

ERVALL GRID SYSTEM



FRAMEALL[™] DRYWALL GRID

FrameAll[™] Drywall Grid eliminates the laborintensive cutting, tying, and spacing of track and channel framing. Our systems are engineered with rout locations and cross tees to maintain precise module spacing. Main beams have 51 routs, 8" O.C. and varying cross tee lengths to accommodate diffusers and fixtures of all types without field modifications or accessories.

The FrameAll Drywall Grid family of products is manufactured to meet or exceed ASTM Standards and code requirements. They are engineered to carry 7-14+ lbs per square foot and to provide faster, easier, better alternatives to stud and track construction.

The vertical load carrying capacity for main beam and cross tee members is determined in accordance with ASTM test method E3090. Suspended ceiling systems constructed of screw-attached gypsum board panels may be installed in accordance with ASTM C1858 and are exempt from code prescribed requirements of acoustical or lay-in panel ceilings. This standard practice is limited to framing that supports a single level ceiling and is surrounded by, and attached to, laterally braced walls or soffits.



CODE COMPLIANCE YOU CAN TRUST

- IBC categories D, E,

and F single layer

drywall ceilings

are exempt from

requirements,

regardless of

room size

03/17/2021

lateral force bracing

Miami-Dade County,

Florida wind uplift -

NOA No. 19-0911.08 -

Meets:

- ASTM C1858
- ASTM C635
- ASTM C645
- ASTM C754
- ASTM C840
- ASTM E3090
- ICC Evaluation Service Report ESR-1289
- City of LA RR 25348 - Miami-Dade County, Florida impact testing -NOA No. 19-0911.02 -10/07/2020
 - Consult local codes for specific requirements

PERFORMANCE (cont...)

- PeakForm[®] profile increases strength and stability for improved performance during installation
- XL[®] (staked-on end detail) cross tees provide secure locked connection; fast and easy to install
- SuperLock[™] main beam clip is engineered for a strong, secure connection and fast accurate alignment confirmed with an audible click; easy to remove and relocate



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(...cont.) PERFORMANCE

- · Kr
 - Knurled Ridges on cross tees for speed of screw insertion during board installation
 - ScrewStop[™] reverse hem prevents screw spinoff on 1-1/2" wide face
 - Rotary-stitched Greater torsional strength and stability
 - 1-1/2" wide face main beams and cross tees – Easy installation of screw-applied gypsum wallboard
 - G40 hot-dipped galvanized coating Corrosion resistance per ASTM C645

Flat Drywall Grid Installation

- G90 hot-dipped galvanized coating – Superior corrosion resistance for exterior applications per ASTM A653
- Heavy-duty load rating Minimum 16 Lbs/LF on main beams
- Fire Rated Applicable to 25 UL® Fire Resistant designs (D501, D502, G523, G524, G527, G528, G529, G553, J502, L502, L508, L513, L515, L525, L526, L529, L564, P501, P506, P507, P508, P509, P510, P513, P514, P516)
- Wind uplift and impact-tested; Engineered assemblies available for up to 172 MPH for Miami Dade/Broward County, Florida
- Cross tee spacing:
 16" or 24" O.C. for 5/8" drywall
 16" O.C. for 1/2" drywall
- Sourced and manufactured in the USA

MAIN BEAMS

| | | | | | | Load Test Data (Lbs/LF) | | | | | |
|-------------|-----------------------|--------|----------|----------|--------|-------------------------|-------|-------|----------------------|-------|-------|
| Perspective | Item No. | Length | Height | Pcs./Ctn | LF/Ctn | L/240 Simple Span | | | L/360 Simple Span | | |
| | 100 100 100 | | | | | 24" | 36" | 48" | 24" | 36" | 48" |
| | | 144" | 1-11/16" | 12 | 144 | 120.0 | 48.95 | 28.14 | 95.5 | 43.19 | 18.66 |
| | HD8906IIC | 144" | 1-11/16" | 12 | 144 | 120.0 | 48.95 | 28.14 | 95.5 | 43.19 | 18.66 |
| | HD890610 | 120" | 1-11/16" | 12 | 120 | 120 | 48.95 | 28.14 | 95.5 | 43.19 | 18.66 |
| • | SP135 (G90 Stucco) | 135" | 1-11/16" | 12 | 135 | 139.85 | 52.59 | 28.71 | 95.5 | 43.19 | 18.66 |

| | | | | | Packaging | | Load Test Data (Lbs/LF) | | | |
|---|-----------|-------------------------------|---------|--------|-----------|--------|-------------------------|---------------|-----|---------------|
| Perspective | ltem No. | Description | Length | Height | Pcs./Ctn | LF/Ctn | | 240 e Span | | 360 e Span |
| | | | | | | | 36" | 48" | 36" | 48" |
| A Starter | SSLU2424 | L Soffit Upturn 24 × 24" | 48" | 1-1/4" | 12 | 48 | 47.5 | 20.5 | 32 | 13.7 |
| Contraction of the second s | SSLU4824 | L Soffit Upturn 48 × 24" | 72" | 1-1/4" | 12 | 72 | 47.5 | 20.5 | 32 | 13.7 |
| | SSLU3636 | L Soffit Upturn 36 × 36" | 72" | 1-1/4" | 12 | 72 | 47.5 | 20.5 | 32 | 13.7 |
| | SSLD2424 | L Soffit Downturn 24 × 24" | 48" | 1-1/4" | 12 | 48 | 47.5 | 20.5 | 32 | 13.7 |
| 1et | SSLU1836 | L Soffit Upturn 18 × 36" | 54" | 1-1/4" | 12 | 54 | 47.5 | 20.5 | 32 | 13.7 |
| net | SSLU1872 | L Soffit Upturn 18 × 72" | 90" | 1-1/4" | 12 | 90 | 47.5 | 20.5 | 32 | 13.7 |
| net | SSU182418 | U Soffit 18 × 24 × 18" | 58-1/2" | 1-1/4" | 12 | 58-1/2 | 47.5 | 20.5 | 32 | 13.7 |
| net | SSU123612 | U Soffit 12 × 36 × 12" | 58-1/2" | 1-1/4" | 12 | 58-1/2 | 47.5 | 20.5 | 32 | 13.7 |

| Metric | | | | | | Load Test Data (KG/LM) | | | | | |
|-------------|----------|--------|--------|----------|--------|------------------------|------------------|-------------------|---------------------|------------------|-------------------|
| | | | | Packa | aging | L/240 SimpleSpan | | | L/360 SimpleSpan | | |
| Perspective | Item No. | Length | Height | Pcs./Ctn | LF/Ctn | 24 (609.60mm) | 36 (914.40mm) | 48 (1219.20mm) | 24 (609.60mm) | 36 (914.40mm) | 48 (1219.20mm) |
| | HD7940* | 3600mm | 43mm | 12 | 138.80 | 213.2 | 72.83 | 72.83 | 142.12 | 64.27 | 27.77 |
| L'EL | 7940G* | 3600mm | 43mm | 12 | 141.73 | 153.8 | 73.57 | 73.57 | 102.52 | 49.05 | 21.24 |

Red Numbers are Fire Guard items. For fire-rated assemblies, use Type C gypsum board as noted in the UL® fire-rated assembly designs. NOTE: All load test data based on flat installation per ASTM C635. *Indicates items that are not Type F Fixture compatible

CROSS TEES

| CROSS TEES | 6 | | | | | Load Test D | ata (Lbs/LF) |
|-------------|--|--------|--------|----------|---------|----------------------|----------------------|
| Perspective | Item No. | Length | Height | Pcs./Ctn | LF/ Ctn | L/240 Simple Span | L/360 Simple Span |
| | | | | | | 72" | 72" |
| | XL8965 XL8965HRC XL8965G90 XL8947P XL8947PG90 XL8945P | 72" | 1-1/2" | 36 | 216 | 6.87 @ 72" | 4.58 @ 72" |
| | XL8947P XL8947PG90 | 50" | 1-1/2" | 36 | 150 | 19.5 @ 50" | 12.79 @ 50" |
| | XL8945P XL8945HRC XL8945PG90 | 48" | 1-1/2" | 36 | 144 | 22.5 @ 48" | 14.27 @ 48" |
| | XL8940 | 40" | 1-1/2" | 36 | 119 | 36.22 @ 40" | 24.15 @ 40" |
| | XL7936G90* | 36" | 1-1/2" | 36 | 108 | 45.7 @ 36" | 31.33 @ 36" |
| | XL8926 XL8926G90 | 24" | 1-1/2" | 36 | 78 | 119.0 @24" | 90.25 @ 24" |

CROSS TEES

| Metric | etric | | | | | Load Test Da | ata (Lbs./LF) | Load Test Data (KG./LM) | |
|--------------------------------|----------|--------|--------|----------|---------|----------------------|----------------------|-------------------------|----------------------|
| Perspective | Item No. | Length | Height | Pcs./Ctn | LF/ Ctn | L/240 Simple Span | L/360 Simple Span | L/240 Simple Span | L/360 Simple Span |
| Drywall Cross Tees – Metric | XL7961* | 1600mm | 38mm | 36 | 188.9 | 10.25 @ 72" | 6.84 @ 72" | 15.21 @ 1600mm | 10.15 @ 1600mm |
| | XL7930* | 1200mm | 38mm | 36 | 138.8 | 22.4 @ 48" | 14.93 @ 48" | 33.48 @ 1200mm | 21.24 @ 1200mm |
| | XL7925* | 900mm | 38mm | 36 | 108 | 51.92 @ 36" | 34.61 @ 36" | 68.01 @ 900 mm | 46.62 @ 900mm |
| | XL7920* | 600mm | 38mm | 36 | 69.4 | 114.59 @ 24" | 79.39 @ 24" | 177.15 @ 600mm | 134.31 @ 600mm |

Red Numbers are Fire Guard items. For fire-rated assemblies, use Type C gypsum board as noted in the UL® fire-rated assembly designs. NOTE: All load test data based on flat installation per ASTM C635. *Indicates items that are not Type F Fixture compatible

MOLDINGS

| Perspective | Item No. | Length | Height | Metal Thickness | Pcs/Ctn | LF/Ctn | Profile |
|--------------------------------|----------------------------|--------|--------|-----------------|---------|--------|--|
| Reverse Angle Molding | 7858 | 144" | 15/16" | 0.018" | 20 | 240 | 15/16" |
| Locking Angle Molding | LAM12 | 144" | 1-1/4" | 0.018" | 10 | 240 | e |
| 83 188 | LAM12G90 | 144" | 1-1/4" | 0.018" | 10 | 240 | |
| | LAM12HRC | 144" | 1-1/4" | 0.018" | 10 | 240 | - 1-1/2" 1-1/4" |
| | LAM151220E | 144" | 1-1/2" | 0.028" | 10 | 120 | -1-1/2", 1-1/4" - |
| Knurled Angle Molding (KAM) | KAM10 | 120" | 1-1/4" | 0.018" | 10 | 100 | ΤP |
| | KAM12 | 144" | 1-1/4" | 0.018" | 10 | 120 | 1-1/4* |
| | KAM12G90 | 144" | 1-1/4" | 0.018" | 10 | 120 | 1-1/2" 2" |
| | KAM1510 | 120" | 1-1/2" | 0.018" | 10 | 100 | |
| | KAM1512 | 144" | 1-1/2" | 0.018" | 10 | 120 | - 1-1/4", 1-1/2", 2" - |
| | KAM151020E | 120" | 1-1/2" | 0.028" | 10 | 100 | |
| | KAM151220E | 144" | 1-1/2" | 0.028" | 10 | 120 | |
| | KAM151020 | 120" | 1-1/2" | 0.033" | 10 | 100 | |
| | KAM1525G90 | 120" | 1-1/2" | 0.018" | 10 | 100 | |
| | KAM1520G90 | 120" | 1-1/2" | 0.018" | 10 | 100 | |
| | KAM21025 | 120" | 2" | 0.018" | 10 | 100 | |
| | KAM21020EQ | 120" | 2" | 0.028" | 10 | 100 | |
| | KAM21020 | 120" | 2" | 0.033" | 10 | 100 | |
| SimpleCurve® KAM | SC151220EQ (37" Radius) | 148" | 1-1/2" | 0.028" | 10 | 124 | |
| | SC151225 (32" Radius) | 148" | 1-1/2" | 0.018" | 10 | 124 | 1-1/2* 2" |
| | SC2122OEQ (55" Radius) | 148" | 2" | 0.028" | 10 | 124 | - 1-1/2", 2" |
| $\langle Z \rangle$ | SC21225 (40" Radius) | 148" | 2" | 0.018" | 10 | 124 | |

TRANSITION MOLDINGS

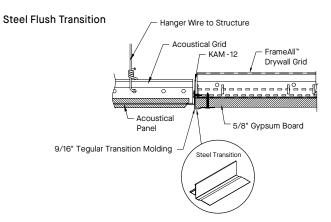
DRYWALL TRANSITION MOLDING

Transitions can be found on nearly every project. We've created pre-engineered solutions for these and other common conditions to make installation easier and to provide a finished look that is consistent and reliable.

