CITY AND BOROUGH OF JUNEAU
ALASKA'S CAPITAL CITY

ADDENDUM TO THE CONTRACT

for the

JNU FIRE ALARM UPGRADE
Contract No. BE21-159

ADDENDUM NO.: **FOUR**

CURRENT DEADLINE FOR BIDS:
March 16, 2021

PREVIOUS ADDENDA: **THREE**

ISSUED BY:
City and Borough of Juneau
ENGINEERING DEPARTMENT
155 South Seward Street
Juneau, Alaska 99801

DATE ADDENDUM ISSUED: **March 10, 2021**

The following items of the contract are modified as herein indicated. All other items remain the same. This addendum has been issued and is posted online. Please refer to the CBJ Engineering Contracts Division webpage at: http://www.juneau.org/engineering-public-works

INFORMATION ITEM:

- Copies of the approved acoustical ceiling tile submittal data, a copy of the as-built finish schedule, a copy of the first and second floor plans from the previous JNU terminal renovation project, and information pertaining to the acoustic ceiling tiles that are going to be installed on the current Terminal Reconstruction project are attached.

CLARIFICATIONS:

- Per Specification section 284700 MASS NOTIFICATION, 1.8 Quality Assurance, B Installer Qualifications and per Specification section 284621.11 ADDRESSABLE FIRE-ALARM SYSTEMS, 1.8 Quality Assurance, B, 2 " Installation must be by personnel certified by NICET as fire-alarm Level III technician."

- As part of the North Terminal Construction Project, New PA system scope for the north terminal in its entirety is deleted, leave in conduits and junction boxes. These documents are furnished for coordination purposes as part of the Addendum 2.

- As part of the North Terminal Construction Project, existing Fire Alarm System for the entire terminal Building will be tested and documented. If any locations to remain outside of the current North Terminal Project that do not presently have coverage will be corrected to restore service as appropriate.

QUESTIONS:

Question: *"Sheet E4.2 drawing appears to be instructing the Contractor to install a new fire alarm strobe above an existing manual fire alarm pull statin on the wall that is located between Lobby 110 and Vestibule 101. There is no existing manual pull station at this location."*

Response: Reference Clarifications with this Addendum. Pull station will be installed during the Phase 2C part of the North Terminal Construction Project.

Question: *"Sheet E4.2 the existing fire detection and activation devices that are located within the ATCT, south of Match line E4.4 appear to be very old, and part of the ATCT fire alarm system. Clarify whether these devices are to be addressed in any way as part of the Fire Alarm Upgrade project."*

Response: All existing fire alarm devices in the Terminal building shall be incorporated into the new Fire Alarm System.

Question: *"Sheet E4.2 The drawing does not show any fire alarm interconnection to the existing coiling shutter assembly where the baggage conveyor passes through the wall between Alaska Air ticketing area and the TSA screening 112. Is an interconnection needed?"*

Response: Yes if it is a fire rated wall and door.

Question: *"Sheet E4.3 Accessing the existing speakers that have been installed with the hard (gypsum board) ceiling located above Visitor Gathering 119. How is access to be achieved?"*

Response: There are access doors within the ceiling assembly. It not known if there is adequate space above the ceiling to allow access to each speaker location. Reference Drawing sheet E4.0 Project Notes.

Question: *"The hanging bird artwork will prevent the use of a man-lift to access the speakers. Who is to temporarily remove the birds if needed to facilitate this work?"*

Response: Contractor.

Question: *"Can the Contractor cordon off a temporary work area?"*

Response: Yes. Per 01 5000, 3.4, B.

Question: *"Would JNU consider abandoning the existing speakers in place if the Contractor could introduce an LRD the speaker system that would eliminate the need for multiple ceiling mounted speakers?"*

Response: Per the notes on the drawing sheets existing public address speakers will replaced with fire alarm rated mass notification devices. Specific products will be reviewed and approved during submittal process.

Question: *"Sheet E4.3 There is currently no fire alarm detection device located in the small Alaska Airlines comm room. Does this room need a detector?"*

Response: Provide a fire alarm detection device if required per code.

Question: *"Sheet E4.4 There is an existing smoke detector located on the underside of the stair assembly in Stair 131. There is also a pull station located to the right of the door that is located on the north wall of Stair 131. Clarify whether these devices are to be addressed in anyway as part of the Fire Alarm Upgrade project."*

Response: Devices are that are part of the FAA Tower Fire Alarm System shall not be incorporated into the Terminal Fire Alarm System.

Question: *"Sheet E4.4 Clarify whether the manual pull station and horn/strobe in storage 130 is to be addressed in any way as part of the Fire Alarm Upgrade project. These devices look old – any may be part of the ATCT fire alarm system."*

Response: All existing fire alarm devices in the Terminal building shall be incorporated into the new Fire Alarm System.

Question: *"Sheet E4.4 the existing manual pull station shown on the north wall of the boiler room has been disassembled as I currently non-functional. This raises the concern that this pull station is no longer interconnected to the FACP system. Provide direction to investigate and repair as necessary."*

Response: Reference to Clarification in this Addendum. All existing fire alarm devices in the Terminal building shall be incorporated into the new Fire Alarm System.

Question: *"Sheet E4.4 Drawing does not show the addition of the temporary build-out within the northwest corner of the bagwell. The existing exterior door shown on Sheet E4.4 is to remain. If there is not an existing pull station this location, should there be?"*

Response: Provide a manual pull station device if required per code.

Question: *"Sheet E4.4 Are there no existing fire detection or alarm components in the old Gate 1 stair that is located to the west of the boiler room?"*

Response: Reference Drawing Sheet E4.0 Project Note 2.

Question: *"Sheet E4.6 Are there no existing fire detection or alarm components in the old Gate 1 stair that is located to the west of Departure Lounge 212?"*

Response: Reference Drawing Sheet E4.0 Project Note 2.

Question: *"Sheet E4.7 An existing ceiling mounted smoke detector was observed in the under-stair comm room off of second floor Hall 214. This detector was "chirping" as if it were running low on battery power?"*

Response: Reference to Clarification in this Addendum. All existing fire alarm devices in the Terminal building shall be incorporated into the new Fire Alarm System.

Question: *"On Sheets E-1B411 through E-1B422 note 5 is removing speakers from the notification system and reducing the audibility and intelligibility of the system. Can you clarify that these speakers will be removed from the design?"*

Response: Reference Clarification in this Addendum.

Question: *"It is suggested that an NFPA 72 compliant intelligibility sound modeling is done after the bid to determine whether the approved design as a whole will be intelligible, with subsequent adjustments to devices counts and locations allowed. Is this acceptable? Please clarify your reference to 284700-16, it not found."*

Response: Yes. Reference Specification section 284700. There is no Specification section 284700-16.

Question: *"Magnetically Held Doors, I was referring to doors held open that should close in a fire alarm. Are there any of these in the system?"*

Response: Magnetically Held Doors are not presently in the existing Terminal Building Fire Alarm shop drawings. Reference Drawing Sheet E4.0 Project Note 2.

Question: "Is it understood that all system devices are to be replaced, as they are no longer compatible?"

Response: If it is impossible to incorporate existing devices into the new Fire Alarm System then non compatible devices shall be replaced as needed to comply with code. It is contractors' responsibility to provide devices that ensure compatibility.

Question: *"In discussion with the customer during the pre-bid, it was understood that the fire alarm speakers would replace the paging speakers, and the fire alarm microphone and its emergency messages would accomplish the desired evacuation and notification requirements. The other advanced NFPA compliant "Mass Notification" type requirements (using a GUI, capable of 500 users, change audit trail, capable of 100 simultaneous unique messages to phones, capable of two-way communication, etc) were understood to be above the customer's desire. Mass notification systems are a discrete, complicated system that are sometimes integrated into a fire alarm. Shall the "Mass Notification" spec be retained in light of this?"*

Response: Reference Project Manual Item No. 1, Item No. 2, Item No. 3, and Item No. 4 in this Addendum.

Question: *"No risk analysis appears to be performed per NFPA 72 24.3.12 or Emergency Response plan per 24.3.13 – these are elements that an owner and engineer develop as part of a MNS design. From that plan, the MNS sequence of operations and integration functions of the two systems are created. Please clarify the type and sequence of operations of the two systems and how they are intended to integrate. B. In Spec section 284700, 2.1, C, 2."*

Response: Reference Project Manual Item No. 1, Item No. 2, Item No. 3 and Item No. 4 in this Addendum.

Question: *"It appears that these items are dedicated to the MNS, and not part of the fire alarm, which would create redundant systems. Please provide info pertaining to 2013 NFPA72 24.4.3.22.1 outlining the interconnection between FAS and MNS and the desired functions/sequence of operations."*

Response: Reference Project Manual Item No. 1, Item No. 2, Item No. 3 and Item No. 4 in this Addendum.

Question: *"In Spec section 284700, 2.1, C, 2, D,1 please outline requirements for two-way communication."*

Response: Reference Project Manual Item No. 1, Item No. 2, Item No. 3 and Item No. 4 in this Addendum.

Question: *"Where shall the head end of the MNS system be located? Shall the contractor provide a rack?"*

Response: No. Existing relay rack located in front of the existing Fire Alarm control panel has 3 to 5 feet of available space.

Question: *"Shall the contractor provide the physical server to run the MNS, or will the customer provide a space on a virtual server? If so, who will be responsible to set up/license the virtual server, and integrate either server into the greater CBJ/Airport network?"*

Response: Contractor responsible to provide server and integration/programming.

Question: *"Where shall the operator interfaces (computer and microphone interfaces) be located?"*

Response: North Terminal Room 262 Maintenance.

Question: *"Simplex does not manufacture a discrete Mass Notification System capable of the listed functions, what is the basis of design for the MNS such that we can find an 'equal'?"*

Response: Manufacturers other than Simplex, if the devices comply with project specifications and comply with code requirements. A suggested manufacturer is Edwards.

Question: *"Vestibule pull stations on the first floor are shown too far from the path of egress per NFPA 72. How/where shall they be mounted as they are on slate tile?"*

Response: Fire Alarm pull station maybe installed on interior walls or columns. Coordinate final location with owner.

Question: *"The pull station in the mechanical room was activated, with no alarm/trouble in the system. This creates questions about the viability of the existing wire in the system. Should this project be specified to be all new wire?"*

Response: Existing fire alarm circuits shall remain per Drawing Sheet E4.0 Project notes: 9. Sequence of work note F. Reference Clarification in this Addendum.

Question: *"Addendum 2 removes the requirement for addressable notification devices. The one-line paging drawing shows only 4 zones (first, second, north, outdoor) so all pages will go to all speakers IF they are not addressable. Every office, FAA, TSA, will receive every boarding call, etc.. Is this desired? Addressable notification is not limited to Simplex products. Audio can be directed to any group of speakers with addressable."*

Response: No. Addendum 2 does not remove the requirement for Addressable notification devices. Reference Drawing Sheet E4.0 Project Notes: 1. With Addendum 2 documents furnished to assist the Bidder/Contractors' coordination efforts including North Terminal project. Reference Clarifications in this Addendum. Specific questions regarding zones and office spaces can coordinated with owner and engineer during the submittal process.

Question: *"The existing speaker wire is not "executed in a workmanlike manner" to use an NEC term. Shall we replace the wire, clean up the space and properly secure and route the new wire?"*

Response: Yes. Reference Specification section 284621.11 Addressable Fire – Alarm System.

Question: *"Is the above ceiling space in the existing side considered "plenum"? Shall we use plenum rated wire?"*

Response: Yes. Reference Specification section 284621.11 Addressable Fire – Alarm System. Reference Drawing Sheet E4.0 Project Notes.

Question: *"Shall a smoke detector be added to the Alaska Airlines IT room on E4.4?"*

Response: Yes. Reference Drawing Sheet E4.0 Project Notes.

Question: *"Wireless smoke detectors were observed, shall they be replaced with hardwired units?"*

Response: Yes.

PROJECT MANUAL:

Item No. 1 SECTION 284700 – MASS NOTIFICATION, PART 2 – PRODUCTS, Article 2.1 – MASS NOTIFICATION SYSTEM (MNS), Paragraph C – Performance Criteria, Subparagraph 2 – General Characteristics, Subsubparagraph d – MNS messaging system must be capable of the following, Subsubsubparagraph 1.
Delete "1) Communicating through use of wired networks for one-or two-way communications and control between a building or area and emergency personnel."

Item No. 2 SECTION 284700 – MASS NOTIFICATION, PART 2 – PRODUCTS, Article 2.1 – MASS NOTIFICATION SYSTEM (MNS), Paragraph C – Performance Criteria, Subparagraph 2 – General Characteristics, Subsubparagraph d – MNS messaging system must be capable of the following, subsubsubparagraph 2, subsubsubsubparagraph b.
Delete "b) Audio alerts to phones."

Item No. 3 SECTION 284700 – MASS NOTIFICATION, PART 2 – PRODUCTS, Article 2.2 – AUTONOMOUS CONTROL UNITS (ACUs), Paragraph A – Performance Criteria, Subparagraph 2 – General Characteristics, subsubparapgraph k.
Delete "k. Capable of no fewer than 500 users, with each user having its own log-in and password credentials and no fewer than four contact methods."

Item No. 4 SECTION 284700 – MASS NOTIFICATION, PART 2 – PRODUCTS, Article 2.2 – AUTONOMOUS CONTROL UNITS (ACUs), Paragraph A – Performance Criteria, Subparagraph 2 – General Characteristics, subsubparapgraph l.
Delete "l. Capable of storing users in one or multiple groups and cable to create a minimum of 10 groups."

By: _____
Greg Smith,
Contract Administrator

Total number of pages contained within this Addendum: 94

Submittal Transmittal

PROJECT TITLE: JIA
SUBMITTAL DESCRIPTION: 9511

OFFICE
P.O. Box 718
Sitka, Alaska 99835

PHONE
907-747-3650

FAX
907-738-3828

EMAIL
chad@mccalaska.com

WEB
www.mccalaska.com

DATE
Monday, November 30, 2009

FROM
Chad McGraw
McGraw's Custom Construction
P.O. Box 718
Sitka, Alaska 99835

TO
Dan Fabrello
Jensen Yorba Lott, Inc.
522 West 10th Street
Juneau, AK 99801

SPECIFICATION SECTION	SUBMITTAL REVISION	DUE DATE
9511	1	ASAP

SPEC SECTION	SUB SECTION	REV	DESCRIPTION
9511			Acoustical Panel Ceiling Resubmittal

☐ CONFORMS TO DESIGN CONCEPT
☒ CONFORMS TO DESIGN CONCEPT WITH REVISIONS AS SHOWN
☐ NON-CONFORMING, REVISE & RE-SUBMIT

This shop drawing has been reviewed for general conformance with design concept only and does not relieve the fabricator of responsibility for conformance with design drawings and specifications all of which have priority over this shop drawing.

BY _____

DATE 11-30-09

JENSEN YORBA LOTT, INC.
JUNEAU, ALASKA

*Provide the Optima Vector 2x2 panel, item #3901 circled in the attached submittal.

CONTRACTORS REVIEW

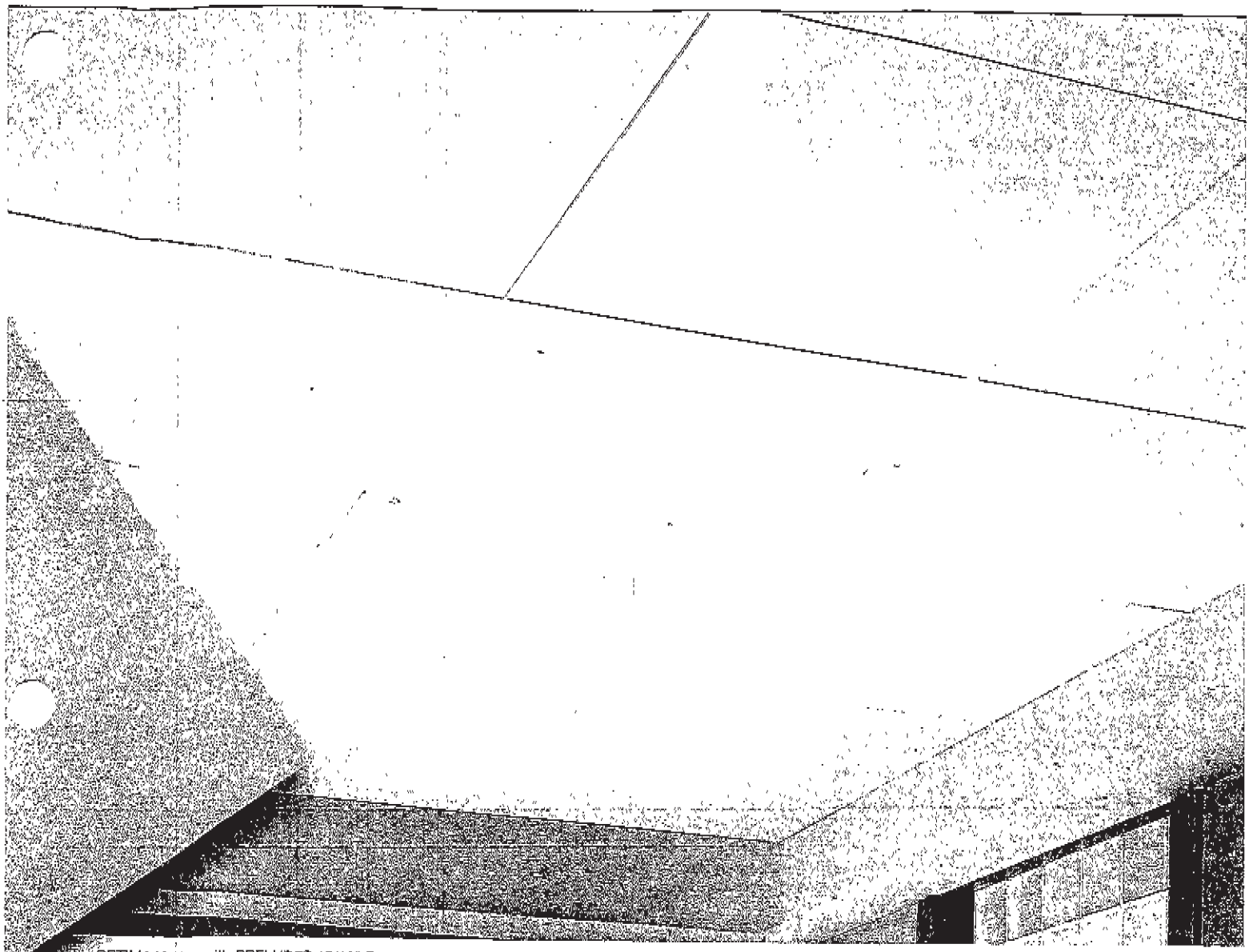
No Exceptions Taken_____ Note Markings_____ Resubmit___

Contractors review is for general conformance with the design concept and contract documents. Marking or comments shall not be construed as relieving the subcontractor/supplier from compliance with the project plans and specifications, nor departures therefrom. The subcontractor/supplier remains responsible for details and accuracy, for confirming and correlating all quantities and dimensions, for selecting fabrication process, for techniques of assembly, and for performing his work in a safe manner.

_____ _____
CONTRACTORS SIGNATURE **DATE**

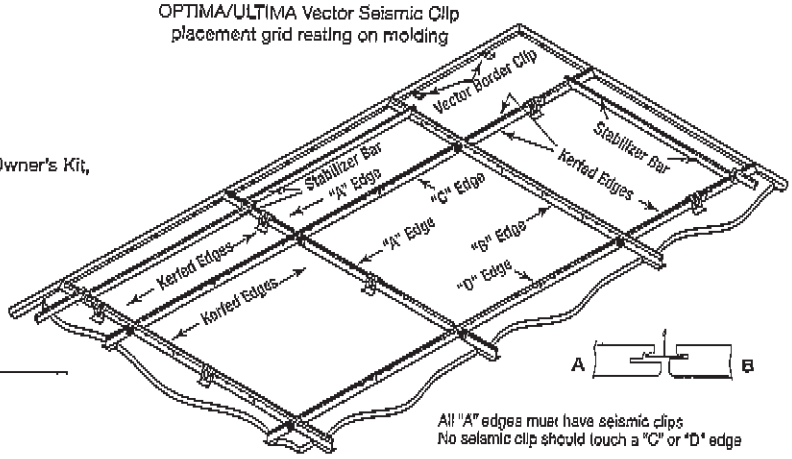
REMARKS

OPTIMA® Open Plan
Vector™
fine texture



OPTIMA Vector with PRELUDE® 15/16" Exposed Tee grid; AXIOM®-Classic Trim; Drywall Grid Soffit

OPTIMA/ULTIMA Vector Seismic Clip placement grid resting on molding



All "A" edges must have seismic clips
No seismic clip should touch a "C" or "D" edge

Building owners/facility managers:
Call 1 877 ARMSTRONG for OPTIMA/ULTIMA Vector Building Owner's Kit, CS-3398 (post-installation care and information)

For Contractors
Call 1 877 ARMSTRONG for Vector Contractor's Kit, CS-3562 (installation tips and instructions)

Detail and Grid Intersections

OPTIMA Vector

OPTIMA Vector with PRELUDE 15/16" Exposed Tee grid

OPTIMA Vector with light trim

Armstrong®

OPTIMA® Open Plan
Vector™
fine texture

Recycled Content: 70-75%
Contact TechLine℠ for LEED information. 1-877-ARMSTRONG

LEED Credits

Energy	Waste Mgmt	Recycled Content	Local Materials	Renewable Materials	Low-Emitting Materials	Daylight & Views
✓	✓	✓	✓+		✓	✓

+ Credit is location dependent.

Key Selection Attributes

- 1/4" reveal resulting in a monolithic appearance
- Downward accessible for minimal plenum height
- 30-Year Limited System Warranty against visible sag, mold/mildew and bacterial growth
- Smooth, clean durable finish – Washable, Scratch-resistant, Soil-resistant
- Energy-saving high light-reflective finish
- Provides monolithic visual

Typical Applications

$$$$$

- Open plan offices
- Lobbies (walls-to-deck)
- Corridors (walls-to-deck)
- Areas with limited plenum depth
- Areas with indirect lighting systems
- Open plenum areas (in acoustical custom clouds) 2' x 2' panels only

Color

White (WH)

Visual Selection

Performance Selection
Dots represent highest level of performance.

30 YEAR PERFORMANCE GUARANTEE

Grid Face	Edge Profile	Item Number	Dimensions	UL Classified Acoustics NRC	AC	CAC	Fire Rating	Light Reflect	Sag Resist	Anti-Microbial	VOC Formaldehyde	Recycling Program	Durable: Wash	Scratch	Soil
OPTIMA Vector†															
15/16" (only)	Vector	3900	2' x 2' x 7/8"	0.90	190	N/A	Class A	0.90	HumiGuard+	Inherent	Low	Yes	●	●	●
		3901*	2' x 2' x 7/8"	0.80	190	26	Class A	0.90			Low	–	●	●	●
		3902	1' x 2' x 7/8"	N/A	N/A	N/A	Class A	0.90			Low		●	●	●
		3903*	1' x 2' x 7/8"	N/A	N/A	26	Class A	0.90			Low	–	●	●	●
		3908	2' x 4' x 7/8"	0.90	190	N/A	Class A	0.90			Low		●	●	●
		3904	30" x 30" x 7/8"	0.90	190	N/A	Class A	0.90			Low		●	●	●
		3905*	30" x 30" x 7/8"	0.80	190	26	Class A	0.90			Low	–	●	●	●

* CAC backing (not recyclable) Note Application Considerations below.
† U.S. Patents 6,103,360; 6,230,463
CAC backing available on all panels as a special order

Accessories (ordered separately)

Item #		
441		Vector Border Clip (For installations with the grid resting on the wall molding) Primarily used for corners and special cutouts only
442		Vector Seismic Clip Recommended for installation in all seismic areas
7425		2' Stabilizer Bar
7445		4' Stabilizer Bar
7870		Spring Border Clip (For installations with the panel resting on the wall molding)

OPTIMA/ULTIMA Vector - FIXTURE TRIMS

Item #	Length	Color	Substrate
5790	1'	White	Extruded PVC
5791	2'	White	Extruded PVC
5792	30"	White	Extruded PVC
5793	4'	White	Extruded PVC

Physical Data

Material
3900, 3902, 3904, 3908 – Fiberglass with DuraBrite acoustically transparent membrane
3901, 3903, 3905 – Fiberglass with DuraBrite® acoustically transparent membrane; CAC backing

Surface Finish
DuraBrite with factory-applied acrylic latex paint

Fire Performance
ASTM E84 Class A: Flame Spread 25 or under (UL Labeled) per ASTM E1264

ASTM E1264 Classification
Type XII, Form 2, Pattern E

Sag Resistance
HumiGuard® Plus – superior resistance to sagging in high humidity conditions up to, but not including, standing water and outdoor applications.

Low Formaldehyde
Low Formaldehyde – contributing less than 13.5 ppb in typical conditions per ASHRAE Standard 62, "Ventilation for Acceptable Indoor Air Quality," California Code Title 24, and other building types in CHPS Section 01350.

Anti Mold/Mildew & Bacteria
Fiberglass substrate is inherently resistant to the growth of mold, mildew and bacteria.

Insulation Value
R Factor – 3.5 (BTU units)
R Factor – 0.62 (Watts units)

Backloading Recommendation
Backloading not recommended

Weight; Square Feet/Carton
3900, 3901, 3902, 3903 – 0.58 lbs/SF; 48 SF/ctn
3904, 3905 – 0.59 lbs/SF; 75 SF/ctn
3908 – 0.56 lbs/SF; 96 SF/ctn

Application Considerations
Products with CAC backing are not recyclable.

Product is directional. 1' x 2' products are not intended for a full ceiling installation, and not UL Classified for acoustics.

Vector ceiling systems have been independent laboratory tested for seismic performance.

30-Year Performance Guarantee & Warranty Information
See warranty information at armstrong.com/ceilings

Recommended Suspension System

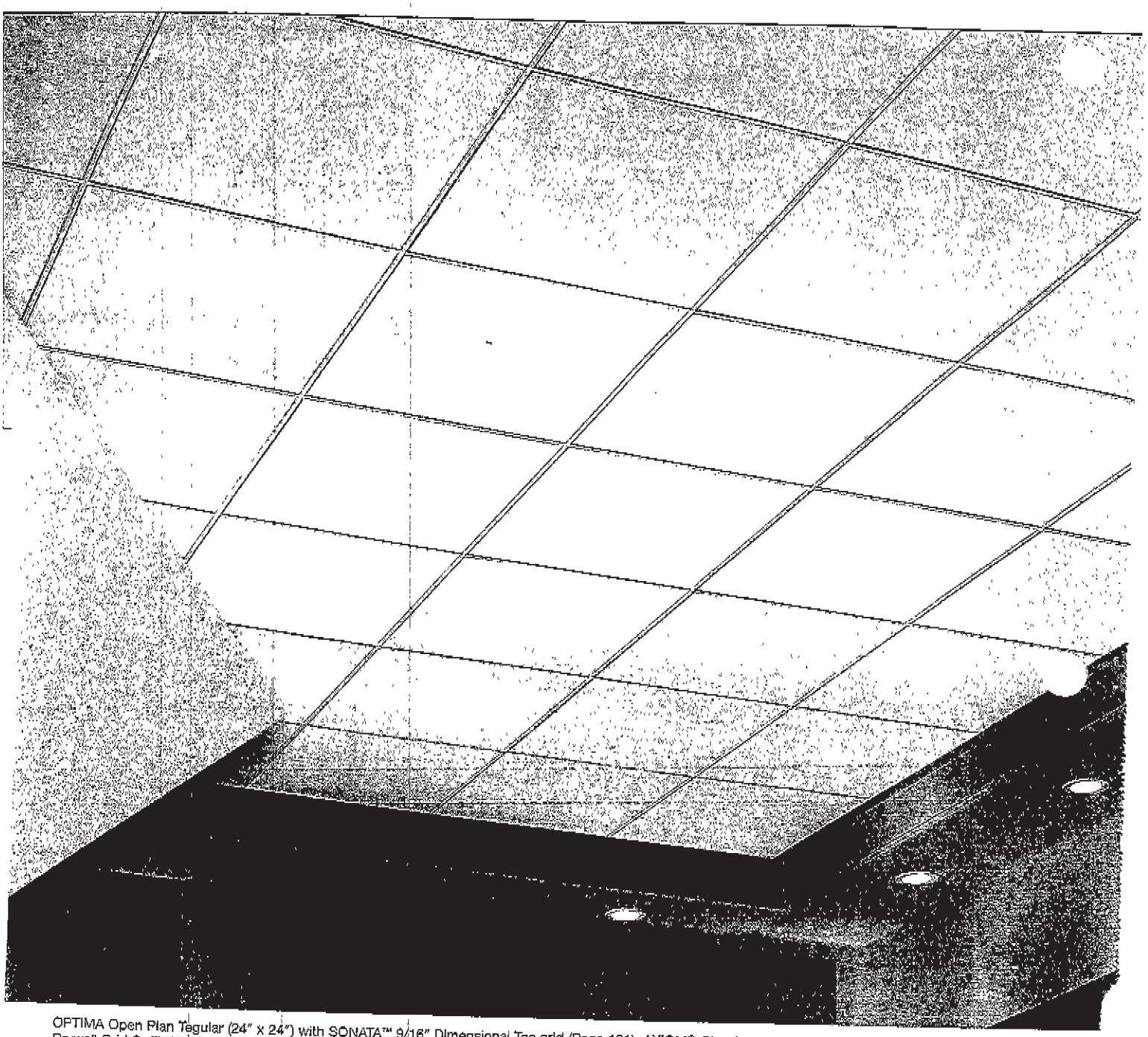
Items	Suspension System
3900, 3901, 3902 3903, 3904, 3905 3908	15/16" PRELUDE®

TechLine℠ / 1 877 ARMSTRONG
1 877 276 7876
armstrong.com/ceilings (search: optima)
CS-3663-1207

Armstrong

OPTIMA® Open Plan
Tegular
fine texture

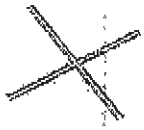
10-YEAR Availability Items 3250 & 3251



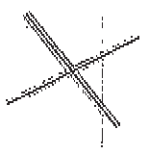
OPTIMA Open Plan Tegular (24" x 24") with SONATA™ 9/16" Dimensional Tee grid (Page 191); AXIOM®-Classic Perimeter Trim (Pg. 168); Drywall Grid Soffit (Pg. 208)

Detail and Grid Intersections

OPTIMA Open Plan Square Tegular



OPTIMA Open Plan Tegular with INTERLUDE XL 9/16" Dimensional Tee grid



OPTIMA Open Plan Tegular with SILHOUETTE 9/16" Bolt-Slot grid with 1/8" reveal

OPTIMA Open Plan Tegular with PRELUDE 15/16" Exposed Tee grid

OPTIMA® Open Plan

Tegular

fine texture

Recycled Content: 35%

Contact TechLine℠ for LEED Information. 1-877-ARMSTRONG

LEED Credits (pgs. 230-232)

Energy	Waste Mgmt	Recycled Content	Local Materials	Renewable Materials	Low-Emitting Materials	Daylight & Views
✓	✓	✓	✓ Pg. 231		✓	✓

Key Selection Attributes

- Outstanding acoustical performance for open plan areas, both Articulation Class (180-210) and NRC (0.90-1.00)
- Smooth, clean, durable finish – Washable, Impact-resistant, Scratch-resistant, Soil-resistant
- Energy-saving high light-reflective finish
- Non-directional visual reduces installation time and scrap
- Fiberglass substrate will resist mold/mildew and bacterial growth

30-Year System Performance Guarantee
Against Visible Sag
HumiGuard® Plus
Against Mold/Mildew & Bacterial Growth
Inherent

- Compatible with the TECHZONE™ Ceilings Organization System (Pgs. 142-147) Items 3250, 3251, 3252, 3255, 3257, 3258, 3259 only.

Typical Applications

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- Open Plan offices
- Computer rooms
- Corridors (walls-to-deck)
- Auditoriums
- Patient/exam rooms – assists in addressing HIPAA requirements (walls to deck) ★
- Areas with indirect lighting systems
- Open plenum areas (in acoustical custom clouds)

Color

White (WH)

Fiberglass

Visual Selection

Performance Selection

Dots represent highest level of performance.

Grid Face	Edge Profile	Item Number	Dimensions	UL Classified Acoustics NRC	AC	CAC	Fire Resist	Light Reflect	Sag Resist	Anti-Microbial	VOC Formaldehyde	Recycling Program	Durable
		Performance Attributes:	Pg. 241				Pg. 233	Pg. 225	Pg. 229	Pg. 233	Pg. 229	Pg. 221	Pg. 227
OPTIMA Open Plan Tegular†													
9/16"	Square Tegular	3251	2' x 2' x 1"	0.95	190	N/A	Class A	0.90	HumiGuard+	Inherent	Low	Yes	Wash, Impact, Scratch, Soil
		3355*	2' x 2' x 1"	0.90	200	26	Class A	0.90	HumiGuard+	Inherent	Low	–	Wash, Impact, Scratch, Soil
		3254	2' x 2' x 1-1/2"	1.00	200	N/A	Class A	0.90	HumiGuard+	Inherent	Low	Yes	Wash, Impact, Scratch, Soil
		3257	2' x 4' x 1"	0.95	190	N/A	Class A	0.90	HumiGuard+	Inherent	Low	Yes	Wash, Impact, Scratch, Soil
		3259	30" x 30" x 1"	0.95	190	N/A	Class A	0.90	HumiGuard+	Inherent	Low	Yes	Wash, Impact, Scratch, Soil
		3263	1' x 2' x 1"	N/A	N/A	N/A	Class A	0.90	HumiGuard+	Inherent	Low	Yes	Wash, Impact, Scratch, Soil
15/16"	Square Tegular	3250	2' x 2' x 1"	0.95	190	N/A	Class A	0.90	HumiGuard+	Inherent	Low	Yes	Wash, Impact, Scratch, Soil
		3354*	2' x 2' x 1"	0.90	200	26	Class A	0.90	HumiGuard+	Inherent	Low	–	Wash, Impact, Scratch, Soil
		3253	2' x 2' x 1-1/2"	1.00	200	N/A	Class A	0.90	HumiGuard+	Inherent	Low	Yes	Wash, Impact, Scratch, Soil
		3252	2' x 4' x 1"	0.95	190	N/A	Class A	0.90	HumiGuard+	Inherent	Low	Yes	Wash, Impact, Scratch, Soil
		3258	30" x 30" x 1"	0.95	190	N/A	Class A	0.90	HumiGuard+	Inherent	Low	Yes	Wash, Impact, Scratch, Soil
		3264	1' x 2' x 1"	N/A	N/A	N/A	Class A	0.90	HumiGuard+	Inherent	Low	Yes	Wash, Impact, Scratch, Soil

* CAC Backing (not recyclable)
† U.S. Patent 6,103,360
★ Installations in Healthcare facilities need to meet HIPAA oral privacy requirements
CAC backing available on all products as a special order

Physical Data

Material
3250, 3251, 3252, 3253, 3254, 3257, 3258, 3259, 3263, 3264 – Fiberglass with DuraBrite acoustically transparent membrane
3354, 3355 – Fiberglass with DuraBrite acoustically transparent membrane; CAC backing

Surface Finish
DuraBrite with factory-applied acrylic latex paint

Fire Performance
Class A: Flame Spread 25 or under (UL Labeled) per ASTM E 1264

ASTM E 1264 Classification
Type XII, Form 2, Pattern E

Sag Resistance
HumiGuard Plus – superior resistance to sagging in high humidity conditions up to, but not including, standing water and outdoor applications.

