







**Offices** 

Lobbies

**Conference Rooms** 

Retail

Hospitality

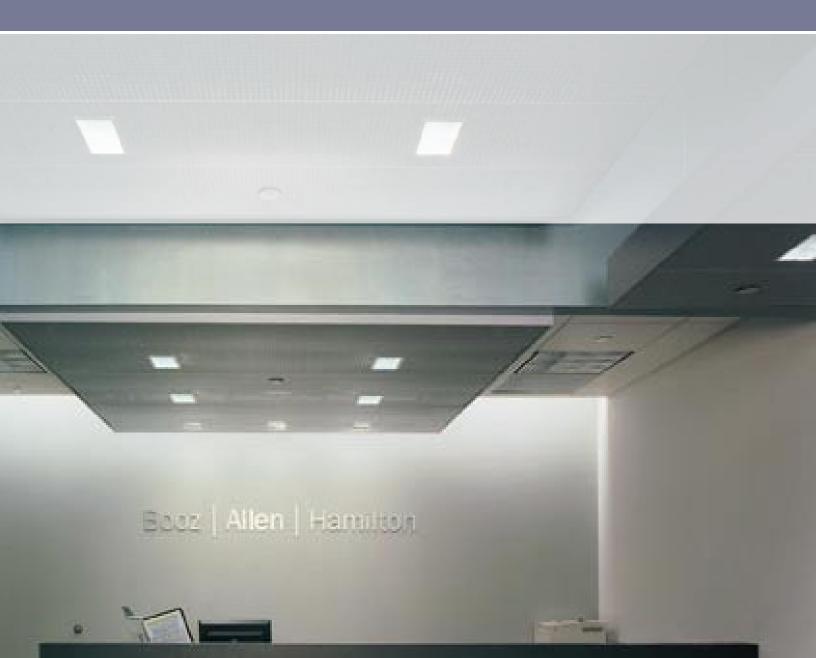
**Entertainment** 

**Health Care** 

**Transportation Hubs** 

LIBRETTO™ gridless metal ceiling system creates islands, canopies, radial ceilings and other dynamic shapes that define space and architectural features – all based on your own design concept!

You determine the shape and style of your ceiling, and USG brings it to reality with custom-manufactured components that fit together with precision. Each assembly is designed for turnkey installation and delivered complete, assuring that the installation looks just as you envisioned.



### User's Guide

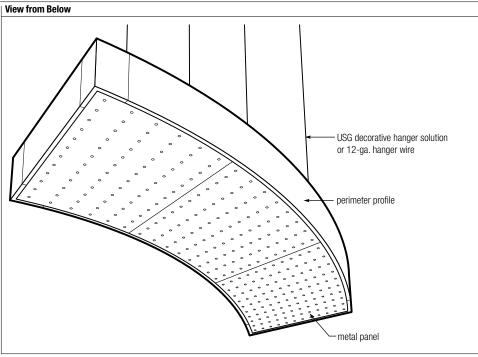
The Libretto™ gridless metal ceiling system features individually fabricated aluminum panels that interconnect to form a continuous, uninterrupted plane. Collaborate with USG to create a custom design tailored to your space, and enhance the aesthetic with perforations that follow the contours of your unique ceiling. Even the concealed carrier system is custom-fit, with a choice of three perimeter profiles to achieve the proper scale for your space.

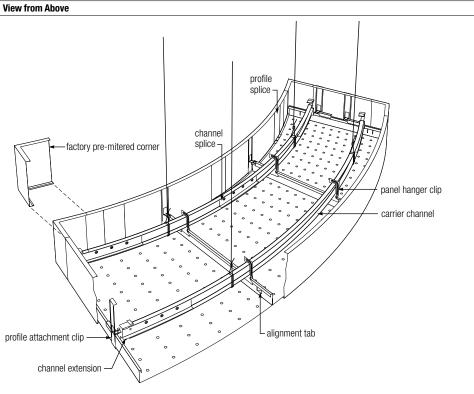
	Pages	
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Design Your System	4	Design Guide
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Specify Your System	24	Application Guide Specifications
For More Information		Technical Service 800 USG.4YOU
		Web Site usg.com

<sup>1</sup> LIBRETTO Gridless Metal Ceiling System

# System Overview

Aetal Panels	designer. The assemb		els that form a shape and size directed by the architect or o require no cutting or fitting by the installer. Optional access int access only.					
Carrier System	Engineered, conceale	d system suspended from the	structure. Components include:					
•	<ul> <li>Carrier channel</li> </ul>		·					
	<ul><li>Channel splice/extens</li><li>Panel hanger clip</li></ul>	sion						
	r and hanger dip							
Perimeter Profile	Each assembly is finis	hed with a perimeter profile 4"	, 6" or 8" in height. Components include:					
	<ul> <li>Curved and straight per</li> </ul>	erimeter profile sections						
		<ul> <li>Factory pre-mitered corners</li> </ul>						
	<ul><li>Profile attachment clip</li><li>Profile splices</li></ul>	JQ						
	. rome opnose							
flaterials			Recycled Content					
	Panels	Aluminum	80%					
	Carrier system	Cold-rolled steel	25%					
	Edge profile	Cold-rolled steel	25%					
Colors	Standard colors: Flat V	White and Silver Satin. Custom	colors available on request.					
Perforation	Contoured pattern that follows the shape of your LIBRETTO ceiling.							
	<ul> <li>Custom graphic with a pattern you provide.</li> </ul>							
	<ul> <li>Standard patterns for square and rectangular ceilings.</li> <li>Smooth, unperferated metal.</li> </ul>							
	omoun, unperiorated	motal.						
ighting	LIBRETTO assemblies m	ay be lit from above with a var	riety of lighting systems to create a range of effects,					
		atic. See USG design guide IC5						
Plenum Depth	Minimum 12", with 8"	clearance above top edge of p	perimeter profile. See page 19 for details.					
Design Process	USG takes care of the	design work for you! Simply se	end us the general shape and size of the LIBRETTO ceiling					
			. We will design the assembly to fit your space, including an					
	optional contoured pe	rforation pattern that flows wit	n tne snape of your ceiling.					





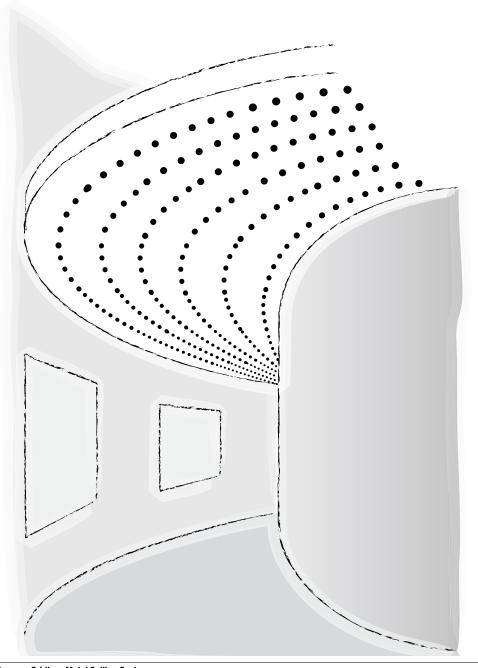
See page 21 for more information about system components.

