



# PABCORE® SHAFTLINER

PABCO® Gypsum  
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PABCO® Gypsum Specification PGS-008  
ASTM specification C 1396



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## Description:

PABCORE® SHAFTLINER type X panels are manufactured with a proprietary fire resistant type X core which has been reinforced with glass fibers and speciality additives to increase its fire-resistance. This core is encased in 100% recycled water-resistant face and back paper, and features a double beveled edge for ease of installation.

PABCORE® SHAFTLINER type X is distinguishable by the **light green coloration of the water-resistant paper facing.**

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## Primary Uses:

PABCORE® SHAFTLINER type X panels are designed for lining elevator, ventilation, and utility shafts, as well as constructing lightweight sound attenuation fire-resistant cavity shaft walls, and area separation fire walls in multifamily dwellings such as townhouses, condominiums, and apartments.

These panels are key components in PABCO® Shaftwall and Area Separation Fire Wall (ASFW) Systems utilizing C-H, C-T Studs or H-Studs. PABCO® Shaftwall Systems are easy to erect, achieving fire-resistance ratings of one and two hours. Both solid and cavity-type area separation walls provide Sound Transmission Class (STC) ratings that exceed model building code requirements with designs that achieve STC ratings in excess of 60.

Area Separation Fire Wall assemblies are light weight, weighing no more than 10 lbs/ft<sup>2</sup> when constructed. As a result, the need for costly footings or foundation modifications are often eliminated. Due to the relatively light weight panels, they can be installed up to four (4) stories in height.

When used as an area separation wall, the system must be:

- Continuous from the foundation to the underside of the protected roof sheathing or continue through the roof to form a parapet.
- Designed to allow for collapse of the construction on the side of the wall exposed to fire without collapse of the area separation fire wall.

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## Limitations:

- Shaftwall/Stairwell systems are designed as nonload bearing. (NLB)
- Do not install in areas which will be adjacent to occupancies of unusually high moisture conditions.
- Where penetrations occur in the assembly, additional reinforcement at corners may be required to distribute stress; approved flexible sealant/caulking may be required to seal around some penetrations.
- Through penetrations are not allowed in area separation fire walls that are designed to collapse on the fire side.
- Not recommended for use as an unlined HVAC supply shaft or duct.
- Limiting heights and deflection criteria must be based upon the metal stud manufacturer's recommendations.

Application:

PABCORE® SHAFTLINER type X and PABCORE® MOLD CURB®*Plus* SHAFTLINER type X panels may be used in one and two-hour shaftwall systems, one and two-hour horizontal corridor ceiling systems and two-hour Area Separation Walls. Refer to the PABCO® Gypsum Shaftwall Systems publication for details.

Product Data, Sizes and Types:

UL Core Type	Thickness	Width	Length <sup>1</sup>	Edge Type	Weight <sup>2</sup>
PG-10	1 inch	24 inches	8', 10', 12'	Double beveled	4.4 lbs/ft <sup>2</sup>

PABCORE® SHAFTLINER products are certified by a third-party inspection service. Each panel bears the UNDERWRITERS LABORATORIES, Inc. label to indicate CERTIFICATION of fire resistance, surface burning characteristics, and non-combustibility.

<sup>1</sup> Other lengths may be available on a special order basis. Consult with your local PABCO® representative, or call PABCO® Technical Assistance.

<sup>2</sup> Represents approximate weight for design and shipping purposes. A more exact weight may be available for your area; consult with your local PABCO® representative, or call PABCO® Technical Assistance.

Applicable Standards, Codes & Technical Data:

Manufacturing: ASTM C 1396; [www.astm.org](http://www.astm.org)  
Federal Specification Type IV, Grade X\*

Installation: Gypsum Association GA-216, [www.gypsum.org](http://www.gypsum.org)  
ASTM C 840, [www.astm.org](http://www.astm.org)

Fire-Resistant Assemblies: Gypsum Association GA-600, Fire Design Manual  
Underwriters Laboratories, UL Fire Resistance Directory

Surface Burning Characteristics: ASTM E 84; UL: Fire Resistance Directory  
Flame Spread 15, Smoke Developed 0

Non-Combustible: ASTM E 136, [www.astm.org](http://www.astm.org)

“R” value: 0.83 Thermal Resistance

VOC/Asbestos: Free of VOC (Volatile Organic Compound) & asbestos

Material Safety Data Sheet: MSDS available at [www.pabco gypsum.com](http://www.pabco gypsum.com), Technical Data

PABCO Gypsum: “Construction Guide - Fire & Sound Rated Systems”

Recycled Content: Refer to PABCO® Sustainable Materials Data Sheet for plant specific details.