Low Formaldehyde
Low Formaldehyde – contributing less than 13.5 ppb in typical conditions per ASHRAE Standard 62, "Ventilation for Acceptable Indoor Air Quality," California Code Title 24, and other building types in CHPS Section 1350.

Anti Mold/Mildew & Bacteria
Fiberglass substrate is inherently resistant to the growth of mold, mildew and bacteria.

Insulation Value
3250, 3251, 3252, 3257, 3258, 3259, 3354, 3355, 3263, 3264 –
R Factor – 4.0 (BTU units)
R Factor – 0.70 (Watts units)
3253, 3254 –
R Factor – 6.0 (BTU units)
R Factor – 1.05 (Watts units)

Backloading Recommendation
Contact TechLine for specific details

Weight; Square Feet/Carton
Refer to product index pages in the back of this catalog

30-Year Performance Guarantee & Warranty Information
See warranty details in the back of this catalog

Application Considerations
Products with CAC backing are not recyclable.

1' x 2' products are not intended for a full ceiling installation and are not UL Classified for acoustics.

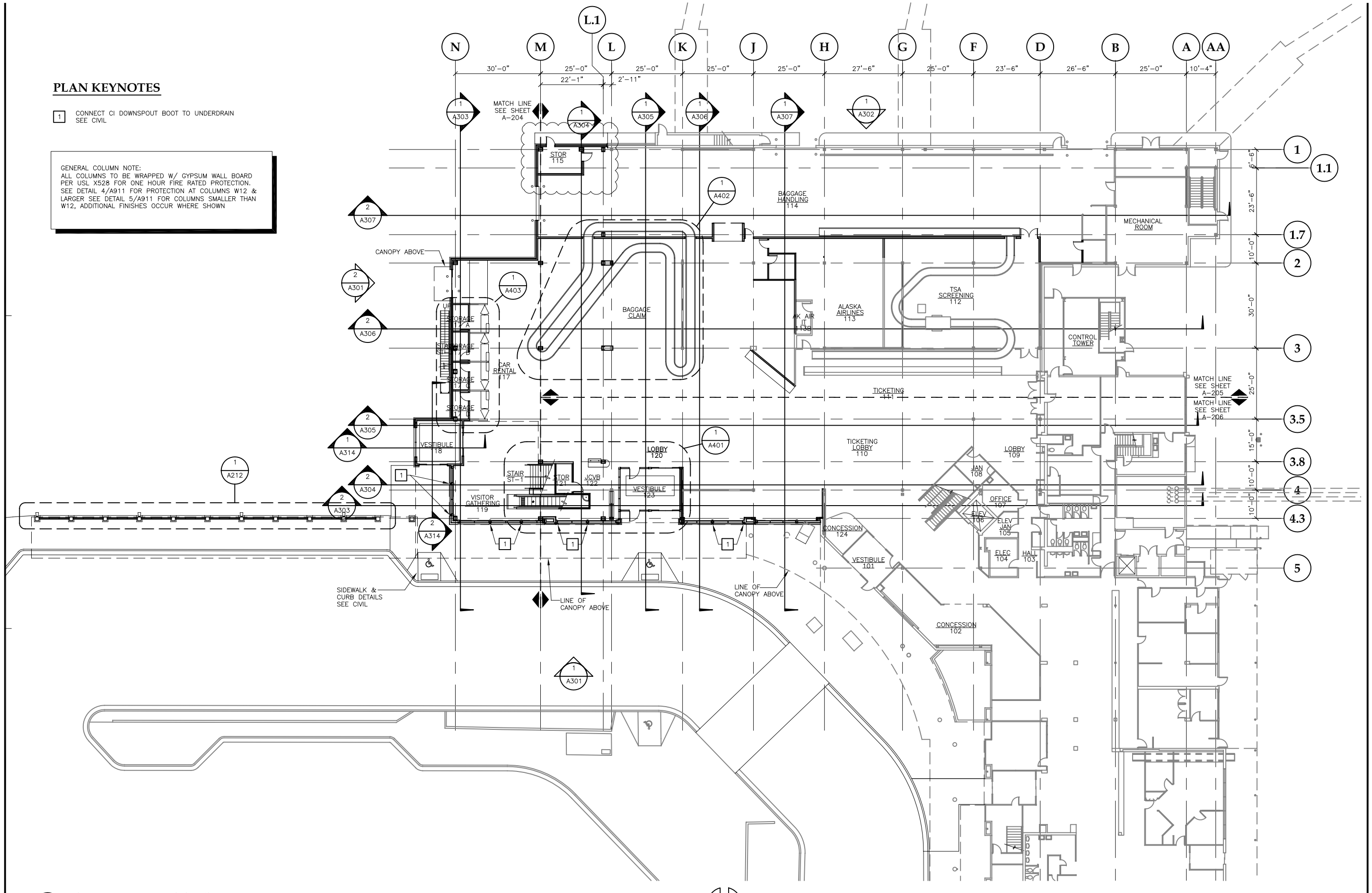
Recommended Suspension System

Items	Suspension System	Drawing Detail (Pg. 203-206)
3250, 3252, 3253, 3258, 3264, 3354	15/16" PRELUDE® (Pg. 186, 188)	17
3251, 3254, 3257, 3259, 3263, 3355	9/16" SUPRAFINE™ (Pg. 192)	3
	9/16" SONATA™ (Pg. 191)	40
	9/16" INTERLUDE® XL (Pg. 184)	52
	9/16" SILHOUETTE® Bolt-Slot (Pg. 189-190)	55
	9/16" TRIMLOK® Screw-Slot (Pg. 193)	53

PLAN KEYNOTES

1 CONNECT CI DOWNSPOUT BOOT TO UNDERDRAIN SEE CIVIL

GENERAL COLUMN NOTE:
ALL COLUMNS TO BE WRAPPED W/ GYPSUM WALL BOARD PER USL X528 FOR ONE HOUR FIRE RATED PROTECTION. SEE DETAIL 4/A911 FOR PROTECTION AT COLUMNS W12 & LARGER SEE DETAIL 5/A911 FOR COLUMNS SMALLER THAN W12, ADDITIONAL FINISHES OCCUR WHERE SHOWN



1 **OVERALL 1st FLOOR PLAN**

SCALE: 0 8' 16' 32'

Jensen Yorba Lott Inc.
522 West 10th Street
Juneau, Alaska 99801
phone 907-586-1070
fax 907-586-3959
jensenyorbalott.com

JNU AIRPORT
CITY/BOROUGH OF JUNEAU
ALASKA'S CAPITAL CITY

STATE OF ALASKA
49 TH
ANTHONY J. YORBA
Mar. 5, 09
NO. A 4597
REGISTERED PROFESSIONAL ARCHITECT

City & Borough of Juneau
Juneau International Airport
Terminal Renovation
CBJ Contract No. E09-021
Juneau, Alaska

REVISIONS
CONFORMED
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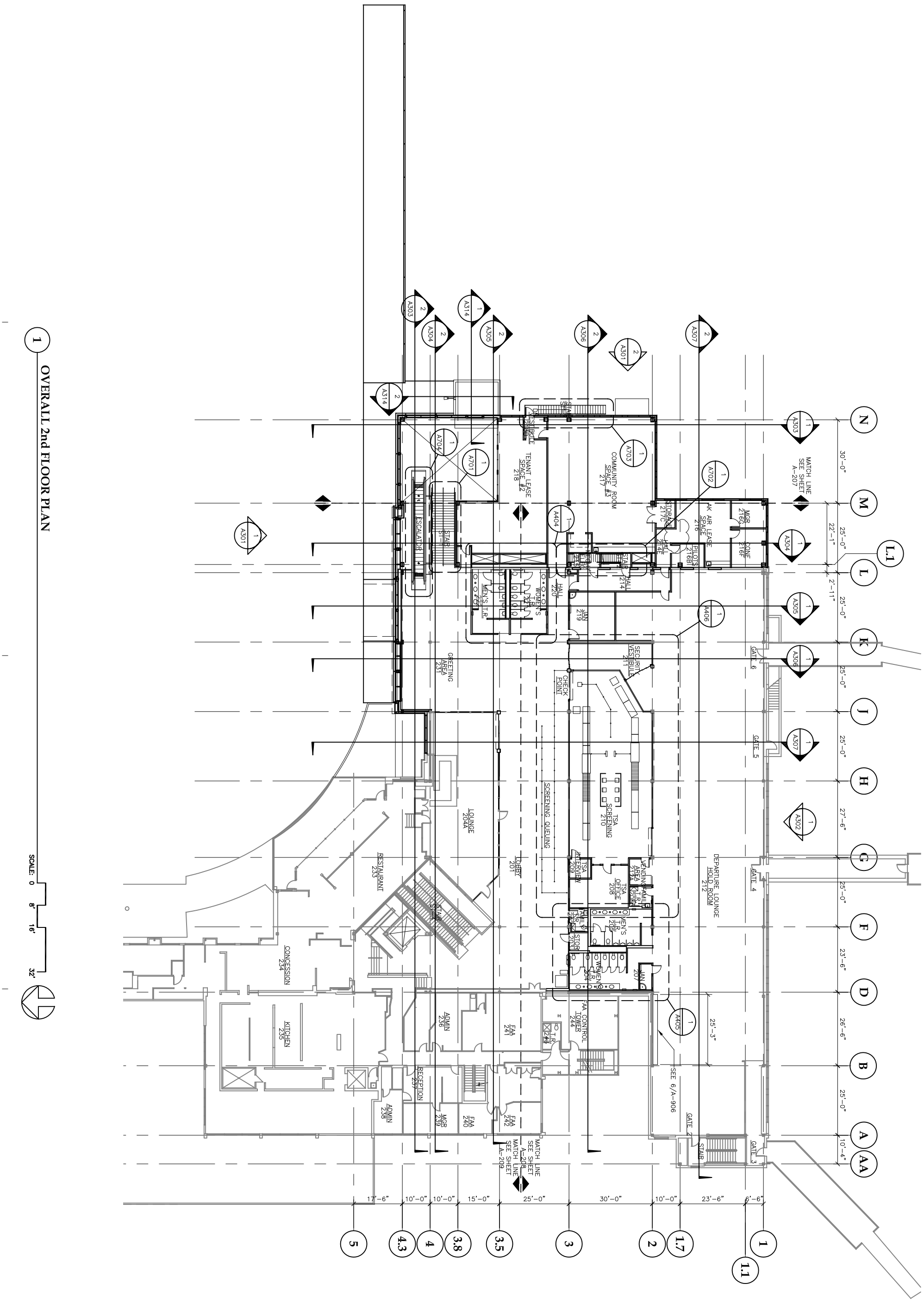
SHEET TITLE
OVERALL
1st FLOOR PLAN
.
.
DATE: March 6, 2009
FILE: 0657

A-201



REVISIONS	
△	CONFORMED
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SHEET TITLE	
	OVERALL
	2nd FLOOR PLAN
	.
DATE:	March 6, 2009
FILE:	0657

A-202

City & Borough of Juneau
Juneau International Airport
Terminal Renovation
CBJ Contract No. E09-021
Juneau, Alaska

STATE OF ALASKA 49TH — REGISTERED PROFESSIONAL ARCHITECT — ANTHONY J. YORBA — Mar. 5, 09 — NO. A 497

JNU AIRPORT — CITY/BOROUGH OF JUNEAU — ALASKA'S CAPITAL CITY

Jensen Yorba Lott Inc.
522 West 10th Street
Juneau, Alaska 99801
phone 907-586-1070
fax 907-586-3959
jensenyorbalott.com

SECTION 09000 - FINISH SCHEDULE

ROOM No.	Name	FLOOR	BASE	Ht.	WAINSCOT	Ht.	WALLS North	East	South	West	CEILING	NOTES
103	HALL	EX	EX				EX	EX		EX	EX	
109	LOBBY	EX	EX				EX	-	-	EX	EX	
110	TICKETING LOBBY	EX/CPT	EX/WD	4"			-	-	-	EX	EX/ACP	
111	TICKETING	EX	EX				-	EX	EX	EX	EX/ACP	
112	TSA SCREENING	EX	EX				EX	PT	PT	PT	EX	NOTE 1,2
113	ALASKA AIRLINES	EX	EX				EX	PT	PT	PT	EX	NOTE 1,2
113A	AK AIR	CPT	RUB	4"			PT	PT	PT	PT	ACP	
113B	ALASKA AIRLINES IT	EX	EX				EX	PT	EX	EX	EX	
114	BAGGAGE HANDLING	EX	EX				PT	EX	EX	EX	-	NOTE 4
115	STORAGE	SV	RUB	4"			PT	PT	PT	PT	-	
116	BAGGAGE CLAIM	CPT	WD	4"			PT	PT	PT4	PT2	ACP	NOTE 3
117	CAR RENTAL	CPT/TER	WD	4"			PT	PT2	PT	PT	ACP	
117A	STORAGE	CPT	RUB	4"			PT	PT	PT	PT	ACP	
117B	STORAGE	CPT	RUB	4"			PT	PT	PT	PT	ACP	
117C	STORAGE	CPT	RUB	4"			PT	PT	PT	PT	ACP	
117D	STORAGE	CPT	RUB	4"			PT	PT	PT	PT	ACP	
118	VESTIBULE	EM/EG	RUB	4"			PT	PT	SL	PT	ACP	
119	VISITOR GATHERING	TER	TER	4"			PT/SL	PT/SL	-	-	PLA	
120	LOBBY	CPT/EM	WD	4"			SL	-	-	-	ACP	NOTE 3, 6" BELOW CURTIANWALLS
121	STORAGE	CPT	RUB	4"			PT	PT	PT	PT	GWB	
122	JCVB	CPT	WD	4"			WP	PT	-	PT	GWB	
123	VESTIBULE	EM/EG	RUB	4"			PT	SL	PT	PT	ACP	
124	CONCESSION	EX	EX				-	EX	EX	EX	EX	
201	LOBBY	CPT	WD	4"			EX/PT	WP	EX/WP/SL	EX/WP/PT	ACP/WPC	NOTE 3
202	FAMILY TOILET ROOM	CT5	CT4				CT2/3	CT2/3	CT2/3	CT2/3	ACP	NOTE 3
203	STORAGE	CONC	RUB	4"	FRP	48"	PT	PT	PT	PT	ACP	NOTE 6
204	WOMEN'S TOILET ROOM	CT5	CT4				CT1/2/3	CT1/2/3	CT1/2/3	CT1/2/3	ACP	NOTE 3
204A	LOUNGE	EX	EX				EX	EX	EX	EX	EX	NOTE 5
205	MEN'S TOILET ROOM	CT5	CT4				CT1/2/3	CT1/2/3	CT1/2/3	CT1/2/3	ACP	NOTE 3
206	FAMILY TOILET ROOM	CT5	CT4				CT2/3	CT2/3	CT2/3	CT2/3	ACP	NOTE 3
207	JANITOR	CONC	RUB	4"	FRP	48"	PT	PT	PT	PT	ACP	NOTE 6
208	TSA OFFICE	CPT3	RUB	4"			PT	PT	PT	PT	ACP	
209	TSA INTERVIEW	CPT3	RUB	4"			PT	PT	PT	PT	ACP	
210	TSA SCREENING	CPT2	WD	4"			PT/RS	PT/SL	PT/RS	PT/RS	ACP	
211	SECURITY VESTIBULE	CPT	WD	4"			PT	PT	PT	PT	ACP	

212	HOLD ROOM	EX	EX/WD	4"			PT	PT	EX	EX	EX/ACP	NOTE 1,2
212A	VENDING AREA	EX	WD	4"			PT	PY		PT	ACP	NOTE 1
214	HALL	CPT3	RUB	4"			PT	PT	PT	PT	ACP	
215	MECH/ELEC ROOM	SV	RUB	4"			PT	PT	PT	PT		
216	TENANT LEASE SPACE	CPT3/SV	RUB	4"			PT	PT	PT	PT	ACP	
216A	HALL	CPT3	RUB	4"			PT	PT	PT	PT	ACP	
216B	PILOTS	CPT3	RUB	4"			PT	PT	PT	PT	ACP	
216F	CONFERENCE	CPT3	RUB	4"			PT	PT	PT	PT	ACP	
216G	MANAGER	CPT3	RUB	4"			PT	PT	PT	PT	ACP	
217	COMMUNITY ROOM	CPT3/SV	WD	4"			PT	PT	PT	PT	ACP	
217C	STORAGE	CP3	RUB	4"			PT	PT	PT	PT	ACP	
218	TENANT LEASE SPACE	CPT	RUB	4"			PT	PT	PT	PT	ACP	
218B	VESTIBULE	EM	RUB	4"			PT	PT	PT	PT	ACP	
219	JANITOR	CONC	RUB	4"	FRP	48"	PT	PT	PT	PT	ACP	NOTE 6
220	HALL	CPT	WD	4"			WP	PT	PT	PT	ACP	
221	WOMEN'S TOILET ROOM	CT5	CT4				CT1/2/3	CT1/2/3	CT1/2/3	CT1/2/3	ACP	NOTE 3
222	MEN'S TOILET ROOM	CT5	CT4				CT1/2/3	CT1/2/3	CT1/2/3	CT1/2/3	ACP	NOTE 3
231	GREETING AREA	CPT/4/5	WD	4"			PT	PT	WP	PT3	ACP/PLA	NOTE 3
ST-1	STAIR	*TER	*TER				-	-	SL	-		*PRECAST SYSTEM
ST-2	STAIR	CONC					PT	PT	PT	PT		
P100	PENTHOUSE	SLR					PT	PT	PT	PT		

ABBREVIATIONS

ACP	ACOUSTICAL CEILING PANEL SYSTEM	RS	RIGID SHEET WALL COVERING
CPT	CARPET TILE	REB	RUBBER
CT	CERAMIC TILE	SL	SLATE TILE
CONC	CONCRETE	SLR	SEALED CONCRETE
EX	EXISTING	SV	SHEET VINYL
EG	ENTRY GRID SYSTEM	SVC	SHEET VINYL COVE
EM	ENTRY MAT CARPET	TER	TERRAZZO TILE
FRP	FIBERGLASS REINFORCED PLACTIC	WD	WOOD
PLA	PLASTER	WP	WOOD WALL PANEL SYSTEM
PT	PAINT	WPC	CURVED WOOD PANEL CEILING SYSTEM

NOTES

1. INSTALL EXISTING CARTPET TILES SALVAGED FROM OTHER WORK IN THIS AREA
2. INSTALL CEILING FINISH SALVAGED FROM OTHER WORK IN THIS AREA
3. SEE ELEVATIONS FOR WALL FINISHES

4. PROVIDE 5/8" FIRE RETARDANT TREATED PLYWOOD WAINSCOT TO 8'-0" @ NORTH SIDE OF THIS ROOM												
5. REPAIR PAINT, DRYWALL, ACP AND EXISTING FLOOR TO MATCH EX WHERE EXISTING WALL ARE MODIFIED												
6. INSTALL CONCRETE HARDENER & SEALER @ CONCRETE FLOOR												
GENERAL:												
SEE A-913 FOR TYPICAL CEILING DETAILS												
SEE A-903 FOR TYPICAL FLOOR TRANSITION STRIPS												

ROOM No.	Name	FLOOR	BASE	Ht.	WAINSCOT	Ht.	WALLS North	East	South	West	CEILING
ABBREVIATIONS											

NOTES

ROOM No.	Name	FLOOR	BASE	Ht.	WAINSCOT	Ht.	WALLS North	East	South	West	CEILING
ABBREVIATIONS											

NOTES

ROOM No.	Name	FLOOR	BASE	Ht.	WAINSCOT	Ht.	WALLS North	East	South	West	CEILING
ABBREVIATIONS											

NOTES

ROOM No.	Name	FLOOR	BASE	Ht.	WAINSCOT	Ht.	WALLS North	East	South	West	CEILING	NOTES
ABBREVIATIONS												

Dawson

Submittal #095410-1.0 095410 - Resiliently Suspended Gypsum Board Ceilings

Dawson Construction
PO Box 30920
Bellingham, Washington 98228
Phone: (360) 756-1000
Fax: (360) 756-1001

Project: 20004 - Juneau Terminal Reconstruction
1873 Shell Simmons Dr.
Juneau, Alaska 99801

Resiliently Suspended Gypsum Ceiling Submittals

SPEC SECTION:	095410 - Resiliently Suspended Gypsum Board Ceilings	**CREATED BY:**	
STATUS:	Reviewing	**DATE CREATED:**	03/19/2020
ISSUE DATE:	08/21/2020	**REVISION:**	0
RESPONSIBLE CONTRACTOR:	Alaska Acoustical	**RECEIVED FROM:**	Brad Holm
RECEIVED DATE:	08/21/2020	**SUBMIT BY:**	08/21/2020
FINAL DUE DATE:	09/05/2020	**LOCATION:**	
TYPE:	Submittals	**COST CODE:**	
APPROVERS:	Evelyn Rousso **(McCool Carlson Green)**		

BALL IN COURT:
Evelyn Rousso **(McCool Carlson Green)**

DISTRIBUTION:
Caleb McGraw **(Dawson Construction LLC)** , Aaron Morrison **(PDC Engineers - Juneau)** , David Parker **(Dawson Construction LLC)** , Chris Gilberto **(Dawson Construction - Juneau)**

DESCRIPTION:
Please see attached submittal for review and approval ~ Thank you.

ATTACHMENTS:
095410-1.0 Suspended Gypsum Ceiling.pdf

SUBMITTAL WORKFLOW

#	NAME	SUBMITTER/ APPROVER	SENT DATE	DUE DATE	RETURNED DATE	RESPONSE	ATTACHMENTS	COMMENTS
1	Evelyn Rousso	Approver		9/5/2020		-		

Submittal Review Stamp

☑ APPROVED ☐ APPROVED AS NOTED
☐ REJECTED ☐ REVISE AND RESUBMIT
☐ REFER TO LETTER DATED _____
☐ RETURNED WITHOUT REVIEW

BY MCG DATE 9/4/2020

Reviewed for conformance with design concept and for general compliance with the Contract Documents.

MCG McCOOL CARLSON GREEN ARCHITECTS
HISTORIC ANCHORAGE TRAIN DEPOT
421 W. 1ST AVENUE • SUITE 300 • ANCHORAGE, AK 99501
PH 907.563.8474 • FAX 907.563.4572 • MCGALASKA.COM

The attached submittal has been checked and coordinated with the work of all trades involved. Materials and methods indicated conform to contract requirements.

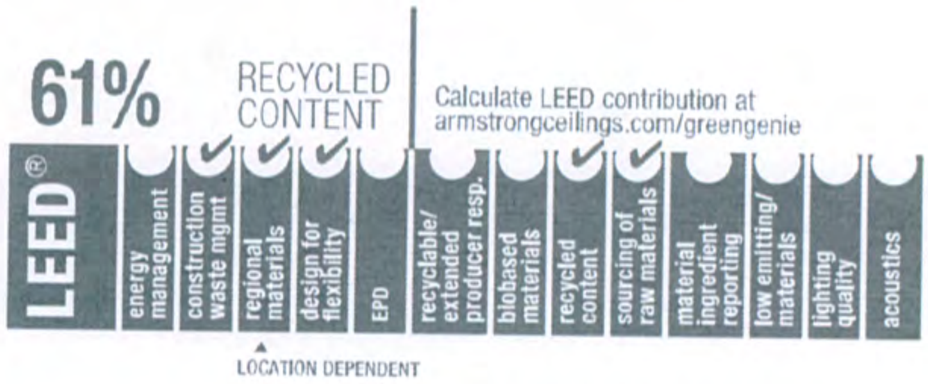
BY _____ DATE 08/21/2020 COPIES TO _____

DRYWALL/STUCCO/PLASTER – Flat Ceilings

Suspension Systems

Declare℠ Living Building Challenge Compliant

SUSTAIN® High Performance Sustainable Ceiling Systems



KEY SELECTION ATTRIBUTES

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

- Some components available in High Recycled Content (HRC): Total Recycled Content 61%, Post-consumer 53%, Pre-consumer 8%
- Non-HRC items have 30% recycled content
- **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
- HD8906IIC main beam accepts integral Impact Isolation Clips (IIC) to provide up to eight points of IIC improvement.
- **ScrewStop™** reverse hem prevents screw spin off on 1-1/2" wide face
- 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; provides superior corrosion resistance
- Wind uplift construction available
- **XL®** (staked-on end detail) cross tees provide secure locked connection; fast and easy to install
- All drywall components minimum .018" steel thickness; complies with ASTM C645
- Accommodates stud, track, hat channel, wood, or other supplemental framing
- 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
- G90 hot dipped galvanized coating is available for exterior applications (HD8906G90, XL8945PG90, XL8947PG90, XL8965G90, XL8925G90, XL7936G90)
- **SimpleCurve™** bend to create curves as tight as 52"

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, J502, K504, 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.		Description	Dimensions	Rout Spacing	Hanger Spacing (Lbs./Lin. Ft.) L/240 2 Ft.	L/240 3 Ft.	L/240 4 Ft.	L/360 2 Ft.	L/360 3 Ft.	L/360 4 Ft.
Drywall Main Beams – Imperial (Red Numbers are Fire Guard Items)**										
HD8906 HD8906HRC HD8906G90 HD8906IIC	1-1/2"	12' HD Drywall Main Beam (For Type F Light Fixtures)	144 x 1-1/2 x 1-11/16"	54 routs – starting 2-1/4" from each end†	143.0	57.3	28.14	95.5	43.19	18.66
HD890610	1-1/2"	10' HD Drywall Main Beam (For Type F Light Fixtures)	120 x 1-1/2 x 1-11/16"	45 routs – starting 2-1/4" from each end†	143.0	57.3	28.14	95.5	43.19	18.66
SP135	1-1/2"	135" HD Stucco Main Beam G90	135 x 1-1/2 x 1-11/16"	13.5" O.C.	139.85	52.59	28.71	–	43.19	18.66
Drywall Main Beams – Metric					600mm	900mm	1200mm	600mm	900mm	1200mm
HD7940	43mm	3600mm HD Drywall Main Beam	3600 x 38 x 42.8mm	200mm O.C.	150.0	68.3	29.34	100.0	45.35	19.56
7940G	43mm	3600mm HD Drywall Main Beam	3600 x 38 x 35mm	150mm O.C. – starting 75mm from each end†	114.0	51.92	22.40	76.39	34.61	14.93

Item No.		Description	Dimensions	Rout Spacing	Load Total Data (Lbs./Lin. Ft.) L/240	L/360	Load Total Data (Kg./Lin. M.) L/240	L/360
Drywall Cross Tees – Imperial (Red Numbers are Fire Guard Items)**								
XL8965 XL8965HRC	1-1/2"	6' Drywall Cross Tee	72 x 1-1/2 x 1-1/2"	6 routs – starting 24" from each end†	6.87 @ 6'	4.58 @ 6'		
XL8947P	1-1/2"	50" Drywall Cross Tee	50 x 1-1/2 x 1-1/2"	8 routs – starting 10" from each end†	19.5 @ 50"	12.79 @ 50"		
XL8945P XL8945PHRC	1-1/2"	4' Drywall Cross Tee	48 x 1-1/2 x 1-1/2"	9 routs – center rout and starting 10" from each end†	22.5 @ 4'	14.27 @ 4'		
XL8940	1-1/2"	40" Drywall Cross Tee	40 x 1-1/2 x 1-1/2"	1 rout – center of tee	36.22 @ 40"	24.15 @ 40"		
XL7936G90	1-1/2"	3' Drywall Cross Tee	36 x 1-1/2 x 1-1/2"	none	50.0 @ 3'	31.33 @ 3'		
XL8926	1-1/2"	2' Drywall Cross Tee	24 x 1-1/2 x 1-1/2"	3 routs – center rout and 10" from each end†	158.0 @ 2'	90.25 @ 2'		
Drywall Cross Tees – Metric								
XL7961	38mm	1600mm Drywall Cross Tee (6')	1600 x 38 x 36mm	800mm center of tee	10.25 @ 6'	6.84 @ 6'	15.15 @ 1600mm	10.18 @ 1600mm
XL7930	38mm	1200mm Drywall Cross Tee (4')	1200 x 38 x 38mm	450mm, 600mm, 750mm	22.4 @ 4'	14.93 @ 4'	33.33 @ 1200mm	22.22 @ 1200mm
XL7925	38mm	900mm Drywall Cross Tee (3')	900 x 38 x 38mm	none	51.92 @ 3'	34.61 @ 3'	77.26 @ 900mm	51.51 @ 900mm
XL7920	38mm	600mm Drywall Cross Tee (2')	600 x 38 x 38mm	none	114.59 @ 2'	76.39 @ 2'	170.52 @ 600mm	113.68 @ 600mm

* NOTE: All load test data based on flat installation per ASTM C635.
** For fire-rated assemblies, use Type C gypsum board as noted in the UL® fire-rated assembly designs.
† Type F fixture compatible

ASTM Class
HD - Heavy-duty
ID - Intermediate-duty
LD - Light-duty

TechLine 877 276-7876
armstrongceilings.com/drywall

Armstrong® CEILING SOLUTIONS

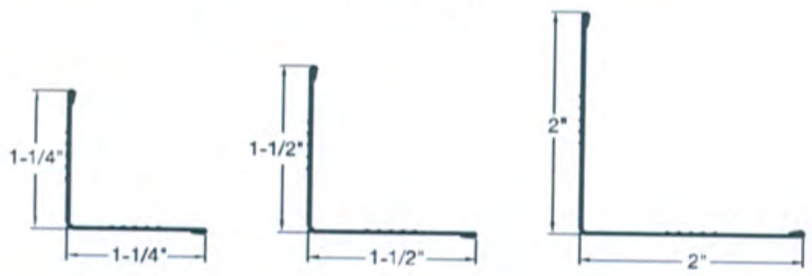
DRYWALL/STUCCO/PLASTER – Flat Ceilings

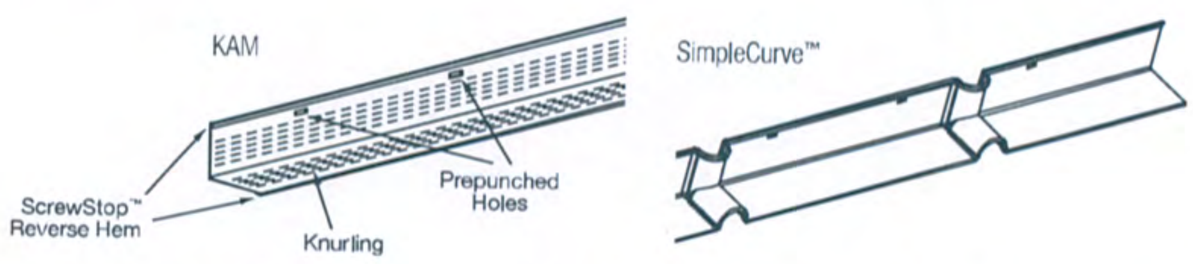
Suspension Systems

VISUAL SELECTION

Item Number	Face Flange	Description	Dimensions (Inches)	Packaging Pcs.	Lin. Ft.
Moldings					
7858	15/16"	12' Reverse angle molding	144 x 1-9/16 x 15/16"	20	240
LAM12	1-1/4"	12' Nominal locking angle molding, locking tabs 8" O.C, starting 4" from each end	144 x 1-1/4 x 1-1/4"	10	240
LAM12HRC	1-1/4"	12' Nominal locking angle molding, locking tabs 8" O.C, starting 4" from each end	144 x 1-1/4 x 1-1/4"	10	240
new **LAM151220E**	1-1/2"	12' Locking Angle Molding, locking tabs 8" O.C. 22 Gauge (.028" metal thickness)	144 x 1-1/2 x 1-1/2"	10	120
KAM10	1-1/4"	10' Knurled Angle Molding – (.018 metal thickness)	120 x 1-1/4 x 1-1/4"	10	100
KAM12	1-1/4"	12' Knurled Angle Molding – (.018 metal thickness)	144 x 1-1/4 x 1-1/4"	10	120
KAM12G90	1-1/4"	12' Knurled Angle Molding – G90 galvanized steel coating (.018 metal thickness)	144 x 1-1/4 x 1-1/4"	10	120
KAM12HRC	1-1/4"	12' Knurled Angle Molding – High Recycled Content (.018 metal thickness)	144 x 1-1/4 x 1-1/4"	10	120
KAM1510	1-1/2"	10' Knurled Angle Molding – (.018 metal thickness)	120 x 1-1/2 x 1-1/2"	10	100
KAM1512	1-1/2"	12' Knurled Angle Molding – (.018 metal thickness)	144 x 1-1/2 x 1-1/2"	10	120
KAM151020E	1-1/2"	10' Knurled Angle Molding – (.028 metal thickness)	120 x 1-1/2 x 1-1/2"	10	100
KAM151220E	1-1/2"	12' Knurled Angle Molding – (.028 metal thickness)	144 x 1-1/2 x 1-1/2"	10	120
KAM151020	1-1/2"	10' Knurled Angle Molding – (.033 metal thickness)	120 x 1-1/2 x 1-1/2"	10	100
KAM151020G90	1-1/2"	10' Knurled Angle Molding – G90 galvanized steel coating (.033 metal thickness)	120 x 1-1/2 x 1-1/2"	10	100
KAM21025	2"	10' Knurled Angle Molding – (.018 metal thickness)	120 x 2 x 2"	10	100
KAM21020EQ	2"	10' Knurled Angle Molding – (.028 metal thickness)	120 x 2 x 2"	10	100
KAM21020	2"	10' Knurled Angle Molding – (.033 metal thickness)	120 x 2 x 2"	10	100
new **SC151220EQ**	1-1/2"	12' x 1.5" SimpleCurve™ Knurled Angle Molding – (.028" metal thickness)	148 x 1-1/2 x 1-1/2"	10	124
new **SC151225**	1-1/2"	12' x 1.5" SimpleCurve™ Knurled Angle Molding – (.018" metal thickness)	148 x 1-1/2 x 1-1/2"	10	124
new **SC21220EQ**	2"	12' x 2" SimpleCurve™ Knurled Angle Molding – (.028" metal thickness)	148 x 2 x 2"	10	124
new **SC21225**	2"	12' x 2" SimpleCurve™ Knurled Angle Molding – (.018" metal thickness)	148 x 2 x 2"	10	124

NOTE: .018" metal thickness meets ASTM C645 for framing

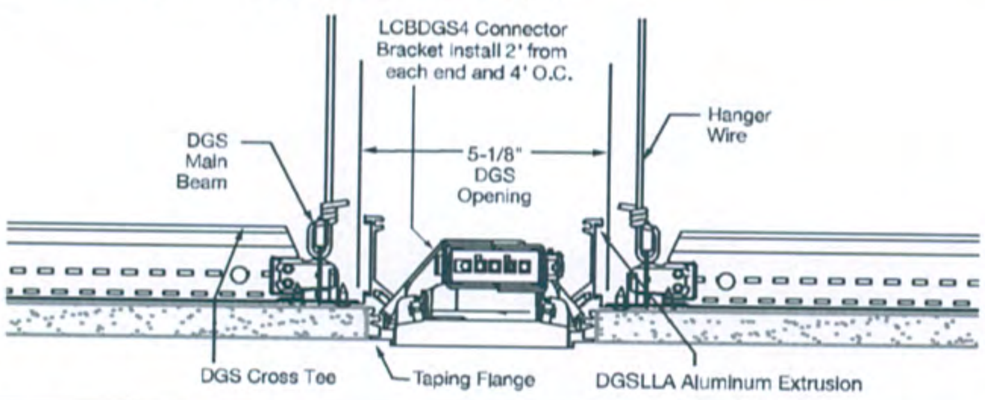


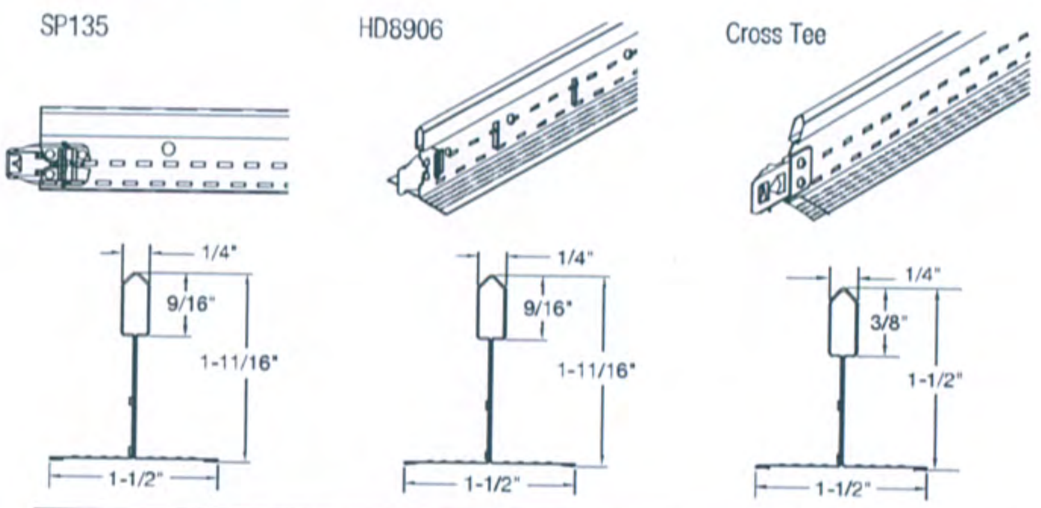


DRYWALL LINEAR LIGHTING

Item No.*	Description	Fixture Length
☐ **DGSLLTK24**	2' Linear Light Trim Kit	24" x 4"
☐ **DGSLLTK30**	2' – 6" Linear Light Trim Kit	30" x 4"
☐ **DGSLLTK48**	4' Linear Light Trim Kit	48" x 4"
☐ **DGSLLTK60**	5' Linear Light Trim Kit	60" x 4"
☐ **DGSLLTK72**	6' Linear Light Trim Kit	72" x 4"
☐ **DGSLLTK90**	7' – 6" Linear Light Trim Kit	90" x 4"
☐ **DGSLLTK96**	8' Linear Light Trim Kit	96" x 4"
☐ **DGSLLTK120**	10' Linear Light Trim Kit	120" x 4"
☐ **DGSLLTKCON**	10' Continuous Linear Light Trim Kit	10'

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





SEISMIC PERFORMANCE

Seismic loading: ICC Evaluation Service, Inc., ESR-1289
2009 & 2006 International Building Code
1997 Uniform Building Code, Continuous Membrane, One Level;
Per Section 25.210. Consult local code for requirement.

