CEILING SYSTEMS

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TECHNICAL GUIDE

DrywallGridSystem

DRYWALL Grid Systems

Hanging and Framing Flat Ceilings



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Performance

- **PeakForm**[™] patented profile increases strength and stability for improved performance during installation
- 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
- 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 Superior corrosion resistance
- G90 hot dipped galvanized coating Available for exterior application
- Heavy-duty load rating Minimum 16 Lbs./LF on main beams and cross tees
- Fire rated Applicable to 25 UL Fire Resistant designs (D501, D502, G523, G524, G526, G527, G528, G529, J502, L502, L508, L513, L515, L525, L526, L529, P501, P506, P507, P508, P509, P510, P513, P514, P516). Items XL8947, XL8925, XL8926, XL7918 are not fire rated
- Wind uplift construction available
- Cross tee Spacing: 24" O.C. for 5/8" drywall 16" O.C. for 1/2" drywall

Code Compliance

- Meets ASTM C 635
- Meets ASTM C 645
- Installation per ASTM C636
- Installation per ASTM C754
- ICBO Evaluation Report Number ES-5413
- Department of State Architect DSA PA105
- City of LA RR 25348
- Uniform Building Code, Continuous Membrane, One Level. Per Section 25.210 single level drywall ceilings are exempt from lateral force bracing requirements when walls are not over 50 feet apart. When walls are over 50 feet apart, the ceiling should be examined for bracing requirements
- IBC categories D, E and F single layer drywall ceilings are exempt from lateral force bracing requirements, regardless of room size
- Consult local codes for specific requirements



Main Beams

		Газа	Dut	Fine		Load Test Data (Lbs./LF))		
Item #	Length	Dimension	Load	Rated	Routs	L/360 wires at		L/240 wires at			Perspective	
						2'	3'	4'	2'	3'	4'	
HD8901	144"	15/16"	Heavy duty	Yes	51 routs—starting 2-1/4" from each end (type "F" fixture com- patible)	80.1	31.4	16.5	123.2	46.3	24.75	
HD8906 HD8906 G90	144"	1-1/2"	Heavy duty	Yes	51 routs—starting 2-1/4" from each end (type "F" fixture compatible)	95.5	35.8	18.76	143.0	57.3	28.14	

Cross Tees

Item #	Face Length	Face Dimension	Fire Rated	Routs	Load Test E L/360	Data (Lbs./LF) L/240	Perspective
					wires at	wires at	
					50"	50"	
XL8947 XL8947 G90	50"	1-1/2"	No	8 routs—starting 10" from each end (type "F" fixture compatible)	17.07	25.22	
					2' 3' 4'	2' 3' 4'	
XL8945 XL8945 G90	48"	1-1/2"	Yes	9 routs—center rout and starting 10" from each end (type "F" fixture compatible)	17.07	25.6	
XL8341	48"	15/16"	Yes	3 routs—starting 12" from each end	18.80	28.2	
XL7341	48"	15/16"	No	3 routs—starting 12" from each end	16.39	28.2	
XL7231 XL7231 G90	36"	15/16"	No	none	33.0	49.5	
XL7936 G90	36"	1-1/2"	No	none	33.33	49.96	

COMPONENTS

Cross Tees

Item #	Length	Face Dimension	Fire Rated	Routs	Load Test Da L/360 wires at	ata (Lbs./LF) L/240 wires at	Perspective
					2' 3' 4'	2' 3' 4'	
XL8925 XL8925 G90	26"	1-1/2"	No	2 routs—12" from each end (type "F" fixture compatible)	98.0	147.0	
XL8926 XL8926 G90	24"	1-1/2"	Yes	3 routs—center rout and 10" from each end (type "F" fixture compatible)	129.0	193.0	
XL7918	14"	1-1/2"	No	none (type "F" fixture compatible)	129.0	193.0	

