Cement Board Masonry Veneer System
Steel Framed Finished Wall Illustration

DETAIL: PBCI-201
DATE: 09/2019

NOTES:
A. Accessories, Weather Resistive Barrier and Drainage System not available from National Gypsum.
B. For NFPA 285 approved WRBs, see UL Evaluation Report R22158-02.
C. Do not exceed 16 in. (406 mm) o.c. as maximum wall framing spacing. Must be designed to limit deflection to L/360 under all live and dead loads.
D. Do not use PermaBase CI as a nailing base for other finishes.
E. Follow finish and mortar manufacturer's instructions for proper installation.
F. Treat joints and corners in PermaBase CI with approved mesh tape and modified mortar.
G. Code-approved Weather Resistant Barrier (WRB) must be installed to protect the cavity (type and placement will vary per local building codes and/or manufacturer's specifications, installation guidelines and warranties).
H. Weather Resistant Barrier installation recommendations vary by barrier type and manufacturer. Follow WRB manufacturer's instructions for proper installation. Construct a site-built mockup to using specified project materials to verify installation sequencing, detailing, and aesthetics.
I. Test the final assembly to verify performance, correct any deficiencies.
J. Construct a site-built mockup to using specified project materials to verify installation sequencing, detailing, and aesthetics.

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**Cement Board Masonry Veneer System**

**Steel Framed Finished Bottom of Wall-Termination Below Slab/Foundation**

**DETAIL: PBCI-203**  
**DATE: 09/2019**

**NOTES:**

A. Accessories, Weather Resistive Barrier and Drainage System not available from National Gypsum.

B. For NFPA 285 approved WRBs, see UL Evaluation Report R22158-02.

C. Do not exceed 16 in. (406 mm) o.c. as maximum wall framing spacing. Must be designed to limit deflection to L/360 under all live and dead loads.

D. Do not use PermaBase CI as a nailing base for other finishes.

E. Follow finish and mortar manufacturer's instructions for proper installation.

F. Treat joints and corners in PermaBase CI with approved mesh tape and modified mortar.

G. Code-approved Weather Resistant Barrier (WRB) must be installed to protect the cavity (type and placement will vary per local building codes and/or manufacturer's specifications, installation guidelines and warranties).

H. Weather Resistant Barrier installation recommendations vary by barrier type and manufacturer. Follow WRB manufacturer's instructions for proper installation. Construct a site-built mockup to using specified project materials to verify installation sequencing, detailing, and aesthetics.

I. Test the final assembly to verify performance, correct any deficiencies.

J. Construct a site-built mockup to using specified project materials to verify installation sequencing, detailing, and aesthetics.

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Cement Board Masonry Veneer System

Steel Framed Window Head and Window Jam Detail

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NOTES:
A. Accessories, Weather Resistive Barrier and Drainage System not available from National Gypsum.
B. For NFPA 285 approved WRBs, see UL Evaluation Report R22158-02.
C. Do not exceed 16 in. (406 mm) o.c. as maximum wall framing spacing. Must be designed to limit deflection to L/360 under all live and dead loads.
D. Do not use PermaBase CI as a nailing base for other finishes.
E. Follow finish and mortar manufacturer’s instructions for proper installation.
F. Treat joints and corners in PermaBase CI with approved mesh tape and modified mortar.
G. Code-approved Weather Resistant Barrier (WRB) must be installed to protect the cavity (type and placement will vary per local building codes and/or manufacturer’s specifications, installation guidelines and warranties).
H. Weather Resistant Barrier installation recommendations vary by barrier type and manufacturer. Follow WRB manufacturer’s instructions for proper installation. Construct a site-built mockup to verify installation sequencing, detailing, and aesthetics.
I. Test the final assembly to verify performance, correct any deficiencies.
J. Construct a site-built mockup to using specified project materials to verify installation sequencing, detailing, and aesthetics.
K. Install backer rod and sealant between flashing and window frame as specified.