Material: Commercial-quality cold-rolled hot-dipped galvanized steel

| Item No. | Length/Item Description | Face Dimension | Flange | Total Width | |
|-----------------|---|---------------------------|--------|-------------|---|
| 7901 | 120" Shadow Reveal Molding | 3/8" shadow reveal | 9/16" | 1-1/4" | |
| 7902 | 120" Shadow Reveal Molding | 3/8" shadow reveal | 15/16" | 1-1/4" | |
| 7903 | 120" Inverted T Molding | 1" inverted T | - | 1-1/2" | |
| 7904 7904PF* | 120" Flush Transition Molding | 15/16" horizontal | 15/16" | 1-1/4" | |
| 7905 7905PF* | 120" Flush Transition Molding | 9/16" horizontal | 9/16" | 1-1/4" | |
| 7906 | 120" F Molding | 120" vertical transition | 1/2" | 1-7/16" | |
| 7907 | 120" Tegular Transition Molding | 9/16" horizontal | 9/16" | 1-1/4" | |
| 7908 | 120" Tegular Transition Molding | 15/16" horizontal | 15/16" | 1-1/4" | |
| 7909 | 15/16" 1" Step Transition Molding | 15/16" horizontal | 15/16" | 1-7/8" | |
| 7910 | 9/16" 1" Step Transition Molding | 9/16" horizontal | 9/16" | 1-7/8" | - |
| 7911 | 9/16" Shadow Reveal Transition Molding | 3/8" × 1/4" shadow reveal | 9/16" | 1-1/8" | |
| 7912 | 15/16" Shadow Reveal Transition Molding | 3/8" × 1/4" shadow reveal | 15/16" | 1-1/4" | |
| 7913 | 120" F Vertical Transition Molding | 9/16" horizontal | 9/16" | 1-1/2" | |
| 7914 | 120" F Vertical Transition Molding | 15/16" horizontal | 15/16" | 1-1/2" | |

* 7904PF and 7905PF feature protective film on the acoustical wall angle flange for faster, easier finishing.



AXIOM DRYWALL TRANSITIONS

Material: Extruded aluminum, alloy 6063

| Item No. | Length/Item Description | Dimensions | |
|----------------------|---|--------------------------|---|
| AXTRVESTR | Straight Transition for Axiom® Vector® Ceiling | 120 × 2-9/16 × 1-11/16" | Axiom [®] – Transitions with Vector [®] panel to drywall perimeter (AXTRVESTR) |
| AXTRTECUR | Curved Transition for Tegular | 120 × 2-9/16 × 1-11/16" | Axiom [®] – Transitions with Tegular panel to drywall perimeter (AXTRTESTR, AXTRTECUR) |
| AXTR7907STR | 9/16" Tegular Transition Molding, Straight | 120 × 2-9/16 × 1-11/16" | م ع |
| AXTR7907CUR | 9/16" Tegular Transition Molding, Curved | Vary × 2-9/16 × 1-11/16" | |
| AXTR7908STR | 15/16" Tegular Transition Molding, Straight | 120 × 2-9/16 × 1-13/16" | ر م |
| AXTR7908CUR | 15/16" Tegular Transition Molding, Curved | Vary × 2-9/16 × 1-13/16" | |
| AXTR2STR | 2" Straight Transition | 120 × 2 × 1-1/2" | (Januariani |
| AXTR2CUR | 2" Curved Transition | 120 × 2 × 1-1/2" | - |
| AXTR4STR | 4" Straight Transition | 120 × 4 × 1-1/2" | ²≬¶⊕⊕ |
| AXTR4CUR | 4" Curved Transition | 120 × 4 × 1-1/2" | - AXBT / |
| AXTR6STR | 6" Straight Transition | 120 × 6 × 1-1/2" | AXBT |
| AXTR6CUR | 6" Curved Transition | 120 × 6 × 1-1/2" | Acoustical-to-Drywall Drywall-to-Drywall |
| AXTR8STR | 8" Straight Transition | 120 × 8 × 1-1/2" | |
| AXBTSTR AXBTCUR | Drywall Bottom Trim for Straight and Curved 5/8" Drywall | 120 × 1-1/8 × 27/32" | |
| AXBTASTR AXBTACUR | Bottom Trim for AcoustiBuilt® Ceiling Systems (straight or curved) | - | |
| ACCESSORIES | | | |
| AX4SPLICEB | Splice Plate | | |
| AXSPLICE2 | Axiom Splice Plate Galvanized sheet steel formed to fit into the trim channel bosses. Provides positive lock between abutting channels with factory-installed setscrews. | - | |
| AXTBC | T-Bar Connector Clip | - | |

AXIOM ONE-PIECE DRYWALL TRIM

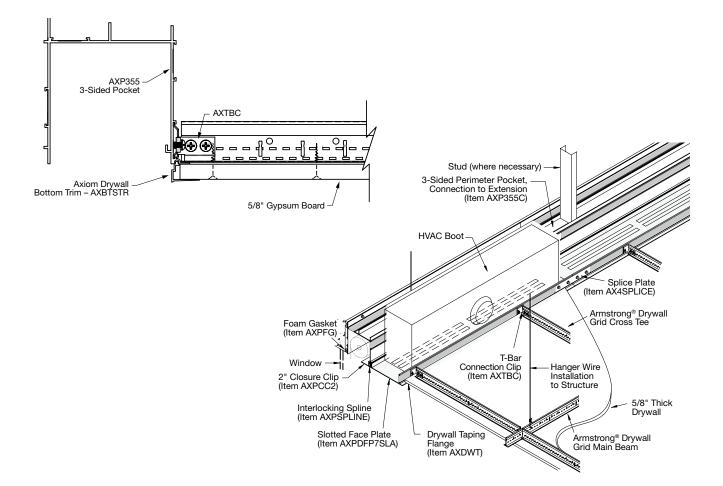
Material: Commercial-quality extruded aluminum alloy 6063

| Item No. | Length/Item Description | |
|-----------|---|---|
| AX1PC2STR | 2-9/16" One-Piece Straight Drywall Trim | HANGER WIRE |
| AX1PC2CUR | 2-9/16" One-Piece Curved Drywall Trim | 2-9/16" One-Piece Drywall Trim |
| AX1PC4STR | 4" One-Piece Straight Drywall Trim | |
| AX1PC4CUR | 4" One-Piece Curved Drywall Trim | HANGER WIRE HD8906 AXTBC HANGER WIRE HD8906 AXTBC HANGER WIRE HD8906 AXTBC HANGER WIRE HD8906 AXTBC HOR-Piece Drywall Trim 5/8" Drywall |
| AX1PC6STR | 6" One-Piece Straight Drywall Trim | HANGER WIRE |
| AX1PC6CUR | 6" One-Piece Curved Drywall Trim | Drywall Trim |

NOTE: For use with 5/8" drywall only

AXIOM SHADE POCKETS WITH DRYWALL INTEGRATION

For more information, visit our website at armstrongceilings.com/ axiom or download BPCS-3911 Axiom[®] Building Perimeter System Brochure or BPCS-3923 Axiom Building Perimeter Data Page.



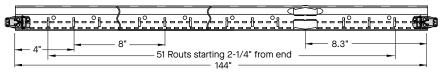
| Item No. | Length/Item Description | |
|--------------|---|-----------|
| AXP355LC | 3-Sided Lutron® Compatible Shade Pocket with Connection to Extension/Face Plate Piece | |
| AXPCC2 | 2" Shade Closure Clip | |
| AXPCC3 | 3" Shade Closure Clip | |
| AXPDFP4DTSLA | 4" Axiom Perimeter Face Plate with Drywall Flange – 2-Slot Pattern | <u>.</u> |
| AXPDFP4DTSLB | 4" Axiom Perimeter Face Plate with Drywall Flange – 1-Slot Pattern | <u></u> - |
| AXPDFP7DT | 7" Axiom Perimeter Face Plate with Drywall Flange – Unslotted | <u> </u> |
| AXPDFP7DTSLA | 7" Axiom Perimeter Face Plate with Drywall Flange – 2-Slot Pattern | . Ī |
| AXPDFP7DTSLB | 7" Axiom Perimeter Face Plate with Drywall Flange – 1-Slot Pattern | |

ROUT LOCATIONS

ROUT SPACING GUIDELINES

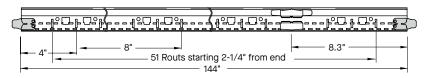
Imperial

HD8906 (HRC)/HD890610*

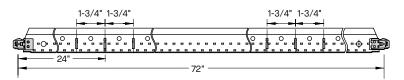


*HD890610 is 120" in length and only has 45 routs

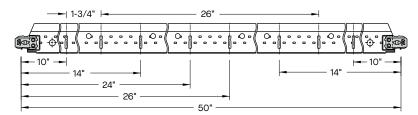
HD8906IIC



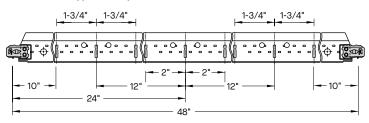
XL8965 (HRC) (Type F Compatible)



XL8947P (Type F Compatible)



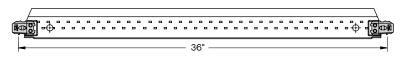
XL8945HRC/XL8945P (Type F Compatible)



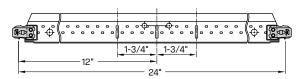
ROUT SPACING GUIDELINES

Imperial

XL7936G90

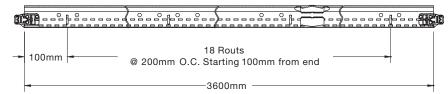


XL8926

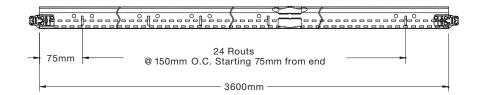


Metric

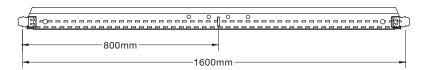
HD7940



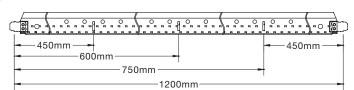
7940G



XL7961

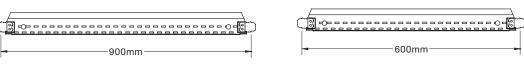


XL7930





XL7920



DRYWALL GRID ACCESSORIES

A variety of drywall grid accessories are available to provide problem-solving solutions that save time, labor, and money. For a complete list of accessories, request submittal BPCS-3082.