Furring Hat Channel

				Load Test D	ata (Lbs./LF)	
Item #	Length	Face Dimension	Fire Rated	L/360 wires at	L/240 wires at	Perspective
				4'	4'	
HD8940	48"	1-3/8"	Yes	7.08	10.62	

Wall Molding

Item #	Length	Description	Profile	Perspective
7858	144"	Reverse angle molding nominal 1-9/16" x 15/16"	15/16*	
7838	120"	Unhemmed channel molding nominal 3/4" x 1-9/16" x 1-1/4"	→ 1-9/16° → 1-1/4° →	
HD7859	120"	Hemmed angle molding nominal 1-1/4" x 1-1/4"	1-1/4" 	

Corrosion Prevention

Corrosion prevention is an essential factor in the economical utilization of galvanized sheet metal for ceiling grid. Armstrong provides G-40 for standard construction per ASTM C 645. When conditions include exposure to extreme moisture and salt water, G-90 is available upon request per ASTM A 653.



* HD8901 has an integral nose end detail Note: All dimensions are nominal

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 CS-3082.

Item #	Description	Perspective	Application
DWACS	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		ł
DW30C DW45C DW60C DW90C	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	$\begin{array}{c c} 30^{\circ} & 45^{\circ} \\ \hline & & & \\ \hline \\ \hline$	
TT10	Partition Top Trim used to finish the top of a drywall partition for a continuous drywall/acoustical ceiling interface		
DW58 DW50	DW58-Transition Clip for 5/8" Drywall; DW50-Transition Clip for 1/2" Drywall facilitates transition from drywall to acoustical ceiling; one-sided hold-down clip; eliminates the need for a drywall bead		
MBAC	Main Beam Adapter Clip attaches to web of grid section; provides larger surface for screw attachment; used as a hold-down clip for thin material (metal or plastic lay-in panels); fastens drywall track to underside of exposed grid with lay-in panels, leaving grid face free of screw holes	·	ł
MBSC2	Main Beam Spacer Clip (2" in length) used to space two parallel main beams 2" O.C. for air supply or return	and a start	
XTAC	Cross Tee Adapter Clip - Used to attach field cut cross tees to main beams		
DLCC	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		
DWC	Drywall Clip allows for a "second" ceiling to be installed below a drywall ceiling; attach through installed drywall to supporting structure	Cost Jo	

System Framing

The grid system is made up of main beams and cross tees that are 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 wall channel or angle molding that run around the perimeter of the space.



Squaring up the System

Once you've hung your first two main beams and border cross tees, install two full cross tees between the main beams and in line with the first two border cross tees. To square up the system, simply measure across the diagonals of the opening. The measurements will be the same if the grid is square. If the grid is not square, shorten one of the main beams until the diagonals are equal.

Type F Fixtures

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" and 50" 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 50" and 48" cross tee for easy placement of fixtures without field modifications.

When installing fixtures **perpendicular** to the main beams, use our 50" cross tees for virtually limitless fixture placement.



SUSPENDED DRYWALL GRID SYSTEM DETAILS

Hanger Wire





SUSPENDED DRYWALL GRID SYSTEM DETAILS



SUSPENDED DRYWALL GRID SYSTEM DETAILS







Wire Loading



Counter Splayed Wires

Objects in the plenum may obstruct placement of vertical hanger wires and require splayed wires to support the load. When this occurs, a second counter splayed wire must be added. Install counter splayed wires at an angle equal and opposite the first wire, but not greater than 45° from vertical. The load capacity of the main beam remains unchanged (refer to ASTM C 636).



HANGING AND FRAMING

Yoke Wire Hung Ceilings

Another method to install hanger wires around an object in the plenum is to utilize a single or double yoke wire technique.

Rule: to form the 45 degree angle, the vertical location of the tension ring is always half the distance of the span at the structure.

Single Yoke





Trapeze Supported Loads

Installing a trapeze is a technique to support multiple hanger wires under obstructions, such as trunk lines, cable trays or other objects in the plenum. In some cases the trapeze may effect the ceiling height and must be kept small. In other cases steel studs may be used to span the distance required.



