ICC-ES Evaluation Report

ESR-5239

Reissued October 2025

This report also contains:

- **CA Supplement**

Subject to renewal October 2026

DIVISION: 09 00 00—FINISHES Section: 09 22 26—Suspension Systems	REPORT HOLDER: CIPRIANI PROFILATI SB SRL	EVALUATION SUBJECT: MX24 AND MX15 TEETANIUM SYSTEMS	

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2021, 2018, and 2015 *International Building Code*® (IBC)

Properties evaluated:

- Structural
- Interior finish

2.0 USES

The MX24 and MX15 Teetanium Systems (referred hereafter as MX24 and MX15 Systems, respectively) described in this report are suspended ceiling framing systems used primarily to support acoustical tile and lay-in panels in non-fire-resistance-rated construction for interior applications. Use of the MX24 and MX15 Systems is limited to Seismic Design Categories A, B, and C in accordance with Section 4.5.

3.0 DESCRIPTION

3.1 MX24 and MX15 Systems:

The MX24 and MX15 Systems consist of main runners and cross tees as shown in Table 1. All members are made from EN10346 carbon steel Grade S550GD with minimum G30 (Z100) galvanized coating or equivalent. The exposed lower flanges of main runners and cross tees are covered with pre-painted flange capping. The capping is made from EN10346 carbon steel Grade DX51D with G30 (Z100) galvanized coating or equivalent. The capping base-metal thickness is 0.009 inch (0.23 mm). The main runners of the MX24 and MX15 System are classified as intermediate duty in accordance with ASTM C635. See Table 1, Figure 1, and Figure 2 for members geometry and dimensions.

3.2 Hanger Wire:

Hanger wire for suspended ceilings, and any fixtures, must comply with ASTM C636 as referenced in IBC Section 808.1.1.1 and IBC Section 2506.2.1. Evaluation of the hanger wire and its connection to the supporting structure is outside the scope of this evaluation report. Hanger wires are attached to the main runners through the circular holes in the web.

3.3 Accessories:

The suspended ceiling system is provided with the necessary accessories, such as wall angles, to meet the requirements of the installations.

4.0 DESIGN AND INSTALLATION

4.1 General:

The suspended ceiling framing system must be fabricated and installed in accordance with this report and the manufacturer's published installation instructions. Copies of which must be available to the code official at the jobsite during construction. In the event of a conflict between the manufacturer's installation instructions and this report, this report governs.

The suspended ceiling framing systems must be installed in accordance with 2021, 2018, and 2015 IBC Sections 808 and 2506.2.1. Light-fixtures may be included in the ceiling, provided the light-fixtures are supported as described in Section 4.3.

4.2 Main Runners and Cross Tees:

The maximum design loads for main runners and cross tees must be less than or equal to the allowable (ASD) capacities noted in Table 1 of this report. The maximum on-center spacing between the cross tees is 2 ft (610 mm). Additional installation details are provided in the footnotes under Table 1.

4.3 Fixtures:

Lighting fixtures must be supported directly from the structure above the ceiling by hanger wires or other methods approved by the code official.

4.4 Partitions:

Partitions must be laterally supported as required by Section 13.5.8 of ASCE 7-16 (ASCE 7-10 for the 2015 IBC), as referenced by IBC Section 1613.

4.5 Seismic Design:

Seismic design and installation details of the ceiling system must be in accordance with IBC Section 1613, Section 13.5.6.2 of ASCE 7-16 (-10 for the 2015 IBC), and Section 4 of ASTM E580. ASTM E580 is referenced in Section 13.5.6.2 of ASCE 7, which is referenced in IBC Section 1613. Design loads and spans of framing members must not exceed the allowable loads and spans stated in Table 1.

4.5.1 MX24 and MX15 Systems: The design load in tension and compression for each framing member connection must not exceed 60 pounds (267 N). The MX24 and MX15 Systems are limited to use in Seismic Design Categories A, B and C with the following condition:

- In Seismic Design Category C, the ceiling weight must not exceed 2.5 psf (119.7 N/m^2).

