

APPENDIX E

FIREPROOFING REQUIREMENTS

1. All steel beams, columns etc. exposed to facilitate work must be recovered with fireproofing material.
2. Subcontractors engaged to replace fireproofing materials must be licensed by the manufacturer and have prior experience in at least two projects of similar size and scope.
3. Installation shall comply with the following standards:
 - a. Dry Density: 13 lbs/ft³ minimum, 17 lbs/ft³ average.
 - b. Compressive Strength: 500 lbs/ft² for 10% deflection, ASTM E761.
 - c. Impact Bond: No cracking or spalling with 60 lb. bag and 4' height, ASTM E760.
 - d. Deflection: No cracking, spalling, delamination or other defect or failure, ASTM E759.
 - e. Corrosion Resistance: No corrosion when tested according to ASTM E937.
 - f. Bond Strength: 200 lbs/ft² minimum, ASTM E738.
 - g. Air Erosion Resistance: 0.25 grams/ft² maximum weight.
4. All structural elements (columns, beams, etc.) must have an application to afford three hours of fire resistance. Floors and decking are to be two hours.
5. Application of fireproofing must adhere to the following guidelines:
 - a. Mask and protect adjacent work which could be damaged by over spray or fallout.
 - b. Clean substrates of all substances which might be incompatible or inhibit bonding.
 - c. Verify that surface members to receive sprayed fireproofing are compatible with fireproofing materials and bonding requirements.
 - d. Power clean unpainted members which will receive sprayed fireproofing to remove incompatible materials which could affect bond when scraping, bruising, or washing will not remove the materials.
 - e. Assure that installation of clips, hangers, supports, sleeves, shaft wall runners and other items required to penetrate the sprayed fireproofing work is complete.
 - f. Verify that ducts, piping, equipment, or other items which would interfere with application of fireproofing are not positioned until sprayed fireproofing work is completed.