Trapeze Loading per ASTM C 636

Members	Gauge	0' – 4'	4' – 8'	8' – 12'	12' – 16'	16' – 20'
1 <u>1/2</u> " CRC	16	1 1/2" CRC	NA	NA	NA	NA
	16 🔫				P-2000	NA
1 5/8" Unistrut	14 ~ 12 ~					P-1100
+	20 🗲			6CSJ-20 Bridge Mid	NA	NA
6"	18 ← 16 ←				6CSJ-18 Bridge Mid	NA 6CSJ-16
Steel Stud						Bridge Mid

NOTE: Bridging is required at mid span when steel stud members are greater than 8' – 0" in length. Bridging may be 1 1/2" CRC or main runner screw attached to hold vertical and prevent cocking. No wire is required at mid span.

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HANGING AND FRAMING

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 DLCC 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.

Double Hung Ceilings



Triple Hung Ceilings



HANGING AND FRAMING

Wind Load

Vertical Height in Plenum	Up Lift Load (mph)	Stud Gauge	Stud Thickness	Exterior Grade Sheeting	Main Runner Spacing	Cross Tee Spacing	Hanger Wire Spacing	Cross Tee Length	Stud Spacing
0	15	20	2-1/2"	5/8" Exterior Sheeting	48"	24"	4' o.c.	4'	4'
	30	20	2-1/2"	5/8" Exterior Sheeting	48"	24"	4' o.c.	4'	4'
	45	20	2-1/2"	5/8" Exterior Sheeting	48"	24"	4' o.c.	4'	4'
	60	20	2-1/2"	5/8" Exterior Sheeting	24"	24"	4' o.c.	2'	4'
	90	20	2-1/2"	5/8" Exterior Sheeting	24"	16"	4' o.c.	2'	3'
↓	120	20	2-1/2"	5/8" Exterior Sheeting	24"	16"	4' o.c.	2'	2.5'
6'6"	140	20	2-1/2"	5/8" Exterior Sheeting	24"	16"	4' o.c.	2'	2'
6'7"	15	18	2-1/2"	5/8" Exterior Sheeting	48"	24"	4' o.c.	4'	4'
	30	18	2-1/2"	5/8" Exterior Sheeting	48"	24"	4' o.c.	4'	4'
	45	18	2-1/2"	5/8" Exterior Sheeting	48"	24"	4' o.c.	4'	4'
	60	18	2-1/2"	5/8" Exterior Sheeting	24"	24"	4' o.c.	2'	4'
	90	18	2-1/2"	5/8" Exterior Sheeting	24"	16"	4' o.c.	2'	3'
🕴	120	18	2-1/2"	5/8" Exterior Sheeting	24"	16"	4' o.c.	2'	2.5'
10'3"	140	18	2-1/2"	5/8" Exterior Sheeting	24"	16"	4' o.c.	2'	2'
10'4"	*15	18	2-1/2"	5/8" Exterior Sheeting	48"	24"	4' o.c.	4'	4'
	*30	18	2-1/2"	5/8" Exterior Sheeting	48"	24"	4' o.c.	4'	4'
	*45	18	2-1/2"	5/8" Exterior Sheeting	48"	24"	4' o.c.	4'	4'
	*60	18	2-1/2"	5/8" Exterior Sheeting	24"	24"	4' o.c.	2'	4'
	*90	18	2-1/2"	5/8" Exterior Sheeting	24"	16"	4' o.c.	2'	3'
🕴	*120	18	2-1/2"	5/8" Exterior Sheeting	24"	16"	4' o.c.	2'	2.5'
15'0"	*140	18	2-1/2"	5/8" Exterior Sheeting	24"	16"	4' o.c.	2'	2'
15'1"	**15	18	3-5/8"	5/8" Exterior Sheeting	48"	24"	4' o.c.	4'	4'
	**30	18	3-5/8"	5/8" Exterior Sheeting	48"	24"	4' o.c.	4'	4'
	**45	18	3-5/8"	5/8" Exterior Sheeting	48"	24"	4' o.c.	4'	4'
	**60	18	3-5/8"	5/8" Exterior Sheeting	24"	24"	4' o.c.	2'	4'
	**90	18	3-5/8"	5/8" Exterior Sheeting	24"	16"	4' o.c.	2'	3'
♥	**120	18	3-5/8"	5/8" Exterior Sheeting	24"	16"	4' o.c.	2'	2.5'
20'0"	**140	18	3-5/8"	5/8" Exterior Sheeting	24"	16"	4' o.c.	2'	2'
		Coiling	Svetom: HDS	2006 Main Roam, XI 2045	Cross Too	VI 9026 Cr			

