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DIVISION: 05 00 00 – METALS
Section: 05 40 00 – Cold-Formed Metal Framing
Section: 05 41 00 – Structural Metal Stud Framing
Section: 05 42 00 – Cold-Formed Metal Joist
DIVISION: 09 00 00 – FINISHES
Section: 09 22 16 – Nonstructural Metal Framing

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CITY OF INDUSTRY, CA 91746
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CLARKDIETRICH™ BUILDING SYSTEMS
9050 CENTRE POINTE DR., SUITE 400
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STEEFAST FRAMING SYSTEMS
575 INDUSTRIAL PARKWAY
GREENVILLE, ALABAMA 36037
334-383-0333

REPORT SUBJECT:**Standard Cold-Formed Steel Framing Members****1.0 SCOPE OF EVALUATION**

1.1. This research report addresses compliance with the following Codes:

- 2024, 2021, and 2018 *International Building Code*® (IBC)
- 2024, 2021, and 2018 *International Residential Code*® (IRC)
- 2023 and 2020 *Florida Building Code - Building* (FBC-B) (see Section 8.1)
- 2023 and 2020 *Florida Building Code - Residential* (FBC-R) (see Section 8.1)
- 2022 *California Building Code* (CBC) (see Section 8.2)
- 2022 *California Residential Code* (CRC) (see Section 8.2)
- 2023 *City of Los Angeles Building Code* (see section 8.3)

1.2. NOTE: This report references 2018 IBC Code sections with [2015] IBC Code sections shown in brackets where they differ. Standard Cold-Formed Steel Framing Members have been evaluated for the following properties:

- Structural
- Corrosion protection

1.3. Cold-formed steel framing members (studs, tracks, and U-channels) recognized in this report are used for framing of nonload-bearing interior walls, curtain walls, load-bearing walls, floor joists, headers, roof rafters and roof trusses.

2.0 STATEMENT OF COMPLIANCE

Cold-formed steel framing members comply with the Codes listed in Section 1.1, for the properties stated in Section 1.2 and uses stated in Section 1.3, when installed as described in this report, including the Conditions of Use stated in Section 6.

2.1 2024 IBC and IRC Evaluation Reports

The Intertek CCRR is an *Evaluation Report* for approval of an alternate material, design, or method of construction in accordance with Section 104.2.3.6.1 of the 2024 IBC and Section R104.2.2.6.1 of the 2024 IRC.

3.0 DESCRIPTION**3.1. Materials**

3.1.1. Non-structural steel framing members are cold-formed from steel coils conforming to ASTM A 1003 Non-Structural Grade, Type NS. Non-structural members have a minimum protective coating of G40 galvanization conforming to ASTM A 653.

3.1.2. Structural steel framing members are cold-formed from steel coils conforming to ASTM A 1003 Structural Grade 33 Type H and Structural Grade 50 Type H. Structural members have a minimum protective coating in accordance with Table A4-1 CP 60 as listed in AISI S240 [Table 1, CP 60 as listed in ASTM C 955.]

3.2. Studs are manufactured with and without factory web punchouts. Web punchout holes are spaced a minimum of 24 inches on center along the stud length and shall not be located less than 10 inches from the end of the member to the near edge of the web punchout. Web punch-out widths shall not exceed 2.5 inches, or half of the member depth. Web punch-out length shall not exceed 4.5 inches. Tracks and U-channels are manufactured without web punch-outs.

3.3. See page 2 of the SFIA Technical Guide for Cold-Formed Steel Framing Products for member designations.

4.0 PERFORMANCE CHARACTERISTICS

4.1. Reference the SFIA Technical Guide for Cold-Formed Steel Framing Products (attached) for section properties in accordance with AISI S100 and design capacities and tables established in accordance with AISI S220 and, AISI S240, where only the following pages are within the scope of this report:

4.1.1. General Product Information on pages 2-4.





4.1.2. Non-Structural Stud, Structural Stud, and Track Section Properties on pages 5-16.

4.1.3. Limiting Wall Heights Tables for Interior Non-Structural Non-Composite on pages 17-19.

4.1.4. Limiting Wall Height Tables for Interior Non-Structural Composite on pages 20-21. Gypsum wall board must be a minimum of 5/8" thick and Type X, complying with ASTM C1396 and manufactured by American Gypsum, CertainTeed, Georgia Pacific, Lafarge, National Gypsum, Temple-Inland, or USG. The interior nonload-bearing wall assemblies shall be limited to interior installations where the superimposed axial load is zero pounds.

