1309.0402 SECTION R402, MATERIALS.

IRC Table R402.2 is amended to read as follows:

TABLE R402.2 MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF CONCRETE

TYPE OR LOCATION OF CONCRETE CONSTRUCTION	MINIMUM SPECIFIED COMPRESSIVE STRENGTH[a] (f'_c)		
	Weathering Potential[b]		
	Negligible	Moderate	Severe
Footings[g,h]	5,000	5,000	5,000
Basement walls, foundations, and other concrete not exposed to the weather	2,500	2,500	2,500[c]
Basement slabs and interior slabs on grade, except garage floor slabs	2,500	2,500	2,500[c]
Basement walls, foundation walls, exterior walls, and other vertical concrete work exposed to the weather	2,500	3,000[d]	3,000[d]
Porches, carport slabs, and steps exposed to the weather, and garage floor slabs	2,500	3,000[d, e, f]	3,500[d, e, f]

For SI: 1 pound per square inch = 6.895 kPa.

[a] Strength at 28 days psi.

[b] See Table R301.2(1) for weathering potential.

[c] Concrete in these locations that may be subject to freezing and thawing during construction shall be air-entrained concrete in accordance with footnote "d."

[d] Concrete shall be air-entrained. Total air content (percent by volume of concrete) shall be not less than 5 percent or more than 7 percent.

[e] See Section R402.2 for maximum cementitious materials content.

[f] For garage floors with a steel-troweled finish, reduction of the total air content (percent by volume of concrete) to not less than 3 percent is permitted if the specified compressive strength of the concrete is increased to not less than 4,000 psi.

[g] Compressive strength (f'_c) of 2,500 psi, with an approved admixture that provides a water and vapor resistance at least equivalent to 5,000 psi concrete.

[h] Compressive strength (f'_c) of 5,000 psi is not required for post footings for decks or porches, wood foundations, slab-on-grade foundation walls, and footings for floating slabs.

Statutory Authority: *MS s 326B.02; 326B.101; 326B.106*

History: *39 SR 91; 44 SR 764*

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