Ceiling System: HD8906 Main Beam, XL8945 Cross Tee, XL8926 Cross Tee.

* 1-1/2" 16ga. U-Channel bridging required at mid-span for 10'4" up to 15'0" ** 1-1/2" 16ga. U-Channel bridging required at 1/3 points for 15'1" up to 20'0"



UL Fire Resistive Designs

Deck Construction Type	UL Design Number	Concrete Thickness	# Drywall Layers	Minimum Drywall Thickness	Maximum Fixture Penetration (Ft ² /100 Ft ²)	Maximum Duct Penetration (In ² /100 Ft ²)
Floor/Ceiling Drywall Ass	semblies					
CONCRETE ON COMP	OSITE FLA	T CELLULAF	R, FLUTED	O OR BLEND DECK	•	
2-Hour	D501	2 1/2"	1	5/8"	None	None
	D502**	2 1/2"	1	5/8"	24	144
CONCRETE ON METAI	L LATH, CC	ORRUGATED	AND RIB	BED DECK		
3-Hour	G523**	3	1	5/8"	24	144
	G524***	3 1/2", 3 3/4"	1	1/2"	none	113
	G529	3 1/4"	1	1/2"	24	57
	G529	2 3/4"	1	5/8"	24	57
2-Hour	G523	2 1/2"	1	1/2" Or 5/8"*	24	144
	G524***	2 1/2", 2 3/4"	1	1/2"	none	113
	G526	2 1/2"	1	1/2" Or 5/8"*	25	56.5
	G527	2 1/2"	1	1/2" Or 5/8"*	None	None
	G529	2 1/2"	1	1/2"	24	57
1 1/2-Hour	G528	2 1/2"	1	1/2" Or 5/8"*	None	None
PRECAST CONCRETE	SLAB	1	1	1	1	1
3-Hour	J502	2 3/4"	1	5/8"	None	None
2-Hour	J502	2"	1	5/8"	None	None
Wood Deck/Ceiling Dryw	all Assemb	lies	1	1	1	1
PLYWOOD 2 X 10 WOO	D JOISTS					
1-Hour	L502	Na	1	1/2"	None	None
	L513	Na	1	5/8"	None	None
	L515	Na	1	1/2"	None	None
	L525	Na	1	1/2" Or 5/8"*	24	57
	L526**	Na	1	5/8"	24	114
PLYWOOD (2) 2 X 10 C	DR (1) 4 X 1	0 WOOD JOI	STS	1	1	1
1-Hour	L508	Na	1	5/8"	None	None
PLYWOOD WITH WOO	D TRUSSE	S	I	1	1	1
1-Hour	L529	Na	1	5/8"	24	57
Roof/Ceiling Drywall Ass	emblies	1	-		- ·	
STANDING SEAM EXP	OSED MET	AL ROOF WI	TH BATT	S/BLANKETS		
1-Hour	P516	Na	2	5/8"	None	None
MINERAL FIBER, FOA	N ON CELL	ULAR, FLUT	ED, COR	RUGATED METAL I	DECK	1
2-Hour	P501	Na	1	5/8"	None	None
	P514	Na	1	5/8"	24	255
1 1/2-Hour	P507	Na	1	5/8"	24	57
	P510	Na	1	5/8"	24	57
	P513**	Na	1	5/8"	24	144
1-Hour	P508**	Na	1	5/8"	24	144
	P509**	Na	1	5/8"	24	144
	P510	Na	1	1/2"	24	57
MINERAL FIBER/LAMI	NATED GY		KS	<i></i> _		
1 1/2-Hour	P506	Na	1	5/8"	24	57
				0.0	<u> -</u> .	••