4.1.5. Limiting Wall Heights Tables for Curtain Wall Single-Span on pages 22-30.

4.1.6. Combined Axial and Lateral Allowable Load Tables on pages 31-61

4.1.7. Allowable Floor Joist Span Tables on pages 62-65.

4.1.8. Header Allowable Load Tables on pages 66-68. Lateral bracing of the compression flange shall be spaced at intervals not exceeding L_u (see section properties) to develop full allowable bending strength, M_a .

4.1.9. Allowable Web Crippling Load Tables on pages 69-73.

4.1.10. Channel Section Properties on pages 74-76. Allowable moments (M_a) apply to flexural members with the compression flange continuously braced.

4.2. For construction governed by the FBC High Velocity Hurricane Zone (HVHZ), the interior wall heights are limited to the heights at the L/240 and L/360 deflection levels.

5.0 CONDITION OF USE

The cold-formed steel framing members described in this Research Report comply with, or is a suitable alternative

to, what is specified in those Codes listed in Sections 1.0 and 2.0 of this report, subject to the following conditions:

5.1. Installation must comply with this Research Report, the manufacturer's published installation instructions and the applicable Code. In the event of a conflict between the manufacturer's instructions and this report, this report governs.

5.2. All designs and calculations shall be prepared by a licensed design professional according to the requirements in the jurisdiction where the project is located.

5.3. Jobsite manufacturing of studs or tracks is outside the scope of this report.

5.4. Wall assemblies based upon non-composite construction, pages 17-19 of the attached SFIA Technical Guide, are limited to a lateral (transverse) load of not more than 10 lb/ft², a superimposed vertical load, exclusive of sheathing materials, of not more than 100 lbf/ft, or a superimposed vertical load of not more than 200 lbs per stud.

5.5. The minimum base steel thickness of the section delivered to the jobsite must be 95% of the design thickness noted on page 3 of the SFIA Technical Guide for Cold-Formed Steel Framing Products.

5.6. Cold-Formed steel framing members identified in this report are manufactured at the manufacturing facilities recognized in Table 2 in accordance with the manufacturer's approved quality control system with inspections by Intertek.

6.0 SUPPORTING EVIDENCE

6.1. Manufacturer's drawings and installation instructions.

6.2. Steel Framing Industry Association Technical Guide for Cold-Formed Steel Framing Products, Version 2023.1 published February 2023

6.3. Reports of testing and engineering analysis demonstrating compliance with ICC-ES AC46, *Acceptance*





Criteria for Cold-formed Steel Framing Members, approved October 2019 (editorially revised December 2020).

6.4. Reports of evaluation and engineering analysis in accordance with AISI S100-16, North American Specification for the Design of Cold-Formed Steel Structural Members.

6.5. Reports of testing and engineer analysis demonstrating compliance with ICC-ES AC86, Acceptance Criteria for Cold-Formed Steel Framing Members - Interior Nonload-Bearing Wall Assemblies, approved June 2019 (editorially revised October 2021).

6.6. Documentation of an Intertek approved quality control system for the manufacturing of products recognized in this report.

7.0 IDENTIFICATION

The Standard Cold-Formed Steel Framing Members described in this Research Report are identified with labeling at a maximum of 96 inches that includes the following information:

7.1. Manufacturer's name, logo, or other positive identification;

7.2. For structural steel framing members: framing member designation, uncoated metal thickness, yield strength, and galvanization coating designation, CP60

7.3. For non-structural steel framing members: framing member designation, uncoated metal thickness, yield strength if other than 33 ksi, galvanization coating if other than G40, and designation "NS".

7.4. Intertek designation and Code Compliance Research Report number (Intertek CCRR-0224)

7.5. Bundles of like members shall be identified with the, manufacturer's name, length of product, quantity of product, uncoated metal thickness, yield strength, galvanization coating, and Intertek identification mark and Code Compliance Research Report number as shown:



8.0 OTHER CODES

8.1. FLORIDA BUILDING CODE

8.1.1. Scope of Evaluation: The Standard Cold-Formed Steel Framing Members were evaluated for compliance with the 2023 and 2020 *Florida Building Code – Building and Florida Building Code – Residential*.

