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ESR-3503

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DIVISION: 05 00 00—METALS
SECTION: 05 40 00—COLD-FORMED METAL FRAMING
DIVISION: 09 00 00—FINISHES
SECTION: 09 22 16.13—NON-STRUCTURAL METAL STUD FRAMING

REPORT HOLDER:

OLMAR SUPPLY INC.

2140 RESEARCH DRIVE
LIVERMORE, CALIFORNIA 94550

EVALUATION SUBJECT:

PRIMESTUD DRYWALL FRAMING SYSTEM (NONLOAD-BEARING): PRIMESTUD STUD AND PRIMESTUD TRACK

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ICC-ES Evaluation Report

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DIVISION: 05 00 00— METALS
Section: 05 40 00— Cold-Formed Metal Framing

DIVISION: 09 00 00—FINISHES
Section: 09 22 16.13—Non-Structural Metal Stud Framing

REPORT HOLDER:

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ADDITIONAL LISTEES:

CUSTOM STUD INC.
8415 220TH STREET WEST
LAKEVILLE, MINNESOTA 55044
(952) 985-7000
www.customstud.com

FRAMETEK STEEL PRODUCTS INC.
1495 COLUMBIA AVENUE, BUILDING 4
RIVERSIDE, CALIFORNIA 92507
(951) 369-5204
www.frameteksteel.com

EVALUATION SUBJECT:

PRIMESTUD DRYWALL FRAMING SYSTEM (NONLOAD-BEARING): PRIMESTUD STUD AND PRIMESTUD TRACK

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2015, 2012 and 2009 *International Building Code*® (IBC)
- 2013 *Abu Dhabi International Building Code* (ADIBC)†

†The ADIBC is based on the 2009 IBC. 2009 IBC code sections referenced in this report are the same sections in the ADIBC.

Properties evaluated:

Structural

2.0 USES

PrimeStud Studs and Tracks are used for the framing of interior nonload-bearing composite walls.

3.0 DESCRIPTION

3.1 General:

The PrimeStud Stud is roll-formed in a “C” shape with an offset in the web (planking) and hemmed return flanges. The PrimeStud Tracks are channel-shaped with offsets (planking) in the web and hemmed return flanges. The studs are manufactured with and without punch-outs for members with depths greater than or equal to 2.5 inches (63.5 mm). Punch-outs are spaced at 24 inches (610 mm) on center along the centerline of the member, with the centerline of the punch-out 12 inches (305 mm) from the end of the member, when provided. See Figures 1 and 2 for stud and track configurations, and Figure 3 for punch-out configurations of the studs. See Table 1 for manufacturing locations.

3.2 Material:

3.2.1 Steel: The studs and tracks are cold-formed from steel coils complying with the Olmar Supply published specification with a minimum yield strength of 41 ksi (283 MPa). The member thicknesses are specified in Table 2. The studs and tracks have a minimum G40 coating in accordance with ASTM A1003.

3.2.2 Gypsum Wallboard: The limiting heights in Table 3 are based on use of gypsum wallboard which is a minimum of $^5/_8$ inch (15.9 mm) thick, Type X, complying with ASTM C1396, and manufactured by one of the following companies: American Gypsum, CertainTeed, Georgia Pacific, Lafarge, National Gypsum, Temple-Inland, or USG.

3.2.3 Fasteners: Fasteners for attaching the gypsum wallboard to studs and tracks must be No. 6 by $1^1/_4$–inch-long (32 mm), Type S, fine thread, drywall bugle head screws conforming to ASTM C1002.

4.0 DESIGN AND INSTALLATION

Limiting heights for interior, nonload-bearing, composite walls are shown in Table 3. Installation of studs and tracks must be in accordance with the approved plans and this report. The approved plans must be available on the jobsite at all times during installation. See the footnotes to Table 3 for installation details.