* Depends on rating, manufacturer
** Optional acoustical tile may be glue applied to gypsum board
*** Concrete thickness depends on joist depth used
NOTES: Drywall Grid "Design To Fit" items XL7918, XL8947, XL8925 and XL8926 can not be used as part of a UL Fire Resistive Design. DFR 8000 - UL Designation, Fireguard Drywall Grid System

Fire Rated Expansion Joint

Fire expansion notch

11-

Collapsed fire expansion notch

Load Test Data

	Technical Load Test Data • Main Beam										
	-			Simple Span (lbs/IF)							
Item No.	Flange Width (in.)	Length (in.)	Web Height	4	4')'	2'			
			(11.)	L/240	L/360	L/240	L/360	L/240	L/360		
HD8901	15/16"	144"	1-1/2"	24.75	16.5	46.3	31.4	123.2	80.1		
HD8906	1-1/2"	144"	1-11/16"	28.14	18.76	57.3	35.8	143.0	95.5		

Load Test Data

	Technical Load Test Data • <u>Cross Tees</u>											
						Sim	ple Sp	an (lbs	/IF)			
Item	Flange Width	Length (in.)	Web Height	5	0"		4'		3'	2'		
No.	(in.)		(in.)	L/240	L/360	L/240	L/360	L/240	L/360	L/240	L/360	
XL8947	1-1/2"	50"	1-1/2"	25.22	17.07							
XL8945	1-1/2"	48"	1-1/2"			25.6	17.07					
XL8341	15/16"	48"	1-1/2"			28.2	18.8					
XL7231	15/16"	36"	1-1/2"					49.5	33.0			
XL7936G90	1-1/2"	36"	1-1/2"					49.96	33.33			
XL8925	1-1/2"	26"	1-1/2"							147.0	98.0	
XL8926	1-1/2"	24"	1-1/2"							193.0	129.0	
XL7918	1-1/2"	14"	1-1/2"							193.0	129.0	

NOTE: Allowable loads tested per ASTM C 635 for deflection limited to L/360 and complies with ASTM C 645 for deflection limited to L/240. See standards for additional information.

Membrane Load Values

Component Combination	N Har	laximu nger W	ım Loa /ire/Cr	ad in II oss Te	os./ft.² ee Spa	at cing		Maximum Load in lbs./ft.² at Hanger Wire/		
	48"/24"		48"/16"		36"/ 16"		Component	Cross Tee Spacing		
	L/240	L/360	L/240	L/360	L/240	L/360		36"/16"		
HD8906/XI 8947	5.02	4.24	E 02	4.24	10.07	0 50		L/240	L/360	
(mains 50" O.C.)	0.95	4.24	5.95	4.24	12.07	0.00	HD8906/XL7231 (mains 36" O.C.)	17.88	14.9	
HD8901/XL8947 (mains 50" O.C.)	5.25	3.96	5.25	4.24	11.14	7.43	HD8901/XL7231 (mains 36" O.C.)	15.48	12.9	
HD8906/XL8945 (mains 48" O.C.)	6.18	4.41	6.18	4.41	13.41	8.98	HD8906/XL8926 (mains 24" O.C.)	26.82	22.35	
HD8901/XL8945 (mains 48" O.C.)	5.47	4.12	5.47	4.12	11.61	7.74	HD8901/XL8926 (mains 24" O.C.)	23.23	19.35	
HD8906/HD8940 (mains 48" O.C.)	4.95	3.54	6.18	4.41	7.43	5.31	Typical Drywall Cross Tee Spacing			
HD8901/HD8940 (mains 48" O.C.)	4.95	3.54	5.47	4.12	7.43	5.31	XL8945 24" O.C. for 5/8" drywall XL8945 16" O.C. for 1/2" drywall			

