



Design No. U419 BXUV/U419 Fire Resistance Ratings - ANSI/UL 263

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Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire Resistance Ratings - ANSI/UL 263 Certified for United States Design Criteria and Allowable Variations

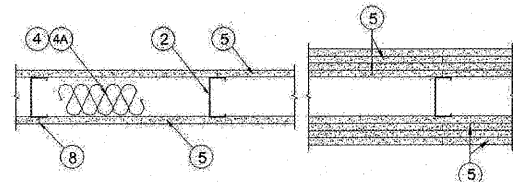
See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada Design Criteria and Allowable Variations

Design No. U419

March 06, 2018

Nonbearing Wall Ratings - 1, 2, 3 or 4 Hr (See Items 4 & 5 through 9K)

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



FUSION BUILDING PRODUCTS - Viper25™

IMPERIAL MANUFACTURING GROUP INC - Viper20™

2D. Framing Members* - Steel Studs - In lieu of Item 2 - Channel shaped studs, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

ALLSTEEL & GYPSUM PRODUCTS INC - Type SUPREME Framing System

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV - Type SUPREME Framing System

QUAIL RUN BUILDING MATERIALS INC - Type SUPREME Framing System

SCAFCO STEEL STUD MANUFACTURING CO - Type SUPREME Framing System

STEEL CONSTRUCTION SYSTEMS INC - Type SUPREME Framing System

UNITED METAL PRODUCTS INC - Type SUPREME Framing System

2E. Framing Members* - Steel Studs - (Not Shown, As an alternate to Item 2) - For use with Items 5F or 5G or 5I or 5K only, channel shaped studs, min depth as indicated under Item 5F, 5G or 5I, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

CLARKDIETRICH BUILDING SYSTEMS - CD ProSTUD

DMPFCWS L L C - ProSTUD

NBA METAL FRAMING - ProSTUD

RAM SALES L L C - Ram ProSTUD

STEEL STRUCTURAL PRODUCTS L L C - Tri-S ProSTUD

2F. Framing Members* - Steel Studs - Not Shown - In lieu of Item 2 - proprietary channel shaped steel studs, minimum width indicated under Item 5, 1-1/4 in. deep fabricated from min 0.015 in. (min bare metal thickness) galvanized steel. Studs 3/8 in. to 3/4 in. less in lengths than assembly heights.

SUPER STUD BUILDING PRODUCTS - The Edge

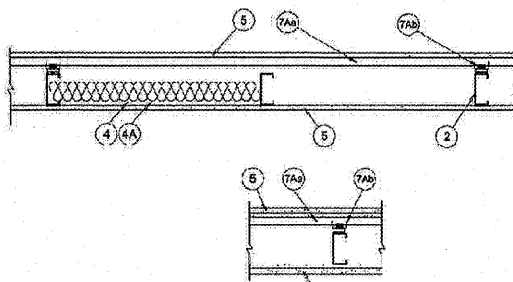
2G. Framing Members* - Steel Studs - Not Shown - In lieu of Item 2 - proprietary channel shaped steel studs, minimum width indicated under Item 5, Studs to be cut 3/4 in. less than assembly height.

STUDCO BUILDING SYSTEMS - CROCKSTUD

2H. Framing Members* - Steel Studs - (Not Shown, As an alternate to Item 2) - proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

TELLING INDUSTRIES L L C - Viper20™

2I. Framing Members* - Steel Studs - (As an alternate to Item 2) - For use with Items 5C or 5L or 5K - Proprietary channel shaped studs, 3-5/8 in. deep spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height and installed with a 1/2 in. gap between the end of the stud and track at the bottom of the wall. For direct attachment of gypsum board only.



1. Floor and Ceiling Runners - (Not Shown) - For use with Item 2 - Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth to accommodate stud size, with min 1-1/4 in. long legs, attached to floor and ceiling with fasteners 24 in. OC max.

1A. Framing Members* - Floor and Ceiling Runners - (Not Shown) - In lieu of Item 1 - For use with Item 2B, proprietary channel shaped runners, 3-5/8 in. deep attached to floor and ceiling with fasteners 24 in. OC max.

