Architectural Specification Sheet

Project / Product: Nova Ceilings Smart Peel™ Multi-Layered Ceiling Tiles
Manufacturer: Nova Ceilings
Section: CSI Master Format™ 09 51 00 – Specialty Ceilings

SECTION 09 51 23 – SPECIALTY PEEL-AWAY CEILING TILES

PART 1 – GENERAL

1.1 SUMMARY
* A. Section Includes:
1. Multi-layered, peel-away commercial ceiling tiles designed for low-maintenance, hygiene-critical, and commercial environment applications (commercial kitchens, food prep, laboratories, cleanrooms, and healthcare facilities).
2. Integrated surface protection system providing renewed surface finish via peelable sacrificial layers.

1.2 REFERENCES
* A. ASTM International:
1. ASTM C423: Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method. Noise Reduction Coefficient (NRC) of 0.55-.70
2. ASTM E84: Standard Test Method for Surface Burning Characteristics of Building Materials (Class A / Flame Spread & Smoke Developed Index).
3. ASTM E1264: Standard Classification for Cleanable Surface Ceiling Products.
4. ASTM C635: Standard Specification for the Manufacture, Performance, and Testing of Metal Suspension Systems for Cleanable Surface Tile and Lay-in Panel Ceilings.
5. ASTM E1414: Standard Test Method for Airborne Sound Attenuation Between Rooms Sharing a Common Ceiling Plenum. CAC Rating of 35-41
6. ISO 14644-1: Cleanrooms and Associated Controlled Environments – Air Cleanliness Classification.

1.3 SUBMITTALS
* A. Product Data: Submit manufacturer's technical data sheets, installation instructions, and cleaning/maintenance guides.
* B. Samples: Submit full-size or 6" x 6" physical samples demonstrating multi-layer peeling technology and perimeter edge details.
* C. Test & Compliance Certificates: Submit independent laboratory test reports for Fire Performance (ASTM E84 Class A), Cleanroom ISO classification, and mold/microbial resistance.

1.4 QUALITY ASSURANCE
* A. Single-Source Responsibility: Provide ceiling tiles and suspension grid accessories from a single manufacturer or approved assembly system.
* B. Environmental & Hygiene Compliance: Materials must meet low-VOC emitting standards and comply with FDA/USDA indirect food-contact guidelines for commercial kitchen and food prep applications.

PART 2 – PRODUCTS

2.1 MANUFACTURER
Nova Ceilings
Product Line: Smart Peel™ Commercial Ceiling Tiles

2.2 PERFORMANCE CRITERIA
* A. Surface Burning Characteristics (ASTM E84):
* Flame Spread Index: Class A (25 or less)
* Smoke Developed Index: 50 or less
* B. Acoustical Performance (ASTM C423 / ASTM E1414):
* Noise Reduction Coefficient (NRC): Minimum 0.55 – 0.70 (varies by core backing option)
* Ceiling Attenuation Class (CAC): Minimum 35
* C. Cleanroom & Microbial Resistance:
* Cleanroom Rating: Compatible up to ISO Class 5 cleanroom environments.
* Mold & Mildew Resistance: Treated with broad-spectrum anti-microbial agent preventing fungal and bacterial growth.
* D. Chemical & Stain Resistance:
* Resistant to airborne grease, commercial detergents, disinfectant fogging, and moisture/humidity accumulation.

2.3 MATERIAL STRUCTURE & COMPONENTS
* A. Core Board: High-density, moisture-resistant mineral fiber or papered gypsum board resistant to sagging in humid or high-temperature environments.
* B. Smart Peel™ Film Assembly:
1. Multi-layered (5 layers, project-specified), optically bright white film laminated to the face of the core panel.
2. Tabbed, low-tack engineered adhesive edge allow clean separation without residual adhesive transfer or particulate release into controlled spaces.
3. Non-porous, washdown-rated surface film layer.

2.4 DIMENSIONS & FINISHES
* A. Nominal Sizes:
* 24" x 24" (600mm x 600mm)
* 24" x 48" (600mm x 1200mm)

* B. Panel Thickness: 5/8" (15mm) or 3/4" (19mm) nominal core plus multi-layer film stack.
* C. Edge Profile: Square Lay-in / Tegular (compatible with standard 15/16" or 9/16" T-bar suspension grid systems).
* D. Color / Finish: Smooth White, Lumen Reflective, non-yellowing.

PART 3 – EXECUTION

3.1 PREPARATION & INSTALLATION
* A. Site Conditions: Ensure installation areas are fully enclosed and climate-controlled prior to panel placement.
* B. Installation: Install Smart Peel™ tiles into specified T-bar grid systems following ASTM C636 standards and manufacturer's instructions. Ensure corner peel tabs are oriented consistently for accessibility.

3.2 MAINTENANCE & PEEL PROCEDURE
* A. Maintenance: When visible layer accumulates grease, dust, or contaminants beyond standard cleaning thresholds, locate the exposed corner pull tab.
* B. Layer Removal: Quickly peel the top protective layer at a 45-degree angle across the panel face to expose a pristine, fresh ceiling surface. Dispose of removed layer per local facility waste guidelines or recycling program.