# System Overview

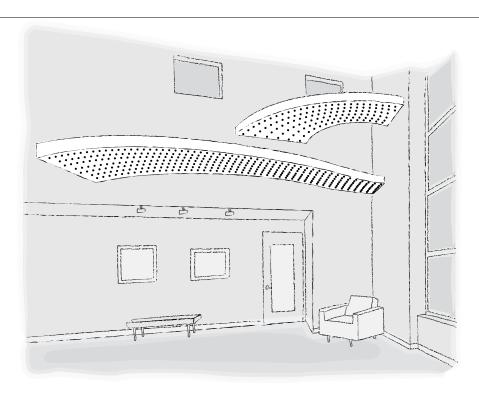
### **Application Concepts**

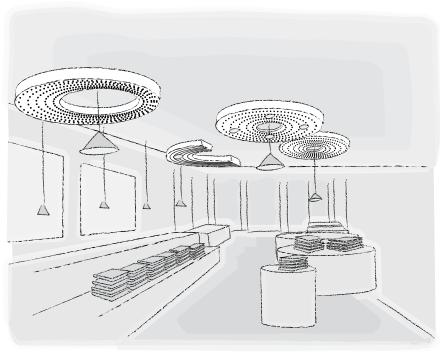
#### **Individual Islands**

LIBRETTO ceilings provide an excellent solution for creating visual interest in conference rooms, retail spaces and reception areas. The shape and perforation pattern is fully customizable, allowing you to highlight functional zones, echo the shape of workstations or open floor area, and draw attention to architectural details. Crescents, serpentines, toruses, and even simple squares and rectangles provide the basis for unlimited creativity.



### **Application Concepts**



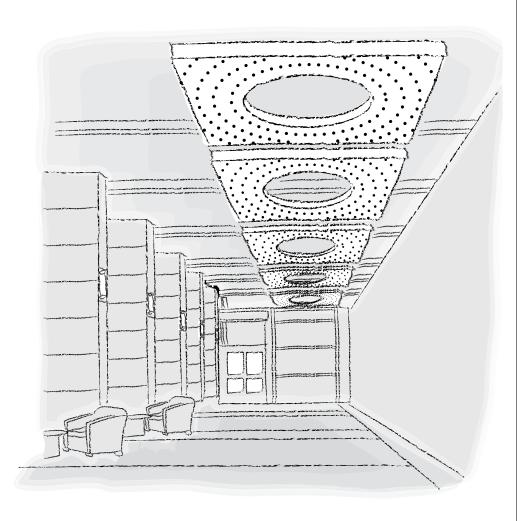


# System Overview

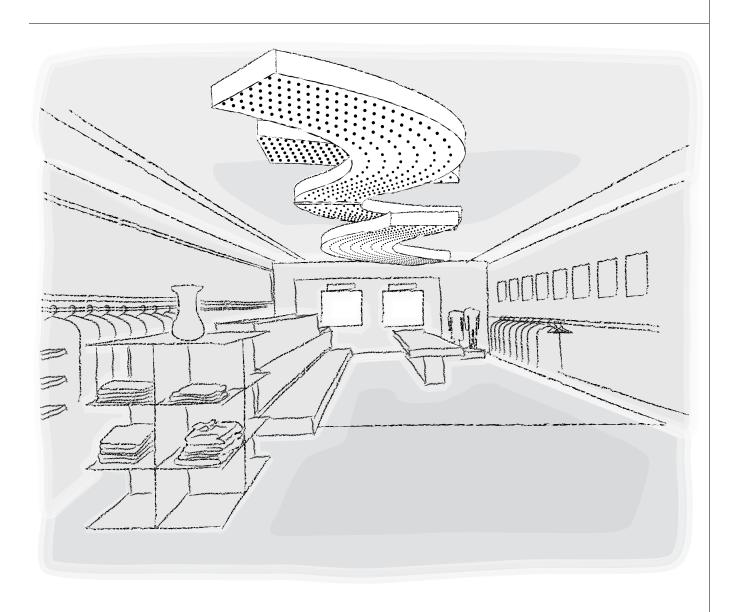
### **Application Concepts**

#### **Multiple Islands**

LIBRETTO ceilings provide an easy, cost-effective solution for creating visual energy by repeating and nesting shapes. Align multiple islands to accentuate linear space and provide wayfinding. Or, group islands in tandem to break up bland expanses with geometric interest. Islands may also be positioned at varying heights to reflect the scale of high spaces.



### **Application Concepts**

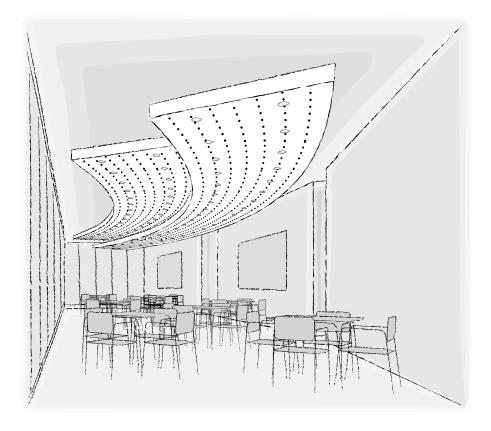


# System Overview

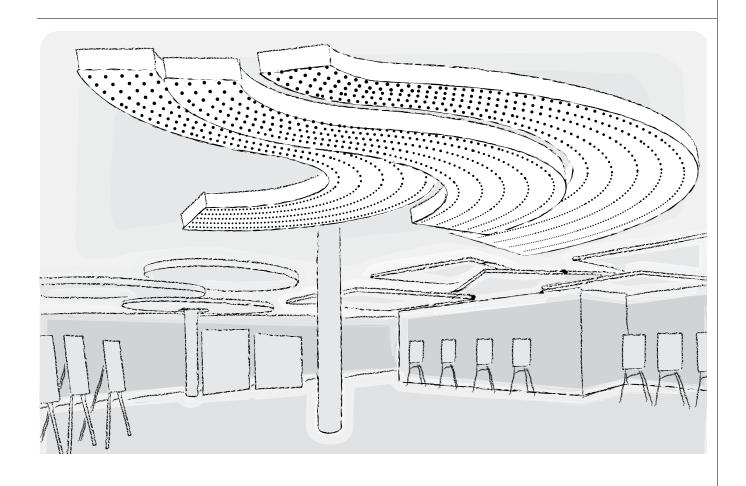
### **Application Concepts**

#### **Radial Applications**

Made with the latest computer-controlled manufacturing technology, LIBRETTO ceilings offer unprecedented accuracy, ensuring that even the largest assemblies provide a seamless fit. Design expansive concentric and multi-level radial designs with confidence, bringing intimacy and visual interest to large spaces such as amphitheaters, showrooms and auditoriums.



