Skyacoustics

Please understand that you are responsible for the accuracy of all project specifications, including any Sky Acoustics Inc. guide specifications that you use.

SKY ACOUSTICS INC. SHALL NOT BE LIABLE FOR ANY DAMAGES ARISING OUT OF THE USE OF ANY OF ITS GUIDE SPECIFICATIONS.

### SECTION 095113/095123

**Loha Acoustical Ceiling Panels with Aptus Mounting System**

**PART 1 – GENERAL**

* 1. **RELATED DOCUMENTS**

Drawings and general conditions of Contract, including General and Supplementary Conditions, and Division - 1 Specification sections that apply to work of this section.

**1.2 SUMMARY**

A. Section Includes: Wall Sound Absorption.

1. Related Work: The following items are **not** included in this Section and are specified under the designated Sections:

Section 092000 – PLASTER AND GYPSUM BOARD ASSEMBLIES for plaster and gypsum board walls

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Section 099000 - PAINT finish of wall surface behind and between panelling

Division 23 – HVAC prtoducts and services.

Division 26 - Lighting fixtures, and electrical services and connections.

Other acoustical products

C. Alternates

1. Prior Approval: Unless otherwise provided for in the Contract documents, proposed product substitutions may be submitted no later than FIFTEEN (15) working days prior to the date established for receipt of bids. Acceptability of a proposed substitution is contingent upon the Architect's review of the proposal for acceptability and approved products will be set forth in Addenda. If substitute products that have not been approved by Addenda are included in a Bid, the specified products shall be provided without additional compensation.

2. Submittals that do not provide adequate data for the product evaluation will not be considered. The proposed substitution must meet all requirements of this section, including but not necessarily limited to, the following: Single source materials suppliers (if specified in Section 1.5); Acoustical performance; Fire performance; Panel design, size, composition, color, and finish.

## 1.3 REFERENCES

A. ASTM International:

1. ASTM C 423 Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method

2. ASTM E 84 Standard Test Method for Surface Burning Characteristics of Building Materials

3. ASTM E 1264 Classification for Acoustical Ceiling Products

B. United States Green Building Council (USGBC)

1. LEED - Leadership in Energy and Environmental Design is a set of rating systems for the design, construction, operation, and maintenance of green buildings

C. United States International Building Code

1. Section 803 Wall and Ceiling Finishes.

**1.4 QUALITY ASSURANCE**

A. Manufacturer:

1. Company manufacturing the specified product shall have adequate capacity required for the projects listed, and have successfully completed similar projects for a period of not less than three years.

B. Installer:

1. The installer shall be competent, experienced, and familiar with acoustic ceiling panel installation methods.

C. Reference Standards: Conform to all governing laws, building codes, and the following performance criteria:

1. Fire Performance Characteristics: Test(s) must be performed by an independent testing organization acceptable to authorities having jurisdiction. Tests shall be carried out per ASTM E 84 procedures and complying with US International Building Code Classification. Sky Acoustics Ceiling Panel components shall provide surface‑burning characteristics as shown below. (building code requirements may necessitate composite panel testing using identical materials and construction representative of a typical installation, using the specified finish(es) – Sky Acoustics has a considerable number of composite ASTM E84 panel tests on file).

ASTM E-84 Classification Class "A" or "1"

Flame Spread: 25 or less

Smoke Developed: 450 or less.

2. Acoustical Performance Characteristics: Tests must be performed by an independent testing organization acceptable to authorities having jurisdiction. Tests shall be carried out per ASTM C423 procedures – type E400 mounting per ASTM E795. Aura acoustic ceiling panels shall provide noise reduction coefficients as shown below, determined by testing fully assembled (composite) production material.

D. 1. Coordination of Work: Coordinate acoustical ceiling work with installers of related work including, but not limited to building insulation, gypsum board, light fixtures, mechanical systems, electrical systems, and sprinklers.

**1.5 SUBMITTALS**

1. Product data: Technical data sheet for Loha Acoustical ceiling panels with Aptus mounting system.

2. Samples: Manufacturer’s standard 6-1/2” (165mm) x 9” (229mm) sample of acoustical panel specified in Part 2 to the Owner for approval. Acoustical panel sample shall be production material specified for final use.