Main Beams	Minimum Lbs. To Pull Out Compression/Tension
HD8906/HD890610 / HD8906HRC	332.3
HD8906IIC	332.3
Cross Tees	
XL7918, XL8926, XL8925, XL7936G90, XL8945PHRC, XL8945P, XL8947P, XL8965HRC	380.1

ICC Reports

For areas under ICC jurisdiction, see ICC evaluation report number ESR-1289 for allowable values and/or conditions of use concerning the suspension system components listed on this page. The report is subject to reexamination, revisions, and possible cancellation.

For fixture weight and UL listings, see Drywall Grid Systems for Flat Applications Technical Guide BPCS-3539.

TechLine / 1 877 276-7876
armstrongceilings.com/drywall

BPCS-3081-520

Armstrong® CEILING SOLUTIONS

Dawson

Submittal #095100-1.0
095100 - Acoustical Ceiling Systems

Dawson Construction
PO Box 30920
Bellingham, Washington 98228
Phone: (360) 756-1000
Fax: (360) 756-1001

Project: 20004 - Juneau Terminal Reconstruction
1873 Shell Simmons Dr.
Juneau, Alaska 99801

Acoustical Ceiling Systems Submittals

SPEC SECTION:	095100 - Acoustical Ceiling Systems	**CREATED BY:**	
STATUS:	Reviewing	**DATE CREATED:**	03/19/2020
ISSUE DATE:	05/21/2020	**REVISION:**	0
RESPONSIBLE CONTRACTOR:	Alaska Acoustical	**RECEIVED FROM:**	Brad Holm
RECEIVED DATE:	05/18/2020	**SUBMIT BY:**	05/21/2020
FINAL DUE DATE:	06/05/2020	**LOCATION:**	
TYPE:	Submittals	**COST CODE:**	
APPROVERS:	Evelyn Rousso **(McCool Carlson Green)**		

BALL IN COURT:
Evelyn Rousso **(McCool Carlson Green)**

DISTRIBUTION:
Aaron Morrison **(PDC Engineers - Juneau)** , David Parker **(Dawson Construction LLC)** , Chris Gilberto **(Dawson Construction - Juneau)**

DESCRIPTION:
Please see attached submittal for review and approval ~ Thank you!

ATTACHMENTS:
095100-1.0 - Acoustical Ceiling Systems.pdf

SUBMITTAL WORKFLOW

#	NAME	SUBMITTER/ APPROVER	SENT DATE	DUE DATE	RETURNED DATE	RESPONSE	ATTACHMENTS	COMMENTS
1	Evelyn Rousso	Approver		6/5/2020				

Submittal Review Stamp

- ☐ APPROVED
- ☑ APPROVED AS NOTED
- ☐ REJECTED
- ☐ REVISE AND RESUBMIT
- ☐ REFER TO LETTER DATED_____
- ☐ RETURNED WITHOUT REVIEW

BY mcg DATE 6/5/2020

Reviewed for conformance with design concept and for general compliance with the Contract Documents.

McCOOL CARLSON GREEN ARCHITECTS
HISTORIC ANCHORAGE TRAIN DEPOT
421 W. 1ST AVENUE • SUITE 300 • ANCHORAGE, AK 99501
PH 907.563.8474 • FAX 907.563.4572 • MCGALASKA.COM

The attached submittal has been checked and coordinated with the work of all trades involved. Materials and methods indicated conform to contract requirements.

BY _____ DATE 05/21/2020 COPIES TO _____

ULTIMA®
ULTIMA® High NRC

Square Lay-in
fine texture

TOTAL ACOUSTICS®
Sound Absorption (NRC) + Sound Blocking (CAC)

SUSTAIN®
High Performance Sustainable Ceiling Systems

DESIGNFlex™
A New World of Choice for Ceiling Systems

DESIGNFlex™ CEILING SYSTEMS

SIZES

095100 2.6 - ACT1

Ultima® Square Lay-in panels with Prelude® XL® 15/16" suspension system (Pgs. 458-459)

Personalize Your Design!

Mix and match different sizes, shapes, and materials to reinvent your ceiling. More at:
armstrongceilings.com/designflex

See more photos at:
armstrongceilings.com/photogallery
SEARCH: ultima

A smooth visual ceiling with Total Acoustics® performance, sound absorption, and blocking needed for today's flexible spaces.

KEY SELECTION ATTRIBUTES

- DesignFlex™ options include shapes and made-to-order sizes available to ship in 3 weeks
- Get total noise control and floor plan versatility with Total Acoustics® ceiling panels: NRC + CAC = Total Acoustics Performance
- Ultima® panels are part of the Sustain® portfolio, and meet the most stringent sustainability compliance standards today
- Smooth, clean, durable finish – Washable, Impact-resistant, Scratch-resistant, Soil-resistant
- Ceiling-2-Ceiling™ Post-consumer Recycled Content options: items 1910HRC, 1913HRC. 71% Pre-consumer; 15% Post-consumer
- USDA-Certified Biobased Product – 88%
- Available with AirGuard™ coating – actively removes formaldehyde from indoor air
- Visual coordinates with Optima® panels for mixed (open/closed plan) applications
- Item 1910 available with Create!™ printed images and patterns
- Non-directional visual reduces scrap and installation time
- Compatible with TechZone® Ceiling Systems
- 30-Year Limited System Warranty against visible sag, mold, and mildew
- 10-Year replacement panel available for items 1910, 1913

10-YEAR REPLACEMENT PANEL AVAILABILITY

TYPICAL APPLICATIONS

- Offices – closed spaces for privacy and confidentiality; open spaces for focus, collaboration, and teaming
- Healthcare – assists in addressing HIPAA, HCAHPS, and FGI acoustical requirements
- Classrooms
- Corridors
- Lobbies/reception areas
- Department stores/retail

COLOR

White (WH)

DETAILS

1. Ultima® Square Lay-in
2. Ultima® Square Lay-in with Prelude® 15/16" suspension system

ULTIMA®
ULTIMA® High NRC

Square Lay-in
fine texture

GREENGUARD Gold Certified (details below)

CLOSED LOOP RECYCLED CONTENT CEILING-2-CEILING

Declare℠ Living Building Challenge Compliant

SUSTAIN® High Performance Sustainable Ceiling Systems

UP TO 84% RECYCLED CONTENT

Calculate LEED contribution at armstrongceilings.com/greengenie

LEED® energy management ✓ | construction waste mgmt ✓ | regional materials ✓ | design for flexibility ✓ | EPD ✓ | recyclable/ extended producer resp. ✓ | biobased materials ✓ | recycled content ✓ | sourcing of raw materials ✓ | material ingredient reporting ✓ | low emitting/ materials ✓ | lighting quality ✓ | acoustics ✓

▲ LOCATION DEPENDENT

VISUAL SELECTION

PERFORMANCE SELECTION

Dots represent high level of performance. $$$$

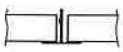
Edge Profile	Susp. Dwg. Pgs. 474-478 armstrongceilings.com/catdwgs	Item No.	Dimensions (Inches)	UL Classified Acoustics NRC + CAC =	Total Acoustics[1] NRC+CAC	Articulation Class AC	Fire Performance	Light Reflect	Mold & Mildew Protection Bio-Block	Sag Resist Humi-Guard+	Certified Low VOC Emissions	Durability: Wash	Durability: Impact	Durability: Scratch	Durability: Soil	Recycled Content	Recycle Program	30-Yr Warranty
ULTIMA® High NRC																		
15/16" Square Lay-in	1	**1940**	24 x 24 x 7/8"	0.80 • 35 •	BEST	170 •	Class A	0.88 •	•	•	•	•	•	•	•	•	•	•
	1	**1943**	24 x 48 x 7/8"	0.80 • 35 •	BEST	170 •	Class A	0.88 •	•	•	•	•	•	•	•	•	•	•
	1	**1432**	24 x 60 x 7/8"	0.80 • 35 •	BEST	170 •	Class A	0.88 •	•	•	•	•	•	•	•	•	•	•
	1	**1435**	24 x 72 x 7/8"	0.80 • 35 •	BEST	170 •	Class A	0.88 •	•	•	•	•	•	•	•	•	•	•
Size Capabilities			**Width**	**Length**														
15/16" Square Lay-in	1 CTN MIN Made-to-Order Sizes (3 Wks)		7/8" Thick		N/A	N/A	–	–	Class A	0.88 •	•	•	•	•	•	•	•	•
			4"– 6"	12" – 72"														
			6-1/2" – 30"	4" – 72"														
			30-1/2" – 48"	4" – 30"														

MORE ITEMS ▶

[1] Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.
GOOD (NRC 0.60-0.65; CAC 35+) **BETTER** (NRC 0.70-0.75; CAC 35+) **BEST** (NRC 0.80+; CAC 35+)

SUSPENSION SYSTEMS

15/16"



Prelude®

Blizzard White – Suspension System Finish
A color and texture coordinated suspension system to complement Ultima ceiling panels for a monolithic look and feel.

PHYSICAL DATA

Material
Wet-formed mineral fiber with DuraBrite® acoustically transparent membrane

Surface Finish
DuraBrite scrim with factory-applied latex paint

Fire Performance
ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled).

ASTM E1264 Classification
Type IV, Form 2, Pattern E
Fire Class A

Humidity/Sag Resistance
HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

Mold/Mildew Protection
Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

VOC Emissions
GREENGUARD Gold Certified
PRODUCT CERTIFIED FOR LOW CHEMICAL EMISSIONS UL.COM/GG UL 2818
Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

Acoustical Performance
CAC testing conducted using Prelude® XL® suspension system.

Primary (Embodied) Energy
See all LCA information on our EPDs.

High Recycled Content
Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines. HRC items contain 15% or greater post-consumer recycled ceilings.

Insulation Value
R Factor – 2.2 (BTU units)
R Factor – 0.39 (Watts units)

30-Year Performance Guarantee & Warranty
When installed with Armstrong® Suspension System. Details at armstrongceilings.com

Weight; Square Feet/Carton
1940 – 1.14 lbs/SF; 40 SF/ctn
1943 – 1.125 lbs/SF; 48 SF/ctn
1432 – 1.05 lbs/SF; 60 SF/ctn
1435 – 1.04 lbs/SF; 72 SF/ctn

Minimum Order Quantity
1 carton

Metric Items Available
1940M, 1943M – Metric items subject to extended lead times and minimum quantities.

ULTIMA®
ULTIMA® High NRC

Square Lay-in
fine texture

GREENGUARD Gold Certified (details below)

CLOSED LOOP RECYCLED CONTENT CEILING-2-CEILING

Declare℠ Living Building Challenge Compliant

SUSTAIN® High Performance Sustainable Ceiling Systems

UP TO 84% RECYCLED CONTENT

Calculate LEED contribution at armstrongceilings.com/greengenie

LEED® energy management ✓ | construction waste mgmt ✓ | regional materials ✓ | design for flexibility ✓ | EPD ✓ | recyclable/ extended producer resp. ✓ | biobased materials ✓ | recycled content ✓ | sourcing of raw materials ✓ | material ingredient reporting ✓ | low emitting/ materials ✓ | lighting quality ✓ | acoustics ✓

▲ LOCATION DEPENDENT

VISUAL SELECTION

PERFORMANCE SELECTION

Dots represent high level of performance.

Edge Profile	Susp. Dwg. Pgs. 474-478 armstrongceilings.com/caldwgs	Item No.	Dimensions (Inches)	UL Classified Acoustics NRC + CAC	Total Acoustics[1] NRC + CAC	Articulation Class	Fire Performance	Light Reflect	Mold & Mildew Protection Bio-Block	Sag Resist Humi-Guard+	Certified Low VOC Emissions	Durability: Wash	Durability: Impact	Durability: Scratch	Durability: Soil	Recycled Content	Recycle Program	30-Yr Warranty
ULTIMA®																		
15/16" Square Lay-in	1	**1420**	6 x 48 x 3/4"	N/A	N/A	–	–	Class A	0.88	•	•	•	•	•	•	•	•	•
	1	**1425**	6 x 60 x 3/4"	N/A	N/A	–	–	Class A	0.88	•	•	•	•	•	•	•	•	•
	1	**1990**	12 x 48 x 3/4"	0.65	N/A	–	–	Class A	0.88	•	•	•	•	•	•	•	•	•
	1	**1991**	12 x 60 x 3/4"	0.65	N/A	–	–	Class A	0.88	•	•	•	•	•	•	•	•	•
	1	**1992**	12 x 72 x 3/4"	0.65	N/A	–	–	Class A	0.88	•	•	•	•	•	•	•	•	•
	1	**1910** **1910HRC***	24 x 24 x 3/4" 24 x 24 x 3/4"	0.75 •	35 •	BETTER	–	Class A	0.88	•	•	•	•	•	•	• •	•	•
	1	**1913** **1913HRC***	24 x 48 x 3/4" 24 x 48 x 3/4"	0.75 •	35 •	BETTER	–	Class A	0.88	•	•	•	•	•	•	• •	•	•
	1	**1984**	24 x 60 x 3/4"	0.75 •	35 •	BETTER	–	Class A	0.88	•	•	•	•	•	•	•	•	•
	1	**1980**	24 x 72 x 3/4"	0.75 •	35 •	BETTER	–	Class A	0.88	•	•	•	•	•	•	•	•	•

Size Capabilities

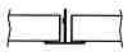
		Width	Length
15/16" Square Lay-in	1 CTN MIN Made-to-Order Sizes (3 Wks)	3/4" Thick	
		4" – 6"	12" – 72"
		6-1/2" – 30"	4" – 72"
		30-1/2" – 48"	4" – 30"

				N/A	N/A	–	–	Class A	0.88	•	•	•	•	•	•	•	•	•

[1] Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.
GOOD (NRC 0.60-0.65; CAC 35+) **BETTER** (NRC 0.70-0.75; CAC 35+) **BEST** (NRC 0.80+; CAC 35+)
* HRC items not included in made-to-order panels.

SUSPENSION SYSTEMS

15/16"



Prelude®

Blizzard White – Suspension System Finish
A color and texture coordinated suspension system to complement Ultima ceiling panels for a monolithic look and feel.

PHYSICAL DATA

Material
Wet-formed mineral fiber with DuraBrite® acoustically transparent membrane.

Surface Finish
DuraBrite scrim with factory-applied latex paint.

Fire Performance
ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled).

ASTM E1264 Classification
Type IV, Form 2, Pattern E
Fire Class A

Humidity/Sag Resistance
HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

Mold/Mildew Protection
Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

VOC Emissions
GREENGUARD Gold Certified
PRODUCT CERTIFIED FOR LOW CHEMICAL EMISSIONS UL.COM/GG UL 2818
Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

GREENGUARD GOLD

Acoustical Performance
CAC testing conducted using Prelude® XL® suspension system.

Primary (Embodied) Energy
See all LCA information on our EPDs.

High Recycled Content
Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines. HRC items contain 15% or greater post-consumer recycled ceilings.

Insulation Value
R Factor – 2.2 (BTU units)
R Factor – 0.39 (Watts units)

30-Year Performance Guarantee & Warranty
When installed with Armstrong® Suspension System. Details at armstrongceilings.com

Weight; Square Feet/Carton
1420, 1425 – 1.05 lbs/SF; 24 SF/ctn
1910, 1913, – 1.08 lbs/SF; 48 SF/ctn
1991 – 1.08 lbs/SF; 30 SF/ctn
1992 – 1.08 lbs/SF; 36 SF/ctn
1980 – 1.08 lbs/SF; 72 SF/ctn
1984 – 1.08 lbs/SF; 80 SF/ctn
1990 – 1.08 lbs/SF; 24 SF/ctn

Minimum Order Quantity
1 carton

Metric Items Available
1910M, 1913M, – Metric items subject to extended lead times and minimum quantities.

ULTIMA®
ULTIMA® High NRC

Square Lay-in
fine texture

GREENGUARD Gold Certified (details below)

CLOSED LOOP RECYCLED CONTENT CEILING-2-CEILING

Declare℠ Living Building Challenge Compliant

SUSTAIN® High Performance Sustainable Ceiling Systems

UP TO 84% RECYCLED CONTENT

Calculate LEED contribution at armstrongceilings.com/greenpro

LEED® v4: energy management ✓, construction waste mgmt ✓, regional materials ✓, design for flexibility ✓, EPD ✓, recyclable/extended producer resp. ✓, biobased materials ✓, recycled content ✓, sourcing of raw materials ✓, material ingredient reporting ✓, low emitting/materials ✓, lighting quality ✓, acoustics ✓

▲ LOCATION DEPENDENT

VISUAL SELECTION

PERFORMANCE SELECTION
Dots represent high level of performance. $$

Edge Profile	Susp. Dwg. Pgs. 474-478 armstrongceilings.com/catdwgs	Item No.	Dimensions (Inches)	UL Classified Acoustics NRC + CAC =	Total Acoustics[1] NRC CAC	Articulation Class	Fire Performance	Light Reflect	Mold & Mildew Protection Bio-Block	Sag Resist Humi-Guard+	Certified Low VOC Emissions	Wash (Durability)	Impact (Durability)	Scratch (Durability)	Soil (Durability)	Recycled Content	Recycle Program	30-Yr Warranty
ULTIMA® with AirGuard™ Coating Actively removes formaldehyde from indoor air.																		
15/16" Square Lay-in	1	**1900**	24 x 24 x 3/4"	0.75 •	35 •	BETTER	–	Class A	0.88 •	•	•	•	•	•	•	•	•	•
	1	**1903**	24 x 48 x 3/4"	0.75 •	35 •	BETTER	–	Class A	0.88 •	•	•	•	•	•	•	•	•	•

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SUSPENSION SYSTEMS

15/16"

Prelude®

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GREENGUARD GOLD

Acoustical Performance
CAC testing conducted using Prelude® XL® suspension system.

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Insulation Value
R Factor – 2.2 (BTU units)
R Factor – 0.39 (Watts units)

30-Year Performance Guarantee & Warranty
When installed with Armstrong® Suspension System. Details at armstrongceilings.com

Weight; Square Feet/Carton
1900, 1903, – 1.08 lbs/SF; 48 SF/ctn

Minimum Order Quantity
1 carton

TechLine / 1 877 276-7876
armstrongceilings.com/commercial
(search: ultima)
BPCS-4595-220

Armstrong® CEILING & WALL SOLUTIONS

ULTIMA®
ULTIMA® High NRC

Square Lay-in
fine texture

TOTAL ACOUSTICS®
Sound Absorption (NRC) + Sound Blocking (CAC)

SUSTAIN®
High Performance Sustainable Ceiling Systems

DESIGNFlex™
A New World of Choice for Ceiling Systems

DESIGNFlex™
CEILING SYSTEMS

SIZES

Ultima

Ultima High NRC

Ultima® Square Lay-in panels with Prelude® XL® 15/16" suspension system (Pgs. 458-459)

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SEARCH: ultima

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- Corridors
- Lobbies/reception areas
- Department stores/retail

COLOR

White (WH)

DETAILS

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2. Ultima® Square Lay-in with Prelude® 15/16" suspension system

ULTIMA®
ULTIMA® High NRC
Square Lay-in
fine texture

CLOSED LOOP RECYCLED CONTENT
CEILING-2-CEILING

GREENGUARD
Gold Certified
(details below)

Declare℠
Living Building Challenge Compliant

SUSTAIN®
High Performance Sustainable Ceiling Systems

UP TO 84% RECYCLED CONTENT

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LEED®: ✓ energy management | ✓ construction waste mgmt | ✓ regional materials | ✓ design for flexibility | ✓ EPD | ✓ recyclable/extended producer resp. | ✓ biobased materials | ✓ recycled content | ✓ sourcing of raw materials | ✓ material ingredient reporting | ✓ low emitting/materials | ✓ lighting quality | ✓ acoustics

▲ LOCATION DEPENDENT (regional materials)

VISUAL SELECTION / PERFORMANCE SELECTION

Dots represent high level of performance.

$$

Edge Profile	Susp. Dwg. Pgs. 474-478 armstrongceilings.com/catdwgs	Item No.	Dimensions (Inches)	UL Classified Acoustics: NRC	UL Classified Acoustics: CAC	Total Acoustics[1] (NRC + CAC)	Articulation Class (AC)	Fire Performance	Light Reflect	Mold & Mildew Protection (BioBlock)	Sag Resist (HumiGuard+)	Certified Low VOC Emissions	Durability: Wash	Durability: Impact	Durability: Scratch	Durability: Soil	Recycled Content	Recycle Program	30-Yr Warranty
ULTIMA® High NRC																			
15/16" Square Lay-in	1	**1940**	24 x 24 x 7/8"	0.80 •	35 •	BEST	170 •	Class A	0.88 •	•	•	•	•	•	•	•	•	•	•
	1	**1943**	24 x 48 x 7/8"	0.80 •	35 •	BEST	170 •	Class A	0.88 •	•	•	•	•	•	•	•	•	•	•
	1	**1432**	24 x 60 x 7/8"	0.80 •	35 •	BEST	170 •	Class A	0.88 •	•	•	•	•	•	•	•	•	•	•
	1	**1435**	24 x 72 x 7/8"	0.80 •	35 •	BEST	170 •	Class A	0.88 •	•	•	•	•	•	•	•	•	•	•

Size Capabilities

Edge Profile		Width	Length	NRC	CAC	Total Acoustics	AC	Fire Performance	Light Reflect	Mold & Mildew	Sag Resist	Low VOC	Wash	Impact	Scratch	Soil	Recycled Content	Recycle Program	30-Yr Warranty
15/16" Square Lay-in	1 CTN MIN Made-to-Order Sizes (3 Wks)	7/8" Thick		N/A	N/A	–	–	Class A	0.88 •	•	•	•	•	•	•	•	•	•	•
		4" – 6"	12" – 72"																
		6-1/2" – 30"	4" – 72"																
		30-1/2" – 48"	4" – 30"																

MORE ITEMS ▶

1 Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product. **GOOD** (NRC 0.60-0.65; CAC 35+) **BETTER** (NRC 0.70-0.75; CAC 35+) **BEST** (NRC 0.80+; CAC 35+)

SUSPENSION SYSTEMS

15/16" Prelude®

Blizzard White – Suspension System Finish

A color and texture coordinated suspension system to complement Ultima ceiling panels for a monolithic look and feel.

PHYSICAL DATA

Material
Wet-formed mineral fiber with DuraBrite® acoustically transparent membrane

Surface Finish
DuraBrite scrim with factory-applied latex paint

Fire Performance
ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled).

ASTM E1264 Classification
Type IV, Form 2, Pattern E
Fire Class A

Humidity/Sag Resistance
HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

Mold/Mildew Protection
Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

VOC Emissions
GREENGUARD Gold Certified
Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

PRODUCT CERTIFIED FOR LOW CHEMICAL EMISSIONS UL.COM/GG UL 2818
GREENGUARD GOLD

Acoustical Performance
CAC testing conducted using Prelude® XL® suspension system.

Primary (Embodied) Energy
See all LCA information on our EPDs.

High Recycled Content
Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines. HRC items contain 15% or greater post-consumer recycled ceilings.

Insulation Value
R Factor – 2.2 (BTU units)
R Factor – 0.39 (Watts units)

30-Year Performance Guarantee & Warranty
When installed with Armstrong® Suspension System. Details at armstrongceilings.com

Weight; Square Feet/Carton
1940 – 1.14 lbs/SF; 40 SF/ctn
1943 – 1.125 lbs/SF; 48 SF/ctn
1432 – 1.05 lbs/SF; 60 SF/ctn
1435 – 1.04 lbs/SF; 72 SF/ctn

Minimum Order Quantity
1 carton

Metric Items Available
1940M, 1943M – Metric items subject to extended lead times and minimum quantities.

ULTIMA®
ULTIMA® High NRC
Square Lay-in
fine texture

GREENGUARD Gold Certified (details below)

CLOSED LOOP RECYCLED CONTENT CEILING-2-CEILING

Declare℠ Living Building Challenge Compliant

SUSTAIN® High Performance Sustainable Ceiling Systems

UP TO 84% RECYCLED CONTENT

Calculate LEED contribution at armstrongceilings.com/greengenie

LEED: energy management; construction waste mgmt; regional materials; design for flexibility; EPD; recyclable/extended producer resp.; biobased materials; recycled content; sourcing of raw materials; material ingredient reporting; low emitting/materials; lighting quality; acoustics

▲ LOCATION DEPENDENT

VISUAL SELECTION

PERFORMANCE SELECTION

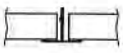
Dots represent high level of performance. $$

Edge Profile	Susp. Dwg. Pgs. 474-478 armstrongceilings com/catdwgs	Item No.	Dimensions (Inches)	UL Classified Acoustics NRC + CAC =	Total Acoustics[1] NRC CAC	Articulation Class	Fire Performance	Light Reflect	Mold & Mildew Protection: Bio-Block	Sag Resist: Humi-Guard+	Certified Low VOC Emissions	Durability: Wash	Durability: Impact	Durability: Scratch	Durability: Soil	Recycled Content	Recycle Program	30-Yr Warranty
ULTIMA®																		
15/16" Square Lay-in	1	**1420**	6 x 48 x 3/4"	N/A	N/A	–	–	Class A	0.88	•	•	•	•	•	•	•	•	•
	1	**1425**	6 x 60 x 3/4"	N/A	N/A	–	–	Class A	0.88	•	•	•	•	•	•	•	•	•
	1	**1990**	12 x 48 x 3/4"	0.65	N/A	–	–	Class A	0.88	•	•	•	•	•	•	•	•	•
	1	**1991**	12 x 60 x 3/4"	0.65	N/A	–	–	Class A	0.88	•	•	•	•	•	•	•	•	•
	1	**1992**	12 x 72 x 3/4"	0.65	N/A	–	–	Class A	0.88	•	•	•	•	•	•	•	•	•
	1	**1910** **1910HRC***	24 x 24 x 3/4" 24 x 24 x 3/4"	0.75 •	35 •	BETTER	–	Class A	0.88	•	•	•	•	•	•	•	• •	•
	1	**1913** **1913HRC***	24 x 48 x 3/4" 24 x 48 x 3/4"	0.75 •	35 •	BETTER	–	Class A	0.88	•	•	•	•	•	•	•	• •	•
	1	**1984**	24 x 60 x 3/4"	0.75 •	35 •	BETTER	–	Class A	0.88	•	•	•	•	•	•	•	•	•
	1	**1980**	24 x 72 x 3/4"	0.75 •	35 •	BETTER	–	Class A	0.88	•	•	•	•	•	•	•	•	•
Size Capabilities			**Width**	**Length**														
15/16" Square Lay-in	1CTN MIN Made-to-Order Sizes (3 Wks)		**3/4" Thick** 4"– 6" 6-1/2" – 30" 30-1/2" – 48"	12"* – 72" 4" – 72" 4" – 30"	N/A	N/A	–	–	Class A	0.88	•	•	•	•	•	•	•	•	•

[1] Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.
GOOD (NRC 0.60-0.65; CAC 35+) **BETTER** (NRC 0.70-0.75; CAC 35+) **BEST** (NRC 0.80+; CAC 35+)
* HRC items not included in made-to-order panels.

SUSPENSION SYSTEMS

15/16"



Prelude®

Blizzard White – Suspension System Finish
A color and texture coordinated suspension system to complement Ultima ceiling panels for a monolithic look and feel.

PHYSICAL DATA

Material
Wet-formed mineral fiber with DuraBrite® acoustically transparent membrane.

Surface Finish
DuraBrite scrim with factory-applied latex paint.

Fire Performance
ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled).

ASTM E1264 Classification
Type IV, Form 2, Pattern E
Fire Class A

Humidity/Sag Resistance
HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

Mold/Mildew Protection
Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

VOC Emissions
GREENGUARD Gold Certified
PRODUCT CERTIFIED FOR LOW CHEMICAL EMISSIONS UL.COM/GG UL 2818
GREENGUARD GOLD
Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

Acoustical Performance
CAC testing conducted using Prelude® XL® suspension system.

Primary (Embodied) Energy
See all LCA information on our EPDs.

High Recycled Content
Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines. HRC items contain 15% or greater post-consumer recycled ceilings.

Insulation Value
R Factor – 2.2 (BTU units)
R Factor – 0.39 (Watts units)

30-Year Performance Guarantee & Warranty
When installed with Armstrong® Suspension System. Details at armstrongceilings.com

Weight; Square Feet/Carton
1420, 1425 – 1.05 lbs/SF; 24 SF/ctn
1910, 1913, – 1.08 lbs/SF; 48 SF/ctn
1991 – 1.08 lbs/SF; 30 SF/ctn
1992 – 1.08 lbs/SF; 36 SF/ctn
1980 – 1.08 lbs/SF; 72 SF/ctn
1984 – 1.08 lbs/SF; 80 SF/ctn
1990 – 1.08 lbs/SF; 24 SF/ctn

Minimum Order Quantity
1 carton

Metric Items Available
1910M, 1913M, – Metric items subject to extended lead times and minimum quantities.

ULTIMA®
ULTIMA® High NRC

Square Lay-in
fine texture

CLOSED LOOP RECYCLED CONTENT
CEILING-2-CEILING

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▲ LOCATION DEPENDENT

VISUAL SELECTION

PERFORMANCE SELECTION
Dots represent high level of performance.

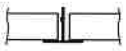
$$

Edge Profile	Susp. Dwg. Pgs. 474-478 armstrongceilings.com/catdwgs	Item No.	Dimensions (Inches)	UL Classified Acoustics NRC	UL Classified Acoustics CAC	Total Acoustics[1] NRC+CAC	Articulation Class	Fire Performance	Light Reflect	Mold & Mildew Protection: Bio-Block	Sag Resist: Humi-Guard+	Certified Low VOC Emissions	Durability: Wash	Durability: Impact	Durability: Scratch	Durability: Soil	Recycled Content	Recycle Program	30-Yr Warranty
ULTIMA® with AirGuard™ Coating Actively removes formaldehyde from indoor air.																			
15/16" Square Lay-in	1	1900	24 x 24 x 3/4"	0.75 •	35 •	BETTER	–	Class A	0.88 •	•	•	•	•	•	•	•	•	•	•
	1	1903	24 x 48 x 3/4"	0.75 •	35 •	BETTER	–	Class A	0.88 •	•	•	•	•	•	•	•	•	•	•

[1] Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.
GOOD (NRC 0.60-0.65; CAC 35+) **BETTER** (NRC 0.70-0.75; CAC 35+) **BEST** (NRC 0.80+; CAC 35+)

SUSPENSION SYSTEMS

15/16"



Prelude®

Blizzard White – Suspension System Finish
A color and texture coordinated suspension system to complement Ultima ceiling panels for a monolithic look and feel.

PHYSICAL DATA

Material
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Surface Finish
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Fire Performance
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ASTM E1264 Classification
Type IV, Form 2, Pattern E
Fire Class A

Humidity/Sag Resistance
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Mold/Mildew Protection
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VOC Emissions
GREENGUARD Gold Certified
PRODUCT CERTIFIED FOR LOW CHEMICAL EMISSIONS UL.COM/GG UL 2818
Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

GREENGUARD GOLD

Acoustical Performance
CAC testing conducted using Prelude® XL® suspension system.

Primary (Embodied) Energy
See all LCA information on our EPDs.

High Recycled Content
Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines. HRC items contain 15% or greater post-consumer recycled ceilings.

