

ICC-ES Evaluation Report

ESR-1829

Reissued November 2023

This report also contains:


- CBC Supplement

Subject to renewal November 2024

- LABC Supplement

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<p>DIVISION: 10 00 00— SPECIALTIES</p> <p>Section: 10 22 19— Demountable Partitions</p>	<p>REPORT HOLDER: STEELCASE INC.</p>	<p>EVALUATION SUBJECT: PRIVACY WALL SYSTEM</p>	
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1.0 EVALUATION SCOPE

1.1 Compliance with the following code:

- 2021, 2018, 2015 and 2012 [International Building Code® \(IBC\)](#)

Properties evaluated:

- Structural
- Surface-burning characteristics

1.2 Evaluation to the following green codes and/or standards:

- 2022 [California Green Building Standards Code \(CALGreen\)](#), Title 24, Part 11
- 2020, 2015, 2012 and 2008 [ICC 700 National Green Building Standard™](#) ICC 700-2020, ICC 700-2015, ICC 700-2012 and ICC 700-2008

For Evaluation for compliance with codes adopted by the [Los Angeles Department of Building and Safety \(LADBS\)](#), see the [ESR-1829 LABC Supplement](#).

Attributes verified:

- See Section 3.1

2.0 USES

The Privacy Wall System is a relocatable, floor-to-ceiling, nonload-bearing, nonfire-resistance-rated interior wall partition system. The system is recognized for installation in buildings classified as Type I, II, III, IV, and V construction.

3.0 DESCRIPTION

3.1 General:

The wall system consists of prefabricated solid wall panels and steel tracks. The Privacy Wall System series GPSS and GPSM are recognized in this report. The GPSS and GPSM series are the same except that the GPSS panels are 1⁵/₁₆ inches (33.3 mm) wider than the GPSM panels. When the wall system is installed in accordance with this report and the manufacturer's published instructions, the wall system resists the 5 psf (24 N/m²) transverse design load specified in 2021 IBC Section 1607.16 [2018 IBC Section 1607.15 (2015 and 2012 IBC Section 1607.14)].

The attributes of the partition system have been verified as conforming to the provisions of (i) CALGreen Section A4.404.3.3 and (ii) ICC 700-2020, ICC 700-2015 and ICC 700-2012 Sections 601.5 and 11.601.5 and ICC 700-2008 Section 601.5. Note that decisions on compliance for those areas rest with the user of this report. The user is advised of the project-specific provisions that may be contingent upon meeting specific conditions, and the verification of those conditions is outside the scope of this report. These codes or standards often provide supplemental information as guidance.

3.2 Materials:

3.2.1 Privacy Solid Wall Panels: The panels consist of steel-sheet facings on both sides fastened with rivets and screws to steel splines along the panel's vertical ends and to a horizontal reinforcing channel at the top of the panel. Post extensions are fastened to the steel splines with rivets. Steel sheet facings are adhesively backed with mineral board, resulting in a hollow (open core) construction. The mineral board is $\frac{5}{8}$ inch (15.9 mm) thick and has a flame-spread index of 25 or less and a smoke-developed index of 450 or less when tested in accordance with ASTM E84. The bottoms of the steel-sheet facings are fastened together with No. 12 by $\frac{5}{8}$ -inch-long (15.9 mm) pan-head tapping screws. The facing material is No. 22 gage [0.030 inch (0.762 mm) base-metal thickness] steel complying with ASTM A1008.

Wall covering materials must comply with the interior finish requirements in Chapter 8 of the IBC. The panels are factory-assembled, range in width from 6 to 60 inches (152 to 1524 mm), have a maximum standard height of 120 inches (3048 mm) and a nominal thickness of $2\frac{3}{8}$ inches.

3.2.1.1 Steel Splines: Two steel splines are fastened along the panel's vertical edges of the steel-sheet facings using $\frac{3}{16}$ -inch-diameter-by- $\frac{1}{2}$ -inch-long (4.8 mm by 12.7 mm) pop rivets and No. 12 by $\frac{5}{8}$ -inch-long (15.9 mm) truss-head tapping screws. The steel splines are No. 16 gage [0.059 inch (1.5 mm) base-metal thickness], high-strength, low-alloy, cold-formed steel complying with ASTM A568, with a minimum yield strength of 50,000 psi (344.7 MPa).

