

# DRYWALL GRID SOUND ISOLATION SOLUTION – Flat Ceilings

FrameAll™ Drywall Grid

*A FrameAll™ Drywall Grid Solution*

Armstrong® FrameAll™ Drywall Grid is 3x faster than traditional track and channel framing – saving you time and labor.

## KEY SELECTION ATTRIBUTES

- This sound solution is designed to reduce sound transmission in assemblies using Armstrong drywall grid
- HD8906IIC main beam has a special IIC knockout every 8" along the main to accept the Impact Isolation Clips (IIC)
- This IIC solution can provide up to eight points of IIC improvement
- PeakForm® patented 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
- ScrewStop™** reverse hem prevents screw spin off on 1-1/2" wide face
- Knurled Ridges** on cross tees improve screw grab during board application
- Rotary-stitched during manufacture by a patented method for additional torsional strength and extra stability during installation
- HD8906 (HRC) main beams and cross tees with extra routings for Type F light fixtures
- Minimum G40 hot dipped galvanized coating, per ASTM C645
- All drywall components minimum .018" steel thickness; complies with ASTM C645
- Fire Guard™ components meet broad range of UL® design assemblies (XL7936G90 is not fire rated)
- 10-Year Limited System Warranty
- 30-Year Limited Ceiling Systems Warranty

## TYPICAL APPLICATIONS

- Indoor/outdoor applications
- Soffits/special transitions
- High visibility areas
- Combination drywall and acoustical panel or tile ceilings
- Barrel vaults and domes
- Wet installations (stucco/plaster)

## FIRE RESISTANCE RATING

Meets a broad range of UL design assemblies: D501, D502, G523, G524, G526, G527, G528, G529, I504, I512, I518, J502, L502, L508, L513, L515, L525, L526, L529, L564, P501, P506, P507, P508, P509, P510, P513, P514, P516 (XL7936G90 and SP135 are not fire rated).

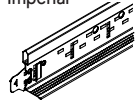
NOTE: See UL Directory for details on specific designs.

## MATERIALS

ASTM C635 Heavy-duty main beam classification, ASTM A653 zinc-coated hot dipped galvanized steel. Exposed surfaces chemically cleansed, zinc-coated, and prefinished. Materials conform to the performance standard ASTM C645 (Standard Specification for Rigid Furring Channels for Screw Applications of Gypsum Board).

## VISUAL SELECTION

	Item No.	Length	Height
Drywall Main Beams – Imperial	<b>HD8906IIC</b>	144"	1-11/16"

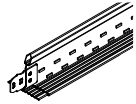


## PACKAGING

Pcs./ Ctn.	LF./ Ctn.
12	144

LOAD TEST DATA (LBS./LF)					
L/240 Simple Span			L/360 Simple Span		
24"	36"	48"	24"	36"	48"
120.0	95.5	28.14	95.5	43.19	18.66

	Item No.	Length	Height
Drywall Cross Tees – Imperial	<b>XL8965</b>	72"	1-1/2"
	<b>XL8965HRC</b> <b>XL8965G90</b>		



Pcs./ Ctn.	LF./ Ctn.
36	216

LOAD TEST DATA (LBS./LF)			
L/240 Simple Span		L/360 Simple Span	
6.87 @ 72"			
4.58 @ 72"			

<b>XL8947P</b> <b>XL8947PG90</b>	50"	1-1/2"
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36	150
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19.5 @ 50"	12.79 @ 50"
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<b>XL8945P</b> <b>XL8945PHRC</b> <b>XL8945PG90</b>	48"	1-1/2"
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36	144
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22.5 @ 48"	14.27 @ 48"
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<b>XL8940</b>	40"	1-1/2"
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36	119
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36.22 @ 40"	24.15 @ 40"
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<b>XL8926</b> <b>XL8926G90</b>	24"	1-1/2"
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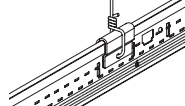

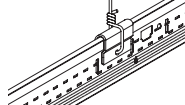
36	72
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119.0 @ 24"	90.25 @ 24"
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# DRYWALL GRID SOUND ISOLATION SOLUTION – Flat Ceilings