Insulation Value
R Factor – 2.2 (BTU units)
R Factor – 0.39 (Watts units)

30-Year Performance Guarantee & Warranty
When installed with Armstrong® Suspension System. Details at armstrongceilings.com

Weight; Square Feet/Carton
1900, 1903, – 1.08 lbs/SF; 48 SF/ctn

Minimum Order Quantity
1 carton

TechLine / 1 877 276-7876
armstrongceilings.com/commercial
(search: ultima)
BPCS-4595-220

Armstrong® CEILING & WALL SOLUTIONS

095100 2.6 - ACT3

STANDARD COLORS - NO ADDITIONAL COST

Matte

Arktura White

Jet Black

T-Grid White

Gloss

Brilliant White

Metallic Gloss

Silver Metallic

PREMIUM COLORS - ADDITIONAL COST

Aviator Gray
(matte or gloss)

Spirit Red
(matte only)

METALLIC

Burnished Bronze

Chilled Champagne

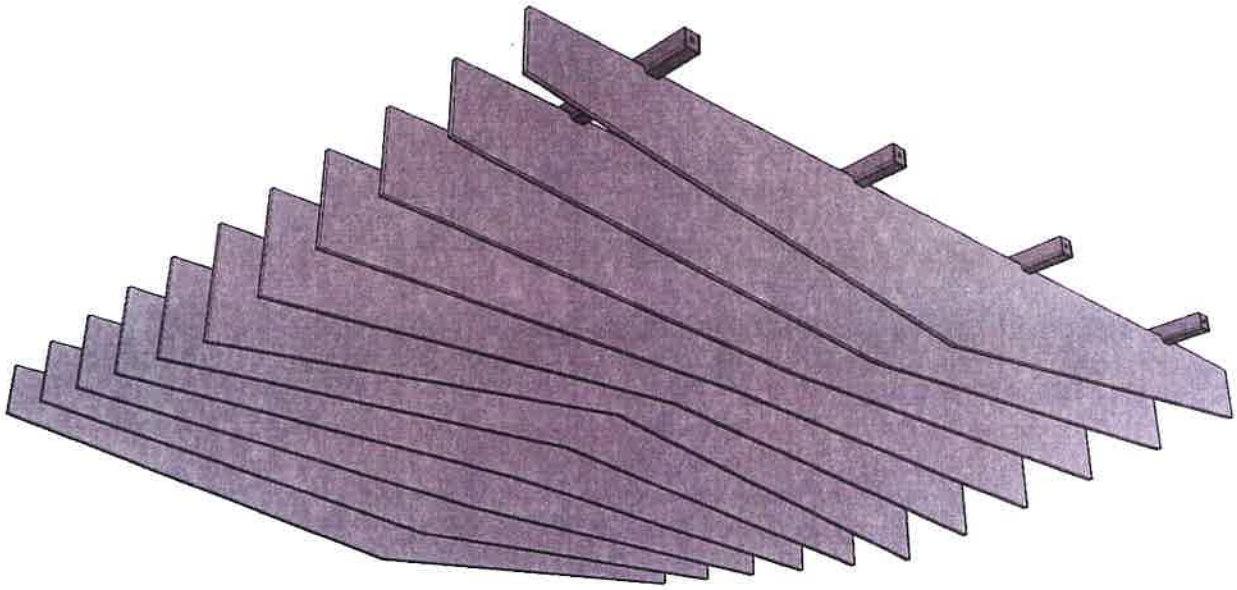
Note: All colors are powder coat, for interior use only.
Custom colors & exterior coating also available for an upcharge.

ATMOSPHERA RISE

INSTALLATION MANUAL

AT-RS1001-AA

ARKTURA



SUPPLIED PARTS LIST

11x

① FINS

4x

② RIBS

2x

③ UNISTRUT

44x

④ S. S. TAB

11x

⑤ STEEL BRIDGE CLIP

⑥ 1 1/2" STEEL FINISH NAIL

1x

⑦ BRIDGE ALIGNMENT TOOL

2x

⑧ UNISTRUT CONNECTOR

16x

⑨ 1/4"-20 CARRIAGE BOLT, NYLOCK NUT & WASHER

4x

⑩ A1008 3/8"-16 CHANNEL NUT

4x

⑪ 3/8"-16 NUT & 3/8" SPLIT LOCK WASHER

4x

⑫ S.S. FLAT COMPRESSION PLATE

11x

⑬ ALIGNMENT PIN

PARTS BY CONTRACTOR:

3/8"-16 THREADED ROD (PER PROJECT STRUCTURAL ENGINEER'S APPROVAL)

RECOMMENDED TOOLS FOR INSTALLATION:

7/16" STANDARD SOCKET

7/16" DEEP WELL SOCKET

NEEDLE-NOSE PLIERS

ATMOSPHERA GUIDELINES AND LAYOUT

PRODUCT DESCRIPTION

Atmosphera® ceiling systems bring truly innovative, cutting-edge beauty to architecture and interior design. Fins are dynamically profiled in one or even two directions to create cloud-like effects - concealing unsightly building elements, while maintaining openness for access.

STORAGE AND HANDLING

Atmosphera shall be stored in a dry interior location and shall remain in boxes prior to installation to avoid damage. The boxes shall be stored in a vertical position and not stacked with any weight. Proper care should be taken when handling to avoid damage or soiling.

SITE CONDITIONS

Areas to receive Atmosphera® shall be free of construction dust and debris. Atmosphera® should only be installed in closed and acclimatized buildings. Interior systems cannot be used in exterior applications, where standing water is present, or where moisture will come in direct contact with the ceiling. Proper design for both supply air and return air, maintenance of the HVAC filters, and building space are essential to minimize soiling. Before starting the HVAC system, make sure supply air is properly filtered and the building interior is free of construction dust.

Modules will be shipped in a crate no larger than 100"L x 46"W x 60"H, and a maximum weight of approximately 2500 lbs. Weight may exceed in some cases. In order to receive the shipment, a loading dock or forklift is necessary to offload the product from the delivery truck. Verify the delivery path into and through the building and ensure that a crate this size will be able to travel to the install location without any obstructions, taking note of any doors or elevators that may restrict access.

All wet work must be complete and dry prior to installation.

SETUP AND UNPACKAGING

Warning: Use extreme care when slitting tape with a knife to prevent damage to fins inside.

Atmosphera® box should only be opened in a clean area, free of construction dust. Remove tape over box seams, taking care not to damage Atmosphera® parts inside. Wearing white cloth gloves, carefully remove the Atmosphera® components from the packing materials. Verify that all items listed on the packing list are included.

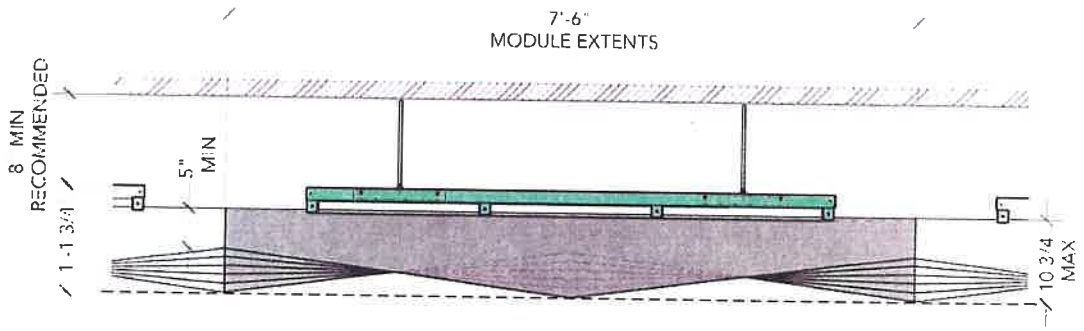
Inspect the product after opening. If product appears to be damaged or defective on visual inspection, do not install.

ASSEMBLY NOTES AND WARNINGS

- Read and follow all instructions before installation, and save these instructions for future reference. Failure to follow these instructions could lead to damage to the Atmosphera® system or to personal injury or death.
- Do not attempt to modify the unit or these instructions. Arktura does not assume any liability for any installation not in compliance with these instructions.
- Installation should only be conducted by qualified personnel, and should be in accordance with all applicable codes and standards including fire-safety and seismic codes and standards.
- Use nitrile gloves while handling material.
- Keep Atmosphera® unit dry and clean during installation.
- Assembly of Atmosphera® requires two or more people to prevent damage to fins.
- Layout and assemble fins on a clean surface to prevent soiling the fins.
- When lifting individual fins, hold fin vertically to avoid bending prior to assembly.

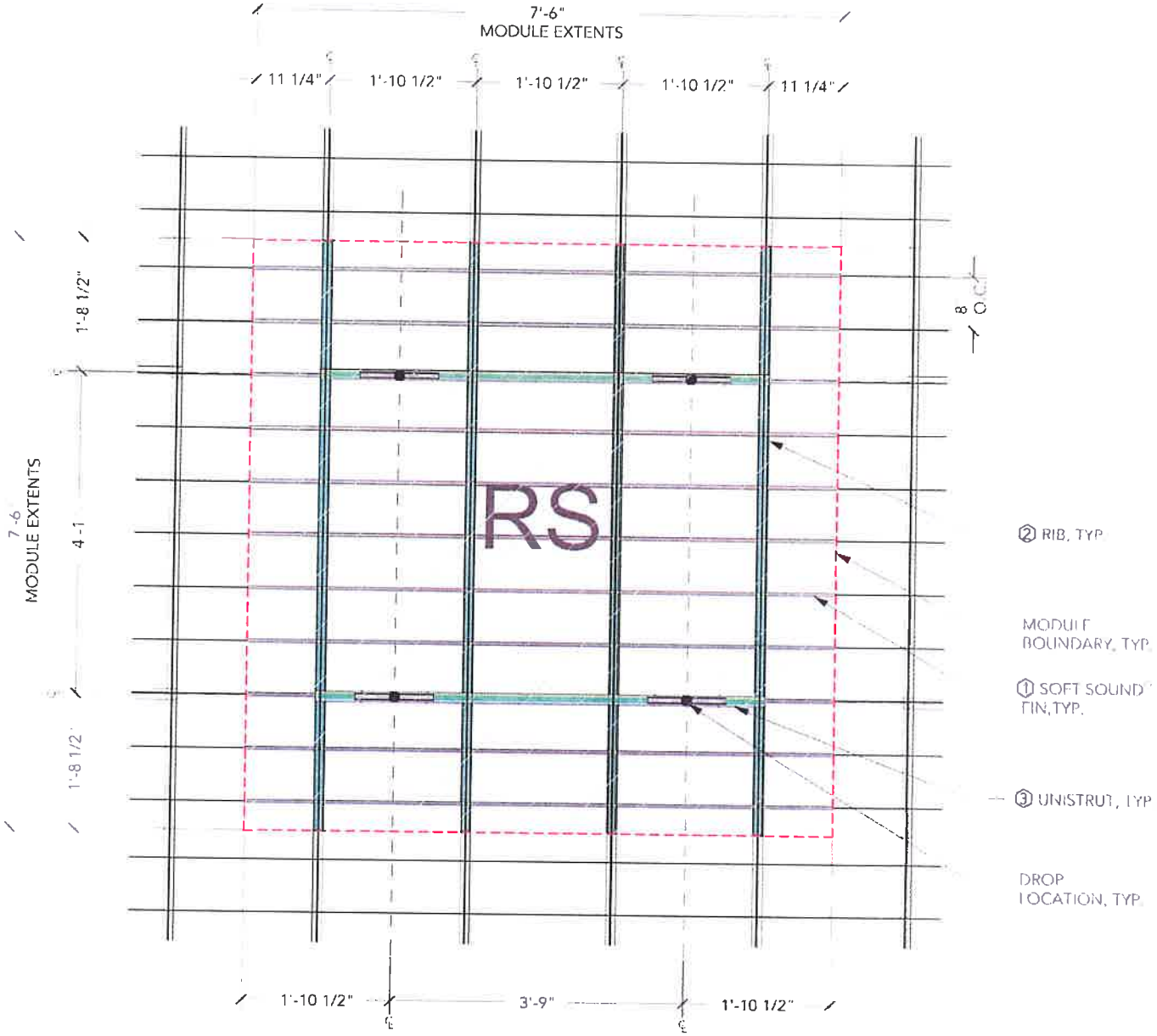
ATMOSPHERA MODULE LAYOUT

ELEVATION



PLAN LAYOUT

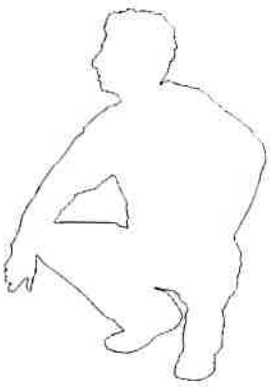
Each module weighs 113 lbs

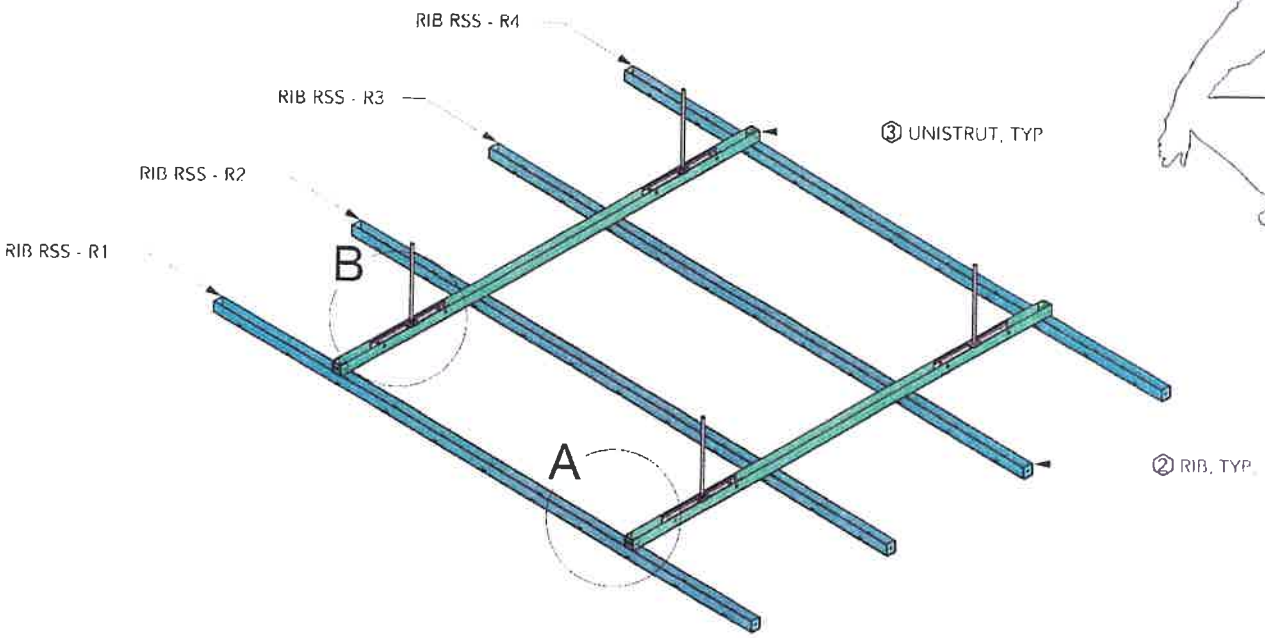


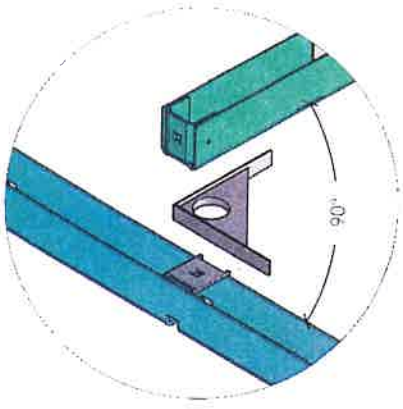
ATMOSPHERA STRUCTURE ASSEMBLY

STRUCTURE ASSEMBLY

- Lay out the (2)ribs and (1)lins on a clean surface.
- Connect the (2)ribs and (3)unistruts with the provided (7)carriage bolt, nut, and washer.
- Verify that the (2)ribs and (3)unistruts are 90° to each other.
- After installing the (2)ribs and (3)unistruts on the floor, carefully lift module up to attach to pre-installed threaded rod. Refer to page 3 for drop location.

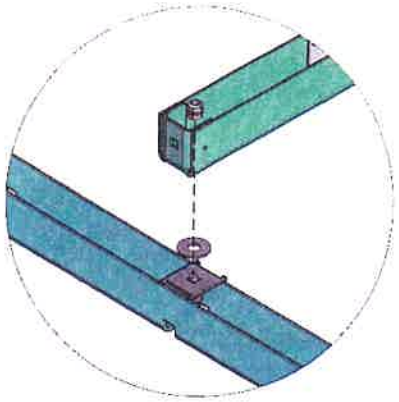






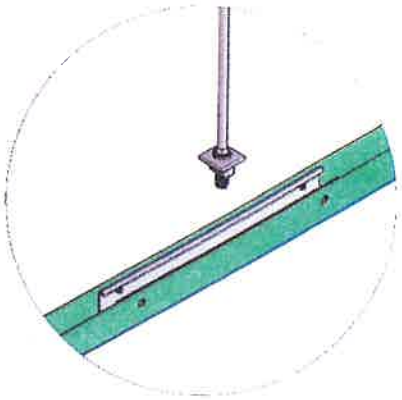
A STRUCTURE LAYOUT

Align the (2)rib and (3)unistrut together. Verify that the parts are 90° to each other.



A STRUCTURE ATTACHMENT

Place the (9)carriage bolt through the (2)rib and tighten unistrut & rib together using the (9)washer and nut.



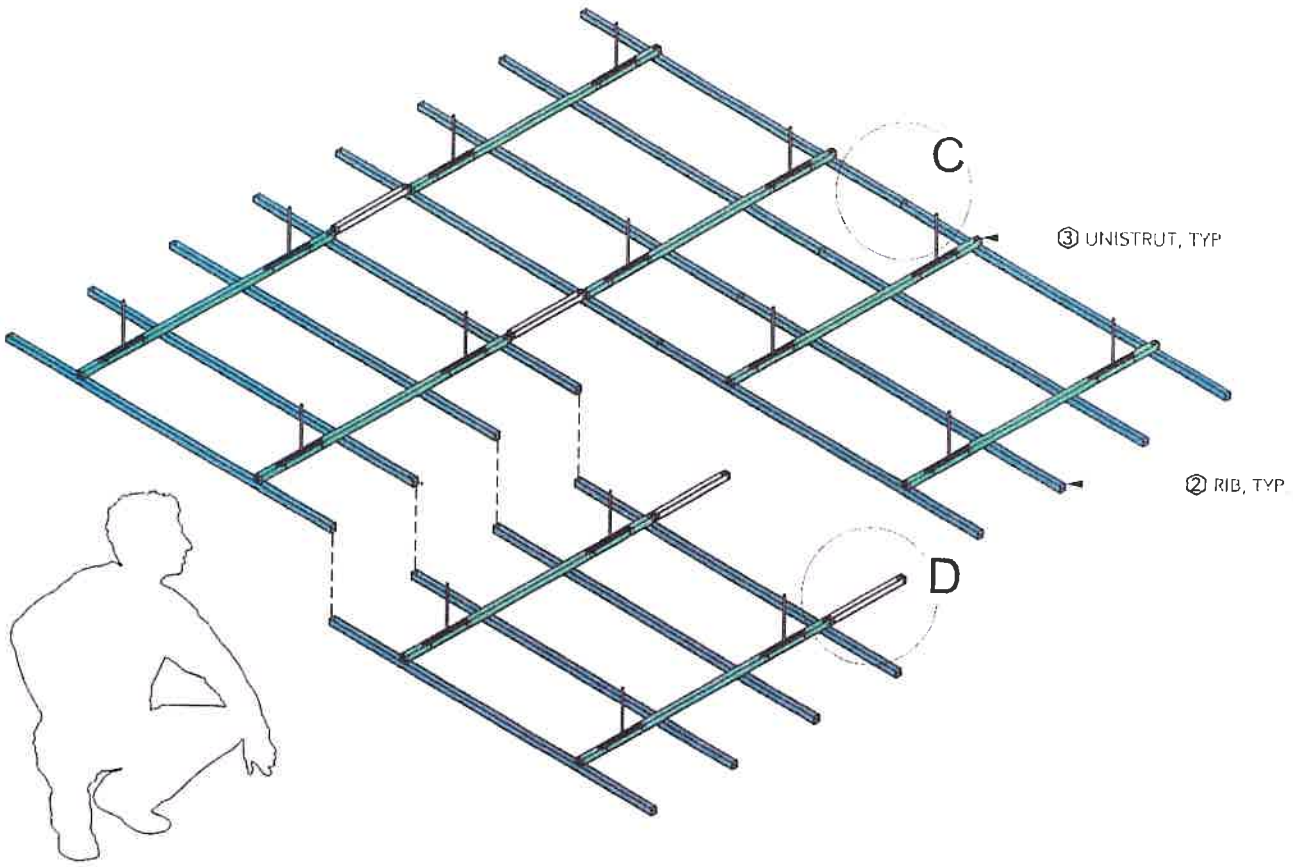
B THREADED ROD ATTACHMENT

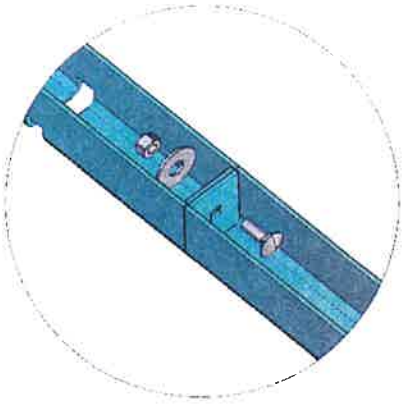
Screw the (1)nut, (1)washer (2) plate, and (10) channel nut onto the threaded rod, then carefully raise the module up. Rotate the channel nut so it fits into the (3)unistrut. Once in place rotate the (10)channel nut 90° degrees and it will set into place. Lastly tighten the nut and plate down onto the unistrut.

ATMOSPHERA FRAME INSTALLATION

MODULE CONNECTION

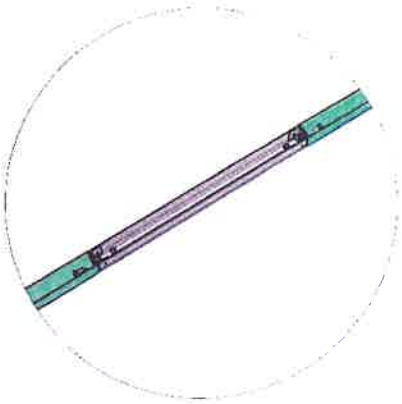
- Carefully lift the modules into place with 3 or more people, taking care not to scratch the bottom of the ribs.





C MODULE CONNECTION

Use the ⑨ carriage bolt, nylock nut & washer to connect adjacent ② ribs together.



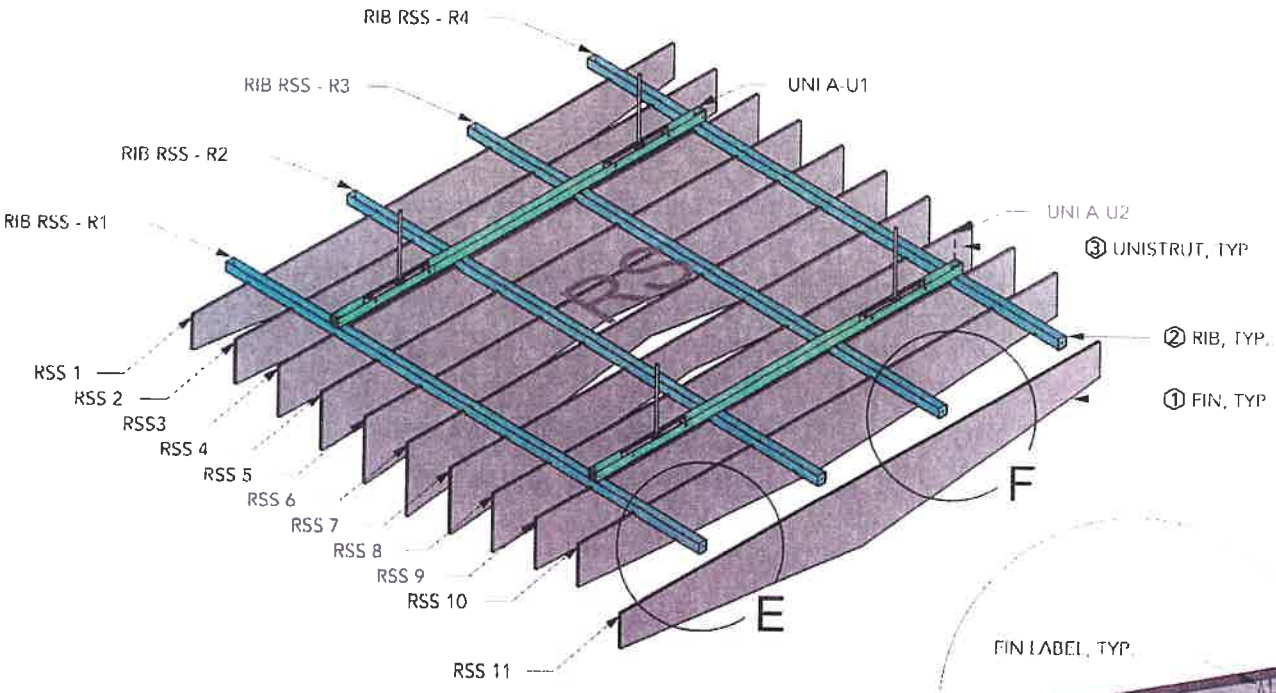
D UNISTRUT CONNECTION

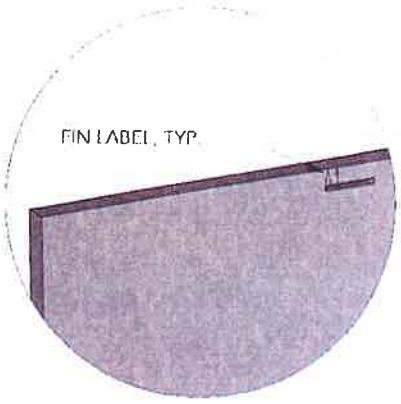
Use the ⑨ carriage bolt, nylock nut & washer to connect ③ unistrut between modules.

ATMOSPHERA FIN CONNECTION

FIN CONNECTION

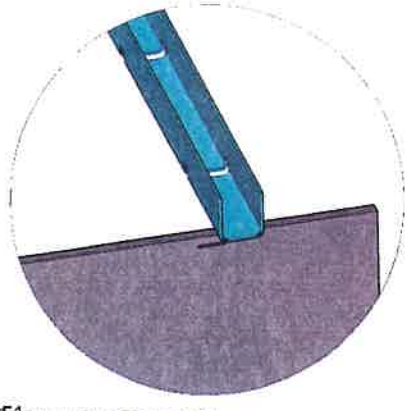
- When lifting individual fins, hold vertically to avoid creasing prior to assembly.
- When fin is under the unistrut it may be difficult to install, use a needle nose pliers for easier access.
- Fins should be installed with at least 2 people to avoid creasing the fins.
- Leader location indicates fin label side. All labels should be oriented the same way.





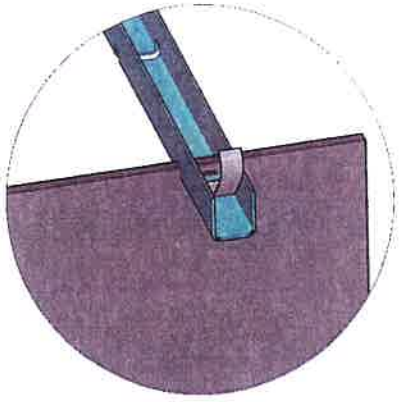
E FIN LABEL

Fin label is located on top of the first slot on the left.



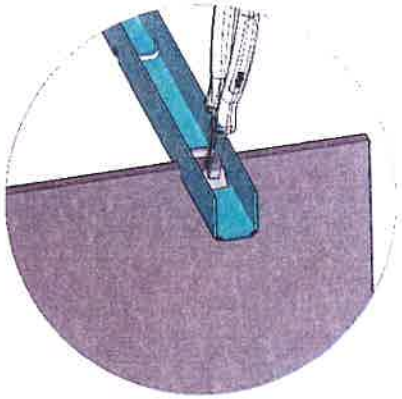
F1 FIN PLACEMENT

Carefully slide the ①fin into each of the slots of the ②rib. Verify that all four slots in the fin are contained by the ②rib. And the slot in the fin is not visble from below.



F2 TAB INSERTION

Insert a stainless steel ④tab into each of the slots in the ①fin.



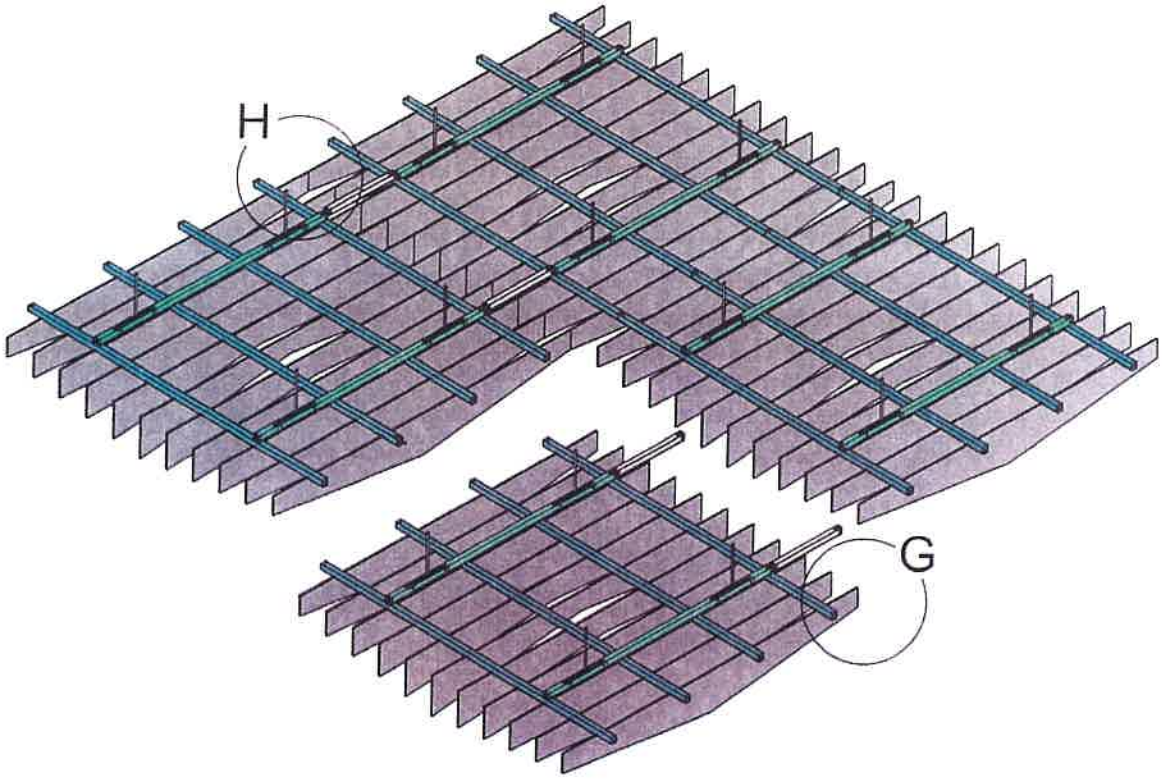
F3 TAB LOCKING

Bend the edges of the ④tab into a W shape to prevent movement. After bending the ④tab into place verifiy that it cannot be seen from below.

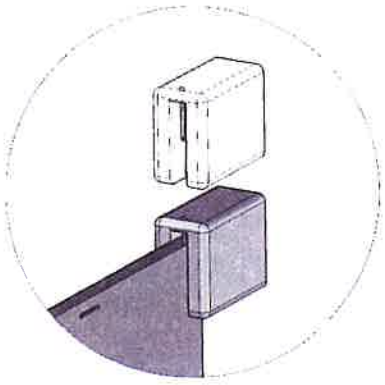
ATMOSPHERA FIN ASSEMBLY

FIN ASSEMBLY

• Once all the modules are installed, adjacent fins may have minor misalignment at edges. Use provided bridge clip where needed to align fins.

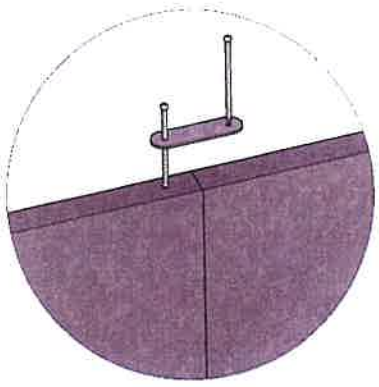


• Use the bridge alignment tool to pierce a locating hole in the softsound fin. Then pierce a hole towards the bottom of the side where the two fins meet. Repeat for the adjacent fin.
• Once you have pierced a hole on both fins,align bridge clip and nail with the holes and press down until fins have aligned and bridge clip is set into place.



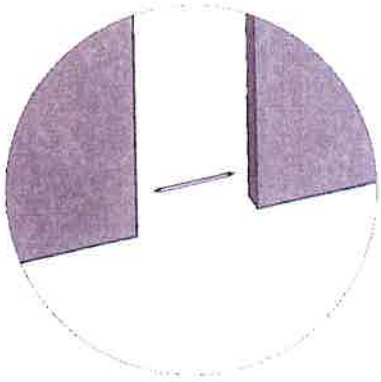
G BRIDGE ALIGNMENT TOOL

Use ⑦ bridge alignment tool to pierce a hole into the ① fin for easy install of the bridge clip. Apply to adjacent fin.



H1 BRIDGE CLIP ATTACHMENT

Place ⑥ nail in ⑤ bridge clip, and align with hole made by the ⑦ bridge alignment tool.



H2 BRIDGE ALIGNMENT PIN

Place ③ alignment pin into the bottom portion of the ① fin to ensure alignment.

ATMOSPHERA CARE AND CLEANING

CARE AND CLEANING

SOFT SOUND

- Use a can of compressed air or vacuum to remove dirt and dust accumulation
- If a wet spill should occur, blot up the liquid as soon as possible with a dry cloth to avoid absorption. Wet, soiled areas may be spot cleaned with warm water or a mild, dry cleaning solvent. Allow at least 24 hours to dry.
- Avoid excessive amounts of water and aggressive rubbing as this can change the surface appearance of the material.
- Ensure adequate ventilation if the product is likely to be subject to excessive moisture.

POWDER COATED SURFACES

- Use a natural cleaner such as mild soap and water for general cleaning.
- Use non abrasive/non marring cloth such as microfiber or polishing cloth.
- Do not power wash or use any high-pressure cleaning of components at anytime.

STAINLESS STEEL

- Use a damp cloth, or sponge with water, mild clear detergent, or disinfectant
- Gently wipe the surface with medium pressure.
- Lightly spray parts with a clear cleaning agent or disinfectant and wipe clean with a clean, dry cloth, taking care not to overspray onto adjacent materials.

TOUCHUP PAINT FOR POWDER COATED SURFACES

- prepare with alcohol swab or pad to make sure area where metal showing is clean of debris.
- Shake bottle to mix paint, apply conservatively until area is covered.
- Apply second coat, once first coat is dry, if necessary.

CHECK FASTENERS PERIODICALLY

- Perform a weekly check that all fasteners are in place and any tracks/mechanisms/fasteners that are loose by misuse or abuse should be repaired and contact Arktura, LLC immediately to assess appropriate action.

