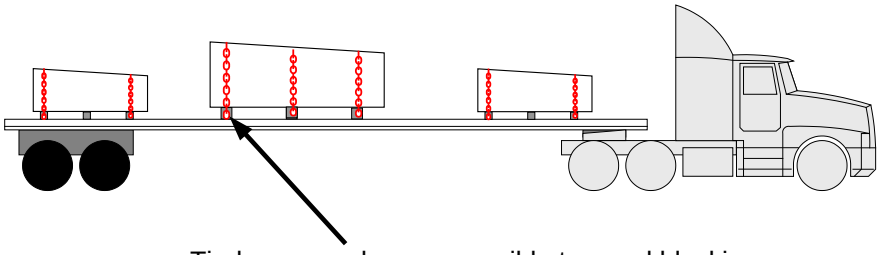
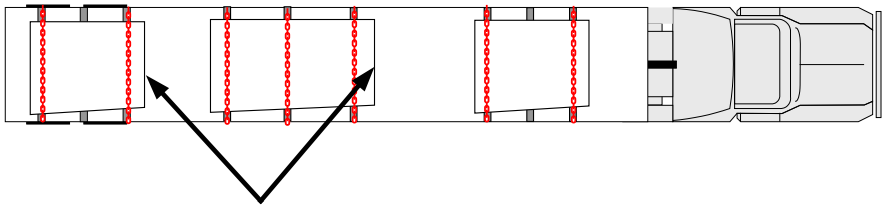
Load Securement for Granite Haulers

This information is provided as guidance to those persons transporting granite blocks

3 (or more) tiedowns may be required, depending on weight and Working Load Limit in securement systems



Tiedowns as close as possible to wood blocking



Narrow end of tapered blocks/boulders must point forward

General Rules:

- The approximate weight of Georgia granite per cubic foot is 170 lbs. [1]
- A minimum of two (2) tiedowns per block are always required for blocks in excess if 1,100 lbs. each [§393.110(b)]
- Three (3) tiedowns per block may be required depending on the weight of the block and the working load limit (WLL) of the tiedown assemblies used [§393.136(d)(1)]
- Always use the weakest link in determining WWL per tiedown assembly (tensioner, chain, or anchor point) [§393.108(a)]
- The WLL of the tiedowns added together must equal at least one-half of the weight of the block of granite [§393.136(d)(2)]
- Only chains are authorized as tiedowns for blocks weighing 11,000 lbs. or more [§393.136(c)].
- Each boulder must be supported on at least two pieces of 4" X 4" hard wood blocking extending the full width of the boulder [§393.136(b)(2)].
- The tiedowns must be placed as closely as possible to the wood blocking used to support the boulder [§393.136(d)(3)].

Use the following calculation to determine the weight of each block of granite:
Length (ft.) X height (ft.) X width (ft.) X 170 = Weight of block
Example: 6.5 ft. long X 3.25 ft. high X 4 ft. wide X 170 = 14,365 lbs.
In this example a minimum of two tiedowns are required with the working load limits (WWL) totaling 7,183 lbs. (one-half the weight of the block of granite)

[1]Thomas L. Watson, *Geological Survey of Georgia: Bulletin No. 9-A* (Atlanta: Franklin Printing, 1902)

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Georgia Department of Public Safety
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