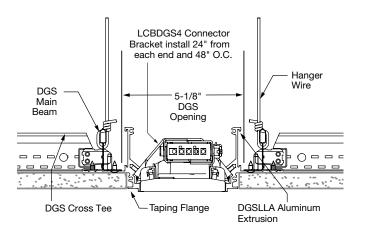
| Item No. | Quantity | Description | Perspective | Application |
|---|---|---|---|-------------|
| DWACS FZDWACS | 100 50 | Drywall Attachment Clip facilitates transition from drywall to acoustical ceiling; locks under bulb of grid section to prevent upward movement and provide secure attachment surface on one side of exposed grid. | Ţ. | 0 1 |
| DW30C DW45C DW60C DW90C FZDW30C FZDW45C FZDW60C FZDW60C FZDW90C | 250 250 250 50 50 50 50 50 | 30-, 45-, 60-, and 90-degree Drywall Angle Clips are used to create positive and secure angles for drywall and ceiling installations on either main beams or cross tees. | $30^{\circ} \qquad 45^{\circ} \qquad 0^{\circ} \qquad 0^$ | |
| TT10 | 30 | Partition Top Trim is used to finish the top of a drywall partition for a continuous drywall/acoustical ceiling interface. | | |
| DW58LT FZDW58LT | 125 50 | DW58LT – Transition Clip for 5/8" Drywall with Locking Tabs; facilitates transition from drywall to acoustical ceiling; one-sided hold down clip; eliminates need for drywall bead. Locking tabs provide secure location for Drywall Grid System tees. | ************************************** | |
| DW50LT FZDW50LT | 125 50 | DW50LT – Transition Clip for 1/2" Drywall with Locking Tabs: facilitates transition from drywall to acoustical ceiling; one-sided hold down clip; eliminates the need for a drywall bead. Locking tabs provide secure location for Drywall Grid System tees. | | 0 |
| IIC IIC2 | 36 36 | Impact Isolation Clip (IIC) for use with HD8906IIC] drywall grid main beam. Provides up to 8 points of IIC improvement to ensure your project meets IBC requirements. IIC2 for use with HD8906IIC drywall grid main beam. For conditions requiring two layers of drywall. Clip Color: Green IIC Clip must be used with HD8906IIC Drywall Grid Main Beam | | |
| MBSC2 | 200 | Main Beam Spacer Clip (2" in length) is used to space two parallel main beams 2" O.C. for air supply or return. | | |
| GSC9 GSC12 GSC16 FZGSC9 FZGSC12 FZGSC16 | 100 100 50 50 50 | Adjustable Grid Spacer Clip is used to space two parallel main beams for light fixtures, air diffusers, etc.; allows for 1/4" adjustments with three different clips. | նունունումու , հունունուն | |
| RC2AG FZRC2AG | 205 50 | RC2 – Radius Clip is used for drywall applications which form curved installations; attaches to the cavity side of web of the main beam with four 7/16" pan head screws. Install at all knockout locations. | 00 00 00 00 | |
| RC1 FZRC1 | 200 50 | RC1 – Splice Clip is used as a main beam splice or partition top trim splice. | | |

DRYWALL GRID ACCESSORIES

| Item No. | Quantity | Description | Perspective | Application |
|--|----------------------------|---|-------------|---------------------------|
| XTAC FZXTAC | 100 50 | Cross Tee Adapter Clip – is used to attach field cut cross tees to main beams. | | A CONTRACTOR OF THE OWNER |
| DDC FZDDC | 250 50 | Double Drywall Clip to hang suspension system below existing 1-1/2" grid face, transferring weight directly to hanger wire; may be used to preserve the fire rating of an existing ceiling and to support heavy accessories; allows for double layer of 5/8" gypsum board. | | |
| DLCC FZDLCC | 250 50 | Direct Load Ceiling Clip to hang suspension system below existing 15/16" grid face, transferring weight directly to hanger wire; may be used to preserve the fire rating of an existing ceiling and to support heavy accessories. | 0 | |
| DWC | 250 | Drywall Clip allows for a "second" ceiling to be installed below a drywall ceiling; attach through installed drywall to supporting structure. | 00/00 | |
| MBAC FZMBAC | 70 50 | Main Beam Adapter Clip attaches to web of suspension system section; provides larger surface for screw attachments; used as a hold down clip for thin material (metal or plastic lay-in panels); fastens drywall track to underside of exposed suspension system with lay-in panels, leaving suspension system face free of screw holes. | | |
| BPCBS4SS BPCBS6SS BPCBS8SS BPCBS10SS BPCBS12SS | 50 50 50 50 50 | 4", 6", 8", 10", and 12" CBS Hangers – Channel Beam Support Hanger for SimpleSoffit™ is used for easier C Channel installations (New York City market only). | | |
| CBS4A | 200 | 4", 6", 8", 10", and 12" Channel Beam Splice – Used to suspend main beams to 1-1/2" black iron carrying channels | | X |
| CBS6A | 200 | CBS2004A (4"), CBS2006A (6"), and CBS2008A (8") | ly. | |
| CBS8A | 200 | used for 2" black iron carrying channels | | |
| CBS10A | 150 | | | |
| CBS12A | 150 | | 1 T | |
| CBS2004A | 75 | | | |
| CBS2006A | 75 | | | |
| CBS2008A | 75 | | | |

| | BASO [™] LED Light Drywall Trim Kit | | | | | | | | |
|------------|--|----------------|--|--|--|--|--|--|--|
| Item No. | Description | Fixture Length | | | | | | | |
| | Drywall Linear Lighting | | | | | | | | |
| DGSLLTK24 | 24" Linear Light Trim Kit | 24" × 4" | | | | | | | |
| DGSLLTK30 | 30" Linear Light Trim Kit | 30" × 4" | | | | | | | |
| DGSLLTK48 | DGSLLTK48 48" Linear Light Trim Kit | | | | | | | | |
| DGSLLTK60 | 60" Linear Light Trim Kit | 60" × 4" | | | | | | | |
| DGSLLTK72 | 72" Linear Light Trim Kit | 72" × 4" | | | | | | | |
| DGSLLTK90 | 90" Linear Light Trim Kit | 90" × 4" | | | | | | | |
| DGSLLTK96 | 96" Linear Light Trim Kit | 96" × 4" | | | | | | | |
| DGSLLTK120 | 120" Linear Light Trim Kit | 120" × 4" | | | | | | | |
| DGSLLTKCON | 120" Continuous Linear Light Trim Kit | 120" | | | | | | | |
| | t Trim Kits designed to work with 5/8" drywall | | | | | | | | |

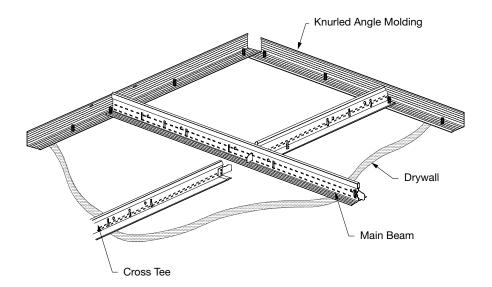
NOTE: Linear Light Trim Kits designed to work with 5/8" drywall



SYSTEM FRAMING

HANGING & FRAMING

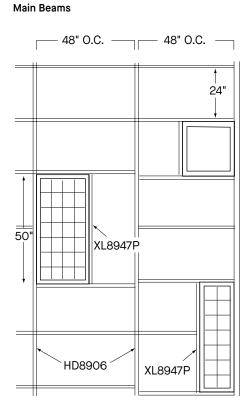
The grid system is comprised of main beams and cross tees that are typically suspended by hanger wires to the structural deck. Sections of main beams lock together end-to-end while cross tees span between the main beams. The ends of the main beams and cross tees rest on the angle molding that run around the perimeter of the space.

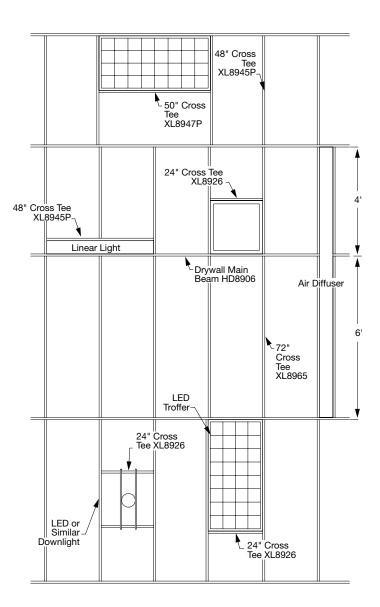


Type F fixtures, access panels, and air diffusers require a full 12", 24", or 48" opening dimension. The Armstrong[®] Drywall Grid System main beams and cross tees have additional routs in the web to accommodate this larger opening for Type F fixtures.

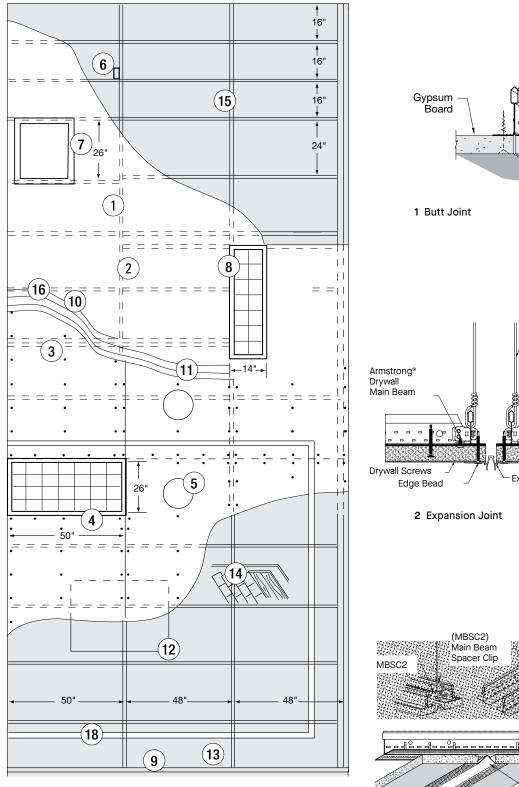
Using our 14", 26", 50", and 72" cross tees, Type F fixtures fit perfectly without field cutting or special accessories.

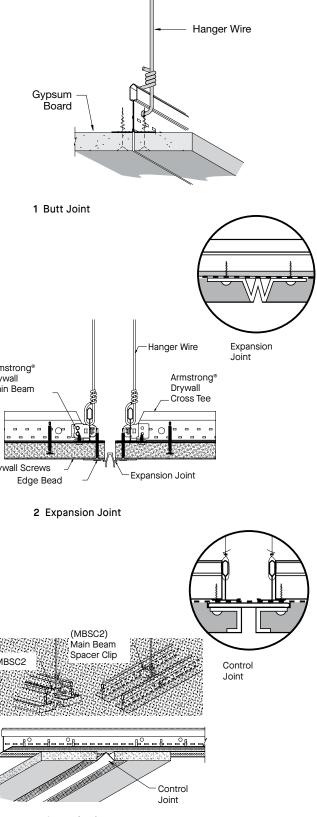
When installing Type F fixtures parallel to the main beams, use a 48" cross tee for easy placement of fixtures without field modifications. When installing fixtures perpendicular to the main beams, use 72" cross tees for virtually limitless fixture placement.