SOFT SOUND® **Product Matrix**

ARKTURA

Product	Group A	Group B	Wood
Atmosphera® Analog	●		○
Atmosphera® Contour		●	
Atmosphera® Standard - Curved Fin**		●	
Atmosphera® Standard - Straight Fin**	●		○
SoftFold®	●		○
SoftGrid®	●		○
SoftPlanes®	●		○
SoftScreen™	●		○
Soft Sound® Backer Panels & Inserts	●		○
SoundAngle®	●		○
SoundBar®	●		○
SoundEdge®	●		○
SoundStar®	●		○
TriSoft®	●		○

● Standard

○ Optional Colors - Upcharge for Finish

Color Group	Thickness	Fire Rating
Color Group A	12 mm	FR - Class A
Color Group B	9 mm	FR - Class A
Wood	12 mm	FR - Class A

*See Soft Sound® specification for detailed information

** Straight or Curved in plan view

SOFT SOUND® Color Group A

ARKTURA

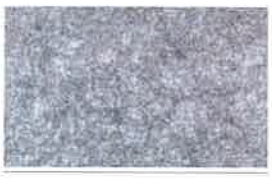
Available Colors:

Material Thickness:12 mm
Fire Rating: Class A


Snow


White


Marble


Heather Gray


Graphite


Carbon


Onyx


Sand

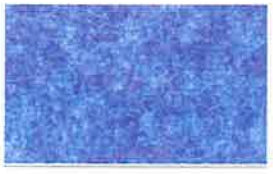

Taupe


Lemon


Tangerine


Apple


Whisper


Sky Blue


Denim


Kiwi

SOFT SOUND® Color Group B

ARKTURA

Available Colors:

Material Thickness: 9 mm
Fire Rating: Class A


White

Frost

Light Beige


Light Gray


Smoke


Slate Gray


Charcoal


Black


Desert


Purple


Navy Blue

Canary Yellow

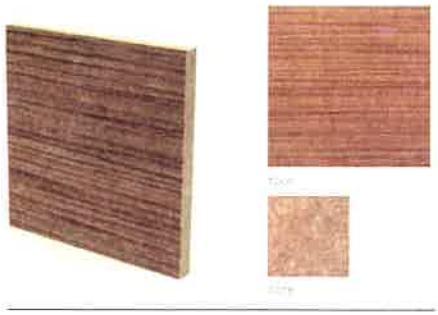

Lime Green


Bright Orange


Red

SOFT SOUND® Wood Textures

ARKTURA



White Oak

Gray Ash

Golden Oak

American Walnut

Oak

Charred Ash

Charred Oak

Ebony

ARKTURA

ARKTURA LLC
18225 S. Figueroa
Gardena, CA 90248

1.310.532.1050
info@arktura.com
www.arktura.com

ARKTURA Soft Sound® - COLOR GROUP A

Fire Rating: ASTM E84-14 Class A

Sound Absorption: ASTM C423-90A for raw material

12mm:
NRC .35 (no air gap)
NRC .70 (50mm air gap)
NRC .80 (100mm air gap)
NRC .90 (150mm air gap)

*results for raw material, see TrueNRC™ Testing Brochure for system results

Environmentally Sustainable & Beneficial:

- Recyclable: Soft Sound® products are 100% PET
- Low VOC product: no added urea formaldehyde.

Cleaning & Handling:

- Vacuum the surface of the material to remove dust accumulation.
- If a wet spill should occur, blot up the liquid as soon as possible with a dry cloth to avoid absorption.
- Soiled areas may be spot cleaned with warm water or a mild, dry cleaning solvent. Avoid excessive amounts of water and aggressive rubbing as this can change the surface appearance of the material.
- Ensure adequate ventilation if the product is likely to be subject to excessive moisture.

Project Conditions

- All wet work must be complete and dry prior to installation. Avoid direct exposure Soft Sound® to sunlight or warranty will be void. Installation shall be carried out where the temperature is between 40 degrees F and 90 degrees F. These temperature conditions must be maintained throughout the life of the product or warranty will be void.

Soft Sound® Material Finish

- Soft Sound® acoustical material is produced by felting 100% PET plastic. In some colors a beautiful heathering pattern becomes visible as a result of this traditional manufacturing process, and will result in natural variations in color and patterns from batch to batch and sheet to sheet.

ARKTURA

ARKTURA LLC
18225 S. Figueroa
Gardena, CA 90248
1.310.532.1050
info@arktura.com
www.arktura.com

ARKTURA Soft Sound® - COLOR GROUP B

Fire Rating: ASTM E84 Class A / CAN ULC S102

Sound Absorption: ASTM E795 for raw material

9mm:
NRC .75 (50mm air gap)

*results for raw material, see TrueNRC™ Testing Brochure for system results

Environmentally Sustainable & Beneficial:

- Recyclable: Soft Sound® products are 100% PET
- Low VOC product: no added urea formaldehyde.

Cleaning & Handling:

- Vacuum the surface of the material to remove dust accumulation.
- If a wet spill should occur, blot up the liquid as soon as possible with a dry cloth to avoid absorption.
- Soiled areas may be spot cleaned with warm water or a mild, dry cleaning solvent. Avoid excessive amounts of water and aggressive rubbing as this can change the surface appearance of the material.
- Ensure adequate ventilation if the product is likely to be subject to excessive moisture.

Project Conditions

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DUNE™

Square Lay-in & Tegular
fine texture

SUSTAIN®
High Performance
Sustainable
Ceiling Systems

095100 2.6 - ACT4

Dune™ Square Lay-in panels with Prelude® XL® 15/16" suspension system
(Pgs. 458-459)

Dune Tegular panels with Interlude® XL HRC 9/16" suspension system
(Pgs. 452-453)

This durable, fine-textured panel offers a non-directional visual.

KEY SELECTION ATTRIBUTES

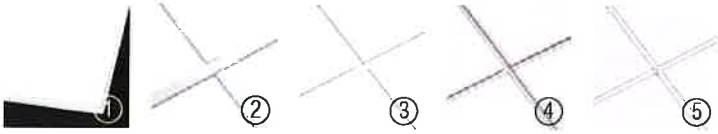
- Dune™ panels are part of the Sustain® portfolio, and meet the most stringent sustainability compliance standards today
- Upgrade look at a modest price
- Durable – Scratch-resistant
- Non-directional visual reduces scrap and installation time
- Product can be recycled through the Armstrong Ceilings Recycling Program
- USDA Certified Biobased Product, 99%
- Ceiling-2-Ceiling™ Post-consumer Recycled Content options: Items 1773HRC, 1774HRC, 1775HRC, 1776HRC, 1777HRC (check armstrongceilings.com/greengenie)
- 30-Year Limited System Warranty against visible sag (excludes items 1796 and 1798), mold and mildew
- 10-Year replacement panel available for items 1772, 1773, 1774, 1775, 1776

10-YEAR REPLACEMENT PANEL AVAILABILITY

COLOR

White
(WH)

DETAILS (Other Suspension Systems compatible. Refer to listing on page 307.)



1. Dune™ Tegular
2. Dune™ Square Lay-in with Prelude® 15/16" suspension system
3. Dune™ Tegular with Suprafine® 9/16" suspension system
4. Dune™ Tegular with Silhouette® XL® 9/16" suspension system with 1/4" reveal
5. Dune™ Tegular with Interlude® XL® HRC 9/16" suspension system

DUNE™

Square Lay-in & Tegular
fine texture

CLOSED LOOP RECYCLED CONTENT
CEILING-2-CEILING

GREENGUARD Gold Certified
(details below)

Declare℠ Living Building Challenge Compliant

SUSTAIN® High Performance Sustainable Ceiling Systems

UP TO 56% RECYCLED CONTENT

Calculate LEED contribution armstrongceilings.com/greengenie

LEED®: energy management ✓ | construction waste mgmt ✓ | regional materials ✓ | design for flexibility ✓ | EPD ✓ | recyclable/ extended producer resp. ✓ | biobased materials ✓ | recycled content ✓ | sourcing of raw materials ✓ | material ingredient reporting ✓ | low emitting materials ✓ | lighting quality ✓ | acoustics ✓

▲ LOCATION DEPENDENT

VISUAL SELECTION

PERFORMANCE SELECTION
Dots represent high level of performance. $$$$

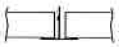
Edge Profile	Susp. Dwg. Pgs. 474-478 armstrongceilings.com/catdwgs	Item No.	Dimensions (Inches)		UL Classified Acoustics NRC	+ CAC	= Total Acoustics[1]	Fire Performance	Light Reflect	Mold & Mildew Protection	Sag Resist	Certified Low VOC Emissions	Scratch	Recycled Content	Recycle Program	30-Yr Warranty
DUNE™ Square Lay-in										Bio-Block	Humi-Guard+		Durability			
15/16" Square Lay-in	1	**1772**	24 x 24 x 5/8"	□	0.50	30	–	Class A	0.81 •	•	•	•	•	Std	•	•
	1	**1850**	24 x 24 x 5/8"	□	0.50	35 •	–	Fire Guard™	0.81 •	•	•	•	•	Std	•	•
	1	**1773** **1773HRC**	24 x 48 x 5/8"	▭	0.50	30	–	Class A	0.81 •	•	•	•	•	Std •	•	•
	1	**1851**	24 x 48 x 5/8"	▭	0.50	35 •	–	Fire Guard	0.81 •	•	•	•	•	Std	•	•
	1	**1796**	20 x 60 x 3/4"	▭	0.50	35 •	–	Class A	0.81 •	•	Std	•	•	•	•	1-Yr
	1	**1798**	30 x 30 x 3/4"	□	0.50	35 •	–	Class A	0.81 •	•	Std	•	•	•	•	1-Yr
DUNE™ Size Capabilities			**Width**	**Length**												
15/16" Square Lay-in	Made-to-Order Sizes (4-6 Wks)		3/4" or 5/8" Thick		N/A	N/A	–	Class A	0.81 •	•	Std	•	•	Std	•	1-Yr
			12" - 30"	18" - 72"												

MORE ITEMS ▶

[1] Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.

SUSPENSION SYSTEMS

15/16"



Prelude® XL®
Prelude® XL® Fire Guard

PHYSICAL DATA

Material
Wet-formed mineral fiber

Surface Finish
Factory-applied latex paint

Fire Performance
ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled). Fire Guard™: A fire-resistive ceiling when used in applicable UL assemblies (Class A).

ASTM E1264 Classification
Type III, Form 2, Pattern C E
Fire Class A

Humidity/Sag Resistance
HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications. Excludes large made-to-order panels.

Mold/Mildew Protection
Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

Acoustical Performance
CAC testing conducted using Silhouette® suspension system.

VOC Emissions
GREENGUARD Gold Certified
PRODUCT CERTIFIED FOR LOW CHEMICAL EMISSIONS UL.COM/GG UL 2818
Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

GREENGUARD GOLD

Primary (Embodied) Energy
See all LCA information on our EPDs.

High Recycled Content
Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines. HRC items contain 15% or greater post-consumer recycled ceilings.

Insulation Value
R Factor – 1.6 (BTU units)
R Factor – 0.28 (Watts units)

30-Year Performance Guarantee & Warranty
When installed with Armstrong® Suspension System. Details at armstrongceilings.com (Excludes items 1796, 1798, and large other size panels)

Weight; Square Feet/Carton
1772 – 0.94 lbs/SF; 64 SF/ctn
1773 – 0.88 lbs/SF; 64 SF/ctn
1796 – 1.33 lbs/SF; 67 SF/ctn
1798 – 1.14 lbs/SF; 50 SF/ctn
1850 – 1.19 lbs/SF; 48 SF/ctn
1851 – 1.22 lbs/SF; 64 SF/ctn

Minimum Order Quantity
1 carton, excludes made-to-order panels

Metric Items Available
1772M, 1850M, 1773M, 1851M, 1796M, 1798M – Metric items are subject to extended lead times and minimum quantities. Contact your representative for more details.

DUNE™

Square Lay-in & Tegular
fine texture

CLOSED LOOP RECYCLED CONTENT
CEILING-2-CEILING

GREENGUARD Gold Certified
(details below)

Declare℠
Living Building Challenge Compliant

SUSTAIN®
High Performance Sustainable Ceiling Systems

UP TO 56% RECYCLED CONTENT

Calculate LEED contribution at armstrongceilings.com/greengenie

LEED® ✓ energy management ✓ construction waste mgmt ✓ regional materials ✓ design for flexibility ✓ EPD ✓ recyclable/ extended producer resp. ✓ biobased materials ✓ recycled content ✓ sourcing of raw materials ✓ material ingredient reporting ✓ low emitting/ materials ✓ lighting quality ✓ acoustics

▲ LOCATION DEPENDENT

VISUAL SELECTION

PERFORMANCE SELECTION
Dots represent high level of performance.

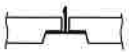
$$$

Edge Profile	Susp. Dwg. Pgs. 474-478 armstrongceilings.com/catdwgs	Item No.	Dimensions (Inches)		UL Classified Acoustics NRC	+ CAC	= Total Acoustics[1]	Fire Performance	Light Reflect	Mold & Mildew Protection (Bio-Block)	Sag Resist (Humi-Guard+)	Certified Low VOC Emissions	Scratch (Durability)	Recycled Content	Recycle Program	30-Yr Warranty
DUNE™ Tegular																
15/16" Angled Tegular	12	**1774**	24 x 24 x 5/8"	□	0.50	35 •	–	Class A	0.81 •	•	•	•	•	Std •	•	•
	12	**1853**	24 x 24 x 5/8"	□	0.50	35 •	–	Fire Guard	0.81 •	•	•	•	•	Std	•	•
	12	**1776**	24 x 48 x 5/8"	▭	0.50	35 •	–	Class A	0.81 •	•	•	•	•	Std •	•	•
9/16" Beveled Tegular	29, 44, 48, 52, 56	**1775**	24 x 24 x 5/8"	□	0.50	35 •	–	Class A	0.81 •	•	•	•	•	Std •	•	•
	29, 44, 48, 52, 56	**1852**	24 x 24 x 5/8"	□	0.50	35 •	–	Fire Guard	0.81 •	•	•	•	•	Std	•	•
	29, 44, 48, 52, 56	**1777**	24 x 48 x 5/8"	▭	0.50	35 •	–	Class A	0.81 •	•	•	•	•	Std •	•	•
DUNE™ Size Capabilities			Width	Length												
15/16" & 9/16" Angled Tegular	Made-to-Order Sizes (4-6 Wks)		3/4" or 5/8" Thick 12" - 30"	18" - 72"	N/A	N/A	–	Class A	0.81 •	•	Std	•	•	Std	•	1-Yr

[1] Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.

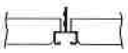
SUSPENSION SYSTEMS

15/16"

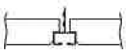


Prelude®
Prelude® XL®
Fire Guard

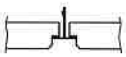
9/16"



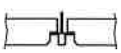
Silhouette® 1/4" Reveal



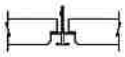
Silhouette 1/8" Reveal



Suprafine®
Suprafine® XL®
Fire Guard™



Interlude®



Sonata®

PHYSICAL DATA

Material
Wet-formed mineral fiber

Surface Finish
Factory-applied latex paint

Fire Performance
ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled). Fire Guard™: A fire-resistive ceiling when used in applicable UL assemblies (Class A).

ASTM E1264 Classification
Type III, Form 2, Pattern C E
Fire Class A

Humidity/Sag Resistance
HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications. Excludes large made-to-order panels.

Mold/Mildew Protection
Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

Acoustical Performance
CAC testing conducted using Silhouette® suspension system.

VOC Emissions
GREENGUARD Gold Certified
Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

PRODUCT CERTIFIED FOR LOW CHEMICAL EMISSIONS UL.COM/GG UL 2818

GREENGUARD GOLD

Primary (Embodied) Energy
See all LCA information on our EPDs.

High Recycled Content
Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines. HRC items contain 15% or greater post-consumer recycled ceilings.

Insulation Value
R Factor – 1.6 (BTU units)
R Factor – 0.28 (Watts units)

30-Year Performance Guarantee & Warranty
When installed with Armstrong® Suspension System. Details at armstrongceilings.com (Excludes items 1796, 1798, and large other size panels)

Weight; Square Feet/Carton
1774, 1775 – 0.75 lbs/SF; 64 SF/ctn
1776, 1777 – 0.75 lbs/SF; 64 SF/ctn
1852, 1853 – 1.20 lbs/SF; 48 SF/ctn

Minimum Order Quantity
1 carton, excludes made-to-order panels

Metric Items Available
1775M, 1777M – Metric items are subject to extended lead times and minimum quantities. Contact your representative for more details.

TechLine / 1 877 276-7876
armstrongceilings.com/commercial
(search: dune)
BPCS-4351-420

Armstrong CEILING & WALL SOLUTIONS

DUNE™

Square Lay-in & Tegular
fine texture

SUSTAIN®
High Performance
Sustainable
Ceiling Systems

Dune™ Square Lay-in panels with Prelude® XL® 15/16" suspension system
(Pgs. 458-459)

Dune Tegular panels with Interlude® XL HRC 9/16" suspension system
(Pgs. 452-453)

This durable, fine-textured panel offers a non-directional visual.

KEY SELECTION ATTRIBUTES

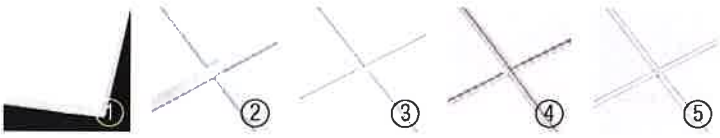
- new Dune™ panels are part of the Sustain® portfolio, and meet the most stringent sustainability compliance standards today
- Upgrade look at a modest price
- Durable – Scratch-resistant
- Non-directional visual reduces scrap and installation time
- Product can be recycled through the Armstrong Ceilings Recycling Program
- USDA Certified Biobased Product, 99%
- Ceiling-2-Ceiling™ Post-consumer Recycled Content options: items 1773HRC, 1774HRC, 1775HRC, 1776HRC, 1777HRC (check armstrongceilings.com/greengenie)
- 30-Year Limited System Warranty against visible sag (excludes items 1796 and 1798), mold and mildew
- 10-Year replacement panel available for items 1772, 1773, 1774, 1775, 1776

10-YEAR REPLACEMENT PANEL AVAILABILITY

COLOR

White
(WH)

DETAILS (Other Suspension Systems compatible. Refer to listing on page 307.)



1. Dune™ Tegular
2. Dune™ Square Lay-in with Prelude® 15/16" suspension system
3. Dune™ Tegular with Suprafine® 9/16" suspension system
4. Dune™ Tegular with Silhouette® XL® 9/16" suspension system with 1/4" reveal
5. Dune™ Tegular with Interlude® XL® HRC 9/16" suspension system

DUNE™

Square Lay-in & Tegular
fine texture

CLOSED LOOP RECYCLED CONTENT
CEILING-2-CEILING

GREENGUARD Gold Certified (details below)

Declare℠ Living Building Challenge Compliant

SUSTAIN® High Performance Sustainable Ceiling Systems

UP TO 56% RECYCLED CONTENT

Calculate LEED contribution at armstrongceilings.com/greengenie

LEED®: energy management ✓ | construction waste mgmt ✓ | regional materials ✓ | design for flexibility ✓ | EPD ✓ | recyclable/ extended producer resp. ✓ | biobased materials ✓ | recycled content ✓ | sourcing of raw materials ✓ | material ingredient reporting ✓ | low emitting/ materials ✓ | lighting quality ✓ | acoustics ✓

▲ LOCATION DEPENDENT

VISUAL SELECTION

PERFORMANCE SELECTION
Dots represent high level of performance.

$$$

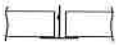
Edge Profile	Susp. Dwg. Pgs. 474-478 armstrongceilings.com/catdwgs	Item No.	Dimensions (Inches)		UL Classified Acoustics NRC	+ CAC	= Total Acoustics[1]	Fire Performance	Light Reflect	Mold & Mildew Protection	Sag Resist	Certified Low VOC Emissions	Scratch	Recycled Content	Recycle Program	30-Yr Warranty
										Bio-Block	Humi-Guard+		Durability			
DUNE™ Square Lay-in																
15/16" Square Lay-in	1	**1772**	24 x 24 x 5/8"		0.50	30	–	Class A	0.81 •	•	•	•	•	Std	•	•
	1	**1850**	24 x 24 x 5/8"		0.50	35 •	–	Fire Guard™	0.81 •	•	•	•	•	Std	•	•
	1	**1773** **1773HRC**	24 x 48 x 5/8"		0.50	30	–	Class A	0.81 •	•	•	•	•	Std •	•	•
	1	**1851**	24 x 48 x 5/8"		0.50	35 •	–	Fire Guard	0.81 •	•	•	•	•	Std	•	•
	1	**1796**	20 x 60 x 3/4"		0.50	35 •	–	Class A	0.81 •	•	Std	•	•	•	•	1-Yr
	1	**1798**	30 x 30 x 3/4"		0.50	35 •	–	Class A	0.81 •	•	Std	•	•	•	•	1-Yr
DUNE™ Size Capabilities				Width	Length											
15/16" Square Lay-in	Made-to-Order Sizes (4-6 Wks)		3/4" or 5/8" Thick	12" - 30"	18" - 72"	N/A	N/A	–	Class A	0.81 •	•	Std	•	•	Std	•	1-Yr

MORE ITEMS ▶

[1] Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.

SUSPENSION SYSTEMS

15/16"



Prelude® XL®

Prelude® XL® Fire Guard

PHYSICAL DATA

Material
Wet-formed mineral fiber

Surface Finish
Factory-applied latex paint

Fire Performance
ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled). Fire Guard™: A fire-resistive ceiling when used in applicable UL assemblies (Class A).

ASTM E1264 Classification
Type III, Form 2, Pattern C E
Fire Class A

Humidity/Sag Resistance
HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications. Excludes large made-to-order panels.

Mold/Mildew Protection
Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

Acoustical Performance
CAC testing conducted using Silhouette® suspension system.

VOC Emissions
GREENGUARD Gold Certified
Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

PRODUCT CERTIFIED FOR LOW CHEMICAL EMISSIONS UL.COM/GG UL 2818

GREENGUARD GOLD

Primary (Embodied) Energy
See all LCA information on our EPDs.

High Recycled Content
Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines. HRC items contain 15% or greater post-consumer recycled ceilings.

Insulation Value
R Factor – 1.6 (BTU units)
R Factor – 0.28 (Watts units)

30-Year Performance Guarantee & Warranty
When installed with Armstrong® Suspension System. Details at armstrongceilings.com (Excludes items 1796, 1798, and large other size panels)

Weight; Square Feet/Carton
1772 – 0.94 lbs/SF; 64 SF/ctn
1773 – 0.88 lbs/SF; 64 SF/ctn
1796 – 1.33 lbs/SF; 67 SF/ctn
1798 – 1.14 lbs/SF; 50 SF/ctn
1850 – 1.19 lbs/SF; 48 SF/ctn
1851 – 1.22 lbs/SF; 64 SF/ctn

Minimum Order Quantity
1 carton, excludes made-to-order panels

Metric Items Available
1772M, 1850M, 1773M, 1851M, 1796M, 1798M – Metric items are subject to extended lead times and minimum quantities. Contact your representative for more details.

DUNE™

Square Lay-in & Tegular
fine texture

CLOSED LOOP RECYCLED CONTENT
CEILING-2-CEILING

GREENGUARD Gold Certified
(details below)

Declare℠
Living Building Challenge Compliant

SUSTAIN®
High Performance Sustainable Ceiling Systems

UP TO 56% RECYCLED CONTENT

Calculate LEED contribution at armstrongceilings.com/greengenie

LEED® energy management ✓ | construction waste mgmt ✓ | regional materials ✓ | design for flexibility ✓ | EPD ✓ | recyclable/extended producer resp. ✓ | biobased materials ✓ | recycled content ✓ | sourcing of raw materials ✓ | material ingredient reporting ✓ | low emitting/materials ✓ | lighting quality ✓ | acoustics ✓

▲ LOCATION DEPENDENT

VISUAL SELECTION

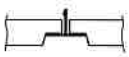
PERFORMANCE SELECTION
Dots represent high level of performance.

Edge Profile	Susp. Dwg. Pgs. 474-478 armstrongceilings.com/catdwgs	Item No.	Dimensions (Inches)		UL Classified Acoustics NRC	+ CAC	= Total Acoustics[1]	Fire Performance	Light Reflect	Mold & Mildew Protection (Bio-Block)	Sag Resist (Humi-Guard+)	Certified Low VOC Emissions	Scratch (Durability)	Recycled Content	Recycle Program	30-Yr Warranty
DUNE™ Tegular																
15/16" Angled Tegular	12	**1774** **1774HRC**	24 x 24 x 5/8" 24 x 24 x 5/8"	□	0.50	35 •	–	Class A	0.81 •	•	•	•	•	Std •	•	•
	12	**1853**	24 x 24 x 5/8"	□	0.50	35 •	–	Fire Guard	0.81 •	•	•	•	•	Std	•	•
	12	**1776** **1776HRC**	24 x 48 x 5/8" 24 x 48 x 5/8"	▭	0.50	35 •	–	Class A	0.81 •	•	•	•	•	Std •	•	•
9/16" Beveled Tegular	29, 44, 48, 52, 56	**1775** **1775HRC**	24 x 24 x 5/8" 24 x 24 x 5/8"	□	0.50	35 •	–	Class A	0.81 •	•	•	•	•	Std •	•	•
	29, 44, 48, 52, 56	**1852**	24 x 24 x 5/8"	□	0.50	35 •	–	Fire Guard	0.81 •	•	•	•	•	Std	•	•
	29, 44, 48, 52, 56	**1777** **1777HRC**	24 x 48 x 5/8" 24 x 48 x 5/8"	▭	0.50	35 •	–	Class A	0.81 •	•	•	•	•	Std •	•	•
DUNE™ Size Capabilities			Width	Length												
15/16" & 9/16" Angled Tegular		Made-to-Order Sizes (4-6 Wks)	3/4" or 5/8" Thick 12" - 30"	18" - 72"	N/A	N/A	–	Class A	0.81 •	•	Std	•	•	Std	•	1-Yr

[1] Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.

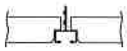
SUSPENSION SYSTEMS

15/16"

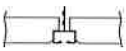


Prelude®
Prelude® XL®
Fire Guard

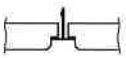
9/16"



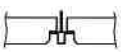
Silhouette® 1/4" Reveal



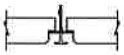
Silhouette 1/8" Reveal



Suprafine®
Suprafine® XL®
Fire Guard™



Interlude®



Sonata®

PHYSICAL DATA

Material
Wet-formed mineral fiber

Surface Finish
Factory-applied latex paint

Fire Performance
ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled). Fire Guard™: A fire-resistive ceiling when used in applicable UL assemblies (Class A).

ASTM E1264 Classification
Type III, Form 2, Pattern C E
Fire Class A

Humidity/Sag Resistance
HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications. Excludes large made-to-order panels.

Mold/Mildew Protection
Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

Acoustical Performance
CAC testing conducted using Silhouette® suspension system.

VOC Emissions
GREENGUARD Gold Certified
Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

PRODUCT CERTIFIED FOR LOW CHEMICAL EMISSIONS UL.COM/GG UL 2818

GREENGUARD GOLD

Primary (Embodied) Energy
See all LCA information on our EPDs.

High Recycled Content
Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines. HRC items contain 15% or greater post-consumer recycled ceilings.

Insulation Value
R Factor – 1.6 (BTU units)
R Factor – 0.28 (Watts units)

30-Year Performance Guarantee & Warranty
When installed with Armstrong® Suspension System. Details at armstrongceilings.com (Excludes items 1796, 1798, and large other size panels)

Weight; Square Feet/Carton
1774, 1775 – 0.75 lbs/SF; 64 SF/ctn
1776, 1777 – 0.75 lbs/SF; 64 SF/ctn
1852, 1853 – 1.20 lbs/SF; 48 SF/ctn

Minimum Order Quantity
1 carton, excludes made-to-order panels

Metric Items Available
1775M, 1777M – Metric items are subject to extended lead times and minimum quantities. Contact your representative for more details.

TechLine / 1 877 276-7876
armstrongceilings.com/commercial
(search: dune)
BPCS-4351-420

Armstrong CEILING & WALL SOLUTIONS

PRELUDE® XL® and PRELUDE XL HIGH RECYCLED CONTENT (HRC)

15/16" Exposed Tee System

095100 2.6

Declare℠ Living Building Challenge Compliant

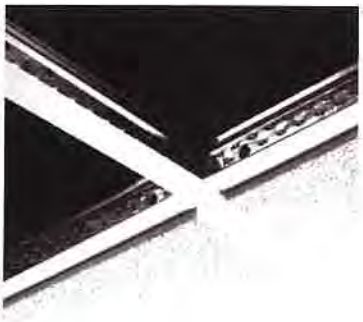
SUSTAIN™ High Performance Sustainable Ceiling Systems

UP TO 63% RECYCLED CONTENT

Calculate LEED contribution at armstrongceilings.com/greenguide

LEED® v4: energy management; construction waste mgmt; regional materials; design for flexibility; EPD; recyclable/ extended producer resp.; biobased materials; recycled content; sourcing of raw materials; material ingredient reporting; low emitting/ materials; lighting quality; acoustics

▲ LOCATION DEPENDENT



KEY SELECTION ATTRIBUTES

- Seismic Rx® Suspension System saves time and money; offer an ICC-ES approach to installations (ESR-1308)
- Prelude® XL® is part of the Sustain™ portfolio and meets the most stringent sustainability compliance standards today
- Peakform® profile increases strength and stability for improved performance during installation
- SuperLock™² main beam clip is engineered for a strong, secure connection and fast accurate alignment confirmed with an audible click; easy to remove/relocate
- Hot dipped galvanized coating inhibits red rusting better than electrogalvanized or painted systems
- Made-to-Order main beams and cross tees can be ordered for your project needs in one carton minimums
- Available with TrioGuard™ coating that resists dirt, bacteria, mold, mildew, and color fading
- XL² staked-on end detail provides secure locked connection; easy to remove, reuse, and relocate
- Fire Guard™ options offer UL design fire-rated performance
- Some items available in metric sizes
- 10-Year Limited System Warranty; 30-Year Limited Ceiling Systems Warranty when used with HumiGuard® Plus products

10-YEAR Availability

TYPICAL APPLICATIONS

- Retail
- Offices
- Education
- Hospitality
- Healthcare

Blizzard White powder-coated finish coordinates with Optima®, Ultima®, Calla®, and Lyra® ceiling panels for a clean, seamless, monolithic installed visual.

Linear lighting integration is easy with made-to-order main beam-to-cross tee adapters, rout spacing, miter spacing, and short cross tees (3" to 6" lengths).