5.0 CONDITIONS OF USE

The studs and tracks described in this report comply with, or are suitable alternatives to what is specified in, those codes indicated in Section 1.0 of this report, subject to the following conditions:

5.1 Installation must comply with the approved plans and this report. In the event of a conflict, this report governs.

5.2 Minimum uncoated base-metal thickness of the framing members delivered to the jobsite must be at least 95 percent of the design base-metal thickness (see Table 1).

5.3 Use of the studs and tracks is limited to interior nonload-bearing wall assemblies where the superimposed axial load is zero pounds. Any other use is outside the scope of this report.

5.4 Design of the attachment of the wall to the surrounding structure is outside the scope of this report.

5.5 Installation of the gypsum wallboard must comply with the requirements of ASTM C840 or GA-216.

6.0 EVIDENCE SUBMITTED

Data in accordance with the ICC-ES Acceptance Criteria for Cold-formed Steel Framing Members—Interior Nonload-bearing Wall Assemblies (AC86), dated May 2012 (editorially revised August 2015).

7.0 IDENTIFICATION

Each PrimeStud stud or track must have a legible label or stamp, at a maximum spacing of 96 inches (2438 mm) on center, indicating the member designation, manufacturer's name (Custom Stud, Frametek Steel Products, or Olmar Supply), the minimum yield strength in ksi, the coating designation (if greater than G40), the designation "NS", and the evaluation report number (ESR-3503).

TABLE 1—MANUFACTURING LOCATIONS

Custom Stud Inc. Montgomery, Alabama 36108	Custom Stud Inc. Lakeville, Minnesota 55004	Frametek Steel Products Riverside, California 92507	Olmar Supply Inc. Livermore, California 94550

TABLE 2—MEMBER THICKNESSES

STUD DESIGNATION[1]	TRACK DESIGNATION[1]	MINIMUM BASE-METAL THICKNESS (inch)	DESIGN THICKNESS (inch)	MINIMUM YIELD STRENGTH (ksi)
xxxPS125-15	xxxPT125-15	0.0150	0.0158	41
xxxPS137-19	xxxPT125-19	0.0190	0.0200	41
xxxPS137-24	xxxPT125-24	0.0236	0.0248	41

For **SI:** 1 inch = 25.4 mm, 1 ksi = 6.895 MPa.

[1]xxx is the web size in $^{1}/_{100}$ of an inch and is equal to 162 for $1^{5}/_{8}$ inches, 250 for $2^{1}/_{2}$ inches, 362 for $3^{5}/_{8}$ inches, 400 for 4 inches, and 600 for 6 inches.

TABLE 3—LIMITING HEIGHTS—COMPOSITE WALLS[1,2,3,4] (ft-in)