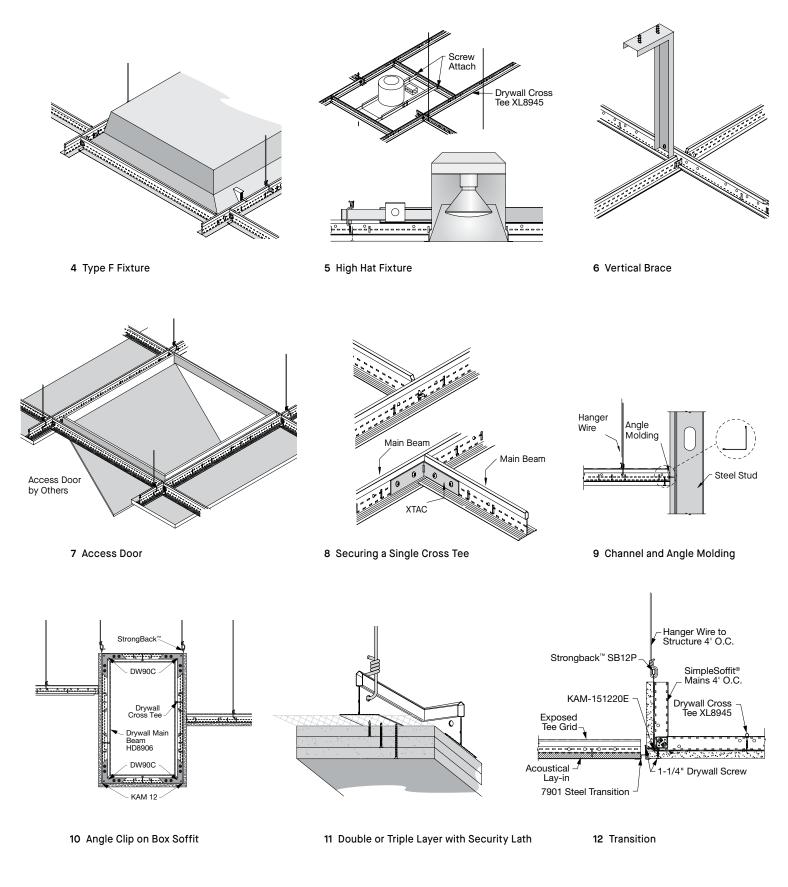
SUSPENDED DRYWALL GRID SYSTEM DETAILS



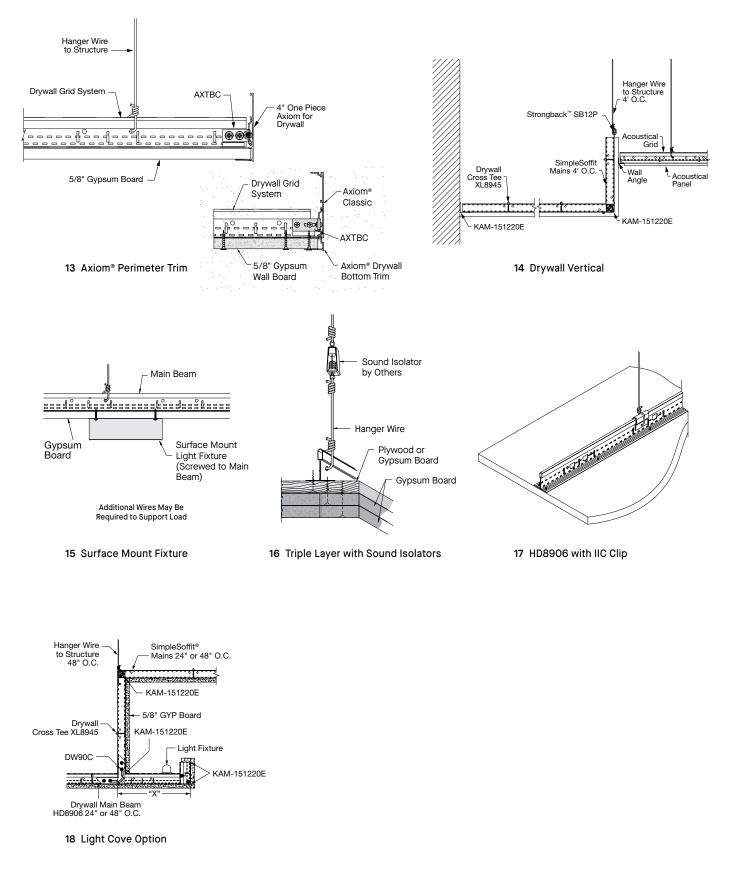


3 Control Joint

SUSPENDED DRYWALL GRID SYSTEM DETAILS



SUSPENDED DRYWALL GRID SYSTEM DETAILS

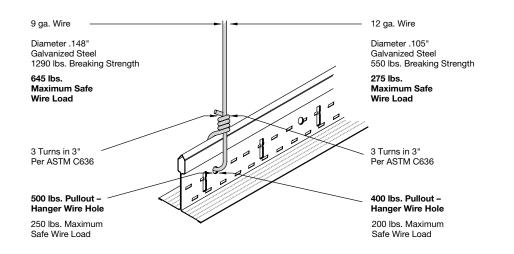


WIRE LOADING

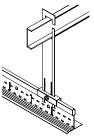
HANGING & FRAMING

9-gauge Wire-Breaking Strength and Technical Data

12-gauge Wire-Breaking Strength and Technical Data



Where Black Iron is a Requirement



NOTE: Screw recommended for all FrameAll and Strongback installations.

BASIC PRODUCTS USED ON SUSPENSION SYSTEMS

| Material | Weight Lbs/SF |
|-----------------------------------|------------------|
| OSB 1/4" | 0.9 |
| 3/8" | 1.3 |
| 1/2" | 1.7 |
| 5/8" | 2.2 |
| 3/4" | 2.5 |
| Plywood 1/4" | .075 |
| 3/8" | 1.1 |
| 1/2" | 1.5 |
| 5/8" | 1.8 |
| 3/4" | 2.2 |
| Gypsum Board 1/4" | 1.2 |
| 3/8" | 1.4 |
| 1/2" | 2.0 |
| 5/8" | 2.4 |
| 3/4" | 4.2 |
| Cement Board 1/2"* | 3.0 |
| Cement Siding 5/8"* | 1.9 |
| Hard Board Siding 1/2" | 2.0 |
| Water-Resistant Gypsum Board 5/8" | 3.42 |
| Water-Resistant Gypsum Board 1/2" | 2.8 |
| Expanded Steel Lath | 3.4 |
| 12-gauge Sheet Steel | 4.5 |

NOTES: All framing on the exterior should be 16" O.C. or less. Some manufacturers make 1/2" gypsum board with special core to span 24" framing on interior ceiling

installations (available on request). All steel product on exterior made from G90 galvanized finish. * Use lower RPM (1,000-2,500) screw gun to install cement board screws with intermittent pressure.

TRAPEZE SUPPORTED LOADS

HANGING & FRAMING

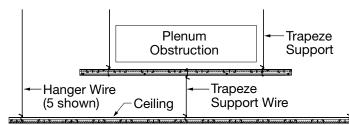
Trapeze load support solutions offer calculated and resourceful solutions for supporting hanger wires under plenum obstructions using scrap material contractors already have on their jobsite.

| Table A | | | Trapeze Span (ft.) | | |
|--|----|--------|--------------------------|---------|----|
| SINGLE MEMBER PLENUM TRAPEZE | 4' | 5' | 6' | 7' | 8' |
| Acoustical Grid | | Allowa | ble Midspan Point Loa | d (lb.) | |
| 730145 – Prelude® Max Main Beam (Fig. 2) | 80 | 50 | 30 | 20 | - |
| HD* Main Beam – 7300, 7500, 7600, 6100 (Fig. 3) | 32 | 20 | - | - | - |
| ID* Main Beam – 7301, 7501, 7601, 6101 (Fig. 3) | 24 | - | - | - | - |
| | | D | rywall Grid (See Fig. 3) |) | |
| S7708 – ShortSpan® | 44 | 28 | - | - | - |
| HD8906 – Main Beam | 36 | 23 | - | - | - |
| XL8965 – Cross Tee | 28 | - | - | - | - |
| Table B | | | Trapeze Span (ft.) | | |
| NESTED COMPOSITE MEMBERS; SCREW ATTACHED | 4' | 5' | 6' | 7' | 8' |

| | | | 1 1 1 1 | | |
|--|----|------|--------------------|-------|----|
| NESTED COMPOSITE MEMBERS; SCREW ATTACHED | 4' | 5' | 6' | 7' | 8' |
| Drywall Grid System Nested (Fig. 4) | | Allo | wable Midspan Load | (lb.) | |
| HD8906 – Main Beam | - | - | 51 | 37 | 28 |
| S7708 – ShortSpan | - | - | 61 | 44 | 34 |

* Duty classification determined by performance and testing specifications of ASTM C635.

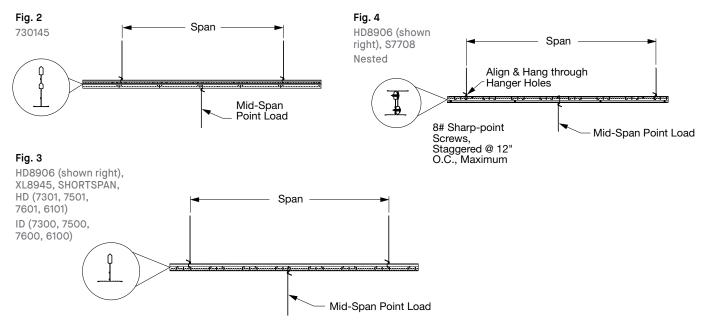
Fig. 1



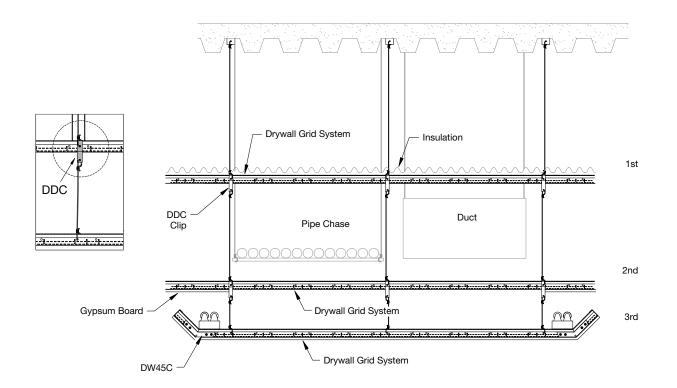
NOTE: Referencing Table A, a 4 ft. span of 7301 Main Beam used as a "Trapeze Support" can carry a mid-span point load of 32 lbs. If the "Trapeze Support Wire" (Fig. 1) is supporting a ceiling area of 16 sq-ft. (4-ft. main spacing × 4-ft. hanger wire spacing), the maximum allowable uniform weight of the ceiling is 2 lb./sq-ft. (32 lb. ÷ 16 sq-ft. = 2 lb./sq-ft.)

SINGLE MEMBER TRAPEZING:

NESTED/COMPOSITE MEMBER TRAPEZING:



A suspended ceiling not only carries the load of the applied finish, but can also act as a load-carrying structure or membrane that supports another ceiling at a lower level. The DDC clip is used at hanger wire locations to allow for connecting the second and even third ceiling. This method of hanging and framing is used in multi-layer ceilings with long vertical drops – eliminating the use of long stud drops.



