**Product Name:** 1-1/2” Drywall System

**Manufacturer:** CertainTeed Ceilings Corporation

# SECTION 09 22 26.23 (092226) – METAL SUSPENSION SYSTEMS

## PART 1 – GENERAL

* 1. RELATED DOCUMENTS

A. Drawings and general provisions of the contract apply to this section. This includes General and Supplementary Conditions of Division 01 (1) Specification Sections.

* 1. SUMMARY

1. Section includes Drywall System components for gypsum and plaster board assemblies
2. Related Sections
3. Section 09 20 00 (09250) – Plaster and Gypsum Board
4. Section 09 50 00 (09500) – Ceilings
5. Section 09 51 00 (09510) – Acoustic Ceilings
6. Division 23 (15) – Heating, Ventilating and Air Conditioning (HVAC)
7. Division 26 (16) – Electrical
   1. REFERENCES
8. ASTM A641 – *Specification for Steel Sheet, Zinc-Coated (galvanized) Carbon Steel Wire*
9. ASTM A653 – *Standard Specification for Steel Sheet, Zinc-Coated (galvanized) or Zinc-Iron Alloy-Coated (galvannealed) by the Hot-Dip Process*
10. ASTM A1008 – *Standard Specification for Steel, Sheet, Cold Rolled, Carbon, Structural, High-Strength Low-Alloy and High-Strength Low-Alloy with Improved Formability*
11. ASTM C635 – *Standard Specification for Metal Suspension Systems for Acoustic Tile and Lay-in Panel Ceilings*
12. ASTM C636 – *Recommended Practice for Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-in Panel Ceilings*
13. ASTM C645 – *Standard Specification for Nonstructural Steel Framing Members*
14. ASTM C754 – *Installation of Steel Framing Members to Receive Screw-Attached Gypsum Board*
15. ASTM C841 – *Standard Specification for Application of Interior Gypsum Plaster*
16. ASTM C842 – *Standard Specification for Installation of Interior Lathing & Furring*
17. ASTM C847 – *Standard Specification for Metal Lath*
18. ASTM C1002 – *Standard Specification for Steel Drill Screws for the Application of Gypsum Board or Metal Plaster Bases*
19. ASTM D610 – *Standard Test Method for Evaluating Degree of Rusting on Painted Steel Surfaces*
20. ASTM E119 – *Fire Test of Building Construction and Materials*
21. CISCA (Ceilings & Interior Systems Construction Association) – *Ceilings Systems Handbook*
22. International Code Council-Evaluation Services Report - Seismic Engineer Report
23. International Living Future Institute – *LBC Declare Label*
    1. SUBMITTALS
24. Product Data
25. Submit manufacturer’s published technical information for each product indicated
26. Shop Drawings
27. Submit reflected ceiling plans drawn to scale prescribed by Architect
    1. Include coordinated penetrations and ceiling-mounted items
    2. Include any necessary details or drawings from the manufacturer regarding recommended installation
28. Samples
29. Submit 12 inch long samples of suspension system components, including main runner, cross tee, wall angle
30. Submit representative manufacturer’s sample of each suspension member indicated
31. Certifications

# Provide manufacturer’s written certification that products submitted meet or exceed all specified requirements

* 1. QUALITY ASSURANCE

1. Source Limitations
2. Drywall Suspension System
   1. Obtain all drywall framing components through one source from a single manufacturer
3. Installer Qualifications
4. Must be experienced in the installation of systems similar to those specified herein
5. Fire Resistance Ratings
6. When drywall ceiling is functioning as the fire protective barrier, specific performance is referenced in UL Fire Resistance Directory, tested according to ASTM E119. Installation in accordance with specific UL Design referenced.
   1. DELIVERY, STORAGE AND HANDLING
7. Delivery of drywall suspension system will be in the original unopened packages with the manufacturer’s label intact
8. Handling and storage should be in accordance with the manufacturer’s Safety Data Sheets (SDS)
9. Product cartons should be handled carefully to avoid damage
   1. COORDINATION
10. Coordinate the installation of the drywall suspension system with any and all trades whose work is impacted by that installation
    1. EXTRA MATERIALS
11. Provide extra materials in the manufacturer’s unopened packaging, with the manufacturer’s label intact, as detailed below
12. Suspension System Components – Minimum 5% of each type installed

**PART 2 - PRODUCTS**

2.1 MANUFACTURER

1. CertainTeed Ceilings
2. Address: 20 Moores Road, Malvern, PA 19355
3. Telephone: 800-233-8990
4. Web: [www.certainteed.com/ceilings](http://www.certainteed.com/ceilings)