### **Application Concepts**



# Design Guide

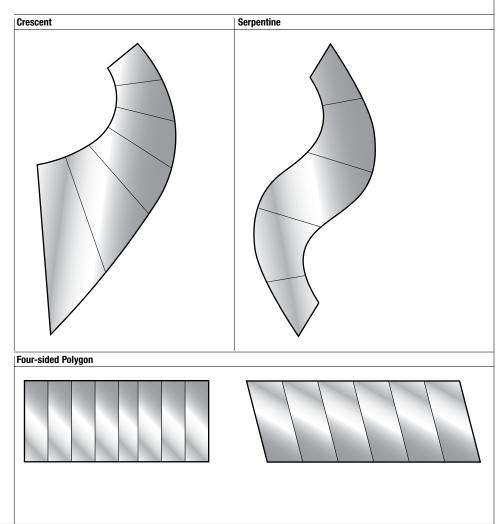
LIBRETTO ceilings can be configured to create a wide range of shapes, with multiple perforation options to enhance the visual interest of the ceiling itself, integrate custom patterns or icons, and create unique lighting effects. Following are the steps and guidelines for creating a LIBRETTO ceiling that will provide a crowning touch to your project.

#### Step 1 Select Shape

LIBRETTO ceilings may be shaped as crescents, serpentines, four-sided polygons, and toruses. The illustrations in this section show basic design concepts and guidelines.

Crescent, Serpentine, and Polygon

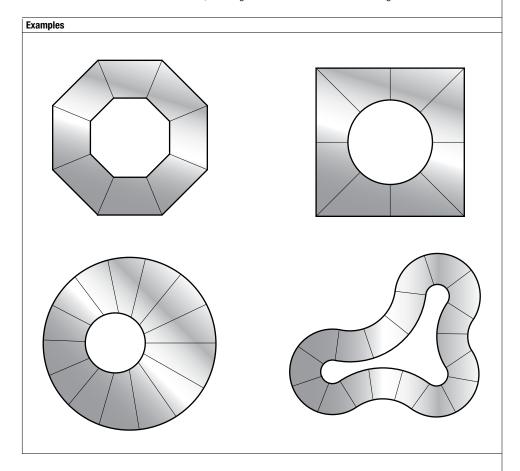
# Criteria Example - Must have two straight opposite ends. - Length of each end must be 30"-144". - Corners must be 15°-165°. - Sides may include curved and straight sections. - All curves must have minimum 18" radius. - Opposite sides not required to be concentric. Note: Appropriate panel widths will be determined by the USG design staff.



#### Torus

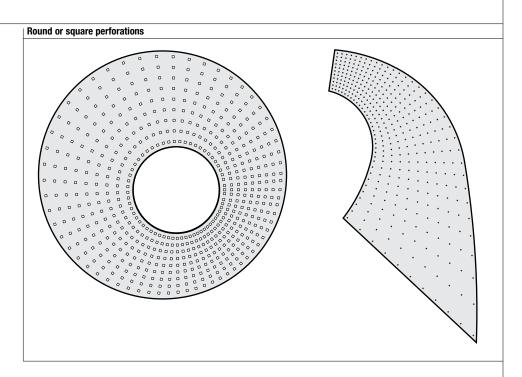
A torus is a crescent, serpentine, or polygon with ends that meet, so the preceding guidelines also apply to torus shapes. Additional standards apply to the shape of the opening relative to the LIBRETTO ceiling island:

- The inside perimeter must be at least 1/3 the outside perimeter.
- Both the outside perimeter and the opening may include curved and straight sections.
- All curves must have a minimum 18" radius; all straight sections must be at least 8" long.



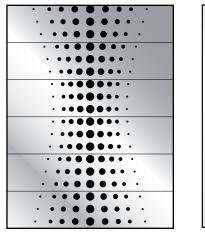
# Design Guide

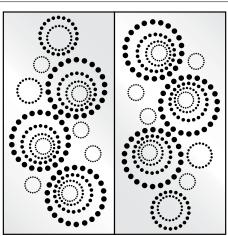
Step 2 Select Perforation				tal or a choice of per ape of your ceiling		ss panel joints. You specify
	– Custom ç individua – Standard – Optional	graphic lets you panels or rade perforations a black or white	ou make your owi diate over the ent are available in a s e Acoustibond® ba	n statement! Desigr ire ceiling. selection of 14 patte		
	1/8″	1/4″	3/8″	1/2″	3/4"	1"
	0	0				
Contoured Perforation	creates joints, a	an attractive nd perforation	landscape of flow	ving patterns of ligh arger and more wid	ded for curved and trape; it and dark. Patterns are lely spaced than standard	



Custom Graphic Perforation

Provide your own illustration or use up to five standard hole sizes to design a custom pattern. An electronic drawing (.dwg or .dxf) will be required at time of manufacture. **Note:** Custom graphic perforation patterns require a minimum 3/4" break across panel joints.

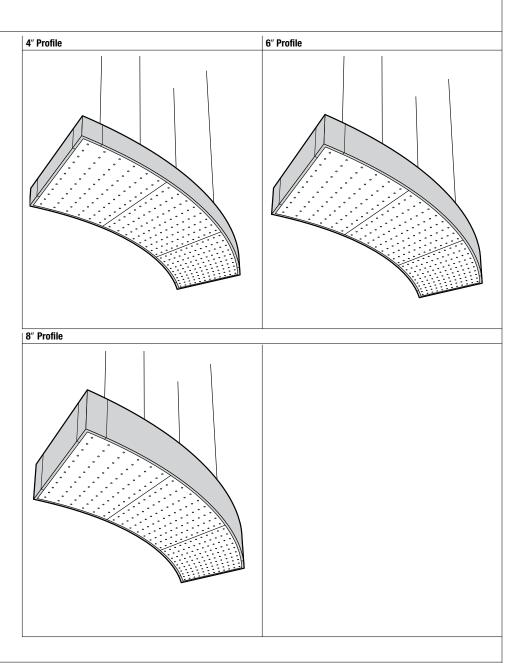




# Design Guide

Standard Perforation	Recommended for rectangular panel	s only. Each panel will have a minimum	3/8" unperforated border.
renoration	1		
	Pattern No. A116	Pattern No. C062	Pattern No. C375
Standard Perforations (shown at 50% size) Six of the most popular perforation patterns shown here. The following patterns also available: A062, A188, A250, A500, C116, C188, C250A and D375. See USG perforation selector IC425 for full-size illustrations of all patterns.	Round—15/128" perforations .25" o.c., 17% open area	Pattern No. C062  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Round—.375" perforations 1-1/8" o.c., 9% open area
	Pattern No. C500	Pattern No. D250	Pattern No. D500
	Round—1/2" perforations	Square—1/4" perforations	Square—1/2" perforations
	1-1/2" o.c., 9% open area	3/4" o.c., 11% open area	1-1/2" o.c., 17% open area

Step 3 Select Perimeter Profile



Step 4 Finish and Specify Your Design

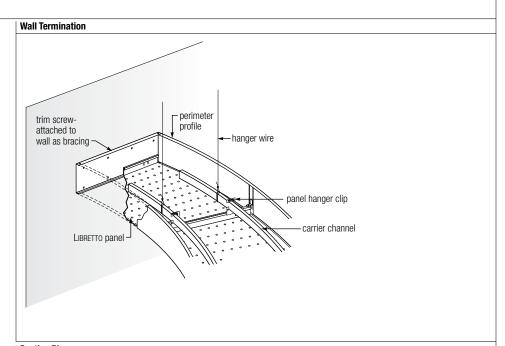
- Complete the Selector Worksheet on pages 16 and 17.
- Prepare an electronic drawing (.dwg or .dxf file) of your overall ceiling layout and LIBRETTO shape(s).
- Contactyour local USG representative to discuss any questions about your design or call 800 USG.4YOU to locate a representative near you.