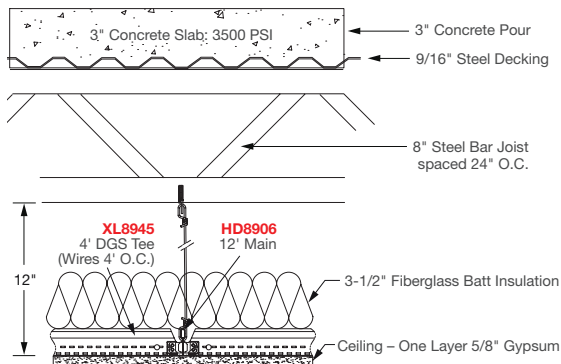
## Suspension Systems

### VISUAL SELECTION

Item No.	Description		
<b>IIC Clip</b> 36 pcs/bucket	Impact Isolation Clip for use with HD8906IIC drywall grid main beam. Provides up to 8 points of IIC improvement to ensure your project meets IBC requirements. Clip Color: Natural  <b>IIC Clip must be used with HD8906IIC Drywall Grid Main Beam</b>		
<b>IIC2 Clip</b> 36 pcs/bucket	Impact Isolation Clip for use with HD8906IIC drywall grid main beam. For conditions requiring two layers of drywall. Clip Color: Green  <b>IIC Clip must be used with HD8906IIC Drywall Grid Main Beam</b>		

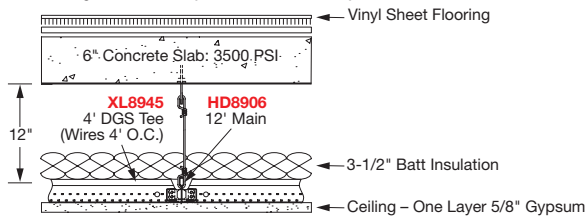
### STANDARD ASSEMBLIES – 1 LAYER OF DRYWALL

#### Armstrong Standard Drywall Grid Assembly 1:



Item No.	Armstrong Assembly	Building Structure	STC	IIC
<b>HD8906</b> <b>XL8945</b>	12' Main Beam / 4' Cross Tee 3-1/2" Batt Insulation 5/8" Gypsum	Bare Concrete Base 3" Concrete Slab Fluted Steel Decking 8" Bar Joist, 24" O.C.	55	47

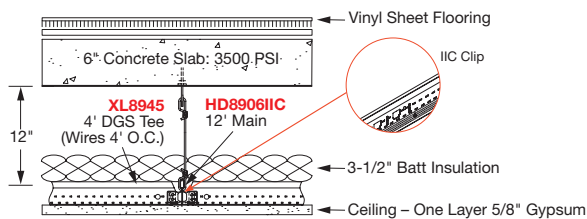
#### Armstrong Standard Drywall Grid Assembly 2



Item No.	Armstrong Assembly	Floor Structure	IIC	Gain*
<b>HD8906</b> <b>XL8945</b>	12' Main Beam / 4' Cross Tee 3-1/2" Batt Insulation 5/8" Gypsum	6" Thick Slab Concrete Base with Vinyl Sheet Flooring	57	58

### ARMSTRONG IIC SOLUTION ASSEMBLIES – 1 LAYER OF DRYWALL

#### Armstrong IIC Drywall Grid Assembly 1: Concrete Slab Structure



Item No.	Armstrong Assembly	Floor Structure	IIC	Gain*
<b>HD8906IIC</b> <b>XL8945</b> <b>IIC Clip</b>	12' Main Beam / 4' Cross Tee IIC Clip 3-1/2" Batt Insulation 5/8" Gypsum	6" Thick Slab Concrete Base with Vinyl Sheet Flooring	66	+8

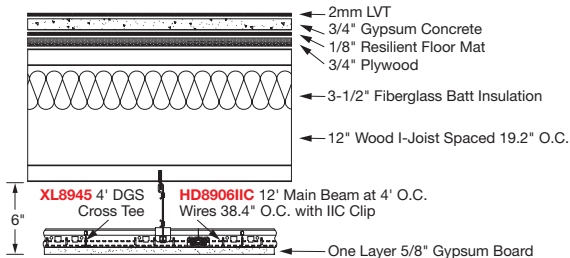
\* Results are compared to Armstrong standard Drywall Grid Assembly 2