4.6 Special Inspection:

Where special inspections are required by the building official, the suspended ceiling in SDC C, shall be subjected to periodic special inspections during the installation of the suspended ceiling systems and their anchorage in accordance with the following requirements:

- The special inspector must verify that the ceiling system is as described in this report and complies with the approved construction documents.
- A statement of special inspections must be provided as required in IBC Section 1704.3.

5.0 CONDITIONS OF USE:

The MX24 and MX15 Systems described in this report comply with, or are suitable alternatives to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

5.1 Design loads and spans of ceiling framing members must comply with Table 1 and its footnotes.

5.2 The ceiling framing systems must be designed and installed in accordance with ASCE 7, Section 13.5.6. The documents must be prepared by a registered design professional where required by the jurisdiction statutes in which the project will be constructed.

5.3 The ceiling systems must be braced to resist seismic forces as determined from Section 1613 of the IBC.

5.4 The ceiling framing system must not be used to provide lateral support for walls or partitions, except as provided in ASCE 7, Section 13.5.8.1.

5.5 The supporting construction for the ceiling system and connections of the ceiling system to the supporting construction have not been evaluated and are outside the scope of this report. The code official must approve the floor or roof construction supporting the suspended ceiling system.

5.6 Tile and Lay-in ceiling panels must be justified to the satisfaction of the code official as complying with the interior finish requirements of Chapter 8 of the IBC.

5.7 The ceiling systems are limited to ceiling not considered accessible.

5.8 The ceiling system evaluated in this report is limited to interior applications.

5.9 The MX24 and MX15 Systems described in this report are fabricated in accordance with a quality control program with inspections by ICC-ES.

6.0 EVIDENCE SUBMITTED

Data in accordance with portions of the ICC-ES Acceptance Criteria for Suspended Ceiling Framing (AC368) dated February 2024.

7.0 IDENTIFICATION

7.1 The ICC-ES mark of conformity, electronic labeling, or the evaluation report number (ICC-ES ESR-5239) along with the name, registered trademark, or registered logo of the report holder (Cipriani Profilati SB SRL) must be included in the product label.

7.2 In addition, the MX24 and MX15 Systems described in this report are marked with the product name (MX24 or MX15).

7.3 The report holder's contact information is the following:

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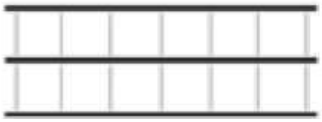
TABLE 1—TEETANIUM SYSTEMS DIMENSIONS AND ALLOWABLE LOADS FOR FRAMING MEMBERS[3]

SYSTEM	COMPONENT	CATALOG NO.	CATEGORY	DIMENSIONS (inches)				MAX. SPAN, L (ft)	ALLOWABLE (ASD) LOAD (lb/ft)
				Length	Width	Height	Base Metal Thick.		
MX24 Teetanium System[1]	Main Runner[2]	M24383658B	Intermediate Duty	144	15/16	1.50	0.0138	4	13.4
	Cross Tee	B24381220B	---	48		1.50	0.0098	4	7.4
		B2438610B	---	24		1.50	0.0098	2	20.8
		BL2425610B	---	24		1.0	0.0098	2	5.3
MX15 Teetanium System[4]	Main Runner	M15383658B	Intermediate Duty	144	9/16	1.50	0.0138	4	9.0
	Cross Tee	B15381220B	---	48		1.50	0.0098	4	7.1
		B1538610B	---	24		1.50	0.0098	2	20.8

For **SI** Units: 1 inch = 25.4 mm; 1 ft = 304.8 mm; 1 lb/ft = 14.59 N/m; 1 lbf = 4.448 N

[1] The provided design values are based on 2 x 2 ft panels assemblies shown below:

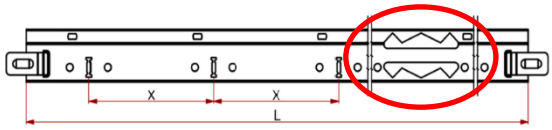
M24383658B main runners, spaced at 4ft on-center.
B24381220B cross tees, spaced at 2ft on-center (attached to main runners).
B2438610B or BL2425610B cross tees, attached to centers of the 4-ft cross tees.