CALIFORNIA EXPANDED METAL PRODUCTS CO - Viper25™ Track

CRACO MFG INC - SmartTrack25™

MARINO/WARE, DIV OF WARE INDUSTRIES INC - Viper25™ Track

FUSION BUILDING PRODUCTS - Viper25™ Track

IMPERIAL MANUFACTURING GROUP INC - Viper25™ Track

1B. Framing Members* - Floor and Ceiling Runner - (Not Shown - In lieu of Item 1) - For use with Item 2C, proprietary channel shaped runners, 1-1/4 in. wide by 3-5/8 in. deep fabricated from min 0.015 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

CALIFORNIA EXPANDED METAL PRODUCTS CO - Viper20™ Track

MARINO/WARE, DIV OF WARE INDUSTRIES INC - Viper20™ Track

FUSION BUILDING PRODUCTS - Viper20™ Track

IMPERIAL MANUFACTURING GROUP INC - Viper20™ Track

1C. Framing Members* - Floor and Ceiling Runners - (Not Shown) - In lieu of Item 1 - Channel shaped, attached to floor and ceiling with fasteners 24 in. OC max.

ALLSTEEL & GYPSUM PRODUCTS INC - Type SUPREME Framing System

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV - Type SUPREME Framing System

QUAIL RUN BUILDING MATERIALS INC - Type SUPREME Framing System

SCAFCO STEEL STUD MANUFACTURING CO - Type SUPREME Framing System

STEEL CONSTRUCTION SYSTEMS INC - Type SUPREME Framing System

UNITED METAL PRODUCTS INC - Type SUPREME Framing System

1D. Floor and Ceiling Runners - (Not Shown) - For use with Item 2A - Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, min depth to accommodate stud size, with min 1 in. long legs, attached to floor and ceiling with fasteners spaced max 24 in. OC.

1E. Framing Members* - Floor and Ceiling Runners - (Not Shown, As an alternate to Item 1) - For use with Items 2E, 5F or 5G or 5I only, channel shaped, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC max.

CLARKDIETRICH BUILDING SYSTEMS - CD ProTRAK

DMPFCWS L L C - ProTRAK

NBA METAL FRAMING - ProTRAK

RAM SALES L L C - Ram ProTRAK

STEEL STRUCTURAL PRODUCTS L L C - Tri-S ProTRAK

1F. Framing Members* - Floor and Ceiling Runner - (Not Shown - In lieu of Item 1) - For use with Item 2F, proprietary channel shaped runners, minimum width to accommodate stud size, with 1-1/8 in. long legs fabricated from min 0.015 in. (min bare metal thickness) galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

SUPER STUD BUILDING PRODUCTS - The Edge

1G. Framing Members* - Floor and Ceiling Runner - For use with Item 2G, proprietary channel shaped runners, minimum width to accommodate stud size attached to floor and ceiling with fasteners 24 in. OC max.

STUDCO BUILDING SYSTEMS - CROCKSTUD Track

1H. Floor and Ceiling Runners - (Not Shown) - Channel shaped, fabricated from min 0.02 in. galv steel, min depth to accommodate stud size, with min 1 in. long legs, for use with studs specified below and fabricated from min 0.015 in. galv steel or thicker, attached to floor and ceiling with fasteners spaced max 24 in. OC.

MARINO/WARE, DIV OF WARE INDUSTRIES INC - Viper20™ Track VT100

FUSION BUILDING PRODUCTS - Viper20™ Track VT150

IMPERIAL MANUFACTURING GROUP INC - Viper20™ Track VT100

1I. Framing Members* - Floor and Ceiling Runners - (Not Shown, As an alternate to Item 1) - For use with Items 2H, channel shaped, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC max.

TELLING INDUSTRIES L L C - Viper-TRACK™

1J. Framing Members* - Floor and Ceiling Runner - (Not Shown - In lieu of Item 1) - For use with Item 2J, proprietary channel shaped runners, 3-5/8 in. deep attached to floor and ceiling with fasteners 24 in. OC max.