MEMBER DESIGNATION	SPACING (in)	TRANSVERSE LOAD											
		5 psf			7.5 psf			10 psf			15 psf		
		$L/120$	$L/240$	$L/360$	$L/120$	$L/240$	$L/360$	$L/120$	$L/240$	$L/360$	$L/120$	$L/240$	$L/360$
162PS125-15	12	12-8	11-0	9-9	10-8	9-7	8-2	9.3	8-6	---	---	---	---
	16	12-1	10-7	9-2	10-0	9-0	---	8-8	7-11	---	---	---	---
	24	10-8	9-7	8-0	8-9	7-10	---	---	---	---	---	---	---
250PS125-15	12	15-11	13-9	12-1	13-4	12-0	10-6	11-7	10-11	9-6	---	---	---
	16	15-0	13-0	11-6	12-5	11-4	10-0	10-9	10-4	8-8	---	---	---
	24	13-2	11-9	10-5	10-9	10-4	8-6	9-4	9-0	---	---	---	---
362PS125-15	12	20-9	17-0	14-10	17-0	14-10	12-11	14-8	13-6	11-9	9-8	9-8	9-8
	16	18-0	15-5	13-6	14-8	13-6	11-9	12-9	12-3	10-6	8-4	8-4	8-4
	24	14-8	13-6	11-9	12-0	11-9	10-1	10-5	10-5	9-0	---	---	---
400PS125-15	12	22-6	18-8	16-4	18-5	16-4	14-3	15-11	14-10	12-11	10-6	10-6	10-6
	16	19-6	16-11	14-10	15-11	14-10	12-11	13-10	13-5	11-9	9-1	9-1	9-1
	24	15-11	14-10	12-11	13-0	12-11	11-3	11-3	11-3	10-0	---	---	---
600PS125-15	12	27-1	25-6	22-5	22-1	22-1	19-7	19-2	19-2	17-10	12-7	12-7	12-7
	16	23-5	23-2	20-5	19-2	19-2	17-10	16-7	16-7	16-2	---	---	---
	24	19-2	19-2	17-10	15-7	15-7	15-6	13-6	13-6	13-6	---	---	---
162PS137-19	12	13-0	11-1	9-9	11-2	9-8	8-2	9-10	8-6	---	---	---	---
	16	12-4	10-7	9-1	10-6	9-0	7-6	9-3	7-10	---	---	---	---
	24	11-1	9-6	7-10	9-4	7-9	---	8-2	---	---	---	---	---
250PS137-19	12	16-9	13-11	12-3	14-4	12-2	10-8	12-8	11-1	9-8	8-4	8-4	7-11
	16	15-6	13-2	11-8	13-2	11-6	10-2	11-8	10-6	8-11	---	---	---
	24	13-9	11-11	10-7	11-7	10-5	8-9	10-0	9-2	---	---	---	---
362PS137-19	12	21-8	17-6	15-3	18-3	15-3	13-4	16-1	13-10	12-1	10-7	10-7	12-2
	16	19-2	15-10	13-10	16-1	13-10	12-1	13-11	12-7	10-11	9-2	9-2	9-0
	24	16-1	13-10	12-1	13-2	12-1	10-5	11-5	10-10	9-4	---	---	---
400PS137-19	12	23-7	19-2	16-9	19-10	16-9	14-7	17-6	15-2	13-3	11-6	11-6	11-1
	16	20-10	17-5	15-2	17-6	15-2	13-3	15-2	13-10	12-1	10-0	10-0	9-10
	24	17-6	15-2	13-3	14-4	13-3	11-7	12-5	11-9	10-5	---	---	---
600PS137-19	12	29-8	26-3	23-0	24-2	22-10	20-1	20-11	20-2	18-3	13-9	13-9	13-9
	16	25-8	23-10	20-11	20-11	20-2	18-3	18-2	17-10	16-7	11-11	11-11	11-11
	24	20-11	20-2	18-3	17-1	16-0	15-11	14-10	14-10	14-1	---	---	---
162PS137-24	12	14-7	12-1	10-8	12-9	10-6	8-11	11-7	9-5	---	8-7	---	---
	16	13-3	10-11	9-7	11-7	9-5	---	10-6	8-1	---	---	---	---
	24	11-7	9-5	---	10-1	---	---	9-0	---	---	---	---	---
250PS137-24	12	17-11	14-3	12-5	15-8	12-5	10-10	14-3	11-4	9-10	9-4	9-4	8-3
	16	16-4	13-6	11-11	14-3	11-9	10-5	12-11	10-8	9-3	8-6	8-6	---
	24	14-7	12-1	10-9	12-9	10-7	9-0	11-0	9-6	---	---	---	---
362PS137-24	12	22-11	18-2	15-11	20-0	15-11	13-11	18-1	14-5	12-7	11-11	11-11	10-11
	16	20-10	16-6	14-5	18-1	14-5	12-7	15-8	13-1	11-5	10-4	10-4	9-10
	24	18-1	14-5	12-7	14-9	12-7	10-11	12-10	11-5	9-10	8-5	8-5	8-5
400PS137-24	12	25-1	19-11	17-4	21-11	17-4	15-2	19-10	15-9	13-9	13-0	13-0	12-1
	16	22-9	18-1	15-9	19-10	15-9	13-9	17-2	14-4	12-6	11-3	11-3	10-10
	24	19-10	15-9	13-9	16-2	13-9	12-1	14-0	12-6	10-10	9-3	9-3	9-3
600PS137-24	12	33-4	27-3	23-10	27-2	23-10	20-9	23-7	21-7	18-11	15-6	15-6	15-6
	16	28-10	24-9	21-7	23-7	21-7	18-11	20-5	19-8	17-2	13-5	13-5	13-5
	24	23-7	21-7	18-11	19-3	18-11	16-6	16-8	16-8	15-0	---	---	---