VISUAL SELECTION

Item No.	Face Profile	Description	Rout Spacing	Dimensions (Inches)	Load Test Data (Lbs./Lin. Ft.) L/360	Load Test Data (Lbs./Lin. Ft.) Lbs./ Lin. Ft.	PERFORMANCE Fire Guard'"	PERFORMANCE Seismic Category	PACKAGING Pcs./ Ctn.	PACKAGING Lin. Ft./ Ctn.
Prelude XL (Red Numbers are Fire Guard Items)					4 Ft.	5 Ft.	Dots represent high level of performance.			
☐ 7301_ _◆	15/16"	12' HD Main Beam	6" O.C.	144 x 15/16 x 1-11/16"	16.73	8.73	–	•	20	240
☐ 7301HRC							–	•	20	240
☐ 8301_ _†							•	•	20	240
☐ 7300_ _◆	15/16"	12' ID Main Beam	6" O.C.	144 x 15/16 x 1-11/16"	13.5	6.35	–	–	20	240
☐ 8300_ _†							•	–	20	240
☐ 7305_ _◆	15/16"	140" ID Main Beam	10" O.C.	140 x 15/16 x 1-11/16"	10.73	8.73	–	–	20	233
☐ 7306_ _◆	15/16"	132" HD Main Beam	10", 30", 50", 56", 76", 96", 116", 122"	132 x 15/16 x 1-11/16"	16.73	8.73	–	•	20	220
☐ 7307_ _◆	15/16"	126" HD Main Beam	10", 30", 50", 70", 90", 110", 116"	126 x 15/16 x 1-11/16"	–	–	–	•	20	210
☐ 7302_ _◆	15/16"	10' ID Main Beam	6" O.C.	120 x 15/16 x 1-11/16"	13.5	6.35	–	–	20	200
☐ XL7380_ _◆	15/16"	8' Cross Tee	12" O.C.	96 x 15/16 x 1-11/16"	12.12**	–	–	•	20	160
☐ XL7390_ _◆	15/16"	6' Cross Tee	12" O.C.	72 x 15/16 x 1-11/16"	12.24*	–	–	•	20	120
☐ XL7357_ _◆	15/16"	5' Cross Tee	6", 12", 24", 30", 36", 48", 54"	60 x 15/16 x 1-11/16"	–	7.61	–	•	60	300
☐ XL7358_ _◆	15/16"	5' Cross Tee	6", 20", 30", 40", 54"	60 x 15/16 x 1-11/16"	–	7.61	–	•	60	300
☐ XL7341_ _***	15/16"	4' Cross Tee	12" O.C.	48 x 15/16 x 1-11/16"	16.89	–	–	•	60	240
☐ XL7341HRC							–	•	60	240
☐ XL8341_ _†							•	•	60	240
☐ XL7340_ _◆	15/16"	4' Cross Tee	12" O.C.	48 x 15/16 x 1-11/16"	12.25	–	–	•	60	240
☐ XL8340_ _†							•	•	60	240
☐ XL7342_ _◆	15/16"	4' Cross Tee	12" O.C.	48 x 15/16 x 1-1/2"	7.8	–	–	•	60	240
☐ XL7348_ _◆	15/16"	4' Cross Tee	12"	48 x 15/16 x 1-3/8"	6.78	–	–	•	60	240
☐ XL7330_ _***	15/16"	3' Cross Tee	–	36 x 15/16 x 1-11/16"	20.3 @ 3'	–	–	•	60	180
☐ XL7378_ _◆	15/16"	30" Cross Tee	–	30 x 15/16 x 1-3/8"	16.54 @ 2.5'	–	–	•	60	150
☐ XL7328_ _◆	15/16"	2' Cross Tee	–	24 x 15/16 x 1-3/8"	36.0 @ 2'	–	–	•	60	120
☐ XL8323_ _†							•	•	60	120
☐ XL8320HRC	15/16"	2' Cross Tee	–	24 x 15/16 x 1-11/16"	61.33 @ 2'	–	–	•	60	120
☐ XL8320_ _†							•	•	60	120
☐ XL7368_ _◆	15/16"	20" Cross Tee	–	20 x 15/16 x 1-3/8"	36.0 @ 1.67'	–	–	•	60	100
☐ XL7398_ _◆	15/16"	18" Cross Tee	–	18 x 15/16 x 1-3/8"	–	–	–	•	60	90
☐ XL7318_ _◆	15/16"	1' Cross Tee	–	12 x 15/16 x 1-3/8"	36.0 @ 1'	–	–	•	120	120
☐ XL7304_ _◆	15/16"	4" Cross Tee	–	4 x 15/16 x 1-11/16"	–	–	–	•	60	20
☐ XL7306_ _◆	15/16"	6" Cross Tee	–	6 x 15/16 x 1-11/16"	–	–	–	•	60	30

PRELUDE® XL® and PRELUDE XL HIGH RECYCLED CONTENT (HRC)

15/16" Exposed Tee System

VISUAL SELECTION

PERFORMANCE

PACKAGING

Item No.	Face Profile	Description	Rout Spacing	Dimensions (Inches)	Load Test Data (Lbs./Lin. Ft.) L/360	Load Test Data (Lbs./Lin. Ft.) 5 Ft.	Fire Guard™	Seismic Category	Pcs./ Ctn.	Lin. Ft./ Ctn.
Prelude® XL® continued					4 Ft.		Dots represent high level of performance.			
Size Capabilities			**Main Beams Length**	**Cross Tees Length**						
15/16"	1 CTN MIN Made-to-Order Sizes or Colors (2 Wks)		36" – 144" Rout spacing 3" from ends, 6" thereafter **NOTE: Up to 6 Weeks for Color & Size Combinations**	6" – 144"					Varies	Varies

ASTM Class
HD – Heavy-duty
ID – Intermediate-duty
LD – Light-duty

Made-to-Order main beams and cross tees can be ordered with special sizes, rout spacing, and colors for your project needs in one carton minimums

* Simple Span
** Hanger Wire Support Mid-Span
*** Items available in White, Tech Black, and Blizzard White powder-coated finish
◆ Items available in Standard, Premium, and Blizzard White powder-coated finish
◆ Items available in White and Blizzard White powder-coated finish
† Items 8300, 8301, XL8320, XL8323, XL8340, and XL8341 available in Black (BL) or White (WH) only
When specifying or ordering items with a color or finish, add the two-letter suffix to the end of the item number (e.g., 7301HA – Haze)

NOTE: Additional Prelude XL items for TechZone® Ceiling Systems are listed in the TechZone Technical Guide (BPCS-4486)
Available online at armstrongceilings.com/techzone

Item No.◆	Face Profile	Description	Dimensions (Inches)	Load Test Data (Lbs./Lin. Ft.) 4 Ft.	Load Test Data (Lbs./Lin. Ft.) 5 Ft.	Fire Guard™	Seismic Category	Pcs./ Ctn.	Lin. Ft./ Ctn.
Prelude XL Painted Grid to Match Axiom® Trim (360° Painted – Powder Coated Paint)						Dots represent high level of performance.			
☐ **AX73003__**	15/16"	12' ID Main Beam, Routs 6" O.C.	144 x 15/16 x 1-11/16"	13.5	6.35	–	–	20	240
☐ **AX73013__**	15/16"	12' HD Main Beam, Routs 6" O.C.	144 x 15/16 x 1-11/16"	16.73	8.73	–	–	20	240
☐ **AX73423__**	15/16"	4' Cross Tee, Routs 12" O.C.	48 x 15/16 x 1-1/2"	7.8	–	–	–	60	240
☐ **AX73283__**	15/16"	2' Cross Tee	24 x 15/16 x 1-3/8"	36.0 @ 2'	–	–	–	60	120
☐ **AX73183__**	15/16"	1' Cross Tee	12 x 15/16 x 1-3/8"	36.0 @ 1'	–	–	–	120	120
☐ **AX73583__**	15/16"	5' Cross Tee Routs 6", 20", and 30" from ends	60 x 15/16 x 1-1/2"	7.61	–	–	–	60	300
☐ **AX73783__**	15/16"	30" Cross Tee	30 x 15/16 x 1-3/8"	16.54 @ 2.5	–	–	–	60	150
☐ **AX83403__**	15/16"	4' Cross Tee, Routs 12" O.C.	48 x 15/16 x 1-1/2"	–	–	–	–	60	–
☐ **AXAL7220__**	15/16"	2' Cross Tee	24 x 15/16 x 1-1/2"	–	–	–	–	60	120

When specifying or ordering items with a color or finish, add the two-letter suffix to the end of the item number (e.g., 7301HA – Haze)

VISUAL SELECTION

PACKAGING

Item No.	Description	Length	(A) Flange	(B) Height	(C) Reveal	(D) Reveal	Pcs./ Ctn.	Lin. Ft./ Ctn.
Suggested Wall Moldings and Shadow Moldings								
☐ **7800__◆** ☐ **7800HRC**	12' Hemmed Angle Molding	144"	7/8"	7/8"	–		30	360
☐ **7808__◆**	10' Hemmed Angle Molding	120"	2"	2"	–		10	100
☐ **780812__◆**	12' Hemmed Angle Molding	144"	2"	2"	–		10	120
☐ **7807**	10' Hemmed Angle Molding	120"	2"	1"	–		10	100
☐ **7875__◆**	10' Shadow Molding	120"	3/4"	15/16"	1/2"		30	300
☐ **7877__◆*****	10' Shadow Molding	120"	15/16"	15/16"	1/4"		30	300
☐ **7878__◆*****	10' Shadow Molding	120"	15/16"	15/16"	3/8"		30	300
☐ **7897__◆*****	10' Shadow Molding	120"	15/16"	15/16"	1/2"		30	300
☐ **7888__**	10' Shadow Molding	120"	15/16"	15/16"	3/8"	1/4"	30	300
☐ **7850__◆**	12' Hemmed Angle Molding	120"	1-1/8"	7/8"	–	–	30	300
☐ **7851__◆**	12' Hemmed Angle Molding	144"	1-1/8"	7/8"	–	–	30	360

*** Suitable for IBC Category D,E,F installations using Armstrong® Seismic Rx® and BERC2 Clip
◆ Items available in Standard, Premium, and Blizzard White powder-coated finish
◆ Items available in White and Blizzard White powder-coated finish
When specifying or ordering items with a color or finish, add the two-letter suffix to the end of the item number (e.g., 7301HA – Haze)

PRELUDE® XL® and PRELUDE XL HIGH RECYCLED CONTENT (HRC)

15/16" Exposed Tee System

MAXIMUM FIXTURE WEIGHT

Configuration A	Configuration B	Item No.	Fixture A	Fixture B	Planning Module A	Planning Module B	Hanger Spacing A	Hanger Spacing B	Maximum Weight A	Maximum Weight B
Main Beam to Main Beam – Drawing Key: Main beam (↑) Cross tee (--) Hanger wire (✦)										
		**7300/8300/7302** **7301/8301**	24" x 48" 24" x 48"	24" x 48" 24" x 48"	48" x 48" 48" x 48"	48" x 48" 48" x 48"	48" 48"	48" 48"	69.27 lbs. 72.32 lbs.	49.27 lbs. 72.32 lbs.
		**7300/8300/7302** **7301/8301**	12" x 48" 12" x 48"	12" x 48" 12" x 48"	48" x 48" 48" x 48"	48" x 48" 48" x 48"	48" 48"	48" 48"	54.26 lbs. 100.0 lbs.	47.17 lbs. 63.32 lbs.
		**7300/8300/7305** **7301/8301**	24" x 48" 24" x 48"	20" x 60" 20" x 60"	60" x 60" 60" x 60"	60" x 60" 60" x 60"	48" 48"	48" 48"	56.47 lbs. 56.47 lbs.	43.21 lbs. 65.46 lbs.

Main beams tested as follows: 7300 tested at 13.0 lbs /LF to 1/360 of 4' span; 7301 tested at 16.5 lbs./LF to 1/360 of 4' span.

MAXIMUM FIXTURE WEIGHT

Configuration A	Configuration B	Item No.	Fixture A	Fixture B	Planning Module A	Planning Module B	Hanger Spacing A	Hanger Spacing B	Maximum Weight A	Maximum Weight B
Cross Tee to Cross Tee – Drawing Key: Main beam (↑) Cross tee (--) Hanger wire (✦)										
		**XL8340/XL7340** **XL7342** **XL8341/XL7341**	24" x 48" 24" x 48" 24" x 48"	24" x 24" 24" x 24" 24" x 24"	64" x 60" 64" x 60" 64" x 60"	48" x 48" 48" x 48" 48" x 48"	48" 48" 48"	48" 48" 48"	69.27 lbs. 40.89 lbs. 81.67 lbs.	80.55 lbs. 52.26 lbs. 100.0 lbs.
		**XL8340/XL7340** **XL8341/XL7341**	24" x 48" 24" x 48"	12" x 48" 12" x 48"	48" x 48" 48" x 48"	48" x 48" 48" x 48"	48" 48"	48" 48"	49.27 lbs. 72.32 lbs.	42.17 lbs. 63.32 lbs.

Fixtures weighing more than 56 lbs. should be independently supported. Fixture weight is based on single fixture only. For end-to-end fixtures or other configurations not shown, consult your Armstrong Ceilings representative.
NOTE: The above data is based on 48" hanger wire spacing, board weight of 1 lb./SF, maximum deflection of tees not to exceed 1/360 of the span, and suspension system installed in accordance with ASTM C636.

COLOR AND FINISH SELECTION

Standard

White (WH) | White with TrioGuard™ (WH3G) | Ivory (IV) | Medium Taupe (MT) | Light Grey (LG)

Grey Stone (GS) | Tech Black (BL) | Silver Grey (SG) | Gun Metal Grey (MY) | Silver Satin (SA)

Premium

Camel (CM) | White Aluminum (WA)†† | Natural Aluminum (NA)††

Copper (CP) | Bronze (BZ) | Pewter (PW) | Silver (SL) | Available in any color!

Powder-coated Finish◆

Blizzard White (ZW)

†† Capping only
††† Peel-off protective film on exposed surfaces to protect from scuffing or marking during installation
◆ Items available in powder-coated finish
When specifying or ordering items with a color or finish, add the two-letter suffix to the end of the item number (e.g., 7301HA – Haze)

Armstrong® CEILING SOLUTIONS

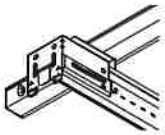
PRELUDE® XL® and PRELUDE XL HIGH RECYCLED CONTENT (HRC)

15/16" Exposed Tee System

ACCESSORIES

BERC2 – 2" Beam End Retaining Clip – Allows you to create a code compliant Seismic D, E, F ceiling installation while eliminating the need to use 2" wall molding or spreader bars.

ALBERC2 – (aluminum)

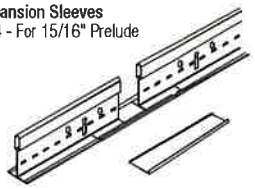


☐ **BERC2** (Steel) – 200 pcs ☐ **ALBERC2** (Aluminum) – 200 pcs
☐ **FZBERC2** (Steel) – 50 pcs ☐ **FZALBERC2** (Aluminum) – 50 pcs

STAC – Single Tee Adapter Clip – Used to create code compliant non-seismic and seismic C and D, E, F off-module main beam to cross tee connections.

☐ **STAC** – 120 pcs
☐ **FZSTAC** – 50 pcs

Expansion Sleeves
ES4 - For 15/16" Prelude



☐ **ES4** – 200 pcs
☐ **FZES4** – 50 pcs

GCWA – Grip Clip Wall Attachment – Joins main beam or cross tee to wall molding via locking barbs without pop rivels or screws.

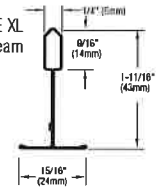
☐ **GCWA** – 250 pcs
☐ **FZGCWA** – 50 pcs

DETAILS

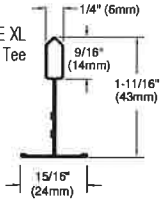
PRELUDE XL Main Beam

PRELUDE XL Cross Tee

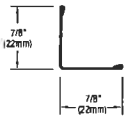
PRELUDE XL Main Beam



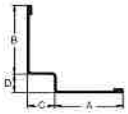
PRELUDE XL Cross Tee



7/8" Hemmed Angle Molding



Shadow Molding



SEISMIC PERFORMANCE

Main Beams
7301, 7301HRC, 7306, 7307, 8301

Minimum Lbs. To Pull Out Compression/Tension
335.0
330.0

Cross Tees
All XL cross tees exceed 300 lbs. in both compression and tension.

ICC Reports
For areas under ICC jurisdiction, see ICC evaluation report number ESR-1308 for allowable values and/or conditions of use concerning the suspension system components listed on this page. The report is subject to reexamination, revisions, and possible cancellation.

PHYSICAL DATA

Material
Hot dipped galvanized steel

Surface Finish
Baked polyester paint or powder coated
Manufactured and tested in accordance with ASTM C635

Face Dimension
15/16"

Profile
Exposed tee

Cross Tee/Main Beam Interface
Override

End Detail
Main Beam: Staked-on clip
Cross Tee: Staked-on clip

Duty Classification
Intermediate or Heavy-duty

Armstrong® CEILING SOLUTIONS

PRELUDE® XL® and PRELUDE XL HIGH RECYCLED CONTENT (HRC)

15/16" Exposed Tee System

Declare℠ Living Building Challenge Compliant

SUSTAIN™ High Performance Sustainable Ceiling Systems

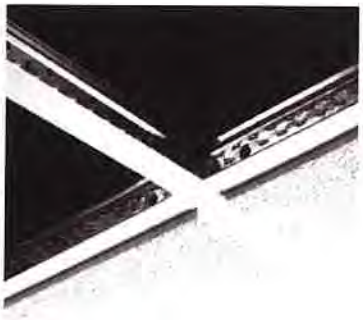
UP TO 63% RECYCLED CONTENT

Calculate LEED contribution at armstrongceilings.com/greendgene

LEED®

energy management	construction waste mgmt	regional materials	design for flexibility	EPD	recyclable/ extended producer resp.	biobased materials	recycled content	sourcing of raw materials	material ingredient reporting	low emitting/ materials	lighting quality	acoustics
	✓	✓					✓					

▲ LOCATION DEPENDENT



KEY SELECTION ATTRIBUTES

- Seismic Rx® Suspension System saves time and money; offer an ICC-ES approach to installations (ESR-1308)
- Prelude® XL® is part of the Sustain™ portfolio and meets the most stringent sustainability compliance standards today
- Peak-form® profile increases strength and stability for improved performance during installation
- SuperLock™² main beam clip is engineered for a strong, secure connection and fast accurate alignment confirmed with an audible click; easy to remove/relocate
- Hot dipped galvanized coating inhibits red rusting better than electrogalvanized or painted systems
- Made-to-Order main beams and cross tees can be ordered for your project needs in one carton minimums
- Available with TrioGuard™ coating that resists dirt, bacteria, mold, mildew, and color fading
- XL² staked-on end detail provides secure locked connection; easy to remove, reuse, and relocate
- Fire Guard™ options offer UL design fire-rated performance
- Some items available in metric sizes
- 10-Year Limited System Warranty; 30-Year Limited Ceiling Systems Warranty when used with HumiGuard® Plus products

10-YEAR Availability

TYPICAL APPLICATIONS

- Retail
- Offices
- Education
- Hospitality
- Healthcare

Blizzard White powder-coated finish coordinates with Optima®, Ultima®, Calla®, and Lyra® ceiling panels for a clean, seamless, monolithic installed visual.

Linear lighting integration is easy with made-to-order main beam-to-cross tee adapters, rout spacing, miter spacing, and short cross tees (3" to 6" lengths).

VISUAL SELECTION

Item No.	Face Profile	Description	Rout Spacing	Dimensions (Inches)	Load Test Data (Lbs./Lin. Ft.) L/360	Load Test Data (Lbs./Lin. Ft.) Lbs./ Lin. Ft.	PERFORMANCE Fire Guard™	PERFORMANCE Seismic Category	PACKAGING Pcs./ Ctn.	PACKAGING Lin. Ft./ Ctn.
Prelude XL (Red Numbers are Fire Guard Items)					4 Ft.	5 Ft.	Dots represent high level of performance.			
☐ 7301_ _◆	15/16"	12' HD Main Beam	6" O.C.	144 x 15/16 x 1-11/16"	16.73	8.73	–	•	20	240
☐ 7301HRC							–	•	20	240
☐ 8301_ _†							•	•	20	240
☐ 7300_ _◆	15/16"	12' ID Main Beam	6" O.C.	144 x 15/16 x 1-11/16"	13.5	6.35	–	–	20	240
☐ 8300_ _†							•	–	20	240
☐ 7305_ _◆	15/16"	140" ID Main Beam	10" O.C.	140 x 15/16 x 1-11/16"	10.73	8.73	–	–	20	233
☐ 7306_ _◆	15/16"	132" HD Main Beam	10", 30", 50", 56", 76", 96", 116", 122"	132 x 15/16 x 1-11/16"	16.73	8.73	–	•	20	220
☐ 7307_ _◆	15/16"	126" HD Main Beam	10", 30", 50", 70", 90", 110", 116"	126 x 15/16 x 1-11/16"	–	–	–	•	20	210
☐ 7302_ _◆	15/16"	10' ID Main Beam	6" O.C.	120 x 15/16 x 1-11/16"	13.5	6.35	–	–	20	200
☐ XL7380_ _◆	15/16"	8' Cross Tee	12" O.C.	96 x 15/16 x 1-11/16"	12.12**	–	–	•	20	160
☐ XL7390_ _◆	15/16"	6' Cross Tee	12" O.C.	72 x 15/16 x 1-11/16"	12.24*	–	–	•	20	120
☐ XL7357_ _◆	15/16"	5' Cross Tee	6", 12", 24", 30", 36", 48", 54"	60 x 15/16 x 1-11/16"	–	7.61	–	•	60	300
☐ XL7358_ _◆	15/16"	5' Cross Tee	6", 20", 30", 40", 54"	60 x 15/16 x 1-11/16"	–	7.61	–	•	60	300
☐ XL7341_ _***	15/16"	4' Cross Tee	12" O.C.	48 x 15/16 x 1-11/16"	16.89	–	–	•	60	240
☐ XL7341HRC							–	•	60	240
☐ XL8341_ _†							•	•	60	240
☐ XL7340_ _◆	15/16"	4' Cross Tee	12" O.C.	48 x 15/16 x 1-11/16"	12.25	–	–	•	60	240
☐ XL8340_ _†							•	•	60	240
☐ XL7342_ _◆	15/16"	4' Cross Tee	12" O.C.	48 x 15/16 x 1-1/2"	7.8	–	–	•	60	240
☐ XL7348_ _◆	15/16"	4' Cross Tee	12"	48 x 15/16 x 1-3/8"	6.78	–	–	•	60	240
☐ XL7330_ _***	15/16"	3' Cross Tee	–	36 x 15/16 x 1-11/16"	20.3 @ 3'	–	–	•	60	180
☐ XL7378_ _◆	15/16"	30" Cross Tee	–	30 x 15/16 x 1-3/8"	16.54 @ 2.5'	–	–	•	60	150
☐ XL7328_ _◆	15/16"	2' Cross Tee	–	24 x 15/16 x 1-3/8"	36.0 @ 2'	–	–	•	60	120
☐ XL8323_ _†							•	•	60	120
☐ XL8320HRC	15/16"	2' Cross Tee	–	24 x 15/16 x 1-11/16"	61.33 @ 2'	–	–	•	60	120
☐ XL8320_ _†							•	•	60	120
☐ XL7368_ _◆	15/16"	20" Cross Tee	–	20 x 15/16 x 1-3/8"	36.0 @ 1.67'	–	–	•	60	100
☐ XL7398_ _◆	15/16"	18" Cross Tee	–	18 x 15/16 x 1-3/8"	–	–	–	•	60	90
☐ XL7318_ _◆	15/16"	1' Cross Tee	–	12 x 15/16 x 1-3/8"	36.0 @ 1'	–	–	•	120	120
☐ XL7304_ _◆	15/16"	4" Cross Tee	–	4 x 15/16 x 1-11/16"	–	–	–	•	60	20
☐ XL7306_ _◆	15/16"	6" Cross Tee	–	6 x 15/16 x 1-11/16"	–	–	–	•	60	30

PRELUDE® XL® and PRELUDE XL HIGH RECYCLED CONTENT (HRC)

15/16" Exposed Tee System

VISUAL SELECTION

PERFORMANCE

PACKAGING

Item No.	Face Profile	Description	Rout Spacing	Dimensions (Inches)	Load Test Data (Lbs./Lin. Ft.) L/360	Load Test Data (Lbs./Lin. Ft.) 5 Ft.	Fire Guard™	Seismic Category	Pcs./ Ctn.	Lin. Ft./ Ctn.
Prelude® XL® continued					4 Ft.		Dots represent high level of performance.			
Size Capabilities		**Main Beams Length**	**Cross Tees Length**							
15/16"	1 CTN MIN Made-to-Order Sizes or Colors (2 Wks)	36" – 144" Rout spacing 3" from ends, 6" thereafter **NOTE: Up to 6 Weeks for Color & Size Combinations**	6" – 144"						Varies	Varies

ASTM Class
HD – Heavy-duty
ID – Intermediate-duty
LD – Light-duty

Made-to-Order main beams and cross tees can be ordered with special sizes, rout spacing, and colors for your project needs in one carton minimums

* Simple Span
** Hanger Wire Support Mid-Span
*** Items available in White, Tech Black, and Blizzard White powder-coated finish
✦ Items available in Standard, Premium, and Blizzard White powder-coated finish
◆ Items available in White and Blizzard White powder-coated finish
† Items 8300, 8301, XL8320, XL8323, XL8340, and XL8341 available in Black (BL) or White (WH) only
When specifying or ordering items with a color or finish, add the two-letter suffix to the end of the item number (e.g., 7301HA – Haze)

NOTE: Additional Prelude XL items for TechZone® Ceiling Systems are listed in the TechZone Technical Guide (BPCS-4486)
Available online at armstrongceilings.com/techzone

Item No.✦	Face Profile	Description	Dimensions (Inches)	Load Test Data (Lbs./Lin. Ft.) 4 Ft.	Load Test Data (Lbs./Lin. Ft.) 5 Ft.	Fire Guard™	Seismic Category	Pcs./ Ctn.	Lin. Ft./ Ctn.
Prelude XL Painted Grid to Match Axiom® Trim (360° Painted – Powder Coated Paint)						Dots represent high level of performance.			
☐ **AX73003__**	15/16"	12' ID Main Beam, Routs 6" O.C.	144 x 15/16 x 1-11/16"	13.5	6.35	–	–	20	240
☐ **AX73013__**	15/16"	12' HD Main Beam, Routs 6" O.C.	144 x 15/16 x 1-11/16"	16.73	8.73	–	–	20	240
☐ **AX73423__**	15/16"	4' Cross Tee, Routs 12" O.C.	48 x 15/16 x 1-1/2"	7.8	–	–	–	60	240
☐ **AX73283__**	15/16"	2' Cross Tee	24 x 15/16 x 1-3/8"	36.0 @ 2'	–	–	–	60	120
☐ **AX73183__**	15/16"	1' Cross Tee	12 x 15/16 x 1-3/8"	36.0 @ 1'	–	–	–	120	120
☐ **AX73583__**	15/16"	5' Cross Tee Routs 6", 20", and 30" from ends	60 x 15/16 x 1-1/2"	7.61	–	–	–	60	300
☐ **AX73783__**	15/16"	30" Cross Tee	30 x 15/16 x 1-3/8"	16.54 @ 2.5	–	–	–	60	150
☐ **AX83403__**	15/16"	4' Cross Tee, Routs 12" O.C.	48 x 15/16 x 1-1/2"	–	–	–	–	60	–
☐ **AXAL7220__**	15/16"	2' Cross Tee	24 x 15/16 x 1-1/2"	–	–	–	–	60	120

When specifying or ordering items with a color or finish, add the two-letter suffix to the end of the item number (e.g., 7301HA – Haze)

VISUAL SELECTION

PACKAGING

Item No.	Description	Length	(A) Flange	(B) Height	(C) Reveal	(D) Reveal	Pcs./ Ctn.	Lin. Ft./ Ctn.
Suggested Wall Moldings and Shadow Moldings								
☐ **7800__✦** ☐ **7800HRC**	12' Hemmed Angle Molding	144"	7/8"	7/8"	–		30	360
☐ **7808__✦**	10' Hemmed Angle Molding	120"	2"	2"	–		10	100
☐ **780812__✦**	12' Hemmed Angle Molding	144"	2"	2"	–		10	120
☐ **7807**	10' Hemmed Angle Molding	120"	2"	1"	–		10	100
☐ **7875__✦**	10' Shadow Molding	120"	3/4"	15/16"	1/2"		30	300
☐ **7877__✦*****	10' Shadow Molding	120"	15/16"	15/16"	1/4"		30	300
☐ **7878__✦*****	10' Shadow Molding	120"	15/16"	15/16"	3/8"		30	300
☐ **7897__✦*****	10' Shadow Molding	120"	15/16"	15/16"	1/2"		30	300
☐ **7888__**	10' Shadow Molding	120"	15/16"	15/16"	3/8"	1/4"	30	300
☐ **7850__✦**	12' Hemmed Angle Molding	120"	1-1/8"	7/8"	–	–	30	300
☐ **7851__✦**	12' Hemmed Angle Molding	144"	1-1/8"	7/8"	–	–	30	360

*** Suitable for IBC Category D,E,F installations using Armstrong® Seismic Rx® and BERC2 Clip
✦ Items available in Standard, Premium, and Blizzard White powder-coated finish
◆ Items available in White and Blizzard White powder-coated finish
When specifying or ordering items with a color or finish, add the two-letter suffix to the end of the item number (e.g., 7301HA – Haze)

PRELUDE® XL® and PRELUDE XL HIGH RECYCLED CONTENT (HRC)

15/16" Exposed Tee System

MAXIMUM FIXTURE WEIGHT

Configuration A	Configuration B	Item No.	Fixture A	Fixture B	Planning Module A	Planning Module B	Hanger Spacing A	Hanger Spacing B	Maximum Weight A	Maximum Weight B
Main Beam to Main Beam – Drawing Key: Main beam (↑) Cross tee (--) Hanger wire (✦)										
		**7300/8300/7302** **7301/8301**	24" x 48" 24" x 48"	24" x 48" 24" x 48"	48" x 48" 48" x 48"	48" x 48" 48" x 48"	48" 48"	48" 48"	69.27 lbs. 72.32 lbs.	49.27 lbs. 72.32 lbs.
		**7300/8300/7302** **7301/8301**	12" x 48" 12" x 48"	12" x 48" 12" x 48"	48" x 48" 48" x 48"	48" x 48" 48" x 48"	48" 48"	48" 48"	54.26 lbs. 100.0 lbs.	47.17 lbs. 63.32 lbs.
		**7300/8300/7305** **7301/8301**	24" x 48" 24" x 48"	20" x 60" 20" x 60"	60" x 60" 60" x 60"	60" x 60" 60" x 60"	48" 48"	48" 48"	56.47 lbs. 56.47 lbs.	43.21 lbs. 65.46 lbs.

Main beams tested as follows: 7300 tested at 13.0 lbs /LF to 1/360 of 4' span; 7301 tested at 16.5 lbs /LF to 1/360 of 4' span.

MAXIMUM FIXTURE WEIGHT

Configuration A	Configuration B	Item No.	Fixture A	Fixture B	Planning Module A	Planning Module B	Hanger Spacing A	Hanger Spacing B	Maximum Weight A	Maximum Weight B
Cross Tee to Cross Tee – Drawing Key: Main beam (↑) Cross tee (--) Hanger wire (✦)										
		**XL8340/XL7340** **XL7342** **XL8341/XL7341**	24" x 48" 24" x 48" 24" x 48"	24" x 24" 24" x 24" 24" x 24"	64" x 60" 64" x 60" 64" x 60"	48" x 48" 48" x 48" 48" x 48"	48" 48" 48"	48" 48" 48"	69.27 lbs. 40.89 lbs. 81.67 lbs.	80.55 lbs. 52.26 lbs. 100.0 lbs.
		**XL8340/XL7340** **XL8341/XL7341**	24" x 48" 24" x 48"	12" x 48" 12" x 48"	48" x 48" 48" x 48"	48" x 48" 48" x 48"	48" 48"	48" 48"	49.27 lbs. 72.32 lbs.	42.17 lbs. 63.32 lbs.

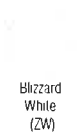
Fixtures weighing more than 56 lbs. should be independently supported. Fixture weight is based on single fixture only. For end-to-end fixtures or other configurations not shown, consult your Armstrong Ceilings representative.
NOTE: The above data is based on 48" hanger wire spacing, board weight of 1 lb /SF, maximum deflection of tees not to exceed 1/360 of the span, and suspension system installed in accordance with ASTM C636.

COLOR AND FINISH SELECTION

Standard

Premium

Powder-coated Finish✦



†† Capping only
††† Peel-off protective film on exposed surfaces to protect from scuffing or marking during installation
✦ Items available in powder-coated finish
When specifying or ordering items with a color or finish, add the two-letter suffix to the end of the item number (e.g., 7301HA – Haze)

Armstrong® CEILING SOLUTIONS

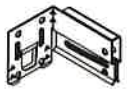
PRELUDE® XL® and PRELUDE XL HIGH RECYCLED CONTENT (HRC)

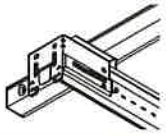
15/16" Exposed Tee System

ACCESSORIES

BERC2 – 2" Beam End Retaining Clip – Allows you to create a code compliant Seismic D, E, F ceiling installation while eliminating the need to use 2" wall molding or spreader bars.

ALBERC2 – (aluminum)



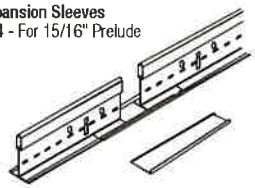


☐ **BERC2** (Steel) – 200 pcs ☐ **ALBERC2** (Aluminum) – 200 pcs
☐ **FZBERC2** (Steel) – 50 pcs ☐ **FZALBERC2** (Aluminum) – 50 pcs

STAC – Single Tee Adapter Clip – Used to create code compliant non-seismic and seismic C and D, E, F off-module main beam to cross tee connections.

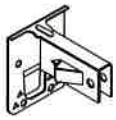
☐ **STAC** – 120 pcs
☐ **FZSTAC** – 50 pcs

Expansion Sleeves
ES4 - For 15/16" Prelude



☐ **ES4** – 200 pcs
☐ **FZES4** – 50 pcs

GCWA – Grip Clip Wall Attachment – Joins main beam or cross tee to wall molding via locking barbs without pop rivets or screws.



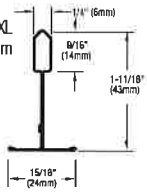
☐ **GCWA** – 250 pcs
☐ **FZGCWA** – 50 pcs

DETAILS

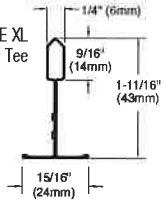
PRELUDE XL Main Beam

PRELUDE XL Cross Tee

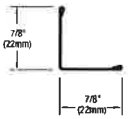
PRELUDE XL Main Beam



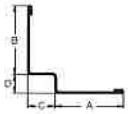
PRELUDE XL Cross Tee



7/8" Hemmed Angle Molding



Shadow Molding



SEISMIC PERFORMANCE

Main Beams
7301, 7301HRC, 7306, 7307, 8301

Minimum Lbs. To Pull Out Compression/Tension
335.0
330.0

Cross Tees
All XL cross tees exceed 300 lbs. in both compression and tension.

ICC Reports
For areas under ICC jurisdiction, see ICC evaluation report number ESR-1308 for allowable values and/or conditions of use concerning the suspension system components listed on this page. The report is subject to reexamination, revisions, and possible cancellation.

PHYSICAL DATA

Material
Hot dipped galvanized steel

Surface Finish
Baked polyester paint or powder coated
Manufactured and tested in accordance with ASTM C635

Face Dimension
15/16"

Profile
Exposed tee

Cross Tee/Main Beam Interface
Override

End Detail
Main Beam: Staked-on clip
Cross Tee: Staked-on clip

Duty Classification
Intermediate or Heavy-duty

Armstrong® CEILING SOLUTIONS

Dawson

Submittal #095429-1.0 095429 - Suspended Wood Grille Ceiling Systems

Dawson Construction
PO Box 30920
Bellingham, Washington 98228
Phone: (360) 756-1000
Fax: (360) 756-1001

Project: 20004 - Juneau Terminal Reconstruction
1873 Shell Simmons Dr.
Juneau, Alaska 99801

Suspended Wood Grille Ceiling Submittals

SPEC SECTION:	095429 - Suspended Wood Grille Ceiling Systems	**CREATED BY:**	
STATUS:	Reviewing	**DATE CREATED:**	03/19/2020
ISSUE DATE:	05/21/2020	**REVISION:**	0
RESPONSIBLE CONTRACTOR:	Alaska Acoustical	**RECEIVED FROM:**	Brad Holm
RECEIVED DATE:	05/18/2020	**SUBMIT BY:**	05/21/2020
FINAL DUE DATE:	06/05/2020	**LOCATION:**	
TYPE:	Submittals	**COST CODE:**	
APPROVERS:	Evelyn Rousso **(McCool Carlson Green)**		

BALL IN COURT:
Evelyn Rousso **(McCool Carlson Green)**

DISTRIBUTION:
Aaron Morrison **(PDC Engineers - Juneau)** , David Parker **(Dawson Construction LLC)** , Chris Gilberto **(Dawson Construction - Juneau)**

DESCRIPTION:
Please see attached submittal for review and approval ~ Thank you.

ATTACHMENTS:
095429-1.0 - Wood Ceiling System.pdf

SUBMITTAL WORKFLOW

#	NAME	SUBMITTER/ APPROVER	SENT DATE	DUE DATE	RETURNED DATE	RESPONSE	ATTACHMENTS	COMMENTS
1	Evelyn Rousso	Approver		6/5/2020				

Submittal Review Stamp

- ☐ APPROVED
- ☑ APPROVED AS NOTED
- ☐ REJECTED
- ☐ REVISE AND RESUBMIT
- ☐ REFER TO LETTER DATED_____
- ☐ RETURNED WITHOUT REVIEW

BY MCG DATE 6/5/2020

Reviewed for conformance with design concept and for general compliance with the Contract Documents.

McCOOL CARLSON GREEN ARCHITECTS
HISTORIC ANCHORAGE TRAIN DEPOT
421 W. 1ST AVENUE · SUITE 300 · ANCHORAGE, AK 99501
PH 907.563.8474 · FAX 907.563.4572 · MCGALASKA.COM

Verify topcoat is required by manufacturer.

The attached submittal has been checked and coordinated with the work of all trades involved. Materials and methods indicated conform to contract requirements.

BY _____ DATE 05/21/2020 COPIES TO _____

095429 2.4 - ACT2

DIVISION 9 ENGINEERED-TO-ORDER WOOD CEILINGS

Submittal Packet

This packet includes the following information:

- 9Wood product warranty and maintenance
- LEED information
- 9Wood installation guides
- 9Wood supplier datasheets

This packet is accompanied by the 9Wood Acclimatization Packet, which provides critical information about the installation conditions referenced by the 9Wood warranty.

If you have any questions about any of the information in this packet, please contact your Project Coordinator.

Standard Product Warranty (Interior)

The following is the standard product warranty (hereinafter, "Warranty") for 9Wood products installed in interior applications.

Our commitment: Subject to the limitations below, 9Wood ("Seller") warrants to the purchaser of its product ("Buyer") that all products sold to the Buyer by the Seller will perform in accordance with the agreed-upon specifications and conditions of the Fabrication Release Agreement, submittal samples, product data, and shop drawings ("Specifications"). The Seller warrants that at the time of shipment, the products will be free from defects in material, finish and workmanship. This warranty shall apply for one (1) year from the date of shipment.

IN CONNECTION WITH OFFERING THIS LIMITED EXPRESS WARRANTY, THE SELLER SPECIFICALLY DISCLAIMS ANY OTHER WARRANTY WHETHER EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR WARRANTY OF MERCHANTABILITY.