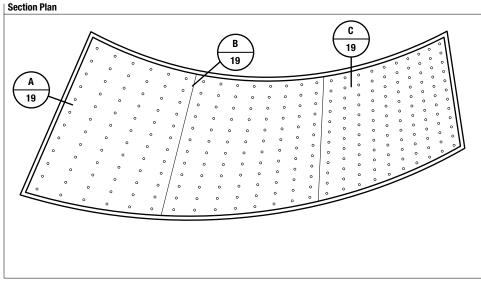
# Selector Worksheet

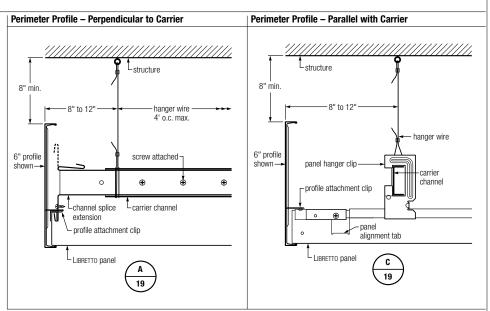
Shape and Size		☐ Crescent	☐ Serpentine	☐ Polygon	☐Torus	☐ Other		
		Total sq. ft. area	ι	_				
Perforation	☐ Contoured	panel joints with	Contoured perforation patterns conform to the shape of the ceiling. Perforation patterns flow smoothly across panel joints withoug interruption. Using our proprietary perforation technology, our experienced staff can provide an aesthetically pleasing pattern with minimal specifications. Select the following:					
		A. Punch shape ar	nd size:					
			und □ Square					
		Size 1/8	B"	] 3/8"	□ 3/4″ □ <sup>-</sup>	1"		
		B. Minimum distar	nce between holes (n	minimum 1/16" betw	veen hole edges).			
		C. Minimum distar	nce between rows (if	different from B).				
		D. Border dimensi	on to frame the islan	d (3/8" min.).				
		Down I Doubourk			C			
		Round Perforat	ons		Square Perforation	ons		
		A			A			
	☐ Custom Graphic	<ul> <li>Our staff can he</li> </ul>	cale electronic drawing perfine your concept parties perforation parties and the control of the call o	pt to ensure that it fi	ts within Libretto d	esign guidelines.		
	☐ Standard	it may be develo		ssure that the patter		er dimension may be specified or ach panel. Standard perforation		
		☐ A062	□ C062	□ D250				
		☐ A116	□ C116	□ D375				
		☐ A188	☐ C188	□ D500				
		☐ A250	☐ C250A					
		☐ A500	☐ C375					
			□ C500					
	☐ Smooth	No perforation						

Accuses Do	alsan	□Black	□ \M/le;te	□Nana			
Acoustibond Ba	ACOUSTIROND DACKEI		☐ White	□ None			
		Avallable with	Flat White and Silver	Sauii paneis only.			
Perimeter Profile		Available profil	es:				
		□ 4"	□ 6″	□8"			
		Note: Minimum	12" plenum depth	and 8" clearance above top edge required for proper installation.			
Colors		☐ Silver Satin [002]		☐ Flat White [050]			
			or based on industry color number or a 3"	standard colors or to match customer sample. Provide paint manufacturer's x $5^{\prime\prime}$ color sample.			
		Notes: (1) Metallic colors not available. (2) Standard Acoustibond backer not available with custom color. Check for availability and restrictions.					
Utilities	Factory cutouts	Available on request. Provide an electronic drawing (.dxf or .dwg file) indicating exact sizes and positions.					
	Integrated Fixtures		<i>i</i> e can ensure that th	ng (.dxf or .dwg file) showing all fixtures such as lighting, sprinkling nese items will not intersect a panel joint or interfere with the concealed			
Accessories	Hanger Options	Choose from 12-gauge galvanized wire for concealed applications or decorative solutions for exposed applications including 18-gauge stainless steel wire or multi-stranded aircraft cable. See installation guide IC453 for options and applications.					
	Access Ports	designing spe	cial panels with acc	alled progressively and are not accessible. If required, our staff can assist in ess ports to meet your accessiblility needs. Provide an electronic drawing s) where access is needed.			
	Contact Name						
Utilities	Contact Phone Number						
	Project Name						