M24383658B main runners, spaced at 2ft on-center.
B24381220B cross tees, spaced at 2ft on-center.

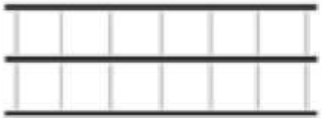
[2] The minimum height of the cross tees that are in direct contact with the main runners must be 1.5 inches.

[3] The suspended ceiling system must be installed in accordance with ASTM C636. For main runners with fire breaks as shown below, hanger wires are required on both sides of the fire break.



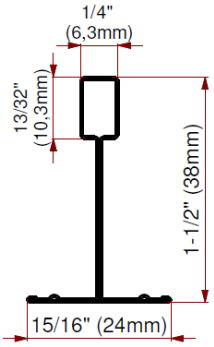
[4] The provided design values are based on 2 x 2 ft panels assemblies shown below:

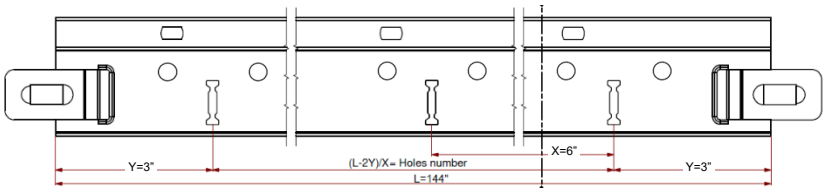
M15383658B main runners, spaced at 4ft on-center.
B15381220B cross tees, spaced at 2ft on-center (attached to main runners).
B1538610B cross tees, attached to centers of the 4-ft cross tees.



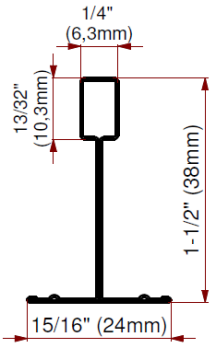
M15383658B main runners, spaced at 2ft on-center.
B15381220B cross tees, spaced at 2ft on-center.