IN THE EVENT OF BREACH OF THIS WARRANTY, BUYER'S REMEDY SHALL BE LIMITED TO A REPLACEMENT OF THE PRODUCT PURCHASED OR, IN SELLER'S SOLE DISCRETION, AN AMOUNT NOT TO EXCEED THE PURCHASE PRICE OF THE WOOD PRODUCT. IN NO EVENT SHALL SELLER BE LIABLE FOR ADDITIONAL DAMAGES, EITHER IN CONTRACT OR IN TORT, SUCH AS SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES.

Limitations on Warranty: Wood is a hygroscopic material, and under normal conditions all wood products contain some moisture. Wood readily exchanges this molecular moisture with water vapor in the surrounding atmosphere according to existing relative humidity. In relatively high humidity, wood picks up moisture and swells, and in relatively low humidity it gives up moisture and shrinks. These uncontrolled extremes may affect the structural integrity of the panels and cause visual problems. Similarly, raising or lowering the temperature in a building for a sustained period of time, such as in an effort to eliminate the off-gasses, is unacceptable and will negatively affect the appearance and performance of architectural millwork.

As a result, this Warranty is limited to products properly handled, stored, installed, and maintained in a location with continuous controlled humidity and temperature, and free from exposure to magnified sunlight conditions or moisture. Specifically, this Warranty shall only apply if the following guidelines are strictly followed:

1. **Climate Requirements:**
   - 9Wood's product has been fabricated to perform in a relative humidity range of 25-55% (not exceeding 20% RH from peaks to valleys), and a temperature range of 60° to 80° F.
   - The building climate must fall within the above parameters at all times, including periods of onsite storage and building occupancy.
   - Prior to storage and installation of the wood product, the HVAC systems must be fully operational.
   - Prior to storage and installation of the wood product, all exterior windows and doors are to be in place and weather-stripped. All wet work is to be completed and thoroughly dry.
   - The wood product should not be exposed to forced air (warm or cold), excessive moisture, or rapidly changing temperatures at any point in its life cycle.
2. **Acclimatization Requirements:**
   - Prior to installation, the wood product must be allowed to reach Equilibrium Moisture Content ("EMC"); that is, a similar moisture and temperature to the installation space, and that falls within the climate requirements stated above.
   - Reaching EMC typically takes at least 72 hours, but this will vary based on the acclimatization process that is performed as well as the difference in climate from the last stored location.
   - Refer to 9Wood's Wood Ceiling Acclimatization for Professionals handbook for assistance on the process of ensuring that your wood product is ready to be installed.

Nothing in this Warranty shall protect Buyer in the event wood products have been subjected to misuse, accident, damage, improper maintenance, alteration, or repair by anyone other than the Seller or its authorized representative.

Claim Submission: All warranty claims must be submitted using the *Warranty Claim Form*, available upon request.

Seller's Right to Examine Premises: If Buyer exercises its rights under this Warranty, Seller may first request that the building's relative humidity and temperature data, as well as samples and photographs (or videos) of the defective product, be made available to the Seller or their representative for inspection. Alternatively, at Seller's option, Seller or Seller's authorized agent may inspect the premises as well as the allegedly defective product.

Jurisdiction and Venue: In the event a legal proceeding is necessary to determine the parties' rights under this Warranty, jurisdiction shall be in the federal or state courts of the State of Oregon, and the proper venue for such proceeding shall be Lane County, Oregon

DIVISION 9 ENGINEERED TO ORDER WOOD CEILINGS

After Installation Maintenance (Interiors)

999 South A Street · Springfield, OR 97477 · t 888.767.9990 · f 888.767.9998 · www.9wood.com

9Wood ceilings are manufactured using solid wood, wood veneers and engineered wood components. Therefore, these natural wood materials should be cared for as all other architectural wood products.

The following are maintenance recommendations for 9Wood products installed in interior applications:

1. **Cleaning**: When cleaning, vacuum panel surfaces using a non-marring, natural bristle head. Avoid hard or very short bristle cleaning heads. Aerosol furniture polishes can be used on small areas; however, do not spray directly on the surface of the acoustic membrane. Apply small amounts on a soft cloth and rub gently.

2. **Minor Finish Repair**: Minor surface scuffing or scratches can be removed by lightly rubbing the affected area with a dry, clean pad of #0000 fine steel wool. Do not over apply the finish.

3. **Do Not Power Wash**: Power washing is NOT recommended to clean wood ceilings of cobwebs and normal dust build up. Power washing can result in chiseling of wood surfaces and moisture pickup that causes "flashing" behind the finish.

Wood is a hygroscopic material, and under normal conditions all wood products contain some moisture. Wood readily exchanges this molecular moisture with water vapor in the surrounding atmosphere according to existing relative humidity. In high humidity, wood absorbs moisture and swells, and in low humidity it releases moisture and shrinks. Wood can cope with such changes if properly installed and maintained. Even in a protected environment, wood can tend to "silver-out" over time as well as pick-up end-grain moisture. It is the Buyer's responsibility to comply by the following points:

1. **Acclimatize**: Ensure that the ceiling panels have reached equilibrium moisture content (a minimum of 72 hours) in the area where the panels are being installed.

2. **Protect**: Ensure that the specific location(s) of wood members within the ceiling field are not exposed to direct wetting from the elements, condensing humidity, exposure to direct sunlight, or temperature extremes.

3. **Wind load**: Ensure that wind load calculations have been completed for installation location demonstrating sufficient engineering for product attachment and suspension.

If you have any more questions about maintenance or upkeep after installation, please contact your 9Wood Project Manager.

LEED Information

Date: April 8th, 2020
Project: 22162.Juneau Intl Airport - Terminal Reconstruction
Product(s): 2200 Lay-in Linear Wood Ceiling

Below is a list of LEEDv3 (2009) credit opportunities. The checked "Yes/No" boxes denote which credits this product assembly qualifies toward. (If your project has multiple product assembly types, you are receiving multiple LEED information sheets.) Please see the third party datasheets and certificates included in this packet, with information about raw material components.

This information is being provided at submittal, but some information cannot be provided until material is ordered, such as certified wood mix percentages. In addition, if your project is under LEED v4, Living Building Challenge, WELL, or another rating system, please contact 9Wood for specific info.

Yes	No	
☐	☑	**MRc4 Recycled Content** • The particleboard core makes up 90% of the product *assembly volume*. The other 10% is comprised of face/backing veneers, edgebanding, and attachment clips or backers. • The *particleboard core* is composed of >99% pre-consumer recycled content and <1% post-consumer content. This means that the 9Wood *assembly volume* is 89% pre-consumer recycled content; <1% post-consumer. (Again, the other 10% is comprised of face/backing veneers, edgebanding, and attachment clips or backers.) • Please see attached substrate datasheets by _____.
☐	☑	**MRc5 Regional Materials** • It is anticipated that a portion of the product will be harvested and manufactured within a 500 mile radius of the project site. This will be provided upon release to production. • All products are manufactured in Springfield, Oregon, USA.
		MRc7 Certified Wood
☐	☑	***Standard Path*** Please see the attached 9Wood Chain-of-Custody Certificate (COC). The actual FSC Mix % and material value(s) will be noted on the final invoice.
☐	☑	***Alternative Compliance Path (ACP; per pilot credit MRpc102 Legal Wood)*** Please see the attached 9Wood PEFC and/or FSC Chain-of-Custody Certificate (COC). The attached ACP explanation sheet gives an overview of this pilot credit.
☑	☐	**IEQc4.2 Low-Emitting Materials/Finishes** Low VOC finish is provided for on-site touch-up. Please see the Rudd datasheet.
☑	☐	**IEQc4.4 Low-Emitting Materials/Composite Wood and Agrifiber Products** The substrates use Ultra-Low Emitting Formaldehyde (ULEF) binders and adhesives. Please see the attached datasheets by Murphy

If you have questions, please don't hesitate to let me know.

Best regards,
Chuck Crockett
Project Coordinator

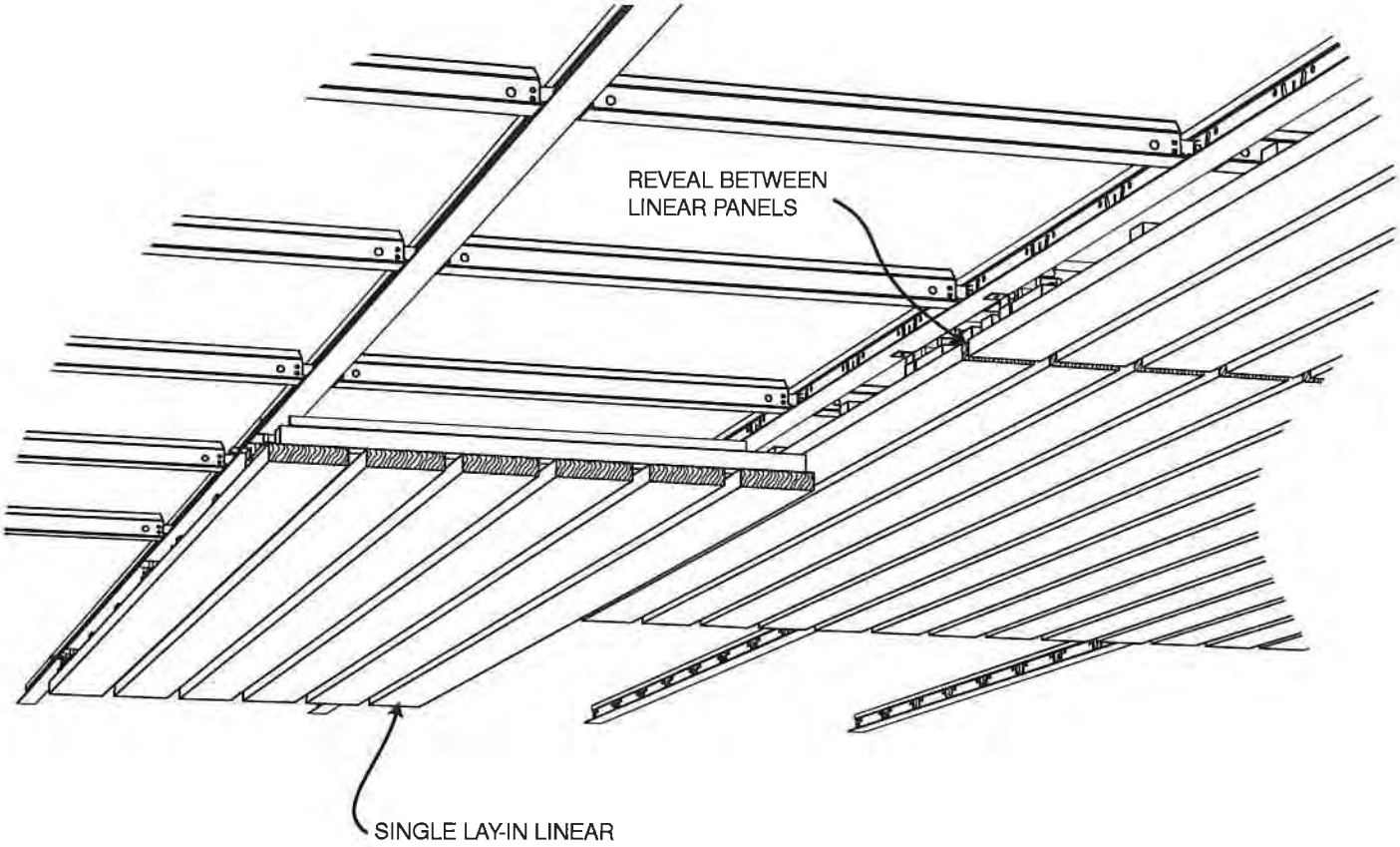
On behalf of,
Michael Roemen (LEED Green Associate™)
9Wood Transparency Info. Manager

2200 Data Sheet

SERIES: 2000 LINEAR WOOD

STYLE: 2200 LAY-IN LINEAR

Overview



The 9Wood Lay-in Linear style wood ceiling offers a design where the individual wood member is wider than it is deep. The standard panel width is 2'. Standard panel lengths are 4' through 10' for solid wood, or 8' for veneers. Budget and application generally drive the decision between solid wood or veneer. In non-seismic zones this suspension system allows for productive installation and easy lift-out accessibility.

Attachment for the Lay-In Linear is achieved with 9Wood's Lift & Lock system. This provides unlimited accessibility for each panel.

2200 Data Sheet

SERIES: 2000 LINEAR WOOD

STYLE: 2200 LAY-IN LINEAR

Product Data

Application

The Lay-in Linear uses a pre-assembled panel fabrication process. Full panel access is available by means of lay-in backers that permit lift-out accessibility: lift, shift, and remove. In seismic zones it requires a safety wire tie-off or lock-down screws.

Performance

Acclimatization
Lay-In Linears must be cared for in a controlled interior environment (RH 25%-55% max; temp. 60°-80°) and installed only after reaching equilibrium moisture content. Should the building fall outside these limits consult 9Wood, Inc. for our 3 Tests/3 Tracks Acclimatization Advisory.

Acoustics
The Lay-In Linear can enhance acoustics via sound absorbing material placed over open reveals within the T-Bar grid. Insulation is typically provided locally.

Fire Rating
Individual members and components can be treated with Class I (A) Fire Retardant chemicals (solid wood use FR coatings, veneered particleboard use FR formulas). Particular species or styles have not been tested.

LEED
Lay-In Linears may qualify toward MR-3, MR-4.1/4.2, MR-5.1/5.2, MR-6, MR-7, IEQ-4.2 or IEQ-4.4. As all products are custom-fabricated, LEED credit opportunities are project by project. Please contact 9Wood, Inc. for specifics.

MEP
The Lay-In Linear permits MEP penetrations in the ceiling's surface. Cut panels may require supplemental reinforcement. Fixtures and diffusers must be independently supported.

Seismic
Lay-In Linears typically require safety-wire tie-offs or a lock-down screw. Please consult local code or a licensed engineer for any additional requirements.

Species & Finishes
9Wood can offer both domestic and imported species for the Lay-In Linear. Clear, matte sheen finish is standard; custom color matches and opaque finishes are available.

Suspension
Lay-In Linears lift and shift into 15/16" heavy duty T-Bar main runners. Main runners are installed 2' on center, depending on panel weight.

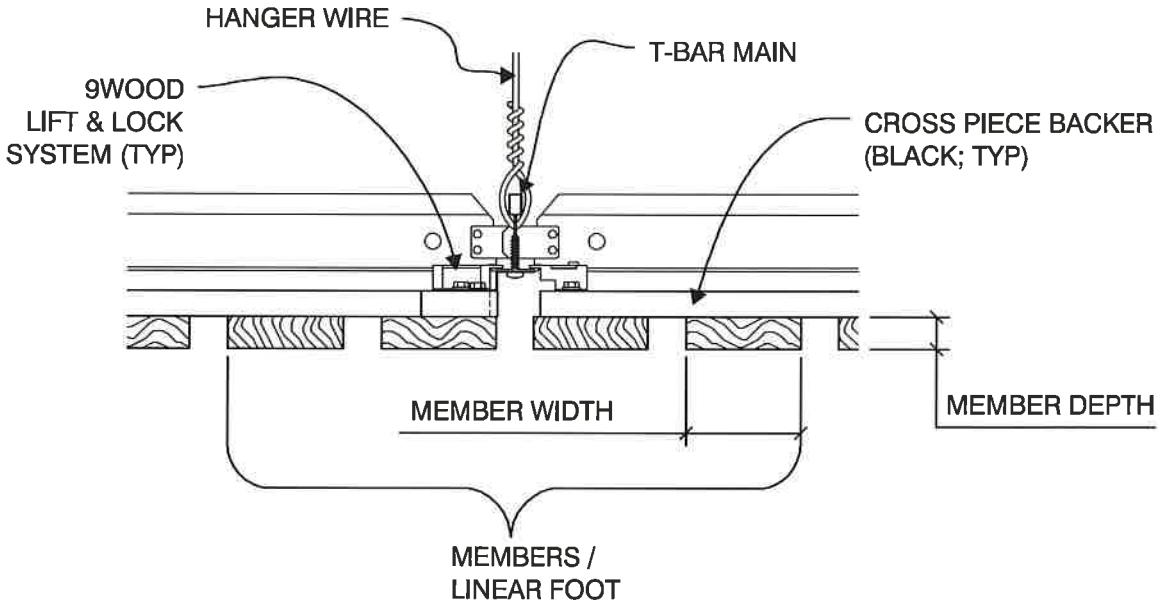
System Weight
Lay-In Linears typically weigh 2-4 pounds per square foot, depending on members per linear foot and species.

2200 Data Sheet

SERIES: 2000 LINEAR WOOD

STYLE: 2200 LAY-IN LINEAR

Typical Specifications



SKU Table

Depth (Softwood)	Depth (Hardwood or Veneer)	Width	Members per Linear Foot				
			2	3	4	5	6
5/8"	3/4"	1 3/8"	2212-2	2212-3	2212-4	2212-5	2212-6
5/8"	3/4"	2 1/4"	2213-2	2213-3	2213-4		
5/8"	3/4"	3 1/4"	2214-2	2214-3			
3/4"	3/4"	5 1/4"	2216-2				

Additional width, depth, and M/LF options may be available. Please check with 9Wood if you don't see the combination that you have in mind.

999 South A Street Springfield, OR 97477 tel 888.767.9990 fax 888.767.9998 sales@9wood.com www.9wood.com

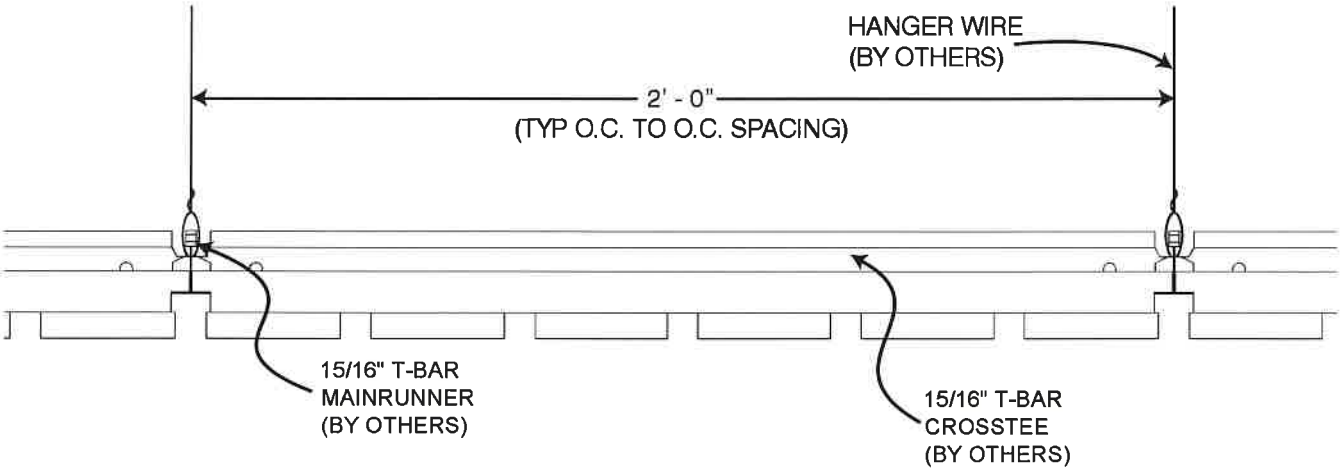
2200 Data Sheet

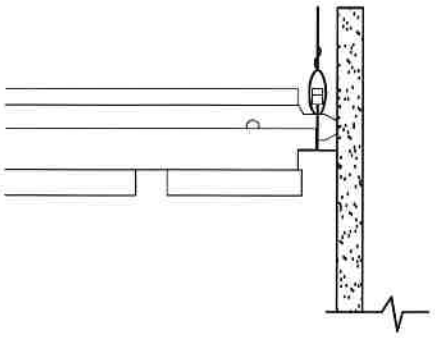
2000

SERIES: 2000 LINEAR WOOD

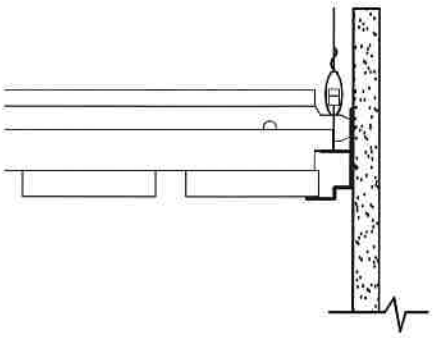
STYLE: 2200 LAY-IN LINEAR

Perimeter Conditions and Suspension

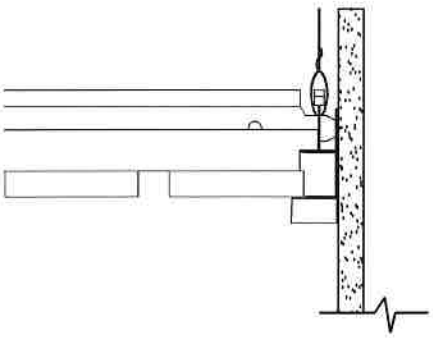




FLOATING:
OPEN REVEAL



METAL TRIM:
CONT. SHADOW STYLE
WALL ANGLE



WOOD TRIM:
CONT. WALL ANGLE
W/ WOOD TRIM

999 South A Street Springfield, OR 97477 tel 888 767.9990 fax 888 767.9998 sales@9wood.com www.9wood.com

Fire Retardant Coatings of Texas®, LLC
1150 Blue Mound Rd West #403
Haslet, Texas 76052
Office (817) 710-5233 Fax (817) 439-8385
www.frctexas.com

FX LUMBER GUARD®

Technical Information			
FSI <25 SGI / SDI <200	Mold Inhibitor & Insect Resistant		DON'T LET FREEZE DON'T DILUTE
Apply 45-95°F Store >45°F	Non Corrosive	Non Toxic	ENVIRONMENT SAFE
1 COAT APPLICATION	Transparent	STAINABLE / PAINTABLE	
Shelf Life: 3yrs	9.6 lbs per gallon		PH Range: 4.5-5%

A colorant can be added for validation of treatment.

FX LumberGuard: Fire Retardancy is indefinite if protected from excessive exposure to high humidity of >80% constantly or wet locations.

FX LumberGuard: is rated one of the top fire retardant coatings for application process, performance, stability, testing & certifications.

FX LumberGuard: treated dimensional lumber will not require retreating for straight or cross cuts, if ripping, the board will need re-treating, plywood can be straight, cross cut or ripped and will not require re-treatment.

TECHNICAL DATA SUBMITTAL SHEET

Certified Listed to ASTM E84 & ASTM E2768 *Class A rated*
SYP, SPF, Hem Fir & Doug Fir Lumber, SPF / SYP Plywood & OSB
CSI Div. 06 05 73.13 Fire Retardant Wood Treatment & CSI Div. 09 96 43 Fire Retardant Coatings

Additional Testing

ASTM E119 1 hour rated (commercial)
ASTM E119/ULC S101 17 minute rated (residential)
CAN/ULC S102 Class A
NFPA 255/703 ANSI/UL723 UBC 42.1

Additional Applications: **Maple, Oak, Poplar, Beach, Glulam's, Cedar, Redwood, MDF, Particle Board and other porous softwoods / hardwoods & Sheathings.**

NOTE: The results of the three-listed species (Southern pine, Douglas fir, and either white spruce or a Spruce/Fir mixture) are allowed to be used together to make inference on untested wood species because the three-tested species represent the full spectrum of expected treatability.

FX LumberGuard: can be used over stain, provided the stain doesn't have any wood protectant (wax, paraffin or latex) in it.

Application Process:

Material to be treated must be clean & dry before treating. Agitate FX Lumber Guard before and throughout application. Apply as it's received by a high volume low pressure system, dipping or flood coater at a rate of 425-475 sf per gallon depending on material being treated. The maximum moisture content for the substrate to be treated is 15 percent for dimensional lumber, 19 percent for plywood, and 16 percent for oriented strand board (OSB).

Field Testing:

When the observation of the treatment and/or field testing is required, field testing must be conducted as follows: The treated substrate will not have distinctive observable features. To ensure the substrate has been treated properly, the treated substrate must be field tested, the flame from a small fire source (propane torch) is applied to a treated and untreated sample of substrate for a period of not less than 15 seconds. The presence of the treatment must be observable through the comparison of the reactions of the substrates to the flame. Presence of the coating can be observed when the coatings begin to form a black char layer.

Meets 16 CFR 1500.3 FHSA of the Consumer Product Safety Commission (CPSC) as Non-Hazardous / Non-Toxic

NOTE: Degradation: Design Values *of lumber or plywood are not affected by the application of FX Lumber Guard due to the less evasive application then impregnation and/or kiln drying.*

WARNING: KEEP THIS AND ALL CHEMICALS OUT OF CHILDRENS REACH - AS WITH ANY PRODUCT, THIS PRODUCT MAY CAUSE EYE AND/OR SKIN IRRITAION - ALWAYS WEAR PERSONAL PROTECTION EQUIPMENT WHEN HANDLING THIS OR ANY CHEMICALS.

Certified & Tested Intertek CCRR-1044
Intertek W/N 21094
MEMBER
MEMBER
ESR-3872
ER-478
CERTIFIED APPLICATOR OF FX LUMBER GUARD

Birch Exterior NAF Plywood

MURPHY

Birch exterior NAF plywood, produced at our Eugene, OR facility, is a perfect choice for use in industrial applications when a panel produced with exterior glue is specified.

With over fifty years of quality production, the Eugene Hardwoods Plywood mill produces products exceeding industry standards and often, customer expectations.

At its core, Birch exterior NAF plywood is manufactured with durable, quality fir veneers. The face and back veneers are hand-sorted, natural birch.

All components used in the composition of this panel are responsibly sourced with FSC certification and constructed with NAF (No Added Formaldehyde) exterior resin.

BIRCH NAF PLYWOOD FEATURES

- Durable Fir Veneer Core
- NAF Exterior Resin
- FSC® and PEFC™ Certified
- Domestically Produced
- CARB Phase II Compliant
- TSCA Title VI Compliant
- Satisfies LEED and Green Project Requirements

GREEN AND CERTIFIED

Murphy's veneer division uses each log to the fullest, converting all possible content to veneer and using the by-products for biomass, landscape products and other uses. Nothing is wasted.

Special emphasis is placed on sourcing raw materials for panel production from suppliers committed to sustainable practices and sourcing. Certifications for Murphy facilities include FSC® (Forest Stewardship Council®) and PEFC™ (Program for the Endorsement of Forest Certification™).

Murphy Plywood has achieved CARB Phase II exempt status, TSCA Title VI compliance and is one of the few hardwood panel producers in the country with HP-1 mill certification.

We use NAF exterior resin for the Birch exterior NAF plywood. It is both LEED and CARB2 compliant.

Murphy industry association memberships include DHA® (Decorative Hardwoods Association), KCMA® (Kitchen Cabinet Manufacturers Association), AWFS® (Association of Woodworking & Furnishings Suppliers), APA® (Engineered Wood Association) and NAWLA® (North American Wholesale Lumber Association).

SPECIFICATIONS

Description: Birch Exterior NAF Plywood
Size: 48" X 96" + 0, - 1/16"
Thickness: 1/2", 3/4"
Core: 5-ply fir (1/2"), 7-ply fir (3/4")
Face/Back: Natural Birch
Glue Type: NAF Exterior Glue
Certifications: FSC®, PEFC™, CARB Phase II, TSCA Title VI

* Panels meet HP-1 specifications
Specifications subject to change without notice

DECORATIVE HARDWOODS Association

HPVA LABORATORIES®

FSC www.fsc.org FSC® C011299
The mark of responsible forestry

PEFC Promoting Sustainable Forest Management www.pefc.org

CARE AND HANDLING

Handling

Movement – Minimize damage to your panels by handling them as few times as possible. Plan the flow of materials to achieve a minimal movement goal. Please follow the precautions below to retain quality panel conditions.

Storage

Stacking – Maintain clean stacks with no edges protruding. Panels should be stacked flat on raised runners of equal thickness.

Light – The color of some hardwood veneers will change rapidly with exposure to direct sunlight. Keep panels covered and neatly stacked during storage.

Acclimatization

Allow at least 48 hours for panels to acclimate to the job site environment before installation. Again, the panels should be stacked flat on raised runners of equal thickness. The weight should be evenly distributed on the stack to help them acclimatize uniformly. If panels are not given enough time to acclimate to a new setting prior to fabrication or installation, they may warp.

Installation

Do not take panels to the job site until they are ready for installation (observe the above acclimatization step). Wall panels should not be installed over wet or unfinished drywall and an allowance for linear expansion should be included in the design.

Finishing

A light sanding and application of a sealer is recommended prior to staining of hardwood panels. Make sure to test a sample prior to final finishing. Please see our technical documentation section of the website for additional information.

MURPHY

2350 Prairie Road
Eugene, OR
97402

OFFICE 541.461.4545
FAX 541.461.4546
www.murphyplywood.com

DRICON®
FIRE RETARDANT TREATED WOOD

Meet fire codes and get the benefits of wood construction

Dricon® FRT lumber and plywood are chemically treated to reduce the spread of flames and generation of smoke

Complies with National Model Codes

40-Year Roof Warranty

40-Year Preservative Warranty

Truss Manufacturers Warranty

Meets Current AWPA Standards

EPA-Registered Protection Against Termites & Fungal Decay

Since 1981, Dricon® fire retardant treated (FRT) wood has performed as intended in countless structures around the world, providing a convenient and economical building alternative. Pressure-treated for protection in the event of a fire, Dricon® FRT wood will not promote flame spread, and generates less smoke, the #1 killer in fires. Model building codes permit Dricon® FRT wood as a substitute for materials classified as noncombustible in many applications. And Dricon® FRT wood offers a 40-year roof warranty that covers both materials and labor, plus a 40-year preservative warranty and warranty options for truss manufacturers.

Dricon® fire retardant or Dricon® FRT wood complies with or has been granted the following:
• AWPA UC1, UCFA • AWPA P49 (FR-1) • ICC-ES ESR-1626 • EPA Registration (62190-9)
• NYC MEA 199-81-M • NYC MEA 200-81-M • Factory Mutual Class I Roof Deck
• City of Los Angeles (RR 25122) • FHA Minimum Property Standard #2600
• HUD Materials Release (1261) • California State Fire Marshal • State of Wisconsin • QPL
All are subject to revision, reexamination.

www.dricon.com

Strength Design Factors for Dricon® Fire Retardant Treated Lumber Compared to Untreated Lumber Applicable at Service Temperatures Up to 150 F (66 C)

	Tested Species											
	Southern Pine Climate Zone			Douglas Fir Climate Zone			Spruce Climate Zone			Other Species Climate Zone		
Strength Design Factors	**1A**	**1B**	**2**	**1A**	**1B**	**2**	**1A**	**1B**	**2**	**1A**	**1B**	**2**
Compression Parallel, Fc	0.87	0.89	0.91	0.84	0.86	0.88	0.87	0.89	0.91	0.84	0.86	0.88
Horizontal Shear	0.87	0.89	0.91	0.86	0.88	0.90	0.87	0.89	0.91	0.86	0.88	0.90
Tension Parallel	0.87	0.89	0.91	0.82	0.84	0.86	0.87	0.89	0.91	0.82	0.84	0.86
Bending: Modulus of Elasticity, E	0.94	0.95	0.96	0.94	0.95	0.96	0.94	0.95	0.96	0.94	0.95	0.96
Extreme Fiber Stress, Fb	0.87	0.89	0.91	0.87	0.89	0.91	0.87	0.89	0.91	0.87	0.89	0.91

Strength Design Factors for Dricon® FRT Lumber Compared to Untreated Lumber Applicable at Service Temperatures Up to 100 F (38 C)

	Tested Species			Other Species
Strength Design Factors	**Southern Pine**	**Douglas Fir**	**Spruce**	
Compression Parallel, Fc	0.94	0.91	0.95	0.91
Horizontal Shear	0.95	0.94	0.95	0.94
Tension Parallel	0.92	0.87	0.98	0.87
Bending: Modulus of Elasticity, E	0.98	0.98	0.98	0.98
Extreme Fiber Stress, Fb	0.89	0.90	0.98	0.89

Total Allowable Loads and Spans for Dricon® FRT Plywood Compared to Untreated Plywood Applicable at Service Temperatures Up to 170 F (77 C)

Plywood Panel Thickness	Untreated Span Rating Roof/Subfloor	Dricon® Roof Sheathing Max. Live Load (psf)				Dricon® Subfloor Span Rating (Inches)
		Span (Inches)	Climate Zone 1A	1B	2	
5/16	12/0	12	69	93	126	0
5/16, 3/8	16/0	16	39	52	71	0
5/16, 3/8	20/0	20	25	33	45	0
3/8, 1/2	24/0	24	27	36	49	0
15/32, 1/2	32/16	24	38	51	70	16
19/32, 5/8	32/16	24	60	80	109	16
19/32, 5/8	32/16	32	34	45	61	16
23/32, 3/4	48/24	32	43	57	77	24
7/8	–	48	24	32	43	–
1 1/8	–	48	40	53	73	48

Climate Zone definitions

1 *Minimum design roof load or maximum ground snow load up to 20 psf*

A *Southern Arizona, Southeast Nevada (Las Vegas-Yuma-Phoenix-Tucson triangle)*

B *All other qualifying areas of the continental United States*

2 *Minimum ground snow load over 20 psf*

Here are some answers to frequently asked questions about Dricon® FRT wood:

Does it meet building codes? Yes. Dricon® FRT wood has been issued an evaluation report signifying compliance with model codes. It's also recognized by other US and international code and regulatory agencies.

Can it be painted or stained? Yes. Follow the same procedures you would for painting or staining untreated wood. However, flammability of the finish should be considered before application.

What species can be treated? There is a large variety of approved species such as Southern Yellow Pine, Doug Fir, SPF and Hem Fir. For more species details refer to the Dricon® FRT Application Guide.

Can Dricon® FRT wood be used outdoors? No. Dricon® FRT wood is intended only for above ground uses where it is kept away from direct moisture and shielded from weather. For exterior applications, use FRX® exterior FRT wood (see www.frxwood.com).

Is there a reduction in strength compared to untreated wood? Yes. The treating and drying processes cause a reduction in strength that varies with treatment, species of wood, applications and specific properties. Adjustment factors for Dricon® FRT wood are shown on this sheet.

What type of fasteners should be used with Dricon® FRT wood? Galvanized steel hardware is recommended. Although the Dricon® FR treatment does not increase the corrosion of bare steel, the galvanizing process provides an extra margin of safety.

Can I cut Dricon® FRT wood? Yes. Cutting lengths, drilling holes, and light sanding are permissible. It is not necessary to field-treat cut ends to maintain the flame spread rating. Most species of Dricon® FRT lumber should not be ripped or milled. Dricon® FRT plywood can be ripped or cross-cut.

Does Dricon® FRT wood have any special features? Dricon® FRT wood is pressure treated, backed by a 40 year warranty, and registered with the EPA for termite and decay resistance.

Tests: Dricon® FRT wood has been tested in accordance with the following procedures:
ASTM D 1413 • ASTM D 3201 • ASTM D 3345
ASTM D 5516 • ASTM D 5664 • ASTM E 84
ASTM E 162 • Boeing BSS 7239 • MIL-L-19140
NFPA 255 • NFPA 258 • NFPA 259 • UL 723
All are subject to revision, reexamination.

Use and Handling:
Dricon® FR treatment does not substantially change the physical characteristics of ordinary lumber. You should be aware of proper handling and personal hygiene practices, which are much the same as if you were using untreated wood. Keep the following guidelines in mind when using and handling Dricon® FRT wood:

1. Dricon® FRT wood should not be installed where it will be exposed to precipitation, direct moisture, or regular condensation.