EXTERIOR WIND LOAD CEILING DESIGN FOR NORTH AMERICA

| Plenum Height (FtIn.) | Design Wind Velocity (MPH) | Design Wind Pressure (PSF) | Compression Post Size (Inch) | Compression Post Gauge (Ga. No.) | Sheathing Membrane Substrate 5/8" Drywall Sheet DensGlass Gold® GP | Compression Post Spacing (FtIn.) | Main Beam Spacing (Inch) | Cross Tee Spacing (Inch) | Hanger Wire Spacing (FtIn.) | Tee | Compression Post Load Design Load (Lbs.) |
|-----------------------------|-------------------------------------|-------------------------------------|---------------------------------------|---|---|---|-----------------------------------|-----------------------------------|--------------------------------------|-----|---|
| | 15 | 0.507 | 2-1/2" CWN | 20 | 5/8" DensGlass GP & 1/4"-3/8" EIFS* | 4'-2" | 48" | 16" | 4' | 4' | 18 |
| | 30 | 2.03 | 2-1/2" CWN | 20 | 5/8" DensGlass GP & 1/4"-3/8" EIFS | 4'-2" | 48" | 16" | 4' | 4' | 49 |
| | 45 | 4.56 | 2-1/2" CWN | 20 | 5/8" DensGlass GP & 1/4"-3/8" EIFS | 3'-6" | 48" | 16" | 4' | 4' | 96 |
| 0'-0" | 60 | 8.1 | 2-1/2" CWN | 20 | 5/8" DensGlass GP & 1/4"-3/8" EIFS | 3'-6" | 36" | 16" | 4' | 3' | 125 |
| | 90 | 18.24 | 2-1/2" CWN | 20 | 5/8" DensGlass GP & 1/4"-3/8" EIFS | 2'-9" | 36" | 16" | 3' | 3' | 229 |
| ∀ 6'-0"† | 120 | 32.43 | 2-1/2" CWN | 20 | 5/8" DensGlass GP & 1/4"-3/8" EIFS | 2'-8" | 24" | 16" | 2'-6" | 2' | 266 |
| | 140 | 44.14 | 2-1/2" CWN | 18 | 5/8" DensGlass GP & 1/4"-3/8" EIFS | 2'-4" | 24" | 16" | 2'-6" | 2' | 331 |
| | 172 | 75 | 2-1/2" CSJ | 18 | See NOA 15-0127.04 Design | | | | | | |
| | 172 | 75 | 2-1/2" CSJ | 18 | See NOA 14-1204.05 Design | | | | | | |
| | 15 | 0.507 | 2-1/2" CSJ | 18 | 5/8" DensGlass GP & 1/4"-3/8" EIFS | 4'-2" | 48" | 16" | 4' | 4' | 18 |
| | 30 | 2.03 | 2-1/2" CSJ | 18 | 5/8" DensGlass GP & 1/4"-3/8" EIFS | 3'-10" | 48" | 16" | 4' | 4' | 49 |
| | 45 | 4.56 | 2-1/2" CSJ | 18 | 5/8" DensGlass GP & 1/4"-3/8" EIFS | 3'-6" | 48" | 16" | 4' | 4' | 96 |
| 6'-1" | 60 | 8.1 | 2-1/2" CSJ | 18 | 5/8" DensGlass GP & 1/4"-3/8" EIFS | 3'-6" | 36" | 16" | 4' | 3' | 125 |
| | 90 | 18.24 | 2-1/2" CSJ | 18 | 5/8" DensGlass GP & 1/4"-3/8" EIFS | 3'-4" | 36" | 16" | 3' | 2' | 178 |
| ♥ 10'-3" ^{††} | 120 | 32.43 | 2-1/2" CSJ | 18 | 5/8" DensGlass GP & 1/4"-3/8" EIFS | 2'-8" | 24" | 16" | 2'-6" | 2' | 266 |
| | 140 | 44.14 | 2-1/2" CSJ | 18 | 5/8" DensGlass GP & 1/4"-3/8" EIFS | 2'-4" | 24" | 16" | 2'-6" | 2' | 331 |
| | 172 | 75 | 2-1/2" CSJ | 18 | See NOA 15-0127.04 Design | 2' | 24" | 16" | 2' | 2' | 445 |
| | 172 | 75 | 2-1/2" CSJ | 18 | See NOA 14-1204.05 Design | 2'-6" | 36" | 16" | 2'-6" | 3' | 565 |
| | *15 | 0.507 | 2-1/2" CSJ | 18 | 5/8" DensGlass GP & 1/4"-3/8" EIFS | 4'-2" | 48" | 16" | 4' | 4' | 18 |
| | *30 | 2.03 | 2-1/2" CSJ | 18 | 5/8" DensGlass GP & 1/4"-3/8" EIFS | 3'-10" | 48" | 16" | 4' | 4' | 49 |
| | *45 | 4.56 | 2-1/2" CSJ | 18 | 5/8" DensGlass GP & 1/4"-3/8" EIFS | 3'-6" | 48" | 16" | 4' | 4' | 96 |
| 10'-4" | *60 | 8.1 | 2-1/2" CSJ | 18 | 5/8" DensGlass GP & 1/4"-3/8" EIFS | 3'-6" | 36" | 16" | 4' | 3' | 125 |
| | *90 | 18.24 | 2-1/2" CSJ | 18 | 5/8" DensGlass GP & 1/4"-3/8" EIFS | 3'-4" | 36" | 16" | 3' | 2' | 178 |
| ∀ 15'-0"†† | *120 | 32.43 | 2-1/2" CSJ | 18 | 5/8" DensGlass GP & 1/4"-3/8" EIFS | 2'-8" | 24" | 16" | 2'-6" | 2' | 266 |
| | *140 | 44.14 | 2-1/2" CSJ | 18 | 5/8" DensGlass GP & 1/4"-3/8" EIFS | 2'-4" | 24" | 16" | 2'-6" | 2' | 331 |
| | *172 | 75 | 2-1/2" CSJ | 18 | See NOA 15-0127.04 Design | 2' | 24" | 16" | 2' | 2' | 445 |
| | *172 | 75 | 2-1/2" CSJ | 18 | See NOA 14-1204.05 Design | 2'-6" | 36" | 16" | 2'-6" | 3' | 565 |
| | **15 | 0.507 | 3-5/8" CSJ | 18 | 5/8" DensGlass GP & 1/4"-3/8" EIFS | 4'-2" | 48" | 16" | 4' | 4' | 18 |
| | **30 | 2.03 | 3-5/8" CSJ | 18 | 5/8" DensGlass GP & 1/4"-3/8" EIFS | 3'-10" | 48" | 16" | 4' | 4' | 49 |
| | **45 | 4.56 | 3-5/8" CSJ | 18 | 5/8" DensGlass GP & 1/4"-3/8" EIFS | 3'-6" | 48" | 16" | 4' | 4' | 96 |
| 15'-1" | **60 | 8.1 | 3-5/8" CSJ | 18 | 5/8" DensGlass GP & 1/4"-3/8" EIFS | 3'-6" | 36" | 16" | 4' | 3' | 125 |
| | **90 | 18.24 | 3-5/8" CSJ | 18 | 5/8" DensGlass GP & 1/4"-3/8" EIFS | 3'-4" | 36" | 16" | 3' | 2' | 178 |
| ∀ 20'-0"†† | **120 | 32.43 | 3-5/8" CSJ | 18 | 5/8" DensGlass GP & 1/4"-3/8" EIFS | 2'-8" | 24" | 16" | 2'-6" | 2' | 266 |
| | **140 | 44.14 | 3-5/8" CSJ | 18 | 5/8" DensGlass GP & 1/4"-3/8" EIFS | 2'-4" | 24" | 16" | 2'-6" | 2' | 331 |
| | **172 | 75 | 3-5/8" CSJ | 18 | See NOA 15-0127.04 Design | 2' | 24" | 16" | 2' | 2' | 445 |
| | **172 | 75 | 3-5/8" CSJ | 18 | See NOA 14-1204.05 Design | 2'-6" | 36" | 16" | 2'-6" | 3' | 565 |

1-1/2" 16-ga. U-Channel Bridging required at mid span for 124" up to 180"
 1-1/2" 16-ga. U-Channel Bridging required at one-third points for 181" up to 240"
 Compression Post and Ceiling System tested at the plenum design depth shown here for positive and negative wind speed pressure loads as listed
 Compression Post Assemblies at this plenum design depth calculated by Dietrich Design Group
 NOTE: For building heights over 20 feet, refer to ASCE 7-10 Chapter 6 Wind Loads

| Deck Construction Type | UL® Design Number | Concrete Thickness | Panel or Tile Size and Type | Minimum Panel or Tile Thickness | Maximum Fixture Penetration (In2/100 SF) | Maximum Duct Penetration (In2/100 SF) | Suspension Systems |
|---------------------------|----------------------|-----------------------|--|---------------------------------------|--|---|-----------------------|
| CONCRETE FLOOR/CEILIN | GASSEMBLIE | S | | | | | |
| | | | Concrete on Flat Cellular, Fl | luted, or Blend De | ck | | |
| 3-Hour – Exposed Grid | A212 | 2-1/2" | 48" × 48" ; PC 36" × 60" ; PC 30" × 60" ; PC | 5/8" | 25 | 158 | 1, 2 |
| | 2-1/2" | 2-1/2" | 24" × 24" to 30" × 60" ; P 24" × 24" to 36" × 60" or 48" × 48" ; PC | 5/8" (P or PC) | 24 | 576 | 1, 2 |
| 2-Hour – Exposed Grid | D216 | 2-1/2" | 24" × 24" to 30" × 60" ; P 24" × 24" to 36" × 60" or 48" × 48" ; PC | 5/8" (P or PC) | 24 | 576 | 1, 2, 3 |
| | | | Concrete on Ribbed or (| Corrugated Deck | | | |
| 3-Hour – Exposed Grid | G256 | 3-1/2" | 24" × 24" ; P 24" × 48" ; P or PC | 5/8" (P or PC) | 24 | 255 | 1, 2 |
| 2-Hour – Exposed Grid | G256 | 2-1/2" | 24" × 24" ; P 24" × 48" ; P or PC | 5/8" (P or PC) | 24 | 576 | 1, 2, 3 |
| | G258 | 2-1/2" | 24" × 24" ; P 24" × 48" ; P | 5/8" | 24 | 113 | 1, 2 |
| | G214 | 2-3/4" | 24" × 48" ; P 20" × 60" ; P | 5/8" | 17 | 57 | 1, 2 |
| | | | Concrete on Ribbed or (| Corrugated Deck | | | |
| 3-Hour – Exposed Grid | G229 | 3-1/4" | 24" × 48" ; P or PC | 5/8" | 20 | 576 | 1, 2 |
| 2-Hour – Exposed Grid | G022 | 2-1/2" | 12" × 24" ; P | 3/4" | 16 | 57 | 4 |
| 2-Hour – Exposed Grid | G209 | 3" | 24" × 48" ; P or PC | 5/8" | 8 | None | 1, 2 |
| | G244* | 3" | 24" × 24" ; P or PC 24" × 48" ; P or PC 24" × 24" ; P or P | 5/8" | 24* | 576 | 1, 2, 3 |
| | G210 | 2-1/2" | 20" × 60" ; P or PC 24" × 24" ; P | 3/4" | 24 | 113 | 1, 2 |
| | G216 | 2-1/2" | 24" × 48" ; P or PC | 5/8" | 8 | None | 1, 2 |
| | G217 | 2-1/2" | 24" × 24" ; P 24" × 48" ; P or PC 24" × 24" ; P or PC 20" × 60" ; P or PC | 5/8" | 8 | 57 | 1, 2 |
| | G229 | 2-1/2" | 24" × 48" ; P or PC 24" × 24" ; P or PC 20" × 60" ; P or PC | 5/8" | 20 | 576 | 1, 2, 3 |
| | G242 | 2-1/2" | 24" × 48" ; P or PC | 5/8" | 8 | None | 1, 2 |
| 2-Hour – Exposed Grid | G243* | 2-1/2" | 24" × 48"; P 24" × 24"; P 20" × 60"; P | 5/8" | 16 | 576 | 1, 2, 3 |
| | G236 | 2-1/2" | 24" × 48"; P 24" × 24"; P | 5/8" | None | None | 1, 2 |
| | G250 | 2-1/2" | 30" × 60"; P or PC 20" × 60"; P or PC 24" × 48"; P or PC 24" × 24"; P | 5/8" | 20 | 113 | 1, 2 |
| 1-Hour – Exposed Grid | G241 | 2 | 24" × 48" ; P | 5/8" | None | None | 1, 2 |
| WOOD DECK/CEILING ASS | EMBLIES | | 24" × 24" ; P | | | | |
| | | D | ouble-Plywood (or Plywood | l), 2' × 10' Wood Je | oists | | |
| I-Hour – Exposed Grid | L209 | - | 24" × 48"; P | 5/8" | 16 | 110 | 1, 2 |
| | L210 | - | 24" × 48"; P 24" × 24"; P | 5/8" | 24 | 227 | 1, 2, 3 |
| | | | Double-Plywood (or Plywood | 1) 3' x 8' Wood Io | ists | | |
| 1-1/2-Hour – Exposed Grid | L208 | - | 24" × 48"; P or PC 24" × 24"; P | 5/8" | None | None | 1, 2 |