3.2.1.2 Horizontal Reinforcing Channel: The top of the steel-sheet facings is fastened to the horizontal reinforcing channel with No. 8 by $\frac{1}{2}$ -inch-long (12.7 mm), pan-head tapping screws. The horizontal reinforcing channel is No. 22 gage [0.030 inch (0.762 mm) base-metal thickness] steel complying with ASTM A1008.

3.2.1.3 Post Extension: Two post extensions are fastened to the steel splines using $\frac{3}{16}$ -inch-diameter-by- $\frac{1}{2}$ -inch-long (4.8 mm by 12.7 mm) pop rivets. The post extensions are cold-formed M130 Martensite, No. 20 gage [0.036 inch (0.914 mm) base-metal thickness] steel complying with ASTM A568, with a minimum tensile strength of 130,000 psi (896.3 MPa).

3.2.1.4 Leveling Device: The leveling device is composed of a leveling bracket that is manufactured from cold-formed No. 11 gage [0.118 (3 mm) base-metal thickness] steel complying with ASTM A568. The leveler stem is inserted through the bracket. The leveler stem is cold-headed/roll-formed $\frac{1}{2}$ -13 UNC (Unified National Coarse) (1018 carbon steel) steel complying with ASTM A510.

3.2.1.5 Floor Channel: Two leveling devices are attached to the floor channel by clips. The clips are cold-formed M130 Martensite, No. 20 gage [0.036 inch (0.914 mm) base-metal thickness] steel in conformance with ASTM A568, with a minimum tensile strength of 130,000 psi (896.3 MPa). The floor channel is cold-formed, CQCR, No. 20 gage [0.036 inch (0.914 mm) base-metal thickness], precoated steel complying with ASTM A1008.

3.2.2 Floor Gripper: The U-shaped floor gripper is No. 18 gage [0.048 inch (1.22 mm) base-metal thickness] steel complying with ASTM A366, measuring 0.905 inch (23 mm) wide by 0.890 inch (22.6 mm) deep by 16.125 inches (409.6 mm) long.

3.2.3 Overlapping Ceiling Track: The C-shaped overlapping ceiling track is powder-coated, cold-formed, commercial-quality, cold-rolled (CQCR) sheet steel, No. 18 gage [0.048 inch (1.219 mm) base-metal thickness], complying with ASTM A1008.

3.2.4 Trim: The base trim is powder-coated, cold-rolled, No. 22 gage [0.030 inch (0.76 mm) base-metal thickness], high-strength, low-alloy (HSLA) steel complying with ASTM A568, with a minimum yield strength of 50,000 psi (344.7 MPa). A plastic feature strip is snapped along the panels' vertical joints. The feature strip has a flame-spread index of 25 or less and a smoke-developed index of 450 or less when tested in accordance with ASTM E84. End caps and corner trim are powder-coated, extruded 6063-T6 aluminum alloy [0.062 inch (1.57 mm) base-metal thickness] complying with ASTM B221.

4.0 INSTALLATION

4.1 Ceiling Grid Installation:

T-bar ceiling connection clips must be used to attach the overlapping ceiling track to an existing suspended ceiling grid system. Clips must be tightened against the existing ceiling grid system using a $\frac{1}{4}$ -20 UNC (6.4 mm) threaded stud at a maximum spacing of 30 inches (762 mm) on center. A structural analysis to determine adequacy of the ceiling grids, including the connection clip, to resist lateral loads imposed by the wall system in accordance with Section 13.5.8 of ASCE 7, must be provided to the code official for approval. The analysis must be prepared by a registered design professional.

4.2 Floor Channel Installation:

For installation of wall panels over concrete floor substrates, two floor grippers must be used when installing panels at each end of the panel. Each floor gripper must engage with the floor channel a minimum of 6 inches (152 mm). Each floor gripper must be fastened to the concrete substrate with two $\frac{3}{16}$ -inch-diameter (4.8 mm) Tapcon® screw anchors with a minimum embedment of 1.5 inches (38 mm) and a spacing of 4 inches (101.6 mm) on center. The screw anchors must be installed in accordance with ICC-ES evaluation report [ESR-2202](#).