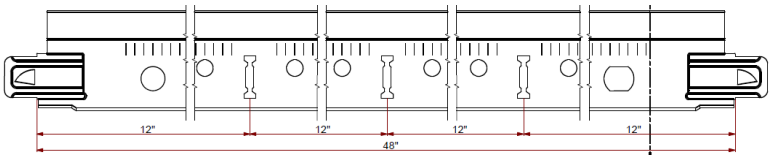
Main Runner
M24383658B



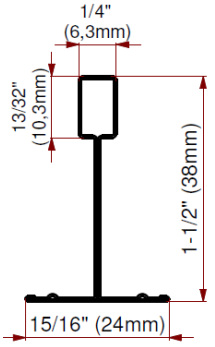


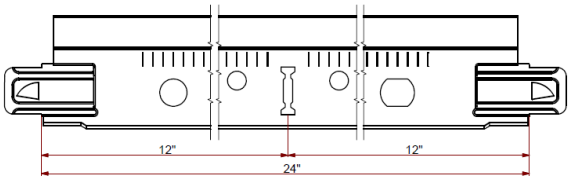
4-ft Cross Tee
B24381220B



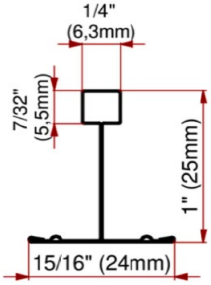


2-ft Cross Tee
B2438610B





2-ft Cross Tee
BL2425610B



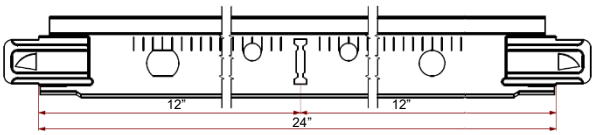
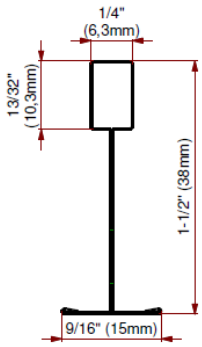
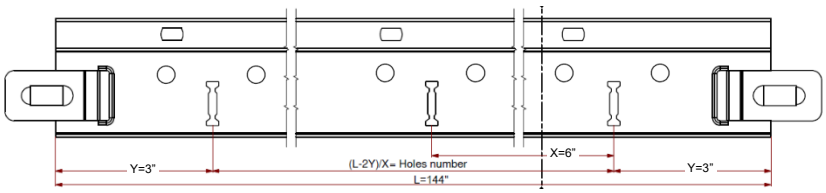


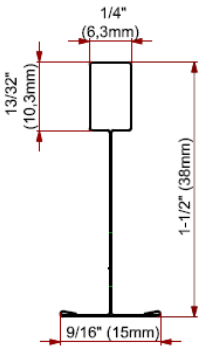
FIGURE 1—TYPICAL MX24 TEETANIUM SYSTEMS

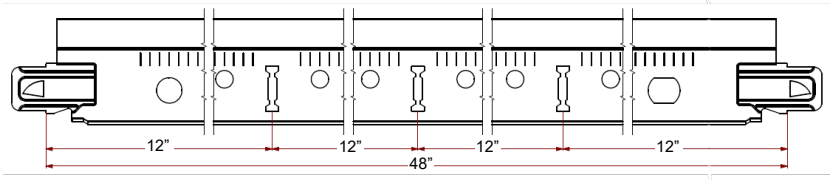
Main Runner
M15383658B



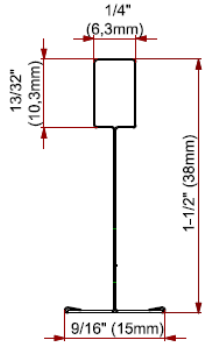


4-ft Cross Tee
B15381220B





2-ft Cross Tee
B1538610B



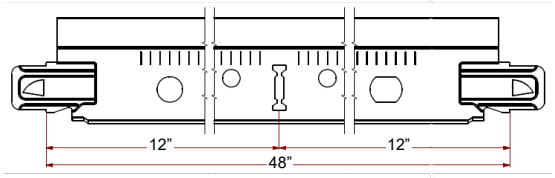


FIGURE 2—TYPICAL MX15 TEETANIUM SYSTEMS

ICC-ES Evaluation Report

ESR-5239 CA Supplement

Reissued October 2025

This report is subject to renewal October 2026.

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DIVISION: 09 00 00—FINISHES
Section: 09 22 26—Suspension Systems

REPORT HOLDER:

CIPRIANI PROFILATI SB SRL

EVALUATION SUBJECT:

MX24 AND MX15 TEETANIUM SYSTEMS

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that MX24 and MX15 Teetanium Systems, described in ICC-ES evaluation report ESR-5239, have also been evaluated for compliance with the codes noted below.

Applicable code edition*(s)*:

- *2022 California Building Code* (CBC)

For evaluation of applicable Chapters adopted by the California Office of Statewide Health Planning and Development (OSHPD) AKA: California Department of Health Care Access and Information (HCAI) and the Division of State Architect (DSA), see Sections 2.1.1 and 2.1.2 below.

2.0 CONCLUSIONS

2.1 CBC:

The MX24 and MX15 Teetanium Systems, described in Sections 2.0 through 7.0 of the evaluation report ESR-5239, comply with CBC Chapters 8, 16 and 25, provided the design and installation are in accordance with the 2021 *International Building Code*® (IBC) provisions noted in the evaluation report and the additional requirements of CBC Chapters 16, 17 and 25, as applicable.

2.1.1 OSHPD: The applicable OSHPD Sections and Chapters of the CBC are beyond the scope of this supplement.

2.1.2 DSA: The applicable DSA Sections and Chapters of the CBC are beyond the scope of this supplement.

This supplement expires concurrently with the evaluation report, reissued October 2025.