Material	Weight Lbs./SF	Maximum Main Beam Spacing	Maximum Cross Tee Spacing	Maximum Wire Spacing	Load on Wire
OSB 1/4"	0.9	48"	8" - 16"	48"	14.4 Lbs.
3/8"	1.3	48"	16"	48"	20.8 Lbs.
1/2"	1.7	48"	16"	48"	27.2 Lbs.
5/8"	2.2	48"	24"	48"	35.2 Lbs.
3/4"	2.5	48"	24"	48"	40.0 Lbs.
Plywood 1/4"	.075	48"	8" - 16"	48"	12.0 Lbs.
3/8"	1.1	48"	16"	48"	17.6 Lbs.
1/2"	1.5	48"	16"	48"	24.0 Lbs.
5/8"	1.8	48"	24"	48"	28.8 Lbs.
3/4"	2.2	48"	24"	48"	35.2 Lbs.
Gypsum Board 1/4"	1.2	48"	8" - 16"	48"	19.2 Lbs.
3/8"	1.4	48"	16"	48"	22.4 Lbs.
1/2"	2.0	48"	16"	48"	32.0 Lbs.
5/8"	2.4	48"	24"	48"	38.4 Lbs.
Cement Board1/2"	3.0	48"	24"	48"	48.0 Lbs.
Cement Siding 3/8"	1.9	48"	16"	48"	30.4 Lbs.
Hard Board Siding 1/2"	2.0	48"	16"	48"	32.0 Lbs.
Water Resist. Gypsum Board 5/8"	2.6	48"	16"	48"	41.6 Lbs.
Expanded Steel Lath	3.4	48"	16"	48"	54.4 Lbs.
12 Gauge Sheet Steel	4.5	24"	16"	48"	72.0 Lbs.

Basic Products Used on Suspension Systems

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 6-90 Galvanized finish Date based on manufacturers publiched date.

Data based on manufacturer's published data.

Control Joints

Control joints minimize cracking caused by stresses in the surface material attached to a metal suspension system. Materials have different rates of expansion and control joints are placed 35' to 50' apart to control bucking and cracking of surface. Control joints are also used to minimize stresses in monolithic ceiling membrane that occur at columns, access doors, light fixtures, inside and outside corners and other unusual penetrations in ceilings. (See detail drawing on page 9).

Expansion Joints

Ceiling expansion joints are installed to separate the metal suspension system when expansion joints occur in buildings, ceiling span is over 100' or when metal changes direction. Expansion joints are required to separate a system in T, H, L and U or Circle shaped buildings to eliminate cracking from expansion. Both expansion and control joints look similar but perform different functions. (See detail drawing on page 9).

CEILING SYSTEMS

1 877 ARMSTRONG (1 877 276 7876)

- Name of your Inner Circle Contractor or Gold Circle Distributor or Sales Representative
- Customer Service Representatives 7:30 a.m. to 5:00 p.m. EST, Monday through Friday
- <u>Tech</u>Line Technical information 8 a.m. to 5:30 p.m. EST, Monday through Friday FAX 1-800-572-8324 or email: techline@armstrong.com
- Product literature and samples Express service or regular delivery
- Request a personal copy of the Armstrong Ceiling Systems catalog

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- Latest product and program news
- Real time selection and technical information
- Contacts reps, where to buy, how to install
- Submittal pages
- Literature and samples information
- Perimeter and Corridor Design Solutions, CAD renderings

COMMERCIAL FLOORING

1 877 ARMSTRONG (1 877 276 7876)

FAX: 1-800-599-9335 (resilient)

- 1-800-780-8983 (wood)
- Commercial vinyl, hardwood, linoleum, luxury solid vinyl and VCT flooring
- Wall base and installation accessories
- Armstrong Guaranteed Installation Systems

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