4.3 Panel Installation:

Each panel must be positioned beneath the overlapping ceiling track so that the top of the panel engages the overlapping ceiling track and the base of the panel is angled away from the ceiling track. The panels must be positioned under the overlapping ceiling track with a maximum allowable gap between the top of the ceiling track and the top of the panel of 0.75 (19.1 mm). The panel must then be leveled and plumbed. The post extension must then be engaged by inserting a screwdriver into the slots and slowly tapping the extension upward by engaging the small holes in the extension. The extension must be extended fully to the top of the ceiling channel. Additional panels must be installed in the same manner and aligned side by side. After all the panels have been put into position and aligned to each other, the feature strip can be pressed into the seams between panels and the base trim snapped onto the floor channel. See Figure 1 for an illustration of the panel.

5.0 CONDITIONS OF USE:

The Privacy Wall System described in this report complies with, or is a suitable alternative to what is specified in, the code indicated in Section 1.0 of this report, subject to the following conditions:

- 5.1 The system must be manufactured, identified, and installed in accordance with this report and the manufacturer's published installation instructions. Where differences exist between this evaluation report and the manufacturer's published installation instructions, this evaluation report shall govern.
- 5.2 The maximum partition height is 120 inches (3048 mm).
- 5.3 Panel installation is limited to interior nonload-bearing applications.
- 5.4 Use of the panels to support furniture loads, and incorporation of door components, glass components or electrical wiring, are outside the scope of this report.
- 5.5 Adequacy of the ceiling grids to resist lateral loads imposed by the Privacy Wall System must be justified to the code official, as noted in Section 4.1 of this report.
- 5.6 Connectors used to connect the partition system to supporting members must be shown or defined in drawings or specifications and approved by the code official.
- 5.7 Calculations to justify the use of the ceiling grid and connections described in Sections 5.5 and 5.6 of this report must be submitted, at the time of permit application, for approval by the code official. The calculations and/or details must be prepared by a registered design professional where required by the statutes of the jurisdiction in which the project is to be constructed.
- 5.8 The wall systems are manufactured under a quality control program with inspections by ICC-ES.

6.0 EVIDENCE SUBMITTED

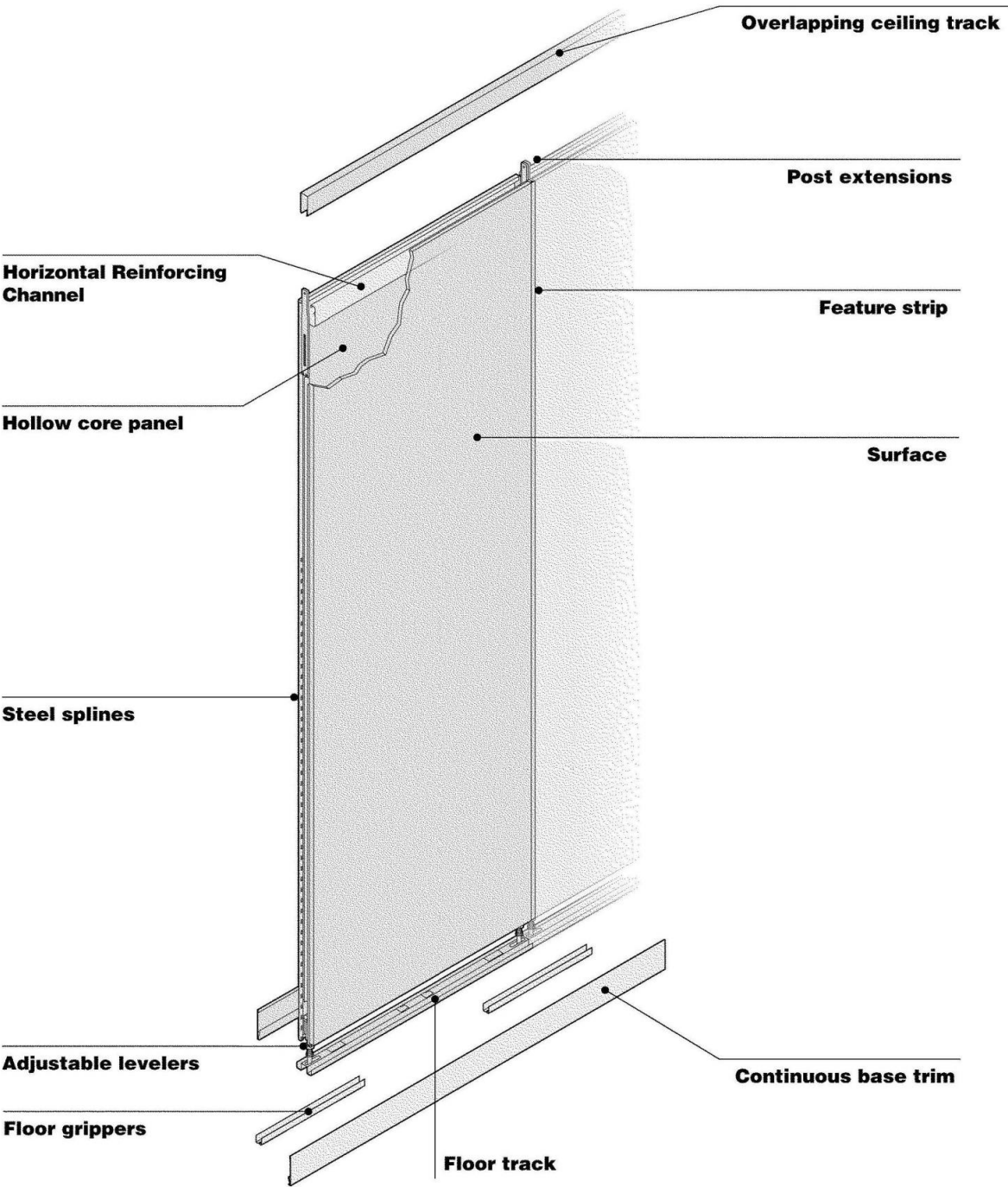
- 6.1 Data and reports of tests in accordance with the [ICC-ES Acceptance Criteria for Sandwich Panels \(AC04\)](#), dated June 2019 (editorially revised December 2020).
- 6.2 Test data in accordance with ASTM E84 for acoustical insulation.