# **Application Details**

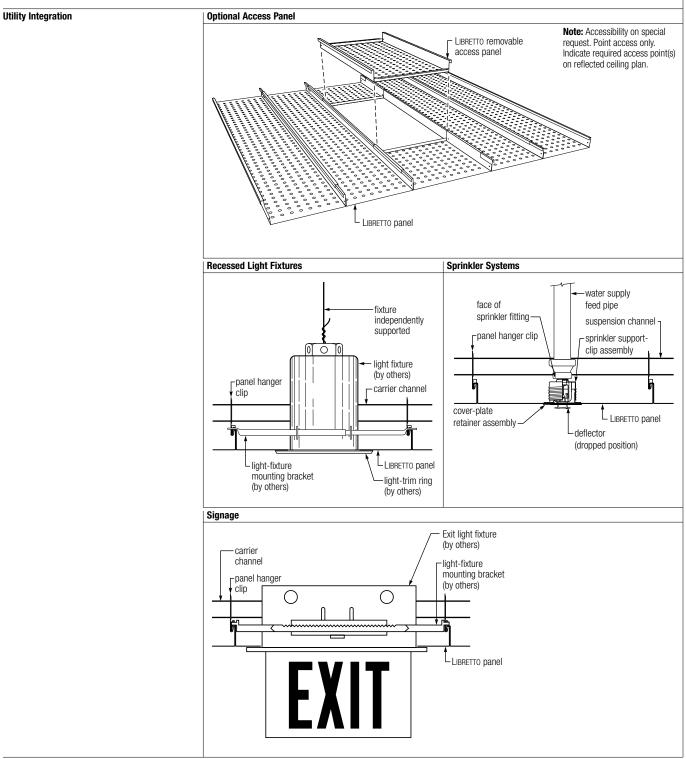




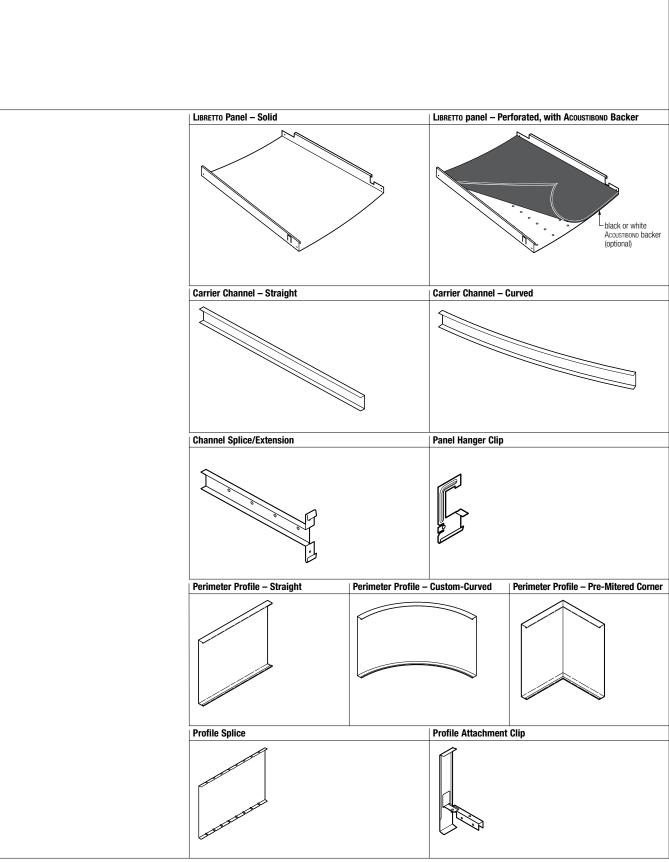


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# Application Details



# System Components

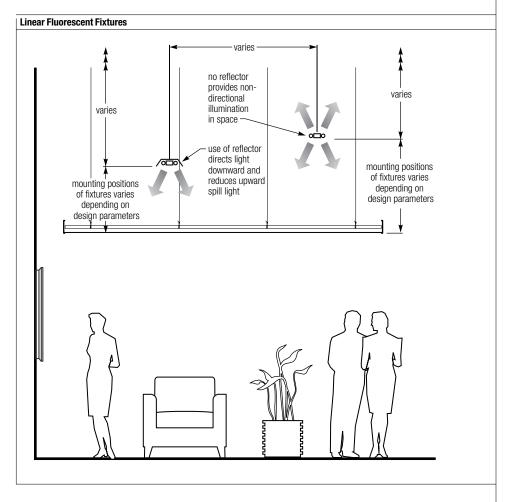


# Lighting

A LIBRETTO ceiling may be lighted in a variety of ways, creating effects that can showcase the unique qualities of the ceiling itself, highlight architectural details of the space, or play a central role in your design theme. Following is an overview of general lighting options. For specific concepts developed by an independent lighting design consultancy, see USG design guide IC533.

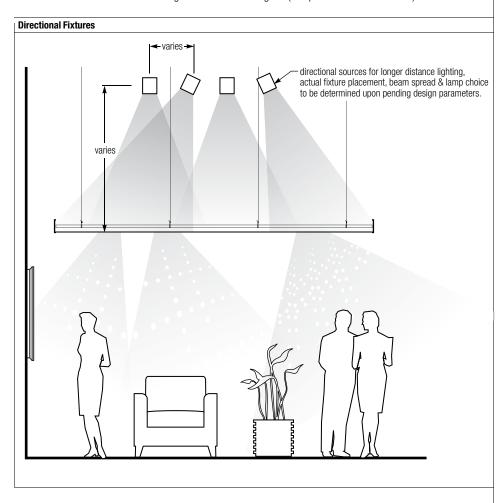
#### **Backlighting**

Fluorescent fixtures with no reflector provide non-directional illumination in space. Use of fixtures with a reflector directs light downward and reduces upward spill light.



#### Backlighting

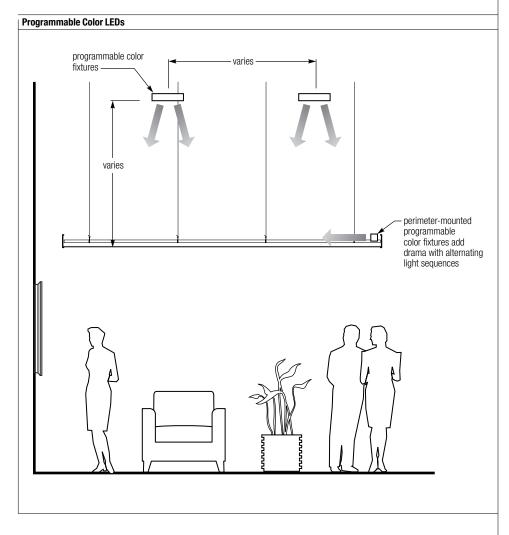
Where Acoustibond backer is not selected, the perforation pattern can be projected on walls and floors of the space. White Acoustibond backer will diffuse light to create an even glow. (See photo on brochure cover.)



# Lighting

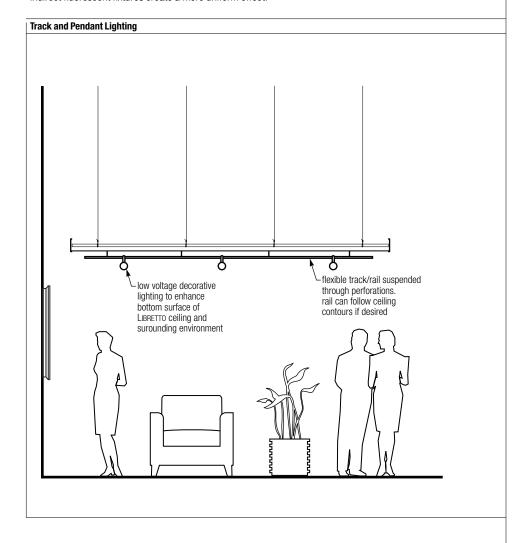
#### **Backlighting**

Programmable LEDs add an additional level of interest by allowing the opportunity to project the perforation pattern with changing colors.



#### **Uplighting**

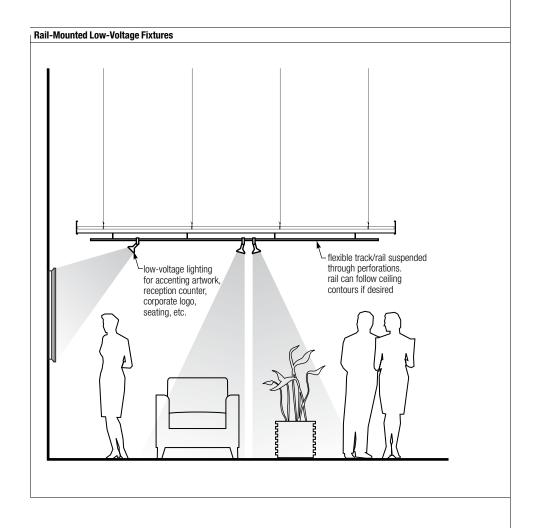
 $Low-voltage track\ lighting\ can\ be\ attached\ to\ the\ L_{IBRETTO}\ ceiling\ surface\ for\ dramatic\ uplighting.\ Pendant-style$ indirect fluorescent fixtures create a more uniform effect.



