



Section 09 50 Ceilings

Part 1 – General

1.01 Scope

Furnish and install the Patternz Wire Grid Metal Ceiling System as supplied by Steel Ceilings Inc., Johnstown, Ohio

1.02 Related Sections

- Section 09 20 Plaster and Gypsum Board
- Section 23 00 Heating, Ventilating and Air-conditioning
- Section 26 50 Lighting

1.03 References

- American Society for Testing and Materials (ASTM)
 - C635** Standard specification for the manufacture, performance and testing of metal suspension systems for acoustical tile and lay-in panel ceilings
 - C636** Standard practice for installation of metal ceiling suspension systems for acoustical tile and lay-in panels
 - E84** Test method for surface burning characteristics of building materials
- **CISCA** Ceilings and Interior Systems Construction Association

1.04 Submittals

- Provide product data sheets listing dimensions, style, edge detail, perforation pattern and finish
- Alternates require prior approval no later than 21 days prior to bid date. In addition to the requirements above, submittals for approved alternates must include samples of actual products to be substituted together with test certificates supporting performance claims, a mock up and a written warranty.

1.05 Project Conditions

- **Environmental Requirements**
 - Area to receive ceiling systems shall be protected from the weather

- Wet trades work shall be complete and dry prior to installation of ceiling system
- Installation shall not proceed until the temperature and humidity conditions closely approximate finish condition

1.06 Attic Stock

Provide 2% (3% etc) of the ceiling system area materials to be used as attic stock

1.07 Performance

- Materials and installation must comply with Local Building Code and Regulations
- Materials should be stored and handled in accordance with CISCA's *Acoustical Ceilings – Use and Practice*
- Materials to comply to CISCA's *Metal Ceilings Technical Guidelines*
- There are no special seismic requirements

Part 2 – Products

2.01 Manufacturer

Patternz Wire Grid Metal Pans shall be as supplied by Steel Ceilings Inc., Johnstown, Ohio:
www.steelceilings.com

2.02 Materials Suspension System

- T-Bar suspension system shall be formed from galvanized steel and shall be intermediate duty with face dimension of 1⁵/₁₆". Main runners shall be spaced not to exceed 48" on center by direct suspension from the existing structure with not less than 12-gauge pre-straightened hanger wires, wrapped tightly 3 full turns, spaced 48 inches on center.
- Wall molding shall be formed from galvanized steel in C-shape to receive metal pans

Patternz Wire Grid Metal Panels

- Metal pans shall be formed from welded (woven or crimped) rods with a diameter of .125" (up to .25") to form equally spaced openings of 1.5" x 1.5" (2" x 2", 3" x 3" or custom designed)
- Panels shall measure 24" x 24" (24" x 48", 30"x 30", etc.)
- Panels shall be post painted with polyester powder global white (color)

Part 3 – Execution

3.01 Examination

- Installer must inspect the area that is to receive the metal ceiling system for conditions that may affect the installation and notify, in writing, any conditions that must be rectified before commencing
- All work above the ceiling shall be completed before proceeding with this installation
- All wet work shall be completed and thoroughly dry before proceeding with this installation