NOTE: Numbers in parentheses are original UL design numbers. Some unit sizes are no longer available as standard items; some designs include additional sizes. * Allows flat-board fixture protection

| Deck Construction Type | UL® Design Number | Concrete Thickness | Panel or Tile Size and Type | Minimum Panel or Tile Thickness | Maximum Fixture Penetration (In2/100 SF) | Maximum Duct Penetration (In2/100 SF) | Suspension Systems |
|----------------------------------|----------------------|--------------------------------|---|--|--|---|-----------------------|
| ROOF/CEILING ASSEMBLI | ES | | | | | | |
| 44/0 + 4 11 | P265*** | | nding Seam Exposed Metal | | 0.4 | 570 | |
| 1-1/2 + 1-Hour – Exposed Grid | P265^^^ | See Design Details | 24" × 48" ; P or PC 24" × 24" ; P or PC | 3/4" (P) 5/8" (PC) | 24 | 576 | 1 |
| | | | lating Concrete on Ribbed o | | k | | |
| 2-Hour – Exposed Grid | P215 | 2" | 24" × 48" ; PC plus 24" × 48" ; Gypsum Board | 5/8" (PC) plus 1/2" Gypsum Board | 16 | 57 | 1, 2 |
| | P219 | 2" | 24" × 48" ; PC plus 24" × 24" ; Gypsum Board | 5/8" (PC) plus 1/2" Gypsum Board | 16 | 57 | 1, 2 |
| | P251 | 2-3/4" Min. to 6-3/4" | 24" × 48" ; P or PC 24" × 24" ; P or PC 20" × 60" ; P or PC | 5/8" (P or PC) | 24 | 576 | 1, 2, 3 |
| 1-1/2 Hour – Exposed Grid | P231 | 3-3/8" | 24" × 48", 24" × 24" ; P | 5/8" | 24 | 255 | 1, 2 |
| 1-Hour – Exposed Grid | P216* | 2" | 24" × 48" ; Gypsum Board 24" × 48" ; P | 5/8" | 16 | 57 | 1, 2 |
| | | - Aineral-Fiber Glass-Fiber | or Composite Roof Insulatio | | - | | ., _ |
| | | Installation Thickness | | | | | |
| 1-1/2 Hour – Exposed Grid | P225 | 1" min. to unlimited max. | 24" × 48" ; P or PC | 5/8" | 24 | 255 | 1, 2 |
| | P227 | 1" min. to unlimited max. | 20" × 60" ; P or PC 24" × 48" ; P or PC | 3/4" (P) | 24 | 255 | 1, 2 |
| | P250*** | 1" min. to unlimited max. | 24" × 48" ; P or PC 24" × 24" ; P or PC | 3/4" (P) 5/8" (PC) | 24 | 113 | 1 |
| 1-Hour – Exposed Grid | P206 | 1" min. and max. | 24" × 48" : P | 5/8" | 16 | 113 | 1, 2 |
| | P210 | 1" min. and max. | 24" × 48" : PC | 5/8" | 16 | 57 | 1, 2 |
| | P211 | 1" min. to 2" max. | 24" × 48" ; PC | 5/8" | 16 | 57 | 1, 2 |
| | | | · · · · · · · · · · · · · · · · · · · | | - | | |
| | P225 | 1" min. to unlimited max. | 24" × 48" ; P or PC 24" × 24" ; P or PC 20" × 60" ; P or PC | 5/8" (PC) | 24 | 576 | 1, 2, 3 |
| | P227 | 1" min. to unlimited max. | 24" × 48" ; P or PC 24" × 24" ; P or PC | 5/8" | 24 | 255 | 1, 2 |
| | P250*** | 1" min. to unlimited max. | 24" × 48" ; P or PC 24" × 24" ; P or PC | 3/4" (P) 5/8" (PC) | 24 | 576 | 1 |
| | | Poured Gyps | um Concrete Over 1/2" Gyps | | | | |
| 1-1/2-Hour – Exposed Grid | P217 | 1-1/2" | 24" × 60" ; P | 5/8" | 16 | 288 | 1, 2 |
| i | | IRMA (| Inverted Roof Membrane As | sembly) | | | |
| 1-Hour – Exposed Grid | R217 (UL Canada) | 2" min. to unlimited max. | 24" × 48" ; P or PC | 5/8" | 24 | 255 | 1, 2 |
| FLOOR/CEILING DRYWAL | LASSEMBLI | ES | | | | | |
| | | | omposite Flat Cellular, Flute | | | | |
| 2-Hour | D501 | 2-1/2" | 1 | 5/8" | None | None | DFR8000 DFR8000SS |
| | D502** | 2-1/2" | 1 | 5/8" | 24 | 144 | DFR8000 DFR8000SS |
| | | Concrete on Co | omposite Flat Cellular, Flute | d, or Blend Deck | | | |
| 3-Hour | G523 | 3" | 1 | 5/8" | 24 | 144 | DFR8000 |
| | G524 | 3-1/2" | 1 | 1/2" | None | 113 | DFR8000 |
| | G529 | 3-1/4" | 1 | 1/2" | 24 | 57 | DFR8000 |
| | G529 | 3-3/4" | 1 | 5/8" | 24 | 57 | DFR8000 |
| | G561 | 2-1/2" | - | - | 144 | 144 | DFR8000 |
| 2-Hour | G523 | 2-1/2" | 1 | 1/2" | 24 | 144 | DFR8000 DFR8000SS |
| | G524 | 2-1/2" | 1 | 1/2" | None | 113 | DFR8000 DFR8000SS |
| | G526 | 2-1/2" | 1 | 1/2" | 25 | 56.5 | DFR8000 DFR8000SS |
| | G527 | 2-1/2" | 1 | 1/2" | None | None | DFR8000 DFR8000SS |
| | G527 | 2-1/2" | 1 | 1/2" | 24 | 57 | DFR8000 DFR8000SS |
| | G561 | 2-1/2" | 1 | 1/2" | 144 | 144 | DFR8000 |
| 11/2-Hour | G527 | 2-1/2" | 1 | 1/2" | None | None | DFR8000 |
| 1 Hour | G561 | 2-1/2" | - | - | 144 | 144 | DFR8000 DFR8000SS |
| | | | Concrete on Steel Deck | | | | D1 1000000 |
| 2-Hour | G-553 | 1" | 1 | 5/8" | None | None | DFR8000 |
| E noui | | | | | | | |

* Allows flat-board fixture protection.

*** Square-edge ceiling panels only.

| Deck Construction Type | UL® Design Number | Thickness | Panel or Tile Size and Type | Minimum Panel or Tile Thickness | Maximum Fixture Penetration (In2/100 SF) | Maximum Duct Penetration (In2/100 SF) | Suspension Systems |
|----------------------------|----------------------|-------------|-----------------------------------|------------------------------------|---|--|-----------------------|
| FLOOR/CEILING DRY | WALLASSEM | IBLIES (CUI | 11) | Concrete on Comp | osite Steel Joist | | |
| 2-Hour | G-531 | 3" | 1 | 5/8" | 144 | 20 | DFR8000 |
| 1-1/2-Hour | G-531 | 3" | 1 | 5/8" | 144 | 20 | DFR8000SS DFR8000 |
| 1-Hour | G-531 | 3" | 1 | 5/8" | 144 | 20 | DFR8000SS DFR8000 |
| | | | | ClarkDietrich® C-C | Phannel System | | DFR8000SS |
| 2-Hour | G-553 | 1" | 1 | 5/8" | None | None | DFR8000 DFR8000SS |
| | G-560 | 1" | 1 | 5/8" | None | None | DFR8000 |
| | G-566 | 2" | 1 | 5/8" | None | None | DFR8000 DFR8000SS |
| | G-579 | 1" | 1 | 5/8" | None | None | DFR8000 DFR8000SS |
| | G-594 | 1" | 1 | 5/8" | None | None | DFR8000 |
| 1-Hour | G-553 | 1" | 1 | 5/8" | None | None | DFR8000 |
| | | | | | | | DFR8000SS |
| | G-560 | 1" | 1 | 5/8" | None | None | DFR8000 |
| | G-566 | 2" | 1 | 5/8" | None | None | DFR8000 |
| | G-579 | 1" | 1 | 5/8" | None | None | DFR8000SS DFR8000 |
| | G-591 | 1" | 1 | 5/8" | None | None | DFR8000SS DFR8000 |
| | | | C | oncrete on Steel De | ck and Steel Joists | | |
| 3-Hour | G-561 | 2-1/2" | 1 | 5/8" | 144 | 144 | DFR8000 |
| 2-Hour | G-561 | 2-1/2" | 1 | 5/8" | 144 | 144 | DFR8000 |
| 1-1/2-Hour | G-561 | 2-1/2" | 1 | 5/8" | 144 | 144 | DFR8000 |
| 1-Hour | G-561 | 2-1/2" | 1 | 5/8" | 144 | 144 | DFR8000 |
| WOOD DECK/CEILIN 1-Hour | L502 | - | 1 | 1/2" | None | None | DFR8000 |
| | L513 | - | 1 | 5/8" | None | None | DFR8000SS DFR8000 |
| | L515 | - | 1 | 1/2" | None | None | DFR8000SS DFR8000 |
| | L525 | - | 1 | 1/2" | 24 | 57 | DFR8000SS DFR8000 |
| | L526* | - | 1 | 5/8" | 24 | 144 | DFR8000SS DFR8000 |
| | | | Dha | rood (2) 2' × 10' or (1 | I) 4' × 10' Wood Joists | | DFR8000SS |
| 1-Hour | L508 | _ | Plyv | 5/8" | None | None | DFR8000 |
| I-Houi | 1300 | | | 5/6 | None | NOTE | DFR8000SS |
| | | | | Plywood with W | | | |
| 1-Hour | L529 | - | | 5/8" | 24 | 57 | DFR8000 DFR8000SS |
| | | | Struc | tual Cement – Fiber | Units Over Steel Joists | | DIROCCOSS |
| 1-Hour | L-564 | 3/4" | 1 | 5/8" | 144 | 144 | DFR8000 DFR8000SS |
| ROOF/CEILING DRYV | VALLASSEME | BLIES | | | | | |
| | | | • | • | al Roof with Batts/Blankets | | |
| 1-Hour | P516 | - | 2 | 5/8" | None | None | DFR8000 |
| 2-Hour | P514 | - | Mineral Fibe | r Foam on Cellular, F 5/8" | iluted, Corrugated Metal Deck 24 | 255 | DFR8000 |
| 1-1/2-Hour | P507 | - | 1 | 5/8" | 24 | 57 | DFR8000SS DFR8000 |
| | P510 | - | 1 | 5/8" | 24 | 57 | DFR8000SS DFR8000 |
| | P513* | _ | 1 | 5/8" | 24 | 144 | DFR8000SS DFR8000 |
| 1-Hour | P508* | _ | 1 | 5/8" | 24 | 144 | DFR8000SS DFR8000 |
| | P509* | _ | 1 | 5/8" | 24 | 144 | DFR8000SS DFR8000 |
| | | | | | | | DFR8000SS |
| | P510 | - | 1 | 1/2" | 24 | 57 | DFR8000 DFR8000SS |
| | | | | lineral Fiber/Lamina | /1 | | |
| 1-1/2-Hour | P506 | 2" | 1 | 5/8" | 24 | 57 | DFR8000 DFR8000SS |

NOTE: Numbers in parentheses are original UL design numbers. Some unit sizes are no longer available as standard items; some designs include additional sizes.