# Lighting

#### **Accent Lighting**

Highlight specific features within a space, and provide effective task lighting in seating areas and workstations.



# Application Guide Specifications

#### Part 1 Description of Work: Work of this Section includes, but is not limited to, the following: Summary General 1. Metal ceiling panels. **2.** Metal suspension systems. 3. Trim and accessories. See Section HVAC 1.2 Related work See Section Lighting specified elsewhere See Section 095100(09150) - Acoustical Ceilings 1.3 Product Data: Submit manufacturer's specifications and installation instructions with project conditions and Submittals materials clearly identified or detailed for each required system. ASTM C636: Recommended Practice for Installation of Metal Suspension System for Acoustical Tile and References Lay-in Panels. CISCA Ceiling Systems Installation Handbook Reference Standards 1.5 Quality assurance 1. SSMA ICBO ER-4943P Steel Stud Manufacturers Association Product Technical Information **2.** ASTM C636, Recommended Practice for Installation of Metal Suspension Systems. 3. CISCA Ceiling Systems Installation Handbook Submittals 1. Samples: Submit representative sample of color and finish for all exposed materials. **2.** Shop Drawings: a. Reflected ceiling plans: Submit ceiling suspension system layout indicating dimensions, lighting fixture locations, and related mechanical components. b. Assembly Drawings: Indicate installation details, accessory attachments and installation of related mechanical system components. 3. Manufacturer's Data: a. System Details: Submit manufacturer's catalogue cuts or standard drawing showing details of system with project conditions clearly identified and manufacturer's recommended installation instructions. Delivery: **Delivery, Storage** 1. Deliver Material to site promptly without undue exposure to weather. And Handling 2. Deliver in manufacturer's unopened containers or bundles, fully identified with name, brand, type and grade. 1. Promptly inspect delivered materials, file freight claims for damage during shipment, and order replacement materials as require. Any damaged materials shall be promptly removed from the job site. Storage: C. **1.** Store above ground in dry, ventilated space. **2.** Protect materials from soiling, rusting and damage. 1. Handle in a manner to ensure against racking, distortion or physical damage of any kind. **Environmental Requirements Project Conditions** 1. Do not install system or any parts until space is enclosed and weatherproof, wet-work is complete and dry, for occupancy.

# Application Guide Specifications

#### 1.8 Coordination With other work:

#### General

- Coordinate with other work including mechanical and electrical work and other trades. Installation of conduit
  and ductwork above the metal ceiling system shall be complete before installation of the metal ceiling system.
- B. Protection:
  - 1. Follow good safety and industrial hygiene practices during handling and installing of all products and systems, with personnel to take necessary precautions and wear appropriate personal protective equipment as needed. Read Material Safety Data Sheets and related literature for important information on products before installation. Contractor to be solely responsible for all personal safety issues during and subsequent to installation; architect, specifier, owner and manufacturer will rely on contractor's performance in such regard.

#### Part 2: Materials:

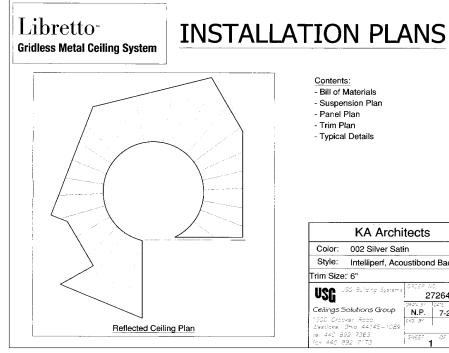
#### 1.1 Materials

#### A. LIBRETTO metal ceiling panels:

- **1.** Manufactured by USG Interiors, Chicago, IL, USA, in compliance with applicable ASTM & Industry Standards. Designed to be installed with LIBRETTO Suspension System.
- 2. Panel finishes shall be painted in color/finish# \*Refer to page 17 for finish availability.
- **3**. Perforation patterns.
  - **a.** For contoured pattern: Perforation pattern shall converge and diverge as necessary to follow the shape specified on the architectural plans. Variable pattern shall consist of [size & shape] perforations and minimum spacing [B dimension] x [C dimension] and [D dimension] border. [Delete if not used]. \*Refer to page 12 for available hole shapes and sizes.
  - **b.** For custom graphic: Perforation plan shall be a custom design in accordance with architectural plans [Delete if not used]. \*Refer to page 12 for available hole shapes and sizes.
  - **c.** For standard pattern: Perforation pattern shall be USG standard [pattern]with [width] panel border [Delete if not used]. \*Refer to page 14 for Standard Perforation patterns.
- 4. Panels shall have factory-applied [black] [white] acoustical backer. USG Acoustibond or equivalent.
- **B.** LIBRETTO carrier system:
  - **1.** Manufactured by USG (United States Gypsum Company, USG Interiors), Chicago, IL, USA, in compliance with applicable Industry Standards.
  - 2. 1-1/2 inch cold-rolled U-channel, 16-gauge, commercial quality, hot-dipped galvanized. All parts factory-curved and factory-cut to final dimensions as required for installation.
  - Carrier channels: Channel splices, channel extensions, and panel hangers of commercial-quality cold-rolled steel, exposed surfaces hot-dipped galvanized.
- **c.** Accessories: [Delete this section when not used]
  - **a.** Panels with cutouts: For incandescent lights, sprinklers, or speakers in accordance with architectural plans.
  - **b.** Panels with access ports in accordance with architectural plans.
  - **c.** Hanger wire note to specifier: Common installation practice for suspended systems would be the use of 12-ga. steel hanger wire. Alternative decorative 18-ga or stainless cables can be substituted with local authorities' approval.
- **D.** LIBRETTO perimeter profile:
  - Manufactured by USG (United States Gypsum Company, USG Interiors), Chicago, IL, USA, in compliance with applicable ASTM Standards. Design to be installed on LIBRETTO metal ceiling panels.
  - Custom-engineered, roll-formed trim channels of commercial-quality steel. All parts factory-curved and factorycut to final dimensions as required for installation.
  - 3. Profile size: [4-inch] [6-inch] [8-inch] high with 9/16-inch horizontal legs.
  - **4.** Profile finishes shall be painted in color/finish# \*Refer to page 17 for finish availability.
  - 5. Profile attachment clips of commercial-quality cold-rolled steel, exposed surfaces hot-dipped galvanized.
  - **6.** Profile splices of commercial-quality cold-rolled steel in finish to match Libretto perimeter profile; formed for snap-fit into Libretto perimeter profile.