7.0 IDENTIFICATION

- 7.1 The ICC-ES mark on conformity, electronic labeling, or the evaluation report number (ICC-ES ESR-1829) along with the name, registered trademark, or registered logo on the report holder must be included in the product label.
- 7.2 In addition, each panel must be identified by a label that remains visible after the panel is erected. The label must note the Steelcase Inc. name, the evaluation report number (ESR-1829). The panel skids and cartons containing wall panel components are identified by a packing slip or label bearing the Steelcase Inc., name; the product name and identification; date of manufacture; the ICC-ES evaluation report number (ESR-1829).
- 7.3 The report holder's contact information is the following:

STEELCASE INC.
POST OFFICE BOX 1967
GRAND RAPIDS, MICHIGAN 49501
(616) 292-8082
www.steelcase.com

FIGURE 1



DIVISION: 10 00 00—SPECIALTIES

Section: 10 22 19—Demountable Partitions

REPORT HOLDER:

STEELCASE INC.

EVALUATION SUBJECT:

PRIVACY WALL SYSTEM

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that the Privacy Wall System, described in ICC-ES evaluation report [ESR-1829](#), has also been evaluated for compliance with the codes noted below as adopted by the Los Angeles Department of Building and Safety (LADBS).

Applicable code editions:

- 2023 *City of Los Angeles Building Code* (LABC)

2.0 CONCLUSIONS

The Privacy Wall System, described in Sections 2.0 through 7.0 of the evaluation report [ESR-1829](#), complies with the LABC Chapter 8, and is subject to the conditions of use described in this supplement.

3.0 CONDITIONS OF USE

The Privacy Wall System described in this evaluation report supplement must comply with all of the following conditions:

- All applicable sections in the evaluation report [ESR-1829](#).
- The design, installation, conditions of use and identification are in accordance with the 2021 *International Building Code*® (IBC) provisions noted in the evaluation report [ESR-1829](#).
- The design, installation and inspection are in accordance with additional requirements of LABC Chapters 16 and 17, as applicable.

This supplement expires concurrently with the evaluation report, reissued November 2023.

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Section: 10 22 19—Demountable Partitions

REPORT HOLDER:

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EVALUATION SUBJECT:

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1.0 REPORT PURPOSE AND SCOPE

Purpose:

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Applicable code edition:

- 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 Privacy Wall System, described in Sections 2.0 through 7.0 of the evaluation report ESR-1829, complies with CBC Chapters 8 and 16, 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 8 and 16, 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 November 2023.