

ICC-ES Evaluation Report

ESR-5407

Reissued November 2024

This report also contains:

- [CA Supplement w/ DSA and OSHPD](#)

Subject to renewal November 2025

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<p>DIVISION: 05 00 00 – METALS</p> <p>Section: 05 40 00 – Cold-Formed Metal Framing</p> <p>DIVISION: 09 00 00 – FINISHES</p> <p>Section: 09 22 16.13 – Non-Structural Metal Stud Framing</p>	<p>REPORT HOLDER:</p> <p>STOCKTON PRODUCTS, INC.</p> 	<p>EVALUATION SUBJECT:</p> <p>TRUFLUSH™ BACKING</p>	
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1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2024 and 2021 [International Building Code® \(IBC\)](#)

Property evaluated:

- Non-Structural

2.0 USES

The TruFlush™ Backing products are used to connect non-structural cold-formed steel framing members in accordance with AISI S220 and gypsum wallboard.

3.0 DESCRIPTION

3.1 General:

3.1.1 TRUFLUSH™ BACKING (TFB): The TFB is a low-profile, return lip cold-formed steel backing that eliminates build up, gypsum wallboard cracking, and gypsum wallboard fastener popping. The TFB is formed from either 20 gauge (0.8 mm) or 16 gauge (1.5 mm) thick steel conforming to ASTM A653 CS Type B and has a minimum G60 (Z275) galvanized coating in accordance with ASTM A653. Custom sizes of backing products are available upon request. See [Figure 1](#) for profile and dimensions.

3.1.2 TRUFLUSH™ BACKING MAKEUP HARD SIDE (TFBH): The TFBH is a low-profile cold-formed steel backing that eliminates build up, gypsum wallboard cracking, and gypsum wallboard fastener popping. The TFBH is formed from either 20-gauge (0.8 mm) or 16-gauge (1.5 mm) thick steel conforming to ASTM A653 CS Type B and has a minimum G60 (Z275) galvanized coating in accordance with ASTM A653. Custom sizes of backing products are available upon request. See [Figure 2](#) for profile and dimensions.

3.1.3 TRUFLUSH™ BACKING MAKEUP OPEN SIDE (TFBO): The TFBO is a low-profile cold-formed steel backing that eliminates build up, gypsum wallboard cracking, and gypsum wallboard fastener popping. The TFBO is formed from either 20 gauge (0.8 mm) or 16 gauge (1.5 mm) thick steel conforming to ASTM A653

CS Type B and has a minimum G60 (Z275) galvanized coating in accordance with ASTM A653. Custom sizes of backing products are available upon request. See [Figure 3](#) for profile and dimensions.

4.0 DESIGN AND INSTALLATION

4.1 Design: The TruFlush™ Backing products may be fastened to cold-formed steel framing with either #10 hex head or pan head screws for 20-gauge (0.8 mm) products or #12-14 hex head or pan head screws for 16-gauge (1.5 mm) thick products. The allowable span lengths for products used at stud spacings of 16 inches (406 mm), 24 inches (609 mm), 32 inches (812 mm) and 48 inches (1219 mm) are noted in [Tables 1](#) and [2](#).

4.2 Installation: The TruFlush™ products must be installed in accordance with this report and the manufacturer's installation instructions. If there is a conflict between this report and the manufacturer's installation instructions, this report governs.

5.0 CONDITIONS OF USE:

The TruFlush™ backing products described in this report comply with or are a suitable alternative to what is specified in those codes listed in Section 1.0 of this report, subject to the following conditions:

- 5.1** The connection between the TruFlush™ Backing product and gypsum wallboard is outside the scope of this report.
- 5.2** The TruFlush™ Backing products are manufactured under a quality control program with inspections by ICC-ES.

6.0 EVIDENCE SUBMITTED

Data in accordance with the [ICC-ES Acceptance Criteria for Cold-formed Steel Framing Members \(AC46\)](#), dated October 2019 (editorially revised February 2024).