Part 3: Execution	3.1 General	<ul><li>A. Standard for ceiling suspension system installations: Comply with ASTM C636.</li><li>B. CISCA Ceilings Systems Handbook.</li></ul>
	3.2 Inspection	<b>A.</b> Examine areas to receive ceiling panels for conditions that will adversely affect installation. Provide written report of discrepancies.
		<b>B.</b> Do not start work until unsatisfactory conditions are corrected.
		<b>c.</b> Work to be concealed: Verify work above ceiling is complete and installed in manner that will not affect layout and installation of ceiling panels.
		<b>D.</b> Beginning of installation shall signify acceptance of conditions in areas to receive ceiling panels.
	3.3 Preparation	A. Field dimensions must be verified prior to installation.
	3.4 Installation	A. Standard reference: Install ceiling panels and suspension system, including necessary hangers, grillage, and other supporting hardware in accordance with ASTM C636, CISCA Ceiling Systems Handbook, any applicable code requirement, and manufacturer recommendations.
		B. Hanger Wires:
		Spacing: Space hanger wires on the suspension channels not more than 48 inches o.c.      Limitations: Attach hanger vive disastly to the attracture, as required to support the improved leads.
		<ol><li>Limitations: Attach hanger wires directly to the structure, as required to support the imposed loads.</li><li>Do not support wires from mechanical and/or electrical equipment, piping or other equipment occurring above ceiling.</li></ol>
		<b>c.</b> Libretto carrier system
		Hang suspension channels by hanger wires in accordance with shop drawings.
		2. Connect sections of suspension channels by applying channel splices with self-drilling sheet metal screws.
		3. Apply channel extensions to the ends of the suspension channels with self-drilling sheet-metal screws.
		<b>D.</b> Libretto panels.
		1. Install panels progressively in accordance with shop drawings.
		2. Suspend panels from panel hanger clips.
		3. Interlock adjacent panels along the factory formed standing seam edges per manufacturer's recommendations.
		E. Libretto perimeter profile.
		1. Apply profile attachment clips to the ends of LIBRETTO panels per manufacturer's recommendations.
		2. Profile attachment clips shall be spaced between 18 to 36 inches on center.
		<ol> <li>Install profile components progressively in accordance with shop drawings and manufacturer's recommendations.</li> </ol>
		4. Connect sections of perimeter profile by snapping together with trim splices per manufacturer's
		recommendations.
	3.5	A. Perform any necessary cleaning maintenance with non-solvent-based commercial cleaner.
	Cleaning	B. Immediately remove any corrosive substances or chemicals that would attack painted finishes (i.e. wallpaper adhesives).
		<b>c.</b> Touch up all minor scratches and spots, as acceptable, or replace damaged sections when touch-up is not permitted.
		<b>D.</b> Repainting of components shall be with a high-quality solvent-based enamel paint and applied as
		recommended by paint manufacturer. <b>E.</b> Removal of debris: Remove all debris resulting from work of this section.
		L. Homoval of debits. Hemove all debits resulting from Work of this section.

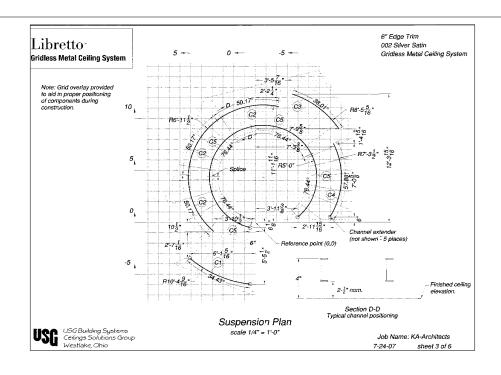
### **Head First**

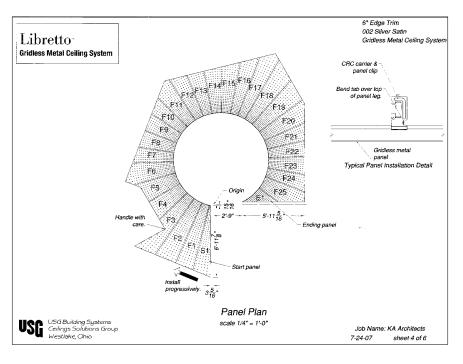


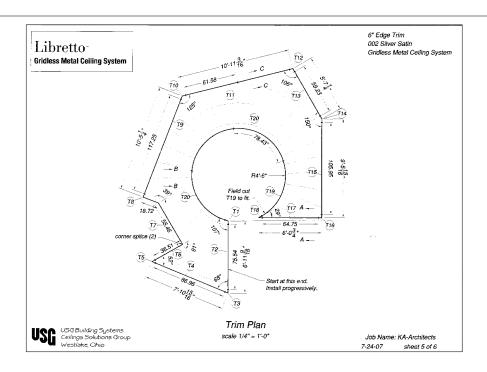
- Contents:
- Bill of Materials
- Suspension Plan Panel Plan
- Trim Plan
- Typical Details

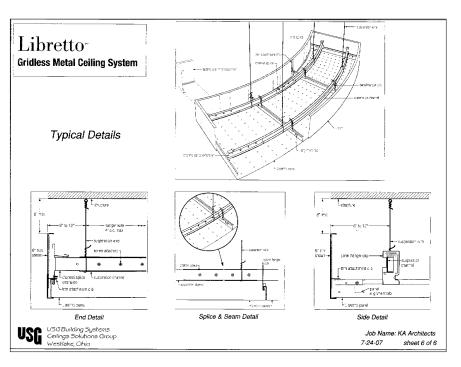
KA Architects								
Color:	Color: 002 Silver Satin							
Style:	Intelliperf, Aco	ustibon	d Backer					
Trim Size: 6"								
USG Building Systems CRIEF NO. 272647								
	oolutions Group	N.P.	7-24-07					
1986 Ores Westlake. te. 440 ā	Ohio 44145-1689	sks. av						
for 440 8		3466	. <i>○F</i> &					