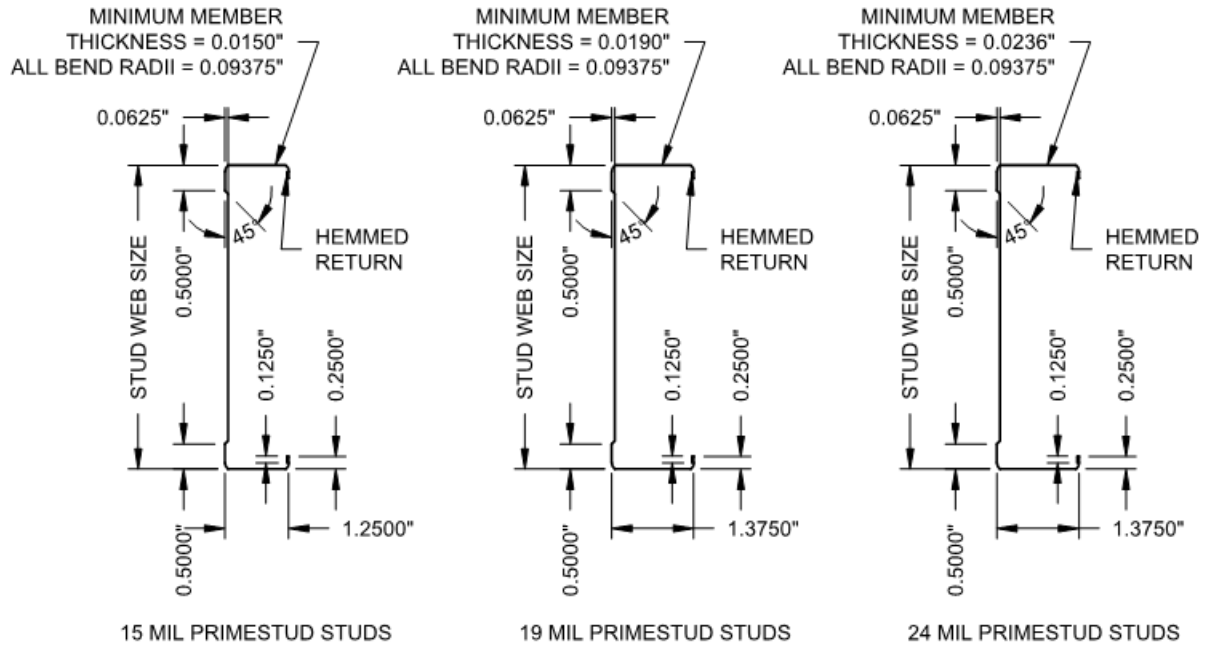
For **SI:** 1 inch = 25.4 mm, 1 psf = 47.88 Pa.

[1]Gypsum wallboard, complying with Section 3.2.2, must be attached on both sides of the wall framing for the full height of the wall with the long dimension of the gypsum wallboard parallel to the studs.

[2]Placement of the joints in the gypsum sheathing must be in accordance with Sections 4.6.3 and 4.6.4 of GA-216 (Gypsum Association Application and Finishing of Gypsum Panel Products) or Section 7.5 of ASTM C840.