DETAIL: PBCI-204
DATE: 09/2019

1. Thin Brick
2. Modified Mortar
3. PermaBase CI
4. Drainage
5. Weather Resistive Barrier
6. eXP Sheathing
7. Self-Adhered Flashing
8. Starter Track
9. Window
10. Flashing
11. Backer Rod and Sealant
Cement Board Masonry Veneer System
Steel Framed Window Sill and Window Jam Detail

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Cement Board Masonry Veneer System
Steel Framed Floor Line with Deflection Track

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**DETAIL: PBCI-207**
**DATE: 09/2019**

**NOTES:**

A. Accessories, Weather Resistive Barrier and Drainage System not available from National Gypsum.

B. For NFPA 285 approved WRBs, see UL Evaluation Report R22158-02.

C. Do not exceed 16 in. (406 mm) o.c. as maximum wall framing spacing. Must be designed to limit deflection to L/360 under all live and dead loads.

D. Do not use PermaBase CI as a nailing base for other finishes.

E. Follow finish and mortar manufacturer’s instructions for proper installation.

F. Treat joints and corners in PermaBase CI with approved mesh tape and modified mortar.

G. Code-approved Weather Resistant Barrier (WRB) must be installed to protect the cavity (type and placement will vary per local building codes and/or manufacturer’s specifications, installation guidelines and warranties).

H. Weather Resistant Barrier installation recommendations vary by barrier type and manufacturer. Follow WRB manufacturer’s instructions for proper installation. Construct a site-built mockup to using specified project materials to verify installation sequencing, detailing, and aesthetics.

I. Test the final assembly to verify performance, correct any deficiencies.

J. Construct a site-built mockup to using specified project materials to verify installation sequencing, detailing, and aesthetics.

K. Install backer rod and sealant as specified under kick-out flashing.

1. Thin Brick
2. Modified Mortar
3. Fiberglass Mesh Tape
4. PermaBase CI
5. Drainage
6. Weather Resistive Barrier
7. eXP Sheathing
8. Self-Adhered Flashing
9. Starter Track
10. Backer Rod and Sealant
11. Flashing
Cement Board Masonry Veneer System
Steel Framed Horizontal Transition
at Dissimilar Materials

DETAIL: PBCI-208
DATE: 09/2019

NOTES:
A. Accessories, Weather Resistive Barrier and Drainage System not available from National Gypsum.
B. For NFPA 285 approved WRBs, see UL Evaluation Report R22158-02.
C. Do not exceed 16 in. (406 mm) o.c. as maximum wall framing spacing. Must be designed to limit deflection to L/360 under all live and dead loads.
D. Do not use PermaBase CI as a nailing base for other finishes.
E. Follow finish and mortar manufacturer’s instructions for proper installation.
F. Treat joints and corners in PermaBase CI with approved mesh tape and modified mortar.
G. Code-approved Weather Resistant Barrier (WRB) must be installed to protect the cavity (type and placement will vary per local building codes and/or manufacturer’s specifications, installation guidelines and warranties).
H. Weather Resistant Barrier installation recommendations vary by barrier type and manufacturer. Follow WRB manufacturer’s instructions for proper installation. Construct a site-built mockup to using specified project materials to verify installation sequencing, detailing, and aesthetics.
I. Test the final assembly to verify performance, correct any deficiencies.
J. Construct a site-built mockup to using specified project materials to verify installation sequencing, detailing, and aesthetics.
K. Install backer rod and sealant as specified under kick-out flashing.