7.0 IDENTIFICATION

- 7.1** The ICC-ES mark of conformity, electronic labeling, or the evaluation report number (ICC-ES ESR-5407) along with the name, registered trademark, or registered logo of the report holder must be included in the product label.
- 7.2** In addition, the TruFlush™ Backing products described in this report must be either stamped, labeled, or inked with the product design designation, the company name, and company address.
- 7.3** The report holder's contact information is the following:

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TABLE 1 – TRUFLUSH™ BACKING (TFB) ALLOWABLE SPAN LENGTHS

PROFILE STEEL THICKNESS	DESIGN PRESSURE (DP) (psf)	SPAN LENGTHS (INCHES) BASED ON STRENGTH - VERTICAL SPACING OF TRU-FLUSH™ BACKING			
		16 INCHES STUD SPACING	24 INCHES STUD SPACING	32 INCHES STUD SPACING	48 INCHES STUD SPACING
16 GA	5	106.9	87.3	75.6	61.7
	10	75.6	61.7	53.4	43.6
	15	61.7	50.4	43.6	35.6
	30	43.6	35.6	30.8	25.2
	40	37.8	30.8	26.7	21.8
	50	33.8	27.6	23.9	19.5
	60	30.8	25.2	21.8	17.8
20 GA	5	75.2	61.4	53.2	43.4
	10	53.2	43.4	37.6	30.7
	15	43.4	35.5	30.7	25.1
	30	30.7	25.1	21.7	17.7
	40	26.6	21.7	18.8	15.4
	50	23.8	19.4	16.8	13.7
	60	21.7	17.7	15.4	12.5

For SI: 1 inch = 25.4 mm; 1 psf = 47.88 Pa

TABLE 2 – TRUFLUSH™ BACKING MAKEUP HARD SIDE (TFBH) AND TRUFLUSH™ BACKING MAKEUP OPEN SIDE (TFBO) ALLOWABLE SPAN LENGTHS

PROFILE STEEL THICKNESS	DESIGN PRESSURE (DP) (psf)	SPAN LENGTHS (INCHES) BASED ON STRENGTH - VERTICAL SPACING OF TRU-FLUSH™ BACKING			
		16 INCHES STUD SPACING	24 INCHES STUD SPACING	32 INCHES STUD SPACING	48 INCHES STUD SPACING
16 GA	5	91.9	75.1	65.0	53.1
	10	65.0	53.1	46.0	37.5
	15	53.1	43.3	37.5	30.6
	30	37.5	30.6	26.5	21.7
	40	32.5	26.5	23.0	18.8
	50	29.1	23.7	20.6	16.8
	60	26.5	21.7	18.8	15.3
20 GA	5	83.1	67.8	58.7	47.9
	10	58.7	47.9	41.5	33.9
	15	47.9	39.2	33.9	27.7
	30	33.9	27.7	24.0	19.6
	40	29.4	24.0	20.8	17.0
	50	26.3	21.4	18.6	15.2
	60	24.0	19.6	17.0	13.8