* Optional acoustical tile may be glue-applied to gypsum board. ÝFR8000 – UL designation, Fire Guard[®] Drywall Grid System including HD8906, HD8906llC and Cross tees XL7914, XL8926, XL 8925, XL8945P, XL8947P and XL8965ÝFR8000SS – UL designation, Fire Guard[®] ShortSpan[®] Drywall Grid System 25

UL[®] FIRE RESISTIVE

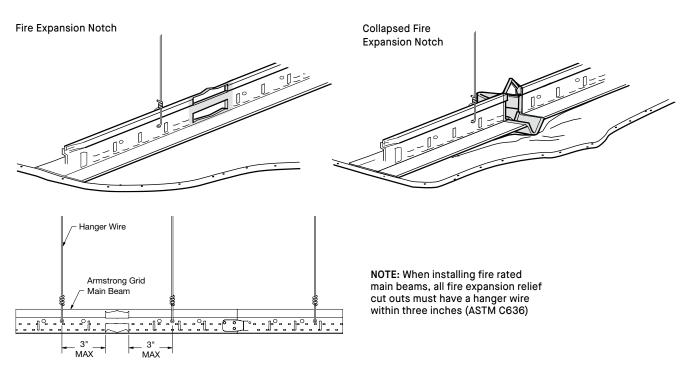
HANGING & FRAMING

| Deck Construction Type | UL® Design Number | Concrete Thickness | # Drywall Layers | Minimum Drywall Thickness | Maximum Fixture Penetration (Ft2/100 Ft2) | Maximum Duct Penetration (In2/100 Ft2) | Drywall Grid System |
|------------------------------|----------------------|----------------------------|--|------------------------------|--|--|------------------------|
| CLARKDEITRICK [®] T | RADEREADY® | FLOOR SYSTI | EM/CEILING I | DRYWALL ASSEMBLI | ES | | |
| 1-Hour | L564 | 3/4" Cement Fiber Units | 1 | 5/8" | None | None | DFR 8000 |
| 1-Hour Corrugated Decking | G553 | 3/4" | 1 | 5/8" | None | None | DFR 8000 |
| ROOF/CEILING DRY | WALL ASSEM | BLIES | | | | | |
| | | | Standing S | Seam Exposed Metal F | Roof With Batts/Blankets | | |
| 1-Hour | P516 | - | 2 | 5/8" | None | None | DFR 8000 |
| | | | Mineral Fiber | , Foam on Cellular, Flu | ted, Corrugated Metal Deck | | |
| | P501 | - | 1 | 5/8" | None | None | DFR 8000 |
| 2-Hour | P514 | - | 1 | 5/8" | 24 | 255 | DFR 8000 |
| | P507 | - | 1 | 5/8" | 24 | 57 | DFR 8000 |
| | P510 | - | 1 | 5/8" | 24 | 57 | DFR 8000 |
| 1-1/2-Hour | P513* | - | 1 | 5/8" | 24 | 144 | DFR 8000 |
| | P508* | - | 1 | 5/8" | 24 | 144 | DFR 8000 |
| | P509* | - | 1 | 5/8" | 24 | 144 | DFR 8000 |
| 1-Hour | P510 | - | 1 | 1/2" | 24 | 57 | DFR 8000 |
| | | | М | ineral Fiber/Laminated | d Gypsum Planks | | |
| 1-1/2-Hour | P506 | - | 1 | 5/8" | 24 | 57 | DFR 8000 |

* Optional acoustical tile may be glue-applied to gypsum board.

Armstrong® Drywall "Design To Fit" Items XL7936G90 and XL8965 cannot be used as part of a UL Fire Resistive Design. DFR 8000 – UL Designation, Fire Guard™ Drywall Grid System. For fire-rated assemblies, use Type C gypsum board as noted in the UL fire-rated assembly designs.

FIRE RATED EXPANSION JOINT



SEISMIC INSTALLATIONS

Scope: ASTM C-1858

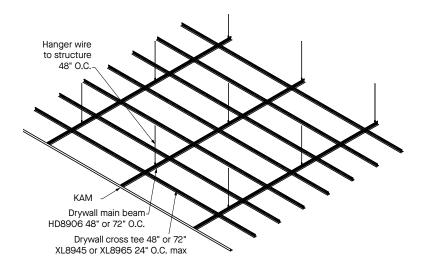
This recommendation applies to the installation requirements of direct-hung Armstrong[®] Drywall Grid ceiling systems, receiving flat, single-level gypsum panel products surrounded on all sides by a wall, bulkhead, or soffit braced to the building structure to resist the effects of earthquake ground motions.

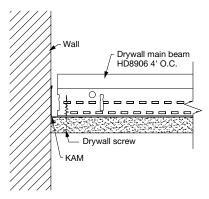
| DGS Seismic Installation Components/Conditions | Category A, B | Category C | Category D, E, & F |
|---|--|--|---|
| Hanger wire | 12 ga. | 12 ga. | 12 ga. |
| Hanger wire spacing on main beams | 48" O.C. | 48" O.C. | 48" O.C. |
| Hanger wire plumb | 1' in 6', or add counter splayed wire | 1' in 6', or add counter splayed wire | 1' or 6' or add counter splayed wire |
| Vertical hanger wires on main beams at perimeter wall | No more than 24" | No more than 24" | No more than 24" |
| Hanger wire wraps | 3 within 3" | 3 within 3" | 3 within 3" |
| Substitute hanger wire for galvanized sheet metal or clips designed for hanging | Allowed | Allowed | Allowed |
| Terminal grid ends screwed to wall angle/channel | Required | Required | Required |
| Seismic separation joints | Not required | Not required | Not required |
| Perimeter wires on tees within 8" of wall angle | Not required | Not required | Not required |
| Minimum spacing between main beam/tee ends and wall molding | Not required | Not required | Not required |
| Spacing Bars/BERC clips on perimeter tees/main beams | Not required | Not required | Not required |
| Armstrong KAM/LAM face widths | 1-1/4" Minimum | 1-1/4" Minimum | 1-1/4" Minimum |
| Seismic restraint splay wire pods or rigid bracing | Not required | Not required | Not required |
| Compression posts | Not required | Not required | Not required |

Control Joint Notes:

General industry guidance to reduce cracking of drywall

| Interior ceiling applications | Maximum dimension in any direction | Maximum square feet | | |
|-------------------------------|-------------------------------------|-------------------------------------|--|--|
| With perimeter relief | 50 LF | 2,500 SF | | |
| Without perimeter relief | 30 LF | 900 SF | | |
| Exterior ceiling applications | 30 LF | 900 SF | | |
| Drywall control joints | As required by drywall manufacturer | As required by drywall manufacturer | | |





MAIN BEAM - TECHNICAL LOAD TEST DATA

Imperial

| | | | | | | Simple Sp | an (Lbs/LF) | | |
|-----------|-----------------------|--------------|---------------------|-------|-------|-----------|-------------|-------|-------|
| Item No. | Flange Width (in.) | Length (in.) | Web Height (in.) | 4 | 8" | 3 | 6" | 2 | 4" |
| | | | | L/240 | L/360 | L/240 | L/360 | L/240 | L/360 |
| HD8906 | 1-1/2" | 144" | 1-11/16" | 28.14 | 18.66 | 57.3 | 43.19 | 143.0 | 95.5 |
| HD8906IIC | 1-1/2" | 144" | 1-11/16" | 28.14 | 18.66 | 57.3 | 43.19 | 143.0 | 95.5 |
| HD890610 | 1-1/2" | 120" | 1-11/16" | 28.14 | 18.66 | 57.3 | 43.19 | 143.0 | 95.5 |
| SSLU2424 | 1-1/2" | 48" | 1-1/4" | 20.46 | | | | | |
| SSLU4824 | 1-1/2" | 72" | 1-1/4" | 20.46 | | | | | |
| SSLU3636 | 1-1/2" | 72" | 1-1/4" | 20.46 | | | | | |
| SSLD2424 | 1-1/2" | 48" | 1-1/4" | 20.46 | | | | | |

Metric

| | Flange | | Web | Simple Span (KG/LM) | | | | | | | | |
|----------|--------|--------|--------|---------------------|-------|----------|--------|----------------|--------|--|--|--|
| Item No. | Width | Length | Height | 48" (1219.20mm) | | 36" (914 | .40mm) | 24" (609.60mm) | | | | |
| | | | | L/240 | L/360 | L/240 | L/360 | L/240 | L/360 | | | |
| HD7940 | 38mm | 3600mm | 43mm | 41.65 | 27.77 | 96.41 | 64.27 | 213.2 | 142.12 | | | |
| 7940G | 38mm | 3600mm | 38mm | 31.85 | 21.24 | 73.57 | 49.05 | 153.8 | 102.52 | | | |

CROSS TEES - TECHNICAL LOAD TEST DATA

Imperial

| | Flange | Length | Web | Simple Span (Lbs./LF) | | | | | | | | | |
|-----------|-------------|--------|--------------|-----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Item No. | Width (in.) | (in.) | Height (in.) | 72" | | 50" | | 48" | | 36" | | 24" | |
| | | | | L/240 | L/360 | L/240 | L/360 | L/240 | L/360 | L/240 | L/360 | L/240 | L/360 |
| XL8965 | 1-1/2" | 72" | 1-1/2" | 6.87 | 4.58 | | | | | | | | |
| XL8947P | 1-1/2" | 50" | 1-1/2" | | | 19.5 | 12.79 | | | | | | |
| XL8945P | 1-1/2" | 48" | 1-1/2" | | | | | 22.5 | 14.27 | | | | |
| XL7936G90 | 1-1/2" | 36" | 1-1/2" | | | | | | | 50.0 | 31.3 | | |
| XL8926 | 1-1/2" | 24" | 1-1/2" | | | | | | | | | 158.0 | 90.25 |

Metric

| | Flange | 10 | Web | Simple Span (KG/LM) | | | | | | | | |
|----------|--------|--------|--------|---------------------|--------|-------|--------|-------|-------|--------|--------|--|
| Item No. | Width | Length | Height | 160 | 1600mm | | 1200mm | | 900mm | | Omm | |
| | | | | L/240 | L/360 | L/240 | L/360 | L/240 | L/360 | L/240 | L/360 | |
| XL7961 | 38mm | 1600mm | 38mm | 10.22 | 6.82 | | | | | | | |
| XL7930 | 38mm | 1200mm | 38mm | | | 33.48 | 21.24 | | | | | |
| XL7925 | 38mm | 900mm | 38mm | | | | | 68.01 | 46.62 | | | |
| XL7920 | 38mm | 600mm | 38mm | | | | | | | 177.15 | 134.31 | |

MEMBRANE LOAD VALUES

Imperial

| | Maximum Load in Lbs/SF2 at Hanger Wire/Cross Tee Spacing | | | | | | | | |
|------------------------|--|-------|-------|-------|---------|-------|--|--|--|
| Component Combinations | 48, | / 24 | 48 | / 16 | 36 / 16 | | | | |
| Main Cross Tee | L/240 | L/360 | L/240 | L/360 | L/240 | L/360 | | | |
| HD8906 – XL8965 | 3.20 | | 4.66 | 3.16 | 4.81 | 3.44 | | | |
| HD8906 – XL8947P | 6.78 | 4.52 | 6.78 | 4.52 | 13.41 | 8.95 | | | |
| HD8906 – XL8945P | 7.03 | 4.69 | 7.03 | 4.69 | 14.93 | 9.95 | | | |
| HD8906 – XL7936G90 | 9.34 | 6.31 | 9.34 | 6.31 | 21.77 | 14.51 | | | |
| HD8906 – XL8926 | 14.02 | 9.47 | 14.02 | 9.47 | 26.13 | 21.77 | | | |

Metric

| | Maximum Load in kg/lm2 at Hanger Wire/Cross Tee Spacing | | | | | | | | |
|------------------------|---|-------|--------|---------|---------------|--------|--|--|--|
| Component Combinations | 1200mm / | 600mm | 1200mm | / 300mm | 900mm / 300mm | | | | |
| Main Cross Tee | L/240 | L/360 | L/240 | L/360 | L/240 | L/360 | | | |
| HD7940 – XL7961 | 24.51 | | 26.27 | | | | | | |
| HD7940 – XL7930 | 36.37 | 24.22 | 36.37 | 24.22 | 78.12 | 56.20 | | | |
| HD7940 – XL7925 | | | | | 112.59 | 75.04 | | | |
| HD7940 – XL7920 | | | | | 168.59 | 112.39 | | | |
| 7940G – XL7961 | 20.07 | | 20.07 | | | | | | |
| 7940G – XL7930 | 27.78 | 18.50 | 27.78 | 18.50 | 64.35 | 42.87 | | | |
| 7940G – XL7925 | | | | | 85.93 | 57.27 | | | |
| 7940G – XL7920 | | | | | 128.70 | 85.78 | | | |

The International Building Code (Section 1206) provides guidelines to ensure that construction meets suitable sound isolation performance. These guidelines are used for commercial and multiple-family buildings such as: offices, apartments, hospitals, dormitories, schools, hotels, condominiums, and mixed-use buildings.