# DRYWALL GRID SOUND ISOLATION SOLUTION – Flat Ceilings

## Suspension Systems

### ARMSTRONG IIC FRAMEALL™ DRYWALL GRID ASSEMBLIES – 1 LAYER OF DRYWALL (continued)

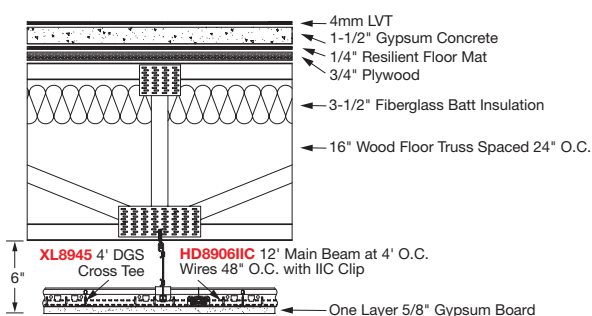
Armstrong IIC Drywall Grid Assembly 2:  
Wood I-Joist Structure



Item No.	Armstrong Assembly	Floor Structure	IIC	Gain*
HD8906IIC XL8945P IIC Clip	12' Main Beam / 4' Cross Tee IIC Clip 3-1/2" Batt Insulation 5/8" Gypsum	2mm LVT 3/4" Gypsum Concrete 12" Wood I-Joist	55	+4

\* Results are compared to RC – Deluxe

Armstrong IIC Drywall Grid Assembly 3:  
Wood Floor Truss Structure

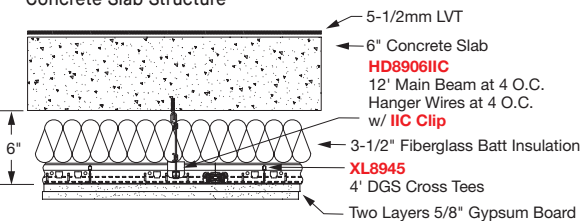


Item No.	Armstrong Assembly	Floor Structure	IIC	Gain*
HD8906IIC XL8945P IIC Clip	12' Main Beam / 4' Cross Tee IIC Clip 3-1/2" Batt Insulation 5/8" Gypsum	4mm LVT 1-1/2" Gypsum Concrete 16" Wood Floor Truss	60	+4

\* Results are compared to RC – Deluxe

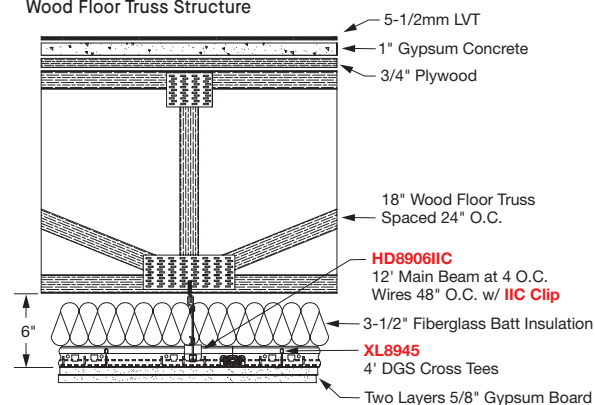
### ARMSTRONG IIC FRAMEALL™ DRYWALL GRID ASSEMBLIES – 2 LAYERS OF DRYWALL

Armstrong IIC Drywall Grid Assembly 1:  
Concrete Slab Structure



Item No.	Armstrong Assembly	Building Structure	STC	IIC
HD8906IIC XL8945 IIC2 Clip	12' Main Beam / 4' Cross Tee IIC2 Clip 3-1/2" Batt Insulation 2 Layers – 5/8" Gypsum	5-1/2mm LVT 6" Thick Slab Concrete Base	61	62

Armstrong IIC Drywall Grid Assembly 2:  
Wood Floor Truss Structure



Item No.	Armstrong Assembly	Floor Structure	STC	IIC
HD8906IIC XL8945 IIC2 Clip	12' Main Beam / 4' Cross Tee IIC2 Clip 3-1/2" Batt Insulation 2 Layers – 5/8" Gypsum	5-1/2mm LVT 1" Gypsum Concrete 3/4" Plywood 18" Wood Floor Truss	61	58

FRAMEALL™ DRYWALL GRID – Standard

# WHY SOUND CONTROL MATTERS

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, 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. 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 FrameAll™ Drywall Grid.

## STC/IIC PERFORMANCE GUIDELINES

STC/IIC Ratings	Description	Changes in STC/IIC Ratings	Description
60	Superior soundproofing	+ / - 1	Almost perceptible
55	<b>EXCELLENT</b>	+ / - 3	Just perceptible
50	Loud speech barely audible	<b>+ / - 5</b>	<b>CLEARLY PERCEPTIBLE</b>
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		

### ARMSTRONG SOLUTION FEATURES:

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