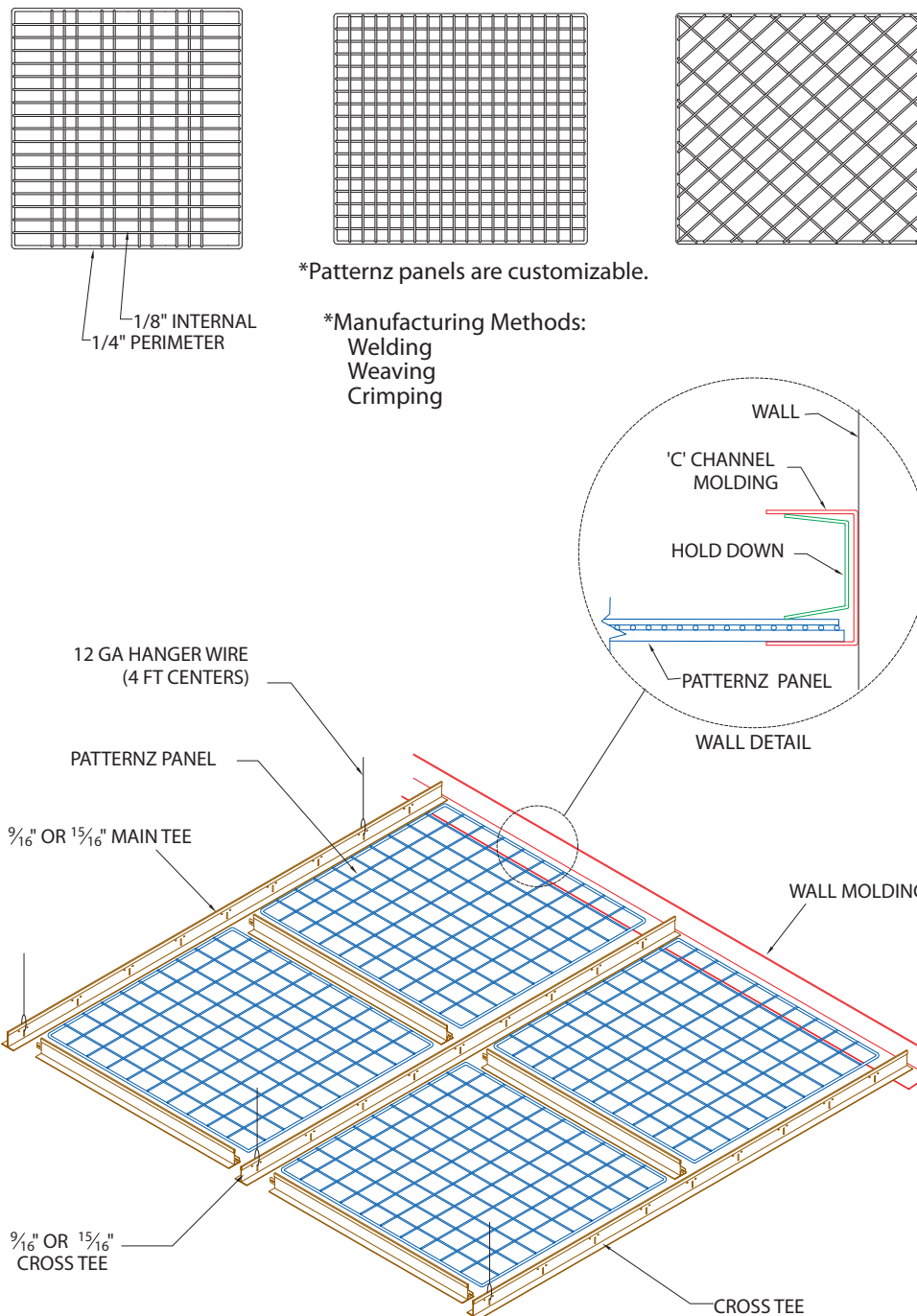
3.02 Installation

- Metal Ceiling components shall be delivered in unopened cartons and shall be clearly marked with manufacturer's name
- Material shall be stored in dry and protected areas
- Install the ceiling system in accordance with the manufacturer's recommendations and the approved shop drawings
- Cut panels shall, where possible, not be less than one half of full size
- Panels shall be free from defects and damaged panels shall be removed and replaced

PATTERNZ

WIRE GRID METAL PAN SYSTEM

SIZE (INCHES)	Min. 24x24, Max. 48x48
ACCESSIBILITY	Upward
VISUAL	Exposed Wire
EDGE DETAIL	Square
MATERIALS	Steel, Aluminum, Stainless
FINISHES	Painted, Natural
RELATIVE COST	\$



OVERVIEW

The Steel Ceilings Patternz System affords the end user 100% accessibility into the plenum space at any point in the ceiling. The units are made of wire (e.g. 1/8") with a thicker perimeter (e.g. 1/4"). The units lay into a standard 1/16" or 15/16" suspension system. The woven system is available in Reveal format.

MODULE

Patternz modules are made to order although 24" x 24" is the most popular.

METAL

The units are manufactured from steel, aluminum or stainless steel wire, woven or welded.

CELL SIZES

Cell sizes are made to order (e.g. 2" x 2") and designed to blend with the panel module.

EDGE TREATMENTS

The edges of the panels designed for ease of lay-in installation and rigidity.

ACOUSTICS

The units are normally made for a visual barrier without regard to acoustics.

TYPE OF INSTALLATION

The Patternz panels are installed from above onto standard ceiling suspension system that is suspended with wire, angle or threaded rod.

MAINTENANCE BENEFIT

The Patternz System from Steel Ceilings allows access simply through lifting the unit.

CONCEALED OR EXPOSED SUSPENSION SYSTEM

The entire ceiling assembly has exposed grid (15/16" or 1/16") as a border.

FINISHES

The finished appearance of the ceiling system is either a powder paint finish in white or color, including silver and natural stainless steel.

APPLICATIONS

This fully accessible ceiling can be used for interior or exterior applications.

FIRE PERFORMANCE

The ceiling system has been tested in accordance with ASTM E-84 and is considered incombustible. The material has a Flame Spread of less than 25 and Smoke Generation of less than 50.

IMPACT

All materials are 100% recyclable with a high recycled content.