For SI: 1 inch = 25.4 mm; 1 psf = 47.88 Pa

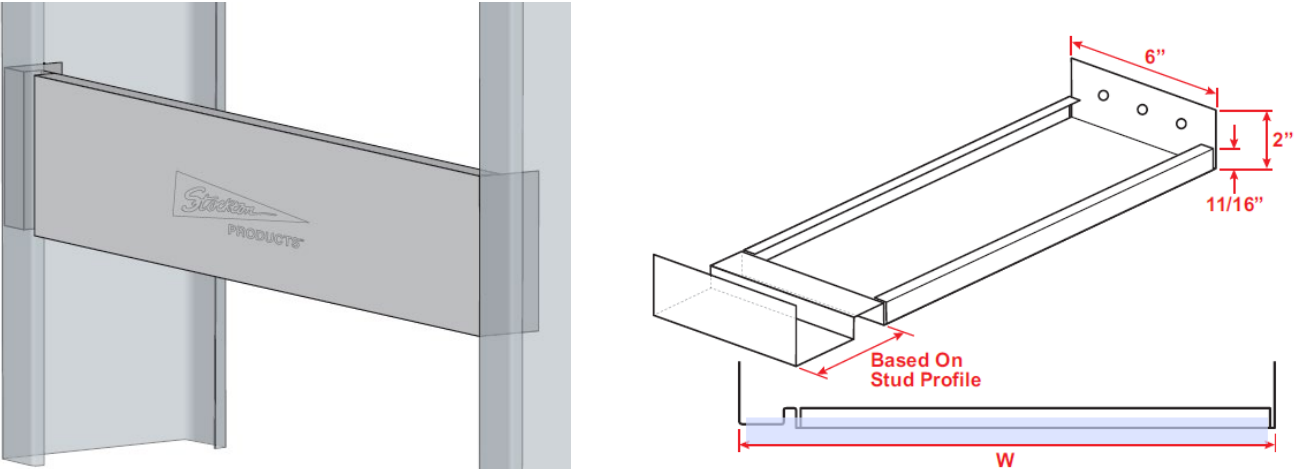


FIGURE 1—TRUFLUSH™ BACKING (TFB)

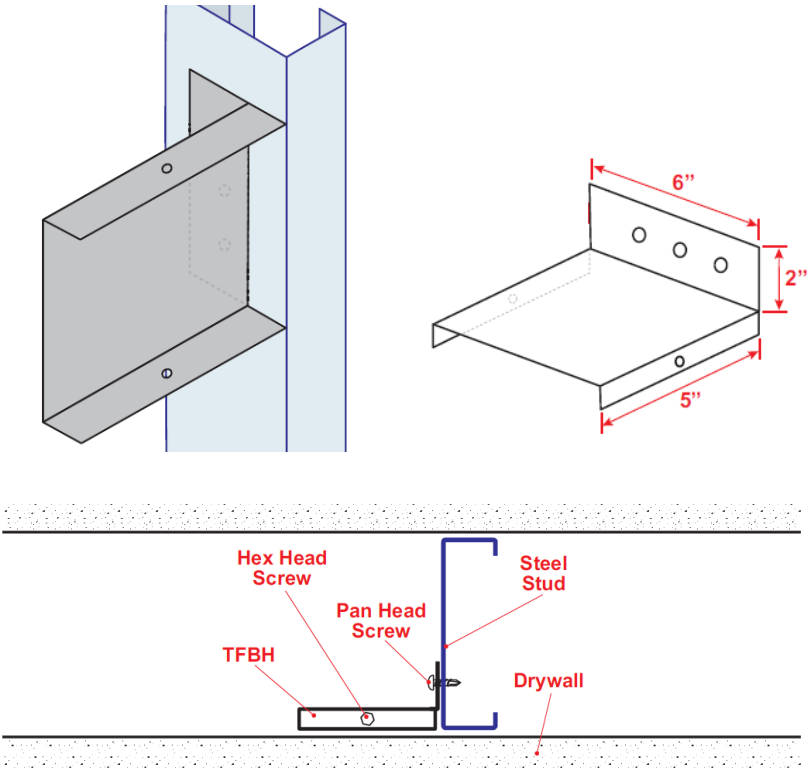


FIGURE 2—TRUFLUSH™ BACKING MAKEUP HARD SIDE (TFBH)