8.1.2. Conclusion: The Standard Cold-Formed Steel Framing Members, described in Sections 2.0 through 7.0 of this Research Report, comply with the 2023 and 2020 *Florida Building Code – Building and Florida Building Code – Residential*, including the High-Velocity Hurricane Zone provisions.

8.2. CALIFORNIA BUILDING CODE

8.2.1. Scope of Evaluation: The Standard Cold-Formed Steel Framing Members were evaluated for compliance with the 2022 *California Building Code* and *California Residential Code*.

8.2.2. Conclusion: The Standard Cold-Formed Steel Framing Members, described in Sections 2.0 through 7.0 of this Research Report, comply with the 2022 *California Building Code* and *California Residential Code*.

8.3. CITY OF LOS ANGELES BUILDING CODE

8.3.1. Scope of Evaluation: The Standard Cold-Formed Steel Framing members were evaluated for compliance with the 2023 *City of Los Angeles Building Code* and *City of Los Angeles Residential Code*.





8.3.2. Conclusion: The Standard Cold-Formed Steel Framing Members, described in Sections 2.0 through 7.0 of this Research Report, complies with the City of Los Angeles Build Code, and City of Los Angeles Residential Code for the editions indicated in Section 1.1 of this report.

9.2. Code Compliance Research Reports shall not be used in any manner that implies an endorsement of the product by Intertek.

9.3. Reference to the Intertek web site, <https://bpdirectory.intertek.com> is recommended to ascertain the current version and status of this report.

9.0 CODE COMPLIANCE RESEARCH REPORT USE

9.1. Approval of building products and/or materials can only be granted by a building official having legal authority in the specific jurisdiction where approval is sought.

Table 1 – Code Referenced Standards

2024 and 2021 IBC [2018 IBC]		2023 FBC [2020 FBC]		2022 CBC and 2023 LABC	
Structural members	Nonstructural members	Structural members	Nonstructural members	Structural members	Nonstructural members
AISI S100-16(2020) w/S2-20 [AISI S100-16]	AISI S100-16(2020) w/S2-20 [AISI S100-16]	AISI S100-16(2020) w/S2-20 [AISI S100-16]	AISI S100-16(2020) w/S2-20 [AISI S100-16]	AISI S100-16(2020) w/S2-20	AISI S100-16(2020) w/S2-20
AISI S240-20 [AISI S240-15]	AISI S220-20 [AISI S220-15]	AISI S240-20 [AISI S240-15]	AISI S220-20 [AISI S220-15]	AISI S240-20	AISI S220-20

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TABLE 2 – MANUFACTURING LOCATIONS

Listee	Location	Structural	Non-Structural
CEMCO	263 North Covina Lane, City of Industry, CA 91746	X	
	490 Osage Street, Denver, CO 80204	X	
	8600 Will Rodgers Boulevard, Fort Worth, TX 76140	X	
	1741-A Pittsburg-Antioch Highway, Pittsburg, CA 94565	X	
ClarkDietrich™ Building Systems	38020 Pulp Drive, Dade City, FL 33523	X	X
	6510 General Drive, Riverside, CA 92509	X	X
	1685 Tide Court, Woodland, CA 95776	X	X
Deluxe Building Products LLC	1350 East Lexington Ave., Pomona, CA 91766	X	X
Framesteel	4231 Liberty Boulevard, South Gate, CA 90280	X	X
Frametek Steel Products	1495 Columbia Avenue, Riverside, CA 92507	X	X
Jaimes Industries	12658 Richfield Court, Livonia, MI 48150	X	X
MBA Building Supplies	2200 Tempel Drive, Libertyville, IL 60048	X	X
	1217 West Grand Ave Rainbow City, AL 35906	X	
	100 Fireman's Rd, Frackville, PA 17931	X	
	10880 Bekay Street, Dallas, TX 75238	X	
Mill Steel Framing	116 Finley Ave W, Birmingham, AL 35204	X	
	555 Gellhorn Dr, Houston, TX 77029	X	
	1195 Port Rd, Jeffersonville, IN 47130	X	X
Panel Rey	Carr. Monterrey-Monclova Km. 11.5, El Carmen, Nuevo León, México 66560	X	X
Premier Steel Fabrication	10811 Rush Street, South El Monte, CA 91733		X
R&P Supply	2642 East Lone Mountain Road, North Las Vegas, NV 89081	X	X
Steelfast Framing Systems	575 Industrial Parkway, Greenville, AL 36037	X	X