TELLING INDUSTRIES L L C - Viper25™ Track

1K. Framing Members* - Floor and Ceiling Runner - (Not Shown - In lieu of Item 1) - For use with Item 2I, proprietary channel shaped runners, 1-1/4 in. wide by 3-5/8 in. deep fabricated from min 0.015 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

TELLING INDUSTRIES L L C - Viper20™ Track

1L. Framing Members* - Floor and Ceiling Runner - (Not Shown - In lieu of Item 1) - For use with Item 2N, proprietary channel shaped runners, 1-1/4 in. wide by min. 3-1/2 in. deep fabricated from min 0.015 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

STEEL INVESTMENT GROUP L L C - AlphaTRAK

1M. Framing Members* - Floor and Ceiling Runners - Not Shown - As an alternate to Item 1 - For use with Item 2O, proprietary channel shaped runners, min width to accommodate stud size, galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

RONDO BUILDING SERVICES PVT LTD - Rondo Wall Track

1N. Framing Members* - Floor and Ceiling Runners - (Not Shown - In lieu of Item 1) - For use with Item 2P, proprietary channel shaped runners, min width to accommodate stud size, galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

OEG BUILDING MATERIALS - OEG Track

1O. Framing Members* - Floor and Ceiling Runner - (Not Shown - In lieu of Item 1) - For use with Item 2Q, proprietary channel shaped runners, 1-1/4 in. wide by min. 3-1/2 in. deep fabricated from min. 25 MSG (0.015 in. min. bare metal thickness), attached to floor and ceiling with fasteners spaced 24 in. OC max.

CALIFORNIA EXPANDED METAL PRODUCTS CO - Viper X Track

2. Steel Studs - Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC, studs to be cut 3/8 to 3/4 in. less than assembly height.

2A. Steel Studs - (As an alternate to Item 2) - For use with Items 2B, 2E, 2F, 2G and 2H - Channel shaped, fabricated from min 25 MSG corrosion-protected or galv steel, min depth, spaced a max of 16 in. OC. Studs fabricated into the field using framing runners. Studs to be cut 5/8 to 3/4 in. less than assembly height.

2B. Framing Members* - Steel Studs - (As an alternate to Item 2, For use with Items 5C, 5I or 5K) - Proprietary channel shaped studs, 3-5/8 in. deep spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than the assembly height and installed with a 1/2 in. gap between the end of the stud and track at the bottom of the wall. For direct attachment of gypsum board only.

CALIFORNIA EXPANDED METAL PRODUCTS CO - Viper25™

CRACO MFG INC - SmartStud25™

MARINO/WARE, DIV OF WARE INDUSTRIES INC - Viper25™

FUSION BUILDING PRODUCTS - Viper25™

IMPERIAL MANUFACTURING GROUP INC - Viper25™

2C. Framing Members* - Steel Studs - (Not Shown - In lieu of Item 2) - proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 0.015 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights.

CALIFORNIA EXPANDED METAL PRODUCTS CO - Viper20™

MARINO/WARE, DIV OF WARE INDUSTRIES INC - Viper20™

1B. Batts and Blankets* - (Optional) - Placed in stud cavities, any min. 3-1/2 in. thick glass fiber insulation bearing the following marking as to Surface Burning Characteristics and/or Fire Resistance.

and Blankets (BKIV or B2J2) Categories for names of Classified companies.

1C. Fiber, Sprayed* - (Optional) and as an alternate to Batts and Blankets (Item 4B) where insulation is required - spray applied granulated mineral fiber material. The fiber is applied with adhesive at a minimum density of 4.0 pcf to completely fill the wall cavity in accordance with the application instructions supplied with the product. See Fiber, Sprayed (CCZ).

AMERICAN ROCKWOOL MANUFACTURING, LLC - Type Rockwool Premium Plus

5. Gypsum Board* - Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 1 hr, 2 hr, 3 hr and 4 hr ratings are as follows:

Gypsum Board Protection on Each Side of Wall

Table with 4 columns: Rating, Hr, Min Stud Depth, in., No. of Layers & Thickness of Panel, Min Thickness of Insulation (Item 4)

CGC INC - 1/2 in. thick Type C, IP-X2 or IPC-AR; WRC, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX or WRC; 3/4 in. thick Type IP-X3 or ULTRACODE

UNITED STATES GYPSUM CO - 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type SCX, SHX, WRX, IP-X1, AR, C, WRC, PRX-G, IP-AR, IP-X2, IPC-AR; 3/4 in. thick Types IP-X3 or ULTRACODE

USG BORAL DRYWALL SFZ LLC - 1/2 in. Type C; 5/8 in. Types C, SCX, SHX, ULTRACODE

USG MEXICO S A DE CV - 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX, WRC or 3/4 in. thick Types IP-X3 or ULTRACODE

When Item 7E, Steel Framing Members* is used, Nonbearing Wall Ratings are limited to 1 Hr. Min. stud depth is 3-1/2 in., min. thickness of insulation (Item 4) is 3 in., and two layers of gypsum board panels (1/2 in. or 5/8 in. thick) shall be attached to framing channels as described in Item 6.