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DETAIL: PBCI-209
DATE: 09/2019

NOTES:
A. Accessories, Weather Resistive Barrier and Drainage System not available from National Gypsum.
B. For NFPA 285 approved WRBs, see UL Evaluation Report R22158-02.
C. Do not exceed 16 in. (406 mm) o.c. as maximum wall framing spacing. Must be designed to limit deflection to L/360 under all live and dead loads.
D. Do not use PermaBase CI as a nailing base for other finishes.
E. Follow finish and mortar manufacturer’s instructions for proper installation.
F. Treat joints and corners in PermaBase CI with approved mesh tape and modified mortar.
G. Code-approved Weather Resistant Barrier (WRB) must be installed to protect the cavity (type and placement will vary per local building codes and/or manufacturer’s specifications, installation guidelines and warranties).
H. Weather Resistant Barrier installation recommendations vary by barrier type and manufacturer. Follow WRB manufacturer’s instructions for proper installation. Construct a site-built mockup to using specified project materials to verify installation sequencing, detailing, and aesthetics.
I. Test the final assembly to verify performance, correct any deficiencies.
J. Construct a site-built mockup to using specified project materials to verify installation sequencing, detailing, and aesthetics.
K. Install backer rod and sealant as specified at transition.

1. Thin Brick
2. Modified Mortar
3. PermaBase CI
4. Drainage
5. Weather Resistive Barrier
6. eXP Sheathing
7. J-Track
8. Backer Rod and Sealant

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**DETAIL: PBCI-210**
**DATE: 09/2019**

**NOTES:**

A. Accessories, Weather Resistive Barrier and Drainage System not available from National Gypsum.

B. For NFPA 285 approved WRBs, see UL Evaluation Report R22158-02.

C. Do not exceed 16 in. (406 mm) o.c. as maximum wall framing spacing. Must be designed to limit deflection to L/360 under all live and dead loads.

D. Do not use PermaBase CI as a nailing base for other finishes.

E. Follow finish and mortar manufacturer's instructions for proper installation.

F. Treat joints and corners in PermaBase CI with approved mesh tape and modified mortar.

G. Code-approved Weather Resistant Barrier (WRB) must be installed to protect the cavity (type and placement will vary per local building codes and/or manufacturer's specifications, installation guidelines and warranties).

H. Weather Resistant Barrier installation recommendations vary by barrier type and manufacturer. Follow WRB manufacturer's instructions for proper installation. Construct a site-built mockup to using specified project materials to verify installation sequencing, detailing, and aesthetics.

I. Test the final assembly to verify performance, correct any deficiencies.

J. Construct a site-built mockup to using specified project materials to verify installation sequencing, detailing, and aesthetics.
Cement Board Masonry Veneer System
Steel Framed Outside Corner

DETAIL: PBCI-211
DATE: 09/2019

NOTES:
A. Accessories, Weather Resistive Barrier and Drainage System not available from National Gypsum.
B. For NFPA 285 approved WRBs, see UL Evaluation Report R22158-02.
C. Do not exceed 16 in. (406 mm) o.c. as maximum wall framing spacing. Must be designed to limit deflection to L/360 under all live and dead loads.
D. Do not use PermaBase CI as a nailing base for other finishes.
E. Follow finish and mortar manufacturer’s instructions for proper installation.
F. Treat joints and corners in PermaBase CI with approved mesh and modified mortar.
G. Code-approved Weather Resistant Barrier (WRB) must be installed to protect the cavity (type and placement will vary per local building codes and/or manufacturer’s specifications, installation guidelines and warranties).
H. Weather Resistant Barrier installation recommendations vary by barrier type and manufacturer. Follow WRB manufacturer’s instructions for proper installation. Construct a site-built mockup to using specified project materials to verify installation sequencing, detailing, and aesthetics.
I. Test the final assembly to verify performance, correct any deficiencies.
J. Construct a site-built mockup to using specified project materials to verify installation sequencing, detailing, and aesthetics.

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Cement Board Masonry Veneer System

Steel Framed Through Penetration

DETAIL: PBCI-213
DATE: 09/2019

NOTES:

A. Accessories, Weather Resistive Barrier and Drainage System not available from National Gypsum.

B. For NFPA 285 approved WRBs, see UL Evaluation Report R22158-02.

C. Do not exceed 16 in. (406 mm) o.c. as maximum wall framing spacing. Must be designed to limit deflection to L/360 under all live and dead loads.

