053000  METAL DECKING

PART 1: GENERAL

1.01 METAL DECKING USE

Use of metal deck (form or composite) is not permitted with concrete in exposure category C1, C2, F1, F2, or F3 as defined by ACI 318 Table 4.2.1. Concrete classifications will be noted on the general notes sheet as stipulated by Design & Construction Standard 033000 Section 1.02.

1.02 METAL DECKING COATING

Minimum galvanized coating on all metal deck utilized shall be G60 as defined by ASTM A653. For interior applications with occasional high humidity, the minimum galvanized coating on all metal deck shall be G90 as defined by ASTM A653.

1.03 METAL DECKING DEFLECTION

The engineer of record shall denote on the general notes sheet whether the intent is to pour the floor slab a uniform thickness along the deflected shape of the structural system or as a flat floor with a concrete overpour of varying thickness. Note that the concrete overpour will result in the steel reinforcement being lower from the top surface of the slab and less effective in crack control. This has aesthetic implications for exposed concrete floors.

1.04 METAL DECKING UNSHORED SPAN

The engineer of record shall denote on the general notes sheet the basis of design maximum unshored span for each composite slab type specified for the project.