Please check our website at [www.pabco gypsum.com](http://www.pabco gypsum.com) for the latest edition of this specification.  
\* The federal specification for gypsum board, SS-L-30d was withdrawn in 1984. It is provided here for informational purposes only.

Storage & Handling:

Store all PABCO® gypsum panels flat; do not store on edge as panels are heavy and may fall over causing injury or death. Store in an area that offers protection from adverse weather conditions, condensation, and other forms of moisture. Avoid job site conditions that expose gypsum board to water or moisture. Plastic shipping bags are temporary, and intended for protection during transit only, and must be removed promptly upon arrival. Store gypsum board under protected cover, off the ground with sufficient support to prevent sagging. Exercise proper care to avoid impact, scuffing of the paper faces, undue flexing, and damage to board edges, corners, and ends.

Fire Resistant Ratings:

Fire Resistance Rated assembly designs are promulgated from tests performed at IAS\* certified independent testing laboratories, and these designs include specific materials assembled in a precise configuration. When choosing construction details to achieve specific fire resistance rated requirements, care must be taken to insure that each component of the specified assembly is the proper one specified in the test report, and assembled in accordance with the specific requirements of the assembly. \*(The International Accreditation Service —IAS— is a non-profit, public benefit corporation and a leading accreditation body in the United States. Internationally recognized, accreditation by IAS makes it easier to market products and services both inside and outside the United States.)

Submittal Approvals:

Job name:	
Contractor	Date:

**Limited Warranty:** PABCO® Building Products, LLC, warrants that on the date the gypsum board is shipped from its manufacturing plant the gypsum board is free from defects in materials and manufacture. NOTWITHSTANDING THE FOREGOING, IT IS THE RESPONSIBILITY OF THE GYPSUM BOARD APPLICATOR TO NOTIFY PABCO BUILDING PRODUCTS, LLC, IN WRITING WITHIN TWENTY FOUR (24) HOURS OF DISCOVERY OF ANY VISIBLY DEFECTIVE GYPSUM BOARD PRIOR TO SUCH VISIBLY DEFECTIVE GYPSUM BOARD BEING APPLIED; FAILURE TO DO SO MAY FURTHER LIMIT OR VOID THE RESPONSIBILITIES OF PABCO BUILDING PRODUCTS, LLC, UNDER THIS WARRANTY. This warranty will remain in place for one year from the date of shipment from the manufacturing plant. THIS EXPRESS WARRANTY IS THE EXCLUSIVE WARRANTY PROVIDED BY PABCO® BUILDING PRODUCTS, LLC, AND SUPERSEDES ANY PRIOR, CONTRARY OR ADDITIONAL REPRESENTATIONS, WHETHER ORAL OR WRITTEN. PABCO® BUILDING PRODUCTS, LLC, HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES – WHETHER EXPRESS, IMPLIED, OR STATUTORY – INCLUDING ANY WARRANTY OF MERCHANTABILITY, ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY IMPLIED WARRANTIES OTHERWISE ARISING FROM COURSE OF DEALING OR USAGE OF TRADE.

If the gypsum board fails to conform to the foregoing warranty in Paragraph 1 and such nonconformity is not due to misuse or improper maintenance or storage, Buyer shall notify PABCO® Building Products, LLC, in writing, and within 60 days of discovery, PABCO® Building Products, LLC, shall provide, at its sole and absolute discretion, one of the following: (i) repair or replacement of any nonconforming or defective gypsum wallboard; or (ii) credit or full refund of the purchase price. THIS REMEDY SHALL BE THE EXCLUSIVE AND SOLE REMEDY OF BUYER FOR ANY BREACH OF WARRANTY.

IN NO EVENT SHALL PABCO® BUILDING PRODUCTS, LLC, BE LIABLE FOR ANY INCIDENTAL, SPECIAL, INDIRECT, OR CONSEQUENTIAL DAMAGES, WHETHER RESULTING FROM NONDELIVERY OR FROM THE USE, MISUSE, OR INABILITY TO USE THE PRODUCT OR FROM DEFECTS IN THE PRODUCT OR FROM NEGLIGENCE OR OTHER TORT. This exclusion applies regardless of whether such damages are sought for breach of warranty, breach of contract, negligence, or strict liability in tort or under any other legal theory.

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