2.2 SUSPENSION SYSTEM

1. Manufacturer: CertainTeed Ceilings
2. Product
3. Name: 1-1/2” Drywall System
4. Physical Characteristics
5. Double web design manufactured of hot-dipped galvanized steel
6. Knurled face for ease of screw installation
7. Heavy-duty materials for maximum rigidity and screw grip
8. 0.020” metal thickness
9. Cross-tees feature staked-on end tabs to facilitate tightness, ease of installation
10. System incorporates G40 hot-dipped galvanization as standard galvanization
    1. G90 available on all components for extreme or exterior environments
11. Independent Environmental Certifications
    1. Living Building Challenge Declare Label
       1. *LBC Red List Free*, per International Living Future Institute
12. Components
13. Main Runners
    1. DWS12-13-20
       1. Size: L:144” x H:1.6” x W:1.5”
       2. DWS12-13-20 G90
14. Cross Tees
    1. DWS1.16-13-20
       1. Size: L:14” x H:1.6” x W:1.5”
       2. DWS1.16-13-20 G90
    2. DWS2-13-20
       1. Size: L:24” x H:1.6” x W:1.5
       2. DWS2-13-20 G90
    3. DWS2.16-13-20
       1. Size: L:26” x H:1.6” x W:1.5”
       2. DWS2.16-13-20 G90
    4. DWS3-13-20
       1. Size: L:36” x H:1.6” x W:1.5”
       2. DWS3-13-20 G90
    5. DWS4-13-20
       1. Size: L:48” x H:1.6” x W:1.5”
       2. DWS4-13-20 G90
    6. DWS4.16-13-20
       1. Size: L:50” x H:1.6” x W:1.5”
       2. DWS4.16-13-20 G90
    7. DWS6-13-20
       1. Size: L:72” x H:1.6” x W:1.5”
       2. DWS6-13-20 G90
15. Wall Molding
    1. DWA1.5-1.5
       1. Size: L:144” x Leg1: 1.5” x Leg2: 1.5”
       2. DWA1.5-1.5 G90
    2. DWA2-2
       1. Size: L:144” x Leg1: 2” x Leg2: 2”
16. Terminus Drywall Perimeter Trim
    1. Drywall Straight
       1. TTDW-2 WHT
          1. Size: L:120” x H:2.688” x F:1”
       2. TTDW-4 WHT
          1. Size: L:120” x H:4.688” x F:1”
       3. TTDW-6 WHT
          1. Size: L:120” x H:6.688” x F:1”
       4. TTDW-8 WHT
          1. Size: L:120” x H:8.688” x F:1”
    2. Drywall Curved
       1. TTDWR-2
          1. Size: L:120” x H:2.688” x F:1”
       2. TTDWR-4
          1. Size: L:120” x H:4.688” x F:1”
       3. TTDWR-6
          1. Size: L:120” x H:6.688” x F:1”
       4. TTDWR-8
          1. Size: L:120” x H:8.688” x F:1”
    3. Drywall Corners
       1. TTDWCKI-2 WHT
          1. Size: L:2” x H:2.688” x F:1”
       2. TTDWCK0-2 WHT
          1. Size: L:2” x H:2.688” x F:1”
       3. TTDWCKI-4 WHT
          1. Size: L:2” x H:4.688” x F:1”
       4. TTDWCK0-4 WHT
          1. Size: L:2” x H:4.688” x F:1”
       5. TTDWCKI-6 WHT
          1. Size: L:2” x H:6.688” x F:1”
       6. TTDWCK0-6 WHT
          1. Size: L:2” x H:6.688” x F:1”
       7. TTDWCKI-8 WHT
          1. Size: L:2” x H:8.688” x F:1”
       8. TTDWCK0-8 WHT
          1. Size: L:2” x H:8.688” x F:1”
17. Structural Classification
    1. Main Runners classified as heavy duty, per ASTM C635 and ASTM C645
       1. For C635, suspension system deflection limited to L/360
       2. For C645, suspension system deflection limited to L/240
    2. Seismic Restraints: Pursuant to CISCA recommendations, ASTM E580 and local code requirements
    3. ICC-ES Evaluation Service Report (ESR-3941)

a. Suspended Drywall Ceiling Framing System

## PART 3 – EXECUTION

3.1 EXAMINATION

1. Ascertain acceptability of substrates and building conditions under which the ceiling system is to be installed. Do not proceed with the installation until any and all unacceptable conditions have been rectified. The CertainTeed Drywall System can be installed in both interior and exterior applications.

3.2 INSTALLATION

1. Install the ceiling system in accordance with the following:
2. Manufacturer’s printed instructions
3. ASTM C636
4. Ceilings & Interior Systems Construction Association (CISCA) recommendations
5. Applicable local code requirements
6. Approved shop drawings

# END OF SECTION

**CertainTeed Ceilings shall be held harmless for any damages resulting from the use of this specification guide**