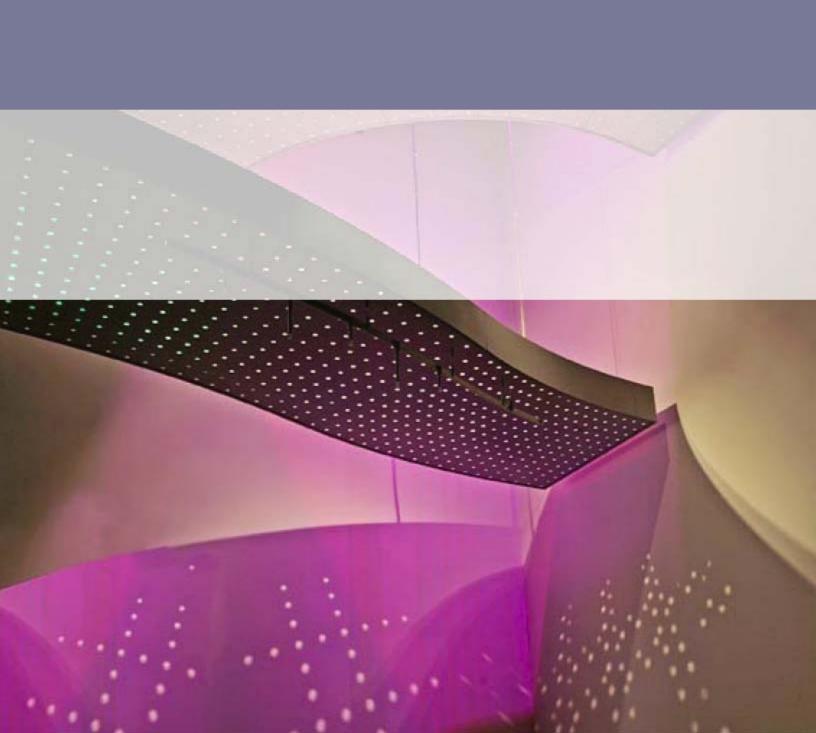
		BILL OF MATERIAL		w.o.	67725	5			
PART NO	ART NO DESCRIPTION		FINISH	OTY	ova	TOTAL	arc length	chord ht	ch length
	ĺ	SUSPENSION CHANNELS		1					
60010158	C1	R124.54" x 34.43" curved channel (QS)	mill	1		1 1	74.84	5.58	73.72
60010158	C2	R83.52" x 50.17° curved channel (OS)		3		3	73.13	7.88	70.82
60010158	СЗ	R101.32" x 38.01° curved channel (QS)	•	1		1	67.22	5.52	65.99
60010158	Ċ4	R87.52" x 57.88° curved channel (QS)		1		1	88.41	10.93	84.70
60010158	C5	R60.00" x 76.44" curved channel (QS)		4		4	80.05	12.86	74.24
	1	PANELS							
	S1	Start panel	Silver Satin	1		1			
	F	Field panel (F1-F25)		25		25			
	E1	End panel	-	1		1			
		Acoustibond backer (factory applied)	White	165		165			
		Intelliperf treatment (factory applied)		165		165			
		EDGE TRIM							
	T1	107° corner	Silver Satin	1		1			
	T2	75.54" straight		1					
	Т3	68° corner		1		1		-	
	T4	86.96" straight	-	1					
	T5	52° corner		1		1			
	Т6	36.51" straight w/ 45.5" miter		1		1			****
45.5°, 19.5°	T7	55.46" straight w/ dbl miter				1			
		90° corner 4"x18.72" w/mtr		1		1	-	i	
	Т9	117.25" straight		1		1			•
		125° corner		1					
		61.58" straight		2		2			
		106° corner		1		1			
		59,23" straight		1		;			
	- 1	150" corner		1					
+					}	1			
		105.95" straight 90" corner		1		1			
		64.75" straight		1	-	1	1	Î	
	- 1			1	- 1	1			
		29° corner		1.	- 1	1			
		R54.00" x 80.55° inside curve		1.	- 1	1	75.92	12.80	69.82
-	120	R54.00" x 78.43" inside curve		3		3	73.92	12.16	68.28
60010154		T			_			QUA	NTITIES
	- 1	Trim attachment clip 6" trim	mill "	52	5	57			im 62 In ft
60010156		Panel hanger clip		50	5	55		curved tri	n 25 in ft
60010157		Channel splice/extension		10	1	11		comurs	11 pcs
60004353	- 1	Trim splice 6" trim	Silver Satin	21	2	23		panels	165 sq ft
60010368		Corner splice "		2	1	3		nunp.	165 sq ft

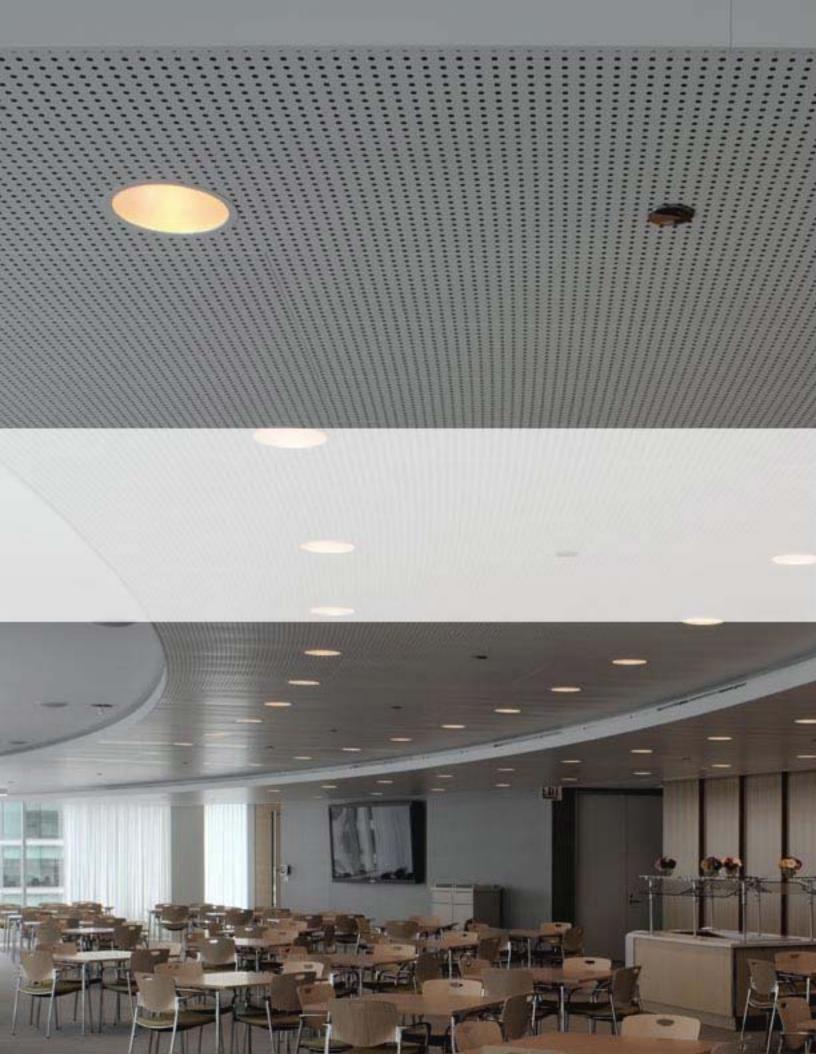




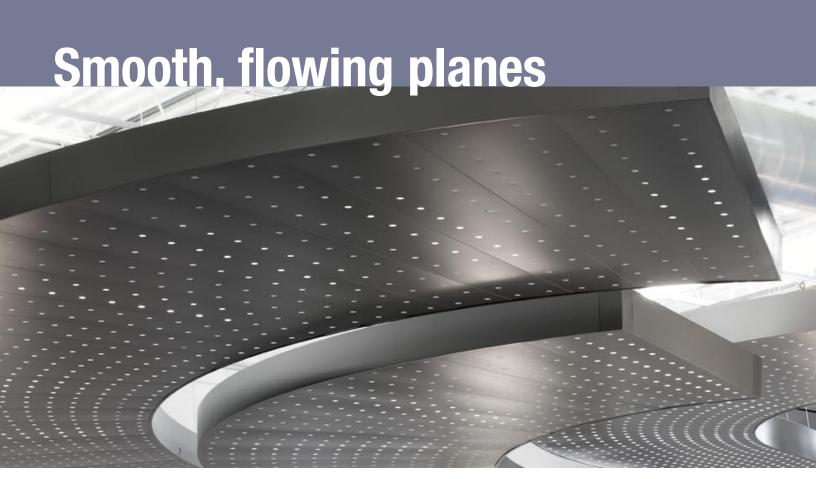














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