2. Dricon® FRT wood should not be used in contact with the ground.

3. When storing Dricon® FRT wood, the material should be kept off the ground and covered to shield it from precipitation.

4. When painting or staining, the paint or stain manufacturer's recommendations should be followed. As with untreated lumber, the surface should be clean and dry.

5. The same common sense precautions should be taken when handling Dricon® FRT wood as with untreated wood or other building materials. Dust masks and eye protection devices are recommended to avoid possible irritation from sawdust and wood chips. Gloves will help avoid splinters. Hands should be washed after doing construction work.

Product Finishes

SHER-WOOD® 9420S LV HAPS FREE PRECAT TOPCOAT

5 Gloss.....T77F90021
10 Gloss.....T77F90022
15 Gloss.....T77F90004
20 Gloss.....T77F90023
25 Gloss.....T77F90005
30 Gloss.....T77F90006
35 Gloss.....T77F90024
40 Gloss.....T77F90007
60 Gloss.....T77F90025
90 Gloss.....T77C90008

SHERWIN-WILLIAMS.

DESCRIPTION:

SHER-WOOD® 9420S Precat Topcoat is a fast drying, high solids, VHAPS free precatalyzed clear lacquer coating for natural or stained interior woodwork. This VHAPS free topcoat provides excellent build and good chemical resistance. SHER-WOOD® 9420S Precat Topcoat can be applied as a self-sealed system or over Sherwin-Williams recommended sealers. This finish comes packaged in a ready to spray viscosity with little to no additional reduction required.

PRODUCT DATA:

Color:	**Wet**: Clear **Dry**: Clear	**VOC (as packaged, maximum, less exempt solvents):**	5.48 lbs/gal or 657 g/l
Solids % by Vol.:	23% (Theoretical)	**VOC (emitted):**	5.48 lbs/gal or 657 g/l
Solids % by Wt.:	30% (Theoretical)	**Lbs. VHAPs / Lbs. Solids:**	0
Weight / Gal.:	7.85 lb	**Flash Point (PMCC):**	-4° C / 25° F
Viscosity 23°C / 73°F:	**#4 Ford**: 27-30 Sec.	**Photo Chemically Reactive:**	No
Viscosity 23°C / 73°F:	**DIN 4**: 20-22 Sec.	**Shelf Life:**	6 months (at 15-25° C / 59°-77° F)
Viscosity 23°C / 73°F:	**Zahn #2 sig.**: 20-24 Sec.	**Theo. Coverage@1mil dry**	370 Sq. Ft./Gal. 100% Efficiency

MIXING / APPLICATION:

Working Temp: >18° C, 65° F substrate, coating and air
Catalyst: N/A
Catalyzation: N/A
Pot Life: N/A
Mixing: Mix thoroughly to ensure uniform consistency.
Sealer: Apply as a self-sealed system, or over SHER-WOOD® 6311S Precat Sealer T67F60001.
Reducer: Standard Reducer R07K10003, Fast Reducer R07K10001, Fast HF Reducer R07K10002, Slow HF Reducer R07K10006.
Application: 75 - 100 (g/m²) Approx. 4 wet mils; Min 1 mil wet –Max 5 mil wet @ 60%RH
Surface Prep: Substrate should be clean and free of grease and oil. Moisture content of the wood should be between 6%-8%. White wood sanding with 150 grit for open pore wood, and 180 grit for closed pore. Sand the first coat (with 280 to 320 paper) to eliminate grain raising and improve adhesion of the subsequent coat. Topcoat within 8 hours of sanding.
Use Directions: For interior use only. Mix thoroughly before application. Stack only when the surface temperature is below 35°C / 95 ° F. Dry time can be directly impacted by many factors, including film thickness. Users are urged to test the system under shop conditions.
App. Equip.: Conventional & HVLP Siphon Feed and Pressure Pot Systems and Airless Air Assist Equipment.
Tinting: Can be tinted with Chroma Chem 866 colorants to a maximum of 5% by weight total colorant.
Ind. Standards: This product meets the Precatalyzed Lacquer Transparent quality standard for AWI. It also meets KCMA and CKCA standards.

DRYING TIMES TO SAND / STACK:

Method	Drying Temp.	Drying Time (@ 60 % RH and thickness @ 1 mil dry)
Air Drying	20° C / 68° F	20-35 min. dry to **sand** / 2-3 hr. dry to **stack**
***Forced Drying**	70° C / 158° F	5-10 min. dry to **sand** / 1 - 2 hr. dry to **stack**

SHER-WOOD® 9420S LV HAPS FREE PRECAT TOPCOAT

APPLICATION RECOMMENDATIONS:

APPLICATION EQUIPMENT SETTINGS

Method of Application	Wet Film Mils / g/m²	Dry Film Mils / Microns
Conventional – Siphon Fed	3 – 5 mils / 75-125 g/m²	0.69-1.15 mils / 18-29 microns
Conventional – Pressure Pot	3 – 5 mils / 75-125 g/m²	0.69-1.15 mils / 18-29 microns
Airless Air Assist	3 – 5 mils / 75-125 g/m²	0.69-1.15 mils / 18-29 microns
HVLP - Siphon Fed	3 – 5 mils / 75-125 g/m²	0.69-1.15 mils / 18-29 microns
HVLP - Pressure Pot	3 – 5 mils / 75-125 g/m²	0.69-1.15 mils / 18-29 microns

All measurements and application equipment settings are based on application at a temperature of 68°F. Viscosity will vary depending on the temperature of the liquid. The application equipment setting recommendations are guidelines only. The settings are starting point recommendations and adjustments to the equipment settings and equipment may be needed to obtain the desired results. Please refer to your specific equipment manufacturer's recommendations for equipment set-up.

REDUCTION – TIP SIZE – PSI SETTINGS

Conventional Equipment Siphon Feed:
Reduce to 18-21 seconds #4 ford viscosity cup, nozzle size 0.070 inches (1.8mm) – 0.0 inches (2.0 mm), atomizing air 30 psi (2.0bar)–40 psi (2.8 bar).
Conventional Equipment Pressure Pot:
Reduce to 18-21 seconds #4 ford viscosity cup, nozzle size 0.472 inches (1.2mm) – 0.055 inches (1.4 mm), atomizing air 30 psi(2.0 bar)–40 psi (2.8 bar), Pot pressure 10 psi (0.60 bar) to 15 psi (1.0 bar)
Airless Air Assist Equipment:
Reduce to 18-25 seconds #4 ford viscosity cup, tip size.011inches (0.28mm) - .013 inches (0.33mm), fluid pressure 290 psi (20 bar) – 580psi(40 bar), atomizing air 11psi (0.8 bar) to 17psi (1.2 bar).
HVLP Equipment Siphon Feed:
Reduce to 17-21 seconds #4 ford viscosity cup,.061inch (1.5mm) -.072inch (1.8MM) nozzle, atomizing air 35psi (2.4bar) -45 psi (3.1bar).
HVLP Equipment Pressure Pot:
Reduce to 17-21 seconds #4 ford viscosity cup,0.472 inches (1.2mm) – 0.055 inches (1.4 mm) nozzle, atomizing air 20psi (1.37 bar) -25 psi (1.72 bar). Pot pressure 10 psi (0.60 bar) to 15 psi (1.0 bar)

CAUTIONS
FOR INDUSTRIAL SHOP APPLICATION

Thoroughly review product label and Material Safety Data Sheet (MSDS) for safety and cautions prior to using this product.

A material Safety Data Sheet is available from your local Sherwin-Williams facility.

Please direct any questions or comments to your local Sherwin-Williams facility.

PRODUCT NOTES

- SHER-WOOD® 9420S LV HAPS Free Precat Topcoat can be applied as self-sealed system, or over SHER-WOOD® 6311S Precat Sealer T67F60001.
- SHER-WOOD® 9420S LV HAPS Free Precat Topcoat is **not** recommended over light or pastel colors as the finish has an inherent yellow cast, and will continue to yellow over time.
- Maximum recommended dry film thickness for total coating system is 4.5 dry mils.

TESTING: Due to the wide variety of substrates, surface preparation methods, application methods, and environments, the customer should test the complete system for adhesion, compatibility and performance prior to full scale application.
NOTE: Product Data Sheets are periodically updated to reflect new information relating to the product. It is important that the customer obtain the most recent Product Data Sheet for the product being used. The information, rating, and opinions stated here pertain to the material currently offered and represent the results of tests believed to be reliable. However, due to variations in customer handling and methods of application which are not known or under our control, The Sherwin-Williams Company cannot make any warranties as to the end result.

NuWave™

WATER BASE PRE-CATALYZED CLEAR LACQUER

Product Code: 280103

NuWave™ Water Base Clear Lacquer is a single component, pre-catalyzed, high solids, finish ideal for interior wood surfaces. Rudd NuWave products are the perfect solution for on-site applications.

Ideal For

- Doors and Millwork
- Fixtures & Displays
- Furniture
- Cabinets & Casegoods

- Meets KCMA performance standards
- California AIM complaint at 275 g/l VOC
- OTC Phase II compliant at 275 g/l VOC
- Utah AIM compliant at 275 g/l VOC
- NESHAP compliant—JJ (furniture)
- NESHAP compliant—QQQQ (doors & windows)
- Meets LEED 2009

Benefits

- Non-yellowing
- Very low odor
- Exceptional adhesion
- High Solids
- Fast dry
- Can be used self-seal
- Easy to use

APPLICATION DATA

SURFACE PREPARATION: "White sand" wood with maximum 150 grit aluminum oxide sandpaper. Remove all sanding dust. Keep free of dirt, grease, silicone oils, lubricants and other contaminants.

APPLICATION EQUIPMENT: NuWave is designed for spray application through all types of spray equipment. Use corrosion resistant equipment with water base products. Recommended settings below are with trigger pulled.

Airless	1000 to 1200 psi—409 tip Note: Double orifice fine finish tips are NOT recommended.
Air Assist	500 to 700 psi fluid pressure, 10 to 12 psi air cap, 409 spray tip.
HVLP	28 psi air cap, 1.4 fluid nozzle

THINNING: This product is designed to spray at package viscosity. Thinning is not recommended. However, if thinning is desired, thin sparingly with water. Thinning will reduce film build and may increase grain raise.

Note: Thinning requirements may vary with changes in temperature and spray room conditions.

AGITATION: This product must be kept under slow, constant agitation, to ensure proper mixing and to prevent sheen variations. **Do not shake.**

CLEAN UP: Use soap and water for wet product. For dried finish clean up, use lacquer thinner.

FINISHING SYSTEM

STAIN: When staining wood, use Rudd ColorTools™ Water Base Spray Only Stain or ColorTools™ Water Base Wiping Stain.

SEAL: Apply one coat (2—4 mils wet) of 280115 NuWave Clear Lacquer Sealer or use one coat of NuWave Clear Lacquer as its own sealer and allow to dry 25 minutes*. Sand with 220/320 grit silicon carbide sandpaper before finishing.

FINISH: Apply two coats (3—5 mils wet) of NuWave Clear Lacquer. Allow 45-50 minutes* dry time and sand with 220/320 grit silicon carbide sandpaper between coats.

If desired, additional coats may be applied up to a total dry film of 5.0 dry mils.

*Dry times will vary with film thickness, temperature, humidity and air movement.

SAFETY PRECAUTIONS

Avoid breathing vapors, use a NIOSH approved cartridge respirator. Use pre-filters to avoid breathing spray particles or sanding dust.

Read Material Safety Data Sheet and label before using.

KCMA FINISH TEST

Vinegar	No Visual Effect
Lemon Juice	No Visual Effect
Orange Juice	No Visual Effect
Grape Juice	No Visual Effect
Catsup	No Visual Effect
Olive Oil	No Visual Effect
100 Proof Alcohol	No Visual Effect
Coffee	No Visual Effect
Water Ring	Pass at 190°F after 30 minutes
Edge Soak	Passed 24 hr KCMA test with no softening, discoloration or film defects

***** Contact your Sales Representative for available stock sheens and package sizes.*****

SPECIFICATIONS

Coverage	**440 square feet per gallon @ 1 dry mil film thickness**
Viscosity	25—30 Seconds (#2 Zahn Cup @ 75° F)
Sag Resistance	5 mils vertical @ 65—70° F
Solids*	29.7—32.9% by weight 2.5—2.8 lbs per gallon
VOCs* (Volatile Organic Compounds)	Calculated: 2.0—2.2 lb/gal 250—262 -g/l
HAPs* (Hazardous Air Pollutants)	Pounds HAPs per Pound Solid: 0.13—0.14 by weight
Dry to Sand	45 minutes @ 65—70° F
Block Free	18 hours @ 65—70° F
*Variations depend on gloss CAUTION: Thinning will reduce film build and increase VOCs.	

APPLICATION PRECAUTIONS

- Dry times may vary due to environmental controls, humidity and application methods.
- Keep container closed when not in use. Store in the original container.
- Do not store above 100°F (38.8°C). Keep form freezing. Best if used within 12 months of manufacture date.
- Recommended for use with water base Colortools™ stains. If using over solvent base Colortools stains, allow stains to dry overnight prior to applying NuWave Clear Sealer or Lacquer.
- This coating will have a milky appearance in can but will dry to a clear finish.
- Excessive wet film thickness will result in a "blue" coloration of film. Coloration will disappear once the coating has dried completely.
- Not recommended for use on MDF or as an exterior finish.
- The use of stainless steel application equipment is recommended.
- Finish, substrate and curing temperatures should remain above 60°F, extremes of temperature and humidity may affect product performance.
- Total film build of system must not exceed 5.0 dry mils.
- This product has been tested on a limited number of substrates and over a limited number of coatings. The user is responsible for testing suitability and performance for their specific application.

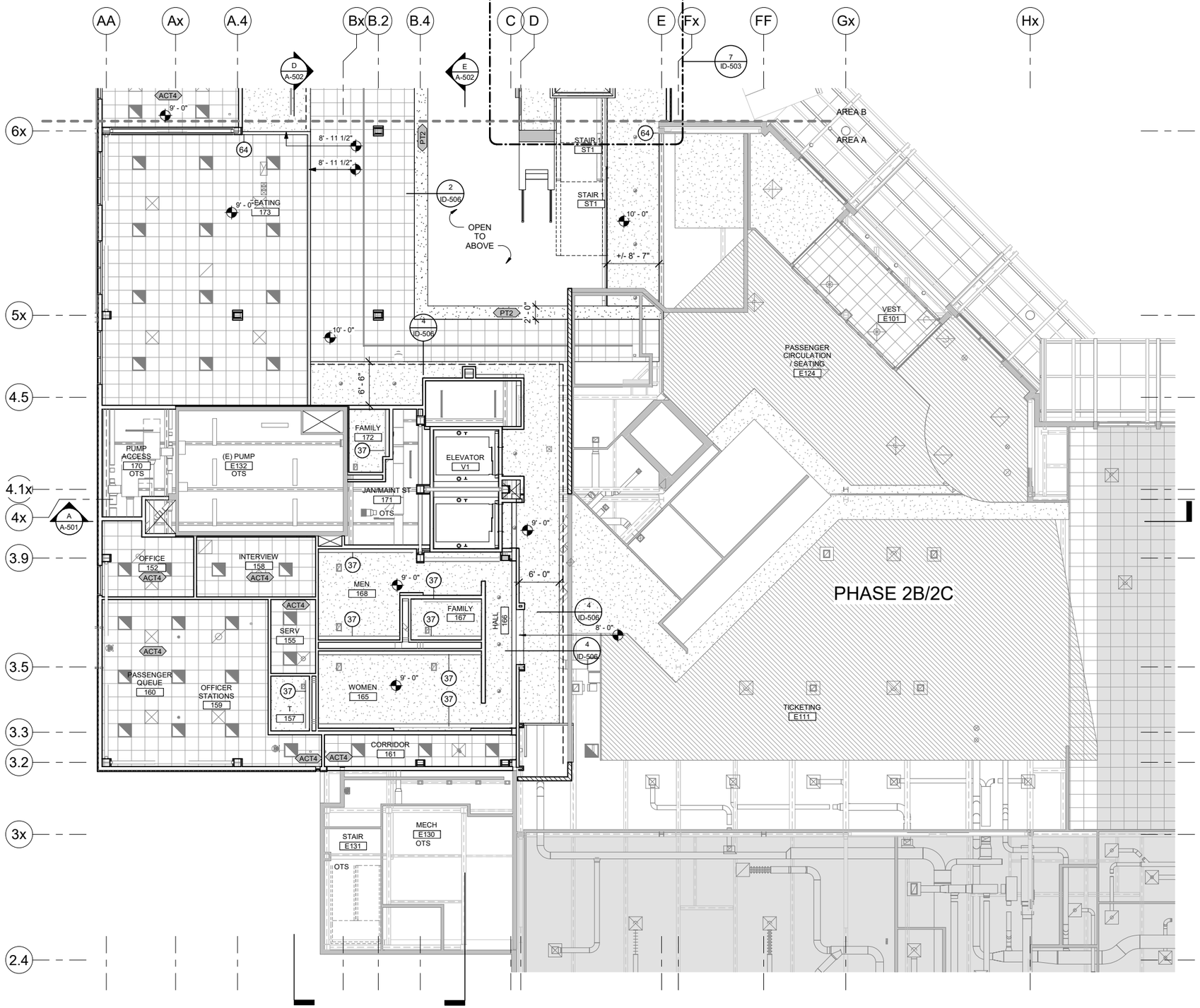
Shipping & Storage Information

OSHA Flammability Class: Not applicable

DOT Class: Not regulated

RUDD WOOD FINISHES

Rudd Company, Inc. · 1141 NW 50th St. · Seattle, WA 98107
ruddcompany.com · 206-789-1000



1 ID-1B311 REFLECTED CEILING PLAN - LEVEL 1 - AREA A -

1/8" = 1'-0"

FOR FIRE ALARM UPGRADE COORDINATION
March 7, 2021

0' 2' 4' 8' 16'
22X34 SHEET 1/8" = 1'-0"
11X17 SHEET 1/16" = 1'-0"

NORTH

GENERAL NOTES

1. VERIFY ALL EXISTING CONDITIONS PRIOR TO START OF WORK. NOTIFY OWNER IMMEDIATELY IF DISCREPANCIES ARE FOUND OR UNKNOWN CONDITIONS UNCOVERED.
2. CONTRACTOR TO COORDINATE FLOOR AND WALL FINISH SEQUENCE WITH PHASES AS NEEDED TO PERFORM WORK WHILE KEEPING AIRPORT OPERATIONAL.
3. ALL CEILINGS TO BE PT1 UNLESS NOTED OTHERWISE
4. ALL CEILINGS TO BE 9' - 0 " UNLESS NOTED OTHERWISE
5. LIGHTS SHALL BE CENTERED ON TILES AND ALIGNED IN ROWS WHERE THEY OCCUR.

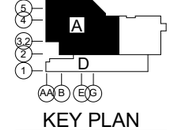
RCP LEGEND

SCALE: 1/8" REFER TO INTERIOR MATERIAL LEGEND, MECHANICAL AND ELECTRICAL FOR MORE INFORMATION

- NOT CURRENT PHASE
- NOT IN CONTRACT
- ACT1 (2X2)
- ACT2 (WOOD)
- ACT3 ACOUSTICAL BAFFLES
- ACT4 — ACT4 (2X2)
- GWB CEILING
- OTS — OPEN TO STRUCTURE PAINTED PT1, UNO.
- PTX — ACCENT PAINT ; PAINT FACE AND UNDERSIDE OF SOFFIT, TYPICAL
- X' X" — CEILING HEIGHTS TO BE 9' 0" UNLESS NOTED OTHERWISE
- COVE LIGHT
- LIGHT FIXTURES, REFER TO ELECTRICAL FOR MORE INFORMATION

SHEET NOTES

37	RECESED COVE LIGHT, REFER TO ELECTRICAL FOR MORE INFORMATION
64	ALIGN FACE OF SOFFIT WITH ADJACENT WALL



KEY PLAN

CONFORMED DOCUMENTS

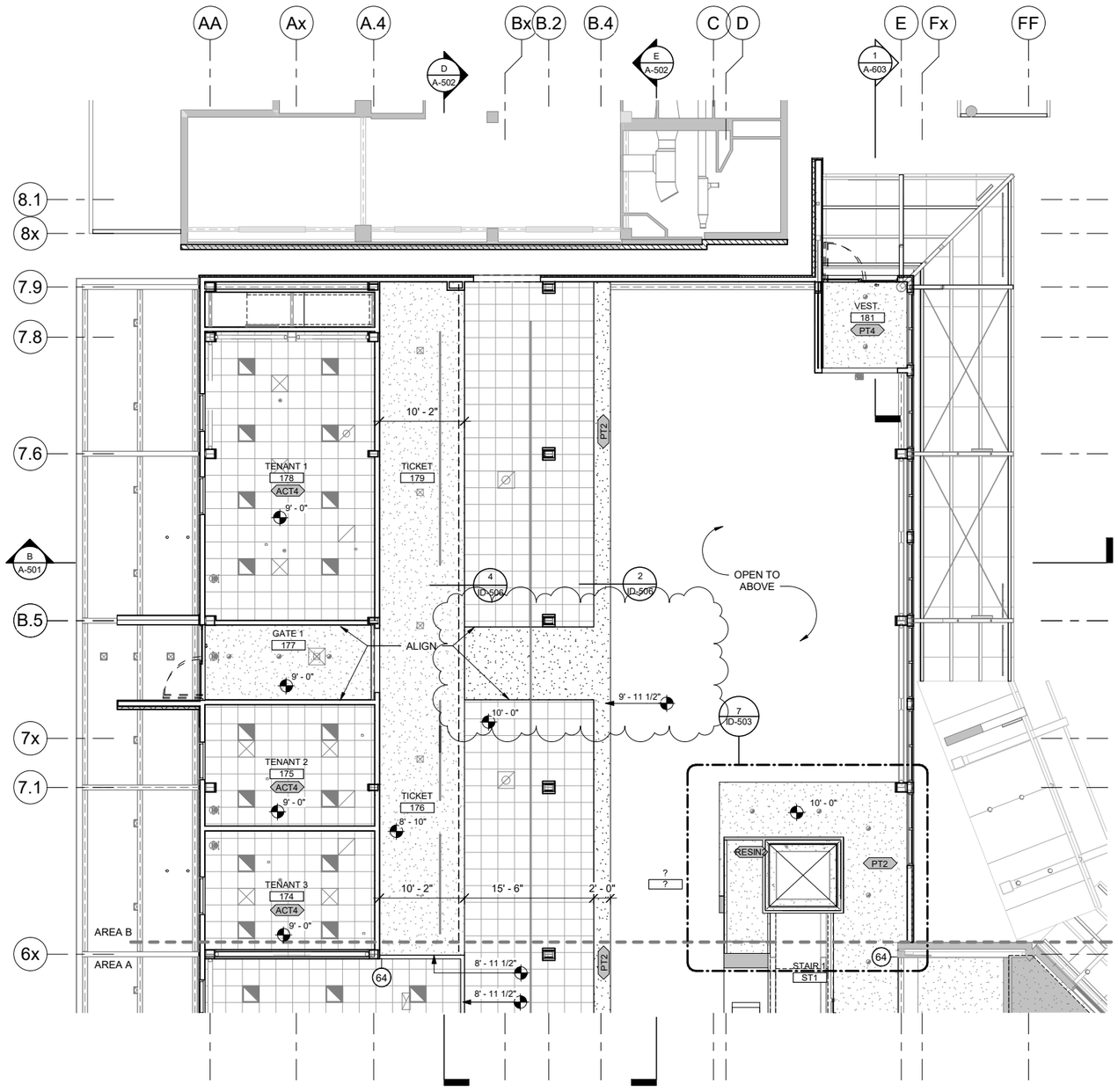
REVIEWED BY:

JOB NO. 2015006
PROJ. MGR. MP
DRAWN BY: MP/CK

McCOOL CARLSON GREEN

JNU Terminal Reconstruction
BE20-020
File 1382.80

SHEET NO.



1 ID-1B312 REFLECTED CEILING PLAN - LEVEL 1 - AREA B

1/8" = 1'-0"

NORTH

0' 2' 4' 8' 16'

22X34 SHEET 1/8" = 1'-0"

11X17 SHEET 1/16" = 1'-0"

FOR FIRE ALARM UPGRADE COORDINATION
March 7, 2021

GENERAL NOTES

1. VERIFY ALL EXISTING CONDITIONS PRIOR TO START OF WORK. NOTIFY OWNER IMMEDIATELY IF DISCREPANCIES ARE FOUND OR UNKNOWN CONDITIONS UNCOVERED.
2. CONTRACTOR TO COORDINATE FLOOR AND WALL FINISH SEQUENCE WITH PHASES AS NEEDED TO PERFORM WORK WHILE KEEPING AIRPORT OPERATIONAL.
3. ALL CEILINGS TO BE PT1 UNLESS NOTED OTHERWISE
4. ALL CEILINGS TO BE 9' - 0 " UNLESS NOTED OTHERWISE
5. LIGHTS SHALL BE CENTERED ON TILES AND ALIGNED IN ROWS WHERE THEY OCCUR.

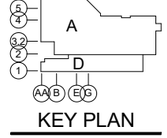
RCP LEGEND

SCALE: 1/8" REFER TO INTERIOR MATERIAL LEGEND, MECHANICAL AND ELECTRICAL FOR MORE INFORMATION

- NOT CURRENT PHASE
- NOT IN CONTRACT
- ACT1 (2X2)
- ACT2 (WOOD)
- ACT3 ACOUSTICAL BAFFLES
- ACT4 — ACT4 (2X2)
- GWB CEILING
- OTS — OPEN TO STRUCTURE PAINTED PT1, UNO.
- PTX — ACCENT PAINT ; PAINT FACE AND UNDERSIDE OF SOFFIT, TYPICAL
- X' X" — CEILING HEIGHTS TO BE 9' 0" UNLESS NOTED OTHERWISE
- COVE LIGHT
- LIGHT FIXTURES, REFER TO ELECTRICAL FOR MORE INFORMATION

SHEET NOTES

64	ALIGN FACE OF SOFFIT WITH ADJACENT WALL



KEY PLAN

CONFORMED DOCUMENTS

REVIEWED BY:

JOB NO. 2015006
PROJ. MGR. MP
DRAWN BY: MP/CK

McCOOL CARLSON GREEN

JNU Terminal Reconstruction
BE20-020

File 1382.80

SHEET NO.

1 REFLECTED CEILING PLAN - LEVEL 2 - AREA A
ID-1B321 1/8" = 1'-0"

NORTH

0' 2' 4' 8' 16'
22X34 SHEET 1/8" = 1'-0"
11X17 SHEET 1/16" = 1'-0"

FOR FIRE ALARM UPGRADE COORDINATION
March 7, 2021

GENERAL NOTES

1. VERIFY ALL EXISTING CONDITIONS PRIOR TO START OF WORK. NOTIFY OWNER IMMEDIATELY IF DISCREPANCIES ARE FOUND OR UNKNOWN CONDITIONS UNCOVERED.
2. CONTRACTOR TO COORDINATE FLOOR AND WALL FINISH SEQUENCE WITH PHASES AS NEEDED TO PERFORM WORK WHILE KEEPING AIRPORT OPERATIONAL.
3. ALL CEILINGS TO BE PT1 UNLESS NOTED OTHERWISE
4. ALL CEILINGS TO BE 9' - 0 " UNLESS NOTED OTHERWISE
5. LIGHTS SHALL BE CENTERED ON TILES AND ALIGNED IN ROWS WHERE THEY OCCUR.

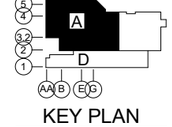
RCP LEGEND

SCALE: 1/8" REFER TO INTERIOR MATERIAL LEGEND, MECHANICAL AND ELECTRICAL FOR MORE INFORMATION

- NOT CURRENT PHASE
- NOT IN CONTRACT
- ACT1 (2X2)
- ACT2 (WOOD)
- ACT3 ACOUSTICAL BAFFLES
- ACT4 — ACT4 (2X2)
- GWB CEILING
- OTS — OPEN TO STRUCTURE PAINTED PT1, UNO.
- PTX — ACCENT PAINT ; PAINT FACE AND UNDERSIDE OF SOFFIT, TYPICAL
- X' X" — CEILING HEIGHTS TO BE 9' 0" UNLESS NOTED OTHERWISE
- COVE LIGHT
- LIGHT FIXTURES, REFER TO ELECTRICAL FOR MORE INFORMATION

SHEET NOTES

30	PAINT EXPOSED CONDUITS & MECHANICAL DUCTS, EXPOSED CABLES, AND SPRINKLERS PT7 ABOVE ACT3
37	RECESSED COVE LIGHT, REFER TO ELECTRICAL FOR MORE INFORMATION
64	ALIGN FACE OF SOFFIT WITH ADJACENT WALL
65	HEADWALL LOCATION; REFER TO ELECTRICAL FOR POWER AND DATA REQUIRMENTS



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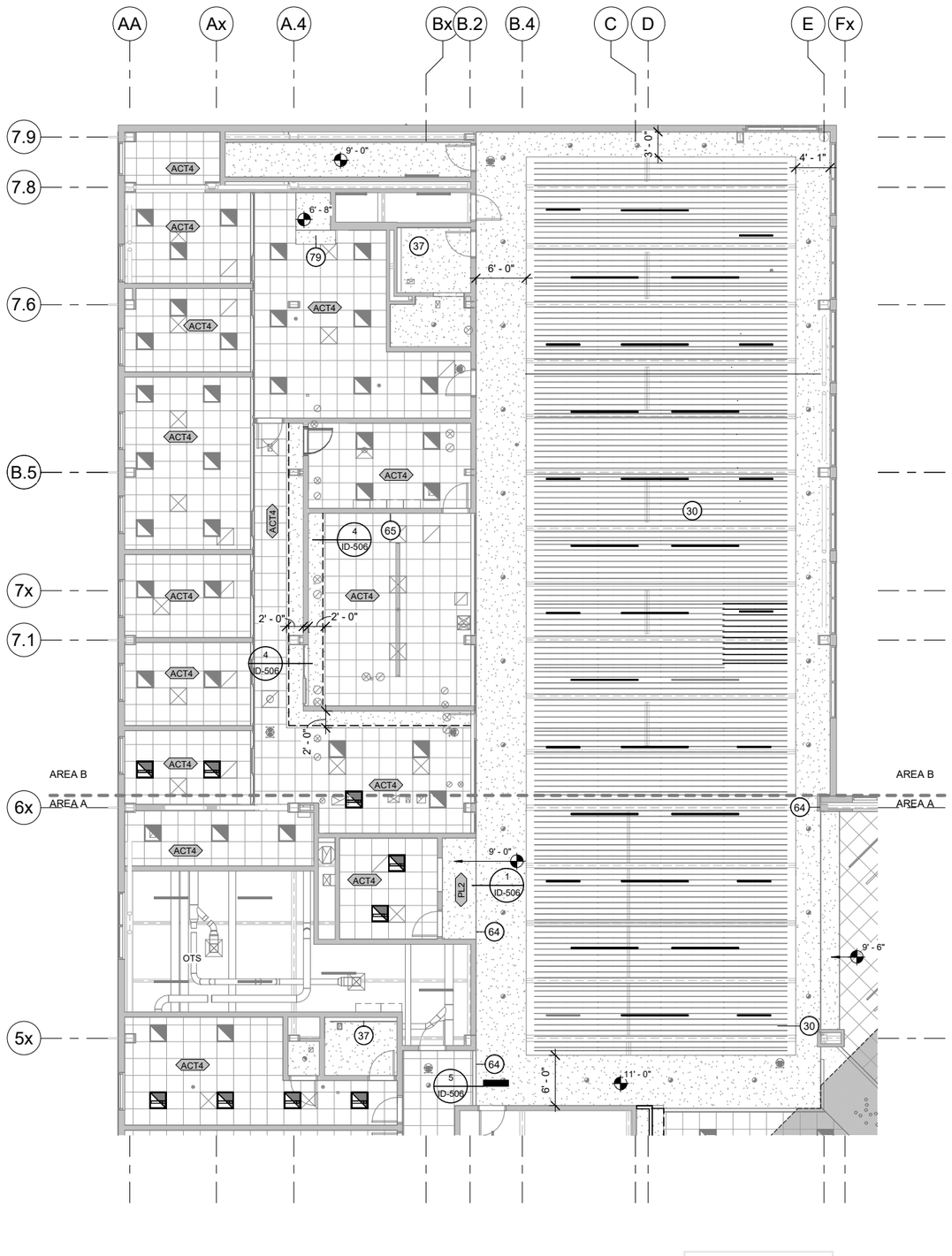
CONFORMED DOCUMENTS



1 REFLECTED CEILING PLAN - LEVEL 2 - AREA B
ID-1B322
1/8" = 1'-0"

0' 2' 4' 8' 16'
22X34 SHEET 1/8" = 1'-0"
11X17 SHEET 1/16" = 1'-0"

NORTH

FOR FIRE ALARM UPGRADE COORDINATION
March 7, 2021

GENERAL NOTES

1. VERIFY ALL EXISTING CONDITIONS PRIOR TO START OF WORK. NOTIFY OWNER IMMEDIATELY IF DISCREPANCIES ARE FOUND OR UNKNOWN CONDITIONS UNCOVERED.
2. CONTRACTOR TO COORDINATE FLOOR AND WALL FINISH SEQUENCE WITH PHASES AS NEEDED TO PERFORM WORK WHILE KEEPING AIRPORT OPERATIONAL.
3. ALL CEILINGS TO BE PT1 UNLESS NOTED OTHERWISE
4. ALL CEILINGS TO BE 9' - 0 " UNLESS NOTED OTHERWISE
5. LIGHTS SHALL BE CENTERED ON TILES AND ALIGNED IN ROWS WHERE THEY OCCUR.

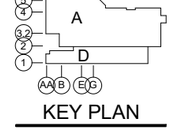
RCP LEGEND

SCALE: 1/8" REFER TO INTERIOR MATERIAL LEGEND, MECHANICAL AND ELECTRICAL FOR MORE INFORMATION

- NOT CURRENT PHASE
- NOT IN CONTRACT
- ACT1 (2X2)
- ACT2 (WOOD)
- ACT3 ACOUSTICAL BAFFLES
- ACT4 — ACT4 (2X2)
- GWB CEILING
- OTS — OPEN TO STRUCTURE PAINTED PT1, UNO.
- PTX — ACCENT PAINT ; PAINT FACE AND UNDERSIDE OF SOFFIT, TYPICAL
- X' X" — CEILING HEIGHTS TO BE 9' 0" UNLESS NOTED OTHERWISE
- COVE LIGHT
- LIGHT FIXTURES, REFER TO ELECTRICAL FOR MORE INFORMATION

SHEET NOTES

30	PAINT EXPOSED CONDUITS & MECHANICAL DUCTS, EXPOSED CABLES, AND SPRINKLERS PT7 ABOVE ACT3
37	RECESSED COVE LIGHT, REFER TO ELECTRICAL FOR MORE INFORMATION
64	ALIGN FACE OF SOFFIT WITH ADJACENT WALL
65	HEADWALL LOCATION; REFER TO ELECTRICAL FOR POWER AND DATA REQUIRMENTS
79	SLOPED GWB AT BOTTOM OF STAIR



KEY PLAN

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