3. Shop Drawings: Submit to Architect for stamp approval, a complete set of CAD generated shop drawings or standard details prepared by the manufacturer showing all necessary details and dimension requirements of acoustical panels. The shop drawings will subsequently be field verified and revised as required by the Architect.

**1.6 Delivery, Storage, and Handling**

1. Comply with fabric and acoustic panel manufacturers’ written instructions for minimum and maximum temperature and humidity requirements for shipment, storage, and handling.

1. Deliver materials and panels in unopened bundles and stored in a temperature controlled dry place with adequate air circulation.
2. On-site storage shall be such as to ensure all panels and associated materials are protected from damage.
3. Prior to installation, site must be free of wet and dusty trades and the climatic conditions stabilized to normal operational levels. Allow panels to stabilize on-site for 72 hours prior to installation.
4. Panels must be handled by persons wearing clean light-weight gloves. Persons installing hardware to substrate (clips, screws, anchors, etc.) must wear the clean light-weight gloves when handling the panels.

**PART 2 - PRODUCTS**

**2.1 Acoustical Ceiling Panels**

Furnish and deliver pre-fabricated acoustical panels as described in this section for installation in areas as shown on drawings requirements:

1. MANUFACTURER: Sky Acoustics Inc.
2. Loha Acoustical Ceiling Panel
3. Pre-fabricated Acoustical Panels mounted to the Aptus Custom Aluminum suspended grid system:
4. Panel Type: Square, Rectangle, Flat, other geometric shapes
5. Panel Size: As indicated on architectural drawings
6. Panel Composition: 1” (25mm Medium Density 6-7 PCF (96 – 112 KCM) Fiberglass Core + 1/16” (2mm) High Density 16 – 20 PCF (256 – 320 KCM) Aluminum sheet layer laminated to the face + Coated/Anodized finish + Vapor barrier on back of panel.
7. Approximate Panel Weight: 1.54 PSF (5.9 KSM) - based on 4’x8’x1 1/8” (1.22m x 2.44m x 28mm) panel size.
8. Nominal Thickness: 1 1/16” + (27mm).
9. Surface Finish: Specified perforated and/or non-perforated aluminum sheet finished as specified by the Architect
10. Perforation Pattern: As specified by architect
11. Edges: Coated extruded aluminium – to match face or black.
12. Ceiling Mounting System: Sky Acoustics Aptus custom aluminum suspension grid system. A concealed torsion spring ceiling system that incorporates a continuous panel location fin to ensure correct panel alignment during installation and future access, and features a ±1/8” (+/- 3mm) defined panel joint with 100% downwards accessibility for easy access to the plenum. The grid shall be site assembled using the factory supplied hardware. The suspension system shall be engineered and fabricated in the factory to avoid any field cutting of the suspension components, and manufactured as shown on the architectural and approved shop drawings.
13. Installation.
    1. Installation shall be by use of torsion springs, field engaged into factory supplied and field installed spring retaining clips, onto the extruded aluminum panel edge at the panel back. This panel assembly is then lifted into place, and the torsion springs are engaged into the factory supplied full and half grid connecting plates which have been field installed during the assembly of the suspended factory supplied grid. The panel is then carefully lifted into place as the torsion springs take the load.
    2. All grid suspension hardware, hanger wires, rods, anchors, mouldings, etc., are to be supplied by the installing contractor.
    3. The installation shall be in accordance with local code requirements, manufacturers’ instructions, and as shown on Sky Acoustics approved shop drawings, or detail sheets. Installer shall provide for shimming and adjustments as required to maintain consistent alignment of joints, of finished panel faces, and to ensure unstressed clip locations.
14. Warranty: 2 years from date of panel receipt.

**PART 3 - EXECUTION**

**3.1 General**

1. Provide Sky Acoustics Inc. panels and grid where indicated on drawings using mounting system specified.

2. Installation labor for removal and replacement of product improperly installed and not installed to specified details shown on shop drawings and installation instructions, shall be the responsibility of the installing contractor.

3. Owner shall inspect product and installation on completion. The manufacturer shall provide repair or replacement of components not conforming to specified requirements herein.

**PART 4 - CONTACT**

**4.1** For all support, questions, or enquiries contact:

**Sky Acoustics Inc, 55 Bradwick Drive, Concord. Ontario. L4K 1K5. Canada.**

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