The IBC uses two sound classes to make sure these guidelines are met: Sound Transmission Class (STC) – sound transmitted through the air such as voices and music and Impact Insulation Class (IIC) – sound transmitted through the building structure such as foot traffic and objects dropped on the floor.

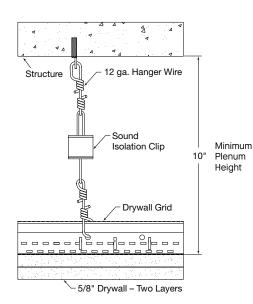
A rating of 50 or above for both STC and IIC sound tests will satisfy the IBC's minimum requirements, with one or two layers of drywall using Armstrong[®] Drywall Grid.

| | Understanding Sound Control Ratings | | |
|-----------------|---|----------------------------|-------------------------|
| STC/IIC Ratings | Description | Changes in STC/IIC Ratings | Description |
| 60 | Superior soundproofing | + / - 1 | Almost perceptible |
| 55 | Excellent | + / - 3 | Just perceptible |
| 50 | Loud speech barely audible | + / - 5 | Clearly Perceptible |
| 45 | Some loud speech audible – not understood | + / - 10 | Twice (or half) as loud |
| 30 | Loud speech audible - well understood | | |
| 25 | Regular speech audible and understood through walls | | |

WHY CHOOSE ARMSTRONG® DRYWALL GRID SOUND ISOLATION SOLUTIONS?

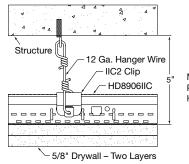
- Easier to detail, specify, and 50% faster to build than traditional stud and track
- Armstrong Drywall Grid-tested assemblies provide proven results and piece of mind

TRADITIONAL METHOD



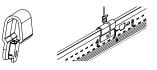
ARMSTRONG SOLUTION

IIC Solution

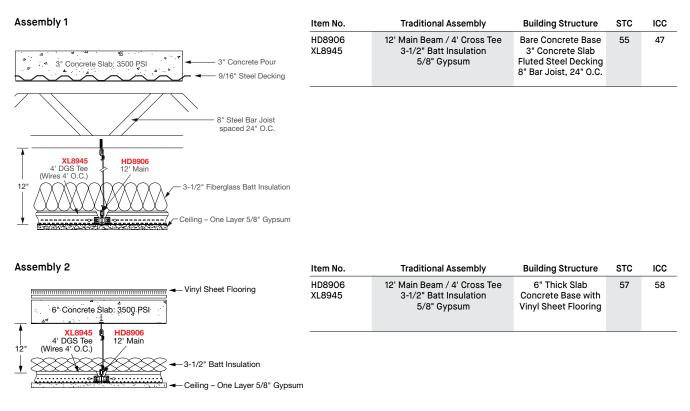


Minimum Plenum Height

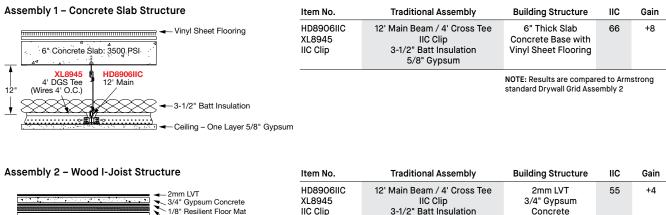
IIC isolator shown with the HD806IIC main



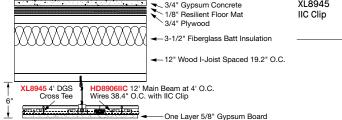
ARMSTRONG STANDARD DRYWALL GRID ASSEMBLIES - ONE LAYER OF DRYWALL



ARMSTRONG IIC SOLUTION ASSEMBLIES - ONE LAYER OF DRYWALL



5/8" Gypsum



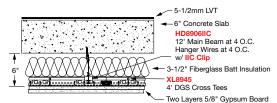
NOTE: Results are compared to RC – Deluxe

12" Wood I-Joist

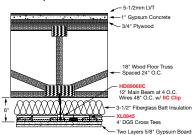
ARMSTRONG IIC SOLUTION ASSEMBLIES - ONE LAYER OF DRYWALL (...CONT.)

Assembly 3 – Wood Floor Truss Structure 4mm LVT 1-1/2° (Sysum Concrete 1-1/

Assembly 1 – Concrete Slab Structure



Assembly 2 – Wood Floor Truss Structure



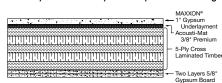
| Item No. | Traditional Assembly | Building Structure | IIC | Gain |
|-----------|----------------------------|--------------------|-----|------|
| HD8906IIC | 144" Main Beam / 48" Cross | 4mm LVT | 60 | +4 |
| XL8945P | Tee | 1-1/2" Gypsum | | |
| IIC Clip | IIC Clip | Concrete | | |
| · | 3-1/2" Batt Insulation | 16" Wood Floor | | |
| | 5/8" Gypsum | Truss | | |

ARMSTRONG IIC SOLUTION ASSEMBLIES – TWO LAYERS OF DRYWALL

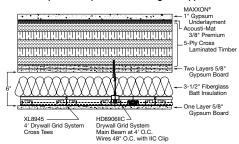
| Item No. | Traditional Assembly | Building Structure | IIC | Gain |
|---------------------------------|---|---|-----|------|
| HD8906IIC XL8945 IIC Clip | 144" Main Beam / 48" Cross Tee IIC Clip 3-1/2" Batt Insulation 2 – Layers 5/8" Gypsum | 5-1/2mm LVT 6" Thick Slab Concrete Base | 61 | 62 |
| Item No. | Traditional Assembly | Building Structure | IIC | Gain |
| HD8906IIC XL8945 IIC Clip | 144" Main Beam / 48" Cross Tee IIC Clip 3-1/2" Batt Insulation | 5-1/2mm LVT 1" Gypsum Concrete 3/4" Plywood 18" Wood Floor | 61 | 58 |

ARMSTRONG IIC SOLUTION ASSEMBLIES - MASS TIMBER CONSTRUCTION

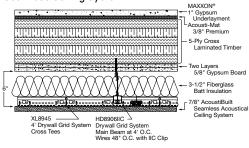
Assembly 1 - Assembly No Suspended Ceiling



Assembly 2 - Suspended Ceiling w/ Gypsum Board



Assembly 3 – Suspended Ceiling w/ AcoustiBuilt® Seamless Ceiling System



| tem No. Traditional Assembly | | Building Structure | lic | Gain | |
|------------------------------|------------------------|---|-----|------|--|
| - | 2 – Layers 5/8" Gypsum | 1" Gypsum Underlayment Acousti-Mat 3/8" Premium 5-Ply Cross Laminated Timber | 52 | 46 | |

| Item No. | Traditional Assembly | Building Structure | IIC | Gain |
|---------------------------------|--|---|-----|------|
| HD8906IIC XL8945 IIC Clip | 144" Main Beam / 48" Cross Tee IIC Clip 1 – Layer 5/8" Gypsum 3-1/2" Batt Insulation 2 – Layers 5/8" Gypsum | 1" Gypsum Underlayment Acousti-Mat 3/8" Premium 5-Ply Cross Laminated Timber | 63 | 60 |

| Item No. | Traditional Assembly | Building Structure | IIC | Gain |
|---------------------------------|--|---|-----|------|
| HD8906IIC XL8945 IIC Clip | 144" Main Beam / 48" Cross Tee IIC Clip 3/4" AcoustiBuilt Ceiling System 3-1/2" Batt Insulation 2 – Layers 5/8" Gypsum | 1" Gypsum Underlayment Acousti-Mat 3/8" Premium 5-Ply Cross Laminated Timber | 63 | 59 |

ESTIMATING MATERIAL

| | | Pcs/Ctn | LF/Ctn | - Lbs/Ctn | Area of ceiling completed by one carton (SF) | | | | | | |
|-----------------------------------|--------|---------|--------|--------------|--|--------------------|-------------|-------------|-------------|-------------|-------------|
| Item No. | Length | | | | 8" O.C. | 16" 0.C. | 24" 0.C. | 36" 0.C. | 48" 0.C. | 50" 0.C. | 72" 0.C. |
| DRYWALL GRID MAIN BEAM | | | | | | | | | | | |
| HD8906/HD8906G90/HD8906IIC | 144" | 12 | 144 | 53 | | | 288 | 432 | 576 | 600 | 864 |
| HD8906F08/HD8906F16 | 144" | 12 | 144 | 53 | | Varies with radius | | | | | |
| HD890610 | 120" | 12 | 120 | 49 | | | 288 | 432 | 576 | 600 | 864 |
| DRYWALL GRID 1-1/2" FACE CROSS TE | ES | | | | | | | | | | |
| XL8965 | 72" | 36 | 216 | 78 | 144 | 288 | 432 | | | | |
| XL8947P/XL8947PG90* | 50" | 36 | 150 | 56 | 100 | 200 | 300 | | | | |
| XL8945P/XL8945PG90 | 48" | 36 | 144 | 52 | 96 | 192 | 288 | | | | |
| XL7936G90 | 36" | 36 | 108 | 39 | 72 | 144 | 216 | | | | |
| XL8926/XL8926G90 | 24" | 36 | 72 | 26 | 48 | 115 | 144 | | | | |

* Dimensions are nominal.

| Item No. | Length | Pcs/Ctn. | LF/Ctn. | Lbs./Ctn. |
|-----------------------|--------|----------|---------|-----------|
| REVERSE MOLDINGS | | | | |
| 7857 | 120" | 30 | 360 | 51 |
| 7858 | 120" | 20 | 240 | 67 |
| DRYWALL ANGLE MOLDING | | | | |
| KAM-12 | 144" | 10 | 120 | 16 |
| KAM-10 | 120" | 10 | 100 | 16 |
| LAM-12 | 144" | 20 | 240 | 39 |
| LAM-151220E | 144" | 10 | 120 | 39 |
| SIMPLECURVE® | | | | |
| SC151220EQ | 148" | 10 | 124 | 40 |
| SC151225 | 148" | 10 | 124 | 26 |
| SC21220EQ | 148" | 10 | 124 | 52 |
| SC21225 | 148" | 10 | 124 | 34 |

Example calculation based on 5,100 SF ceiling:

Main beam at 48" O.C. 5,100 SF × .25 = 1,275 LF 1,275 LF ÷ 144 LF/Ctn = 9 cartons needed

Cross tee at 16" O.C. 5,100 SF × .76 = 3,876 LF 3,876 LF ÷ 144 LF/Ctn = 27 cartons needed

O.C. Spacing
of ComponentPercent of
Square Footage8"108%12"100%16"76%

Estimating Lineal Feet of Grid Based on Square Footage of Ceiling

| 20" | 60% |
|-----|-----|
| 24" | 50% |
| 30" | 40% |
| 36" | 33% |
| 48" | 25% |
| 60" | 20% |

NOTES

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NEXT STEPS

877 276-7876

Customer Service Representatives 7:45 a.m. to 5:00 p.m. EST Monday through Friday

TechLine – Technical information, detail drawings, CAD design assistance, installation information, other technical services – 8:00 a.m. to 5:30 p.m. EST, Monday through Friday. FAX 800 572-8324 or EMAIL: techline@armstrongceilings.com

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