5A. Gypsum Board* - (As an alternate to Item 5) - 5/8 in. thick, 24 to 54 in. wide, applied horizontally as the outer layer to one side of the assembly. Secured as described in Item 6.

CGC INC - Type SHX.

UNITED STATES GYPSUM CO - Type PRX-G, SHX.

1K. Batts and Blankets* - (Optional) - Placed in stud cavities, any min. 3-1/2 in. thick glass fiber insulation bearing the following marking as to Surface Burning Characteristics and/or Fire Resistance.

and Blankets (BKIV or B2J2) Categories for names of Classified companies.

1C. Fiber, Sprayed* - (Optional) and as an alternate to Batts and Blankets (Item 4B) where insulation is required - spray applied granulated mineral fiber material. The fiber is applied with adhesive at a minimum density of 4.0 pcf to completely fill the wall cavity in accordance with the application instructions supplied with the product. See Fiber, Sprayed (CCZ).

AMERICAN ROCKWOOL MANUFACTURING, LLC - Type Rockwool Premium Plus

5. Gypsum Board* - Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 1 hr, 2 hr, 3 hr and 4 hr ratings are as follows:

Gypsum Board Protection on Each Side of Wall

Table with 4 columns: Rating, Hr, Min Stud Depth, in., No. of Layers & Thickness of Panel, Min Thickness of Insulation (Item 4)

CGC INC - 1/2 in. thick Type C, IP-X2 or IPC-AR; WRC, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX or WRC; 3/4 in. thick Type IP-X3 or ULTRACODE

UNITED STATES GYPSUM CO - 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type SCX, SHX, WRX, IP-X1, AR, C, WRC, PRX-G, IP-AR, IP-X2, IPC-AR; 3/4 in. thick Types IP-X3 or ULTRACODE

USG BORAL DRYWALL SFZ LLC - 1/2 in. Type C; 5/8 in. Types C, SCX, SHX, ULTRACODE

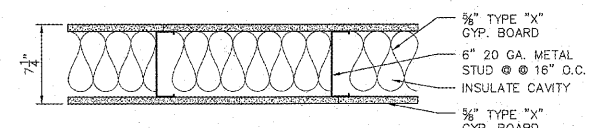
USG MEXICO S A DE CV - 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX, WRC or 3/4 in. thick Types IP-X3 or ULTRACODE

When Item 7E, Steel Framing Members* is used, Nonbearing Wall Ratings are limited to 1 Hr. Min. stud depth is 3-1/2 in., min. thickness of insulation (Item 4) is 3 in., and two layers of gypsum board panels (1/2 in. or 5/8 in. thick) shall be attached to framing channels as described in Item 6.

5A. Gypsum Board* - (As an alternate to Item 5) - 5/8 in. thick, 24 to 54 in. wide, applied horizontally as the outer layer to one side of the assembly. Secured as described in Item 6.

CGC INC - Type SHX.

UNITED STATES GYPSUM CO - 1/2 in. thick Type SCX, SHX.

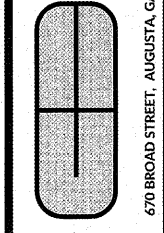


** EXTEND WALL TO BOTTOM OF ROOF DECK ABOVE ** INSTALL AND SEAL PER UL DESIGN DETAIL.

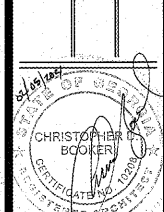
A TYPICAL U419 A0.0 SCALE: 1 1/2" = 1'-0"

SHELL DESIGN

ARCHITECTS Christopher Booker & Associates, PC



PROPOSED BUILDING SHELL & DUNKIN' OMNI PC# 362912 APS INVESTMENT, INC. 5303 WRIGHTSBORO ROAD GROVETOWN, GEORGIA 30813



DESIGN BY: CLB CHECKED BY: DATE: FEBRUARY 3, 2021 REVISIONS:

JOB NO. 2052-A SHEET NO. A0.0