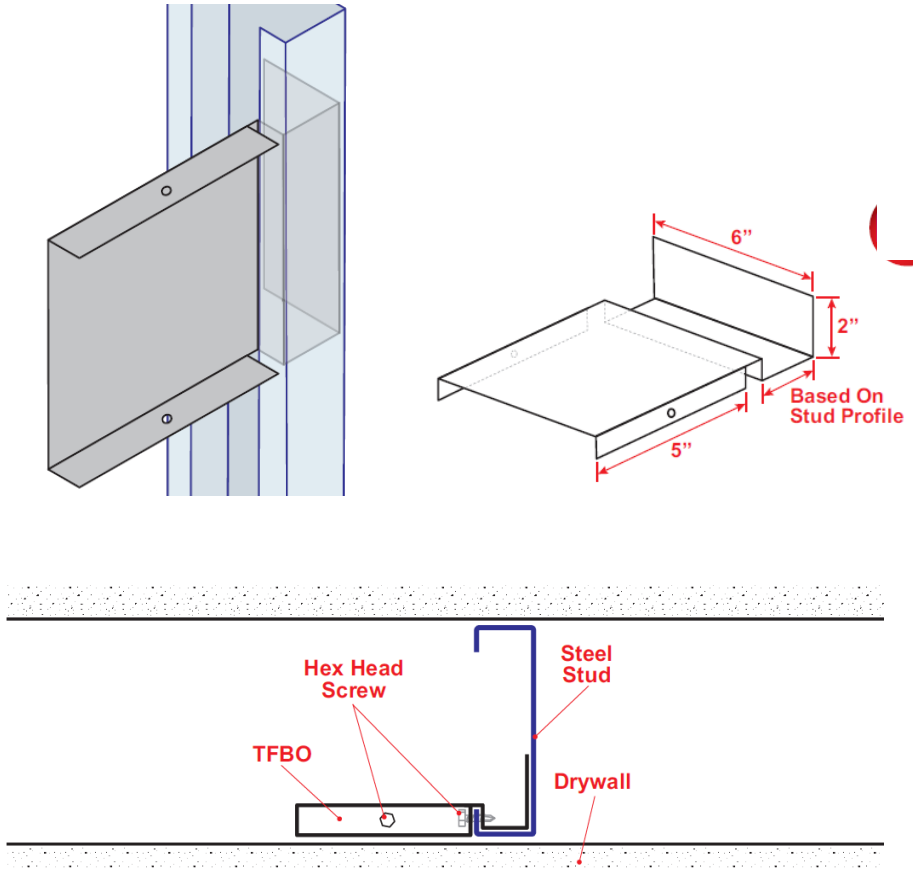


FIGURE 3—TRUFLUSH™ BACKING MAKEUP OPEN SIDE (TFBO)

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:

STOCKTON PRODUCTS, INC.

EVALUATION SUBJECT:

TRUFLUSH™ BACKING

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that the TruFlush™ Backing products, described in ICC-ES evaluation report ESR-5407, have also been evaluated for compliance with the code(s) 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 Architects \(DSA\)](#), see Sections 2.1.1 and 2.1.2 below.

2.0 CONCLUSIONS

2.1 CBC:

The TruFlush™ Backing products, described in Sections 2.0 through 7.0 of the evaluation report ESR-5407, comply with CBC Chapter 22, 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 22, as applicable.

2.1.1 OSHPD:

The TruFlush™ Backing products, described in Sections 2.0 through 7.0 of the evaluation report ESR-5407, comply with the amended Sections in CBC Chapters 16, 17 and 22, and CBC Chapters 16A, 17A and 22A 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 in Section 2.1.1.1 of this supplement:

2.1.1.1 Conditions of Use:

1. In accordance with CBC Section 2211.2 and 2211A.2, for cold-formed steel light-frame construction, the design and installation of nonstructural members and connections shall be in accordance with AISI S220 for non-composite assembly design. Where nonstructural members do not qualify for design under AISI 220, the design and installation of nonstructural members and connectors shall be in accordance with AISI S240 or S100 [OSHPD 1, 1R, 2, 4, and 5].
2. Storage racks and wall-hung cabinet loading per Table 1607.1 [OSHPD 1R, 2, and 5] and Table 1607A.1 [OSHPD 1 and 4] is excluded from this supplement.

2.1.2 DSA:

The TruFlush™ Backing products, described in Sections 2.0 through 7.0 of the evaluation report ESR-5407, comply with amended Sections in CBC Chapters 16 and 22, and CBC Chapters 16A, 17A and 22A, 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 in Section 2.1.2.1 of this supplement:

2.1.2.1 Conditions of Use:

1. In accordance with CBC Section 2211A.2, for cold-formed steel light-frame construction, the design and installation of nonstructural members and connections shall be in accordance with AISI S220 for non-composite assembly design. Where nonstructural members do not qualify for design under AISI 220, the design and installation of nonstructural members and connectors shall be in accordance with AISI S240 or S100 [DSA-SS].
2. Storage racks and wall-hung cabinet loading per Table 1607A.1 [DSA-SS] is excluded from this supplement.
3. Storage racks and wall-hung cabinet loading per Section 1617.5.1.5 [DSA-SS/CC] is excluded from this supplement.

This supplement expires concurrently with the evaluation report, issued November 2024.