D. Do not use PermaBase CI as a nailing base for other finishes.

E. Follow finish and mortar manufacturer's instructions for proper installation.

F. Treat joints and corners in PermaBase CI with approved mesh tape and modified mortar.

G. Code-approved Weather Resistant Barrier (WRB) must be installed to protect the cavity (type and placement will vary per local building codes and/or manufacturer's specifications, installation guidelines and warranties).

H. Weather Resistant Barrier installation recommendations vary by barrier type and manufacturer. Follow WRB manufacturer's instructions for proper installation. Construct a site-built mockup to using specified project materials to verify installation sequencing, detailing, and aesthetics.

I. Test the final assembly to verify performance, correct any deficiencies.

J. Construct a site-built mockup to using specified project materials to verify installation sequencing, detailing, and aesthetics.

K. Install backer rod and sealant as specified around penetration.

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**Cement Board Masonry Veneer System**

**Steel Framed Vertical Expansion Joint**

**DETAIL: PBCI-214**

**DATE: 09/2019**

**NOTES:**

A. Accessories, Weather Resistive Barrier and Drainage System not available from National Gypsum.

B. For NFPA 285 approved WRBs, see UL Evaluation Report R22158-02.

C. Do not exceed 16 in. (406 mm) o.c. as maximum wall framing spacing. Must be designed to limit deflection to L/360 under all live and dead loads.

D. Do not use PermaBase CI as a nailing base for other finishes.

E. Follow finish and mortar manufacturer’s instructions for proper installation.

F. Treat joints and corners in PermaBase CI with approved mesh tape and modified mortar.

G. Code-approved Weather Resistance Barrier (WRB) must be installed to protect the cavity (type and placement will vary per local building codes and/or manufacturer’s specifications, installation guidelines and warranties).

H. Weather Resistance Barrier installation recommendations vary by barrier type and manufacturer. Follow WRB manufacturer’s instructions for proper installation. Construct a site-built mockup to using specified project materials to verify installation sequencing, detailing, and aesthetics.

I. Test the final assembly to verify performance, correct any deficiencies.

J. Construct a site-built mockup to using specified project materials to verify installation sequencing, detailing, and aesthetics.

K. Install backer rod and sealant as specified in expansion joint.

L. Expansion joint accessory as alternative to backer rod and sealant.

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**DETAIL: PBCI-215**
**DATE: 09/2019**

**NOTES:**

A. Accessories, Weather Resistant Barrier and Drainage System not available from National Gypsum.

B. For NFPA 285 approved WRBs, see UL Evaluation Report R22158-02.

C. Do not exceed 16 in. (406 mm) o.c. as maximum wall framing spacing. Must be designed to limit deflection to L/360 under all live and dead loads.

D. Do not use PermaBase CI as a nailing base for other finishes.

E. Follow finish and mortar manufacturer’s instructions for proper installation.

F. Treat joints and corners in PermaBase CI with approved mesh tape and modified mortar.

G. Code-approved Weather Resistant Barrier (WRB) must be installed to protect the cavity (type and placement will vary per local building codes and/or manufacturer’s specifications, installation guidelines and warranties).

H. Weather Resistant Barrier installation recommendations vary by barrier type and manufacturer. Follow WRB manufacturer’s instructions for proper installation. Construct a site-built mockup to verify installation sequencing, detailing, and aesthetics.

I. Test the final assembly to verify performance, correct any deficiencies.

J. Construct a site-built mockup to verify installation sequencing, detailing, and aesthetics.

K. Install backer rod and sealant as specified around penetration.

1. Thin Brick
2. Modified Mortar
3. PermaBase CI
4. Drainage
5. Weather Resistant Barrier
6. eXP Sheathing
7. Self-Adhered Flashing
8. Backer Rod and Sealant