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SECTION 09 84 36

Squell – InvisiPerf Metal Ceiling System

PART 1 GENERAL

1. SECTION INCLUDES
   1. Squell InvisiPerf Metal ceiling system.
2. REFERENCES
   1. American Society for Testing and Materials (ASTM)
      1. ASTM C423: Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method
      2. ASTM E84: Standard Test Method for Surface Burning Characteristics of Building Materials.
      3. ASTM E795: Standard Practices for Mounting Test Specimens During Sound Absorption Tests
      4. ASTM E1477: Standard Test Method for Luminous Reflectance Factor of Acoustical Materials by Use of Integrating-Sphere Reflectometers
   2. California Department of Public Health (CDPH)
      1. CDPH Standard Method V1.2: Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers
   3. International Code Council (ICC)
      1. ICC IBC: International Building Code
3. SUBMITTALS
   1. Product Data: Manufacturer’s data sheet and installation instructions.
   2. Samples: Submit, at minimum, a 4” x 4” sample for each type of specified ceiling type.
   3. Test Reports: Upon request, submit certified test reports to verify specified product performance.
4. MAINTENANCE MATERIAL
   1. Extra Stock Materials:
      1. Deliver no less than two percent (2%) / (Other) of each type, color, and pattern of material.
      2. Extra materials shall remain in the manufacturer’s original packaging and given to the building owner upon substantial completion of the work. Store extra materials per instructions as described in storage and handling requirements.
5. QUALITY ASSURANCE
   1. Qualifications:
      1. Manufacturers: Provide InvisiPerf Metal ceiling system from a single manufacturer.
      2. Installers: Utilize an installer having demonstrated experience on projects of comparable size and complexity.
   2. Performance Requirements:
      1. Surface Burning Characteristics: Acoustical ceilings to perform as specified when tested in accordance with ASTM E84. Acoustical ceiling surface burning performance should comply with the International Building Code and other local building code requirements.
      2. Acoustical Characteristics: Acoustical ceilings to perform as specified when tested in accordance with ASTM C423.
6. DELIVERY, STORAGE, AND HANDLING
   1. Storage and Handling Requirements:
      1. Handle products carefully to avoid damage or chipping edges.
      2. Store products in a clean, cool, dry place, and out of direct sunlight.
      3. Store products in a space where the ambient temperature and humidity conditions are being maintained at the levels indicated for the project when occupied for its intended use.
7. SITE CONDITIONS
   1. Ambient Conditions: Maintain ambient temperature and humidity conditions at levels indicated for the project when occupied for its intended use.
   2. Existing Conditions: Do not install ceiling ceilings until space is enclosed and weather proofed, wet work is completely dry, and work above ceilings is complete.
8. WARRANTY
   1. Provide manufacturer’s written product warranty per Section 01 77 00 – Closeout Procedures.

PART 2 PRODUCTS

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1. MANUFACTURERS
2. MATERIAL LOGIQ, 123 Columbia Court N, Chaska, MN 55318.  
   Phone: 800-220-8412. Website: materiallogiq.com
3. DESCRIPTION
4. Product: Squell InvisiPerf Metal ceiling system as manufactured by MATERIAL LOGIQ.
5. Product Options:
   1. Ceiling Composition: InvisiPerf Metal
   2. Cell Height: (4”) / (6”) / (8”) / (10”) / (12”) / (Custom up to 12”)
   3. Cell Size: (2’ x 2’) / (4’ x 4’)
   4. Finish: Powder-Coated Colors  
       (Aqua Green) / (Beige White) / (Black) / (Cloud Gray) /   
       (Dark Brown) / (Ivory White) / (Pearl Yellow) / (Sky Blue) /   
       (Snow White)  
       Wood Grain Textures  
       (Teak) / (Dark Teak) / (Silver Teak) / (Oak) / (Red Oak) /  
       (Light Oak) / (Old Oak) / (Red Chestnut) / (Washed Maple)   
       Stone Textures  
       (Biostone) / (Granite) / Slate)
   5. Mounting Method: (Threaded Rod) / (Aircraft Cable)
6. Product Performance:
   1. Acoustical Performance
      1. Noise Reduction Coefficient (NRC) per ASTM C423: 0.80 (E-400 Mount)
   2. Surface Burning Performance
      1. Fire Rating per ASTM E84: Class A.

PART 3 EXECUTION

1. EXAMINATION
2. Verification of Conditions**:** 
   1. Inspect installation area and conditions under which work is to be performed for compliance with all manufacturers’ environmental requirements.
   2. All wet work in the installation area must be complete, cured, and dry prior to installation.
   3. Work above ceilings shall be complete, inspected, and accepted before ceiling work begins.
3. INSTALLATION
4. Comply with manufacturer’s instructions and recommendations for installation of acoustical wall and ceiling ceilings and with industry standards.
5. CLEANING
6. Clean surfaces of ceiling products per manufacturer’s instructions.
7. Remove and replace damaged or discolored material and material that cannot be properly cleaned.
8. PROTECTION
9. Protect installed work from damage due to subsequent construction activity, including temperature and humidity limitations and dust control, so that the work will be without damage and deterioration at the time of acceptance by the owner.

END OF SECTION