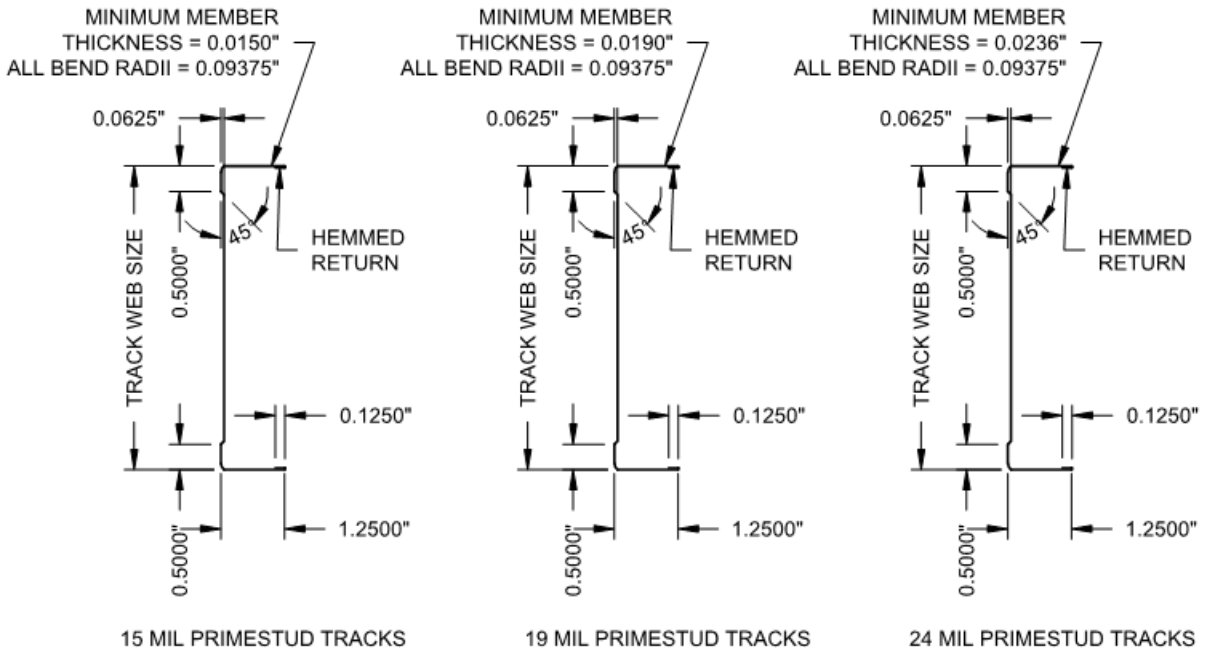
[3]End bearing of studs must be a minimum of 1 inch.

[4]Fasteners, complying with Section 3.2.3, must be used to fasten the gypsum wallboard to the studs and tracks. Fasteners must be spaced a maximum of 12 inches on center along the studs and tracks.



STUD WEB SIZES (OUTSIDE DIMENSIONS):
$1^{5}/_{8}$", $2^{1}/_{2}$", $3^{5}/_{8}$", 4", and 6"

FIGURE 1—STUD CONFIGURATION
(All bend radii are measured from the inside.)



TRACK WEB DIMENSIONS (INSIDE DIMENSIONS):
$1^{5}/_{8}$", $2^{1}/_{2}$", $3^{5}/_{8}$", 4", and 6"

FIGURE 2—TRACK CONFIGURATION
(All bend radii are measured from the inside.)

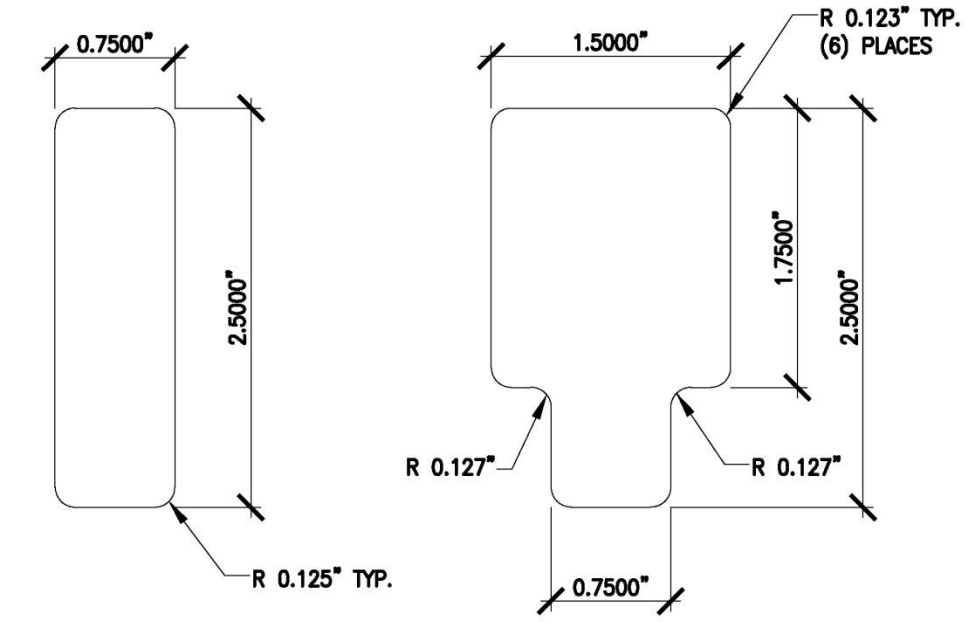


FIGURE 3—PUNCH-OUT CONFIGURATIONS

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EVALUATION SUBJECT:

PRIMESTUD DRYWALL FRAMING SYSTEM (NONLOAD-BEARING): PRIMESTUD STUD AND PRIMESTUD TRACK

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that **Primestud Drywall Framing System (Nonload-Bearing):** PrimeStud Studs and Tracks, recognized in ICC-ES master evaluation report ESR-3503, have also been evaluated for compliance with the code noted below.

Applicable code edition:

- 2016 *California Building Code* (CBC)

2.0 CONCLUSIONS

The **Primestud Drywall Framing System (Nonload-Bearing):** PrimeStud Studs and Tracks, described in Sections 2.0 through 7.0 of the master evaluation report ESR-3503, comply with CBC Chapters 22 and 22A, provided the design and installation are in accordance with the 2015 *International Building Code®* (IBC) provisions noted in the master report and the additional requirements of the CBC Chapters 16, 16A, 17, 17A, 22 and 22A, as applicable.

This supplement expires concurrently with the master report, reissued March 2017.

ICC-ES Evaluation Report

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1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that PrimeStud Studs and Tracks, recognized in ICC-ES master evaluation report ESR-3503, has also been evaluated for compliance with the codes noted below.

Applicable code editions:

- 2014 *Florida Building Code—Building*

2.0 CONCLUSIONS

The PrimeStud Studs and Tracks, described in Sections 2.0 through 7.0 of the master evaluation report ESR-3503, complies with the *Florida Building Code—Building*, provided the design and installation are in accordance with the 2012 *International Building Code®* (IBC) provisions noted in the master report.

Use of the PrimeStud Studs and Tracks has also been found to be in compliance with the High-Velocity Hurricane Zone provisions of the *Florida Building Code—Building*.

For products falling under Florida Rule 9N-3, verification that the report holder's quality assurance program is audited by a quality assurance entity approved by the Florida Building Commission for the type of inspections being conducted is the responsibility of an approved validation entity (or the code official when the report holder does not possess an approval by the Commission).

This supplement expires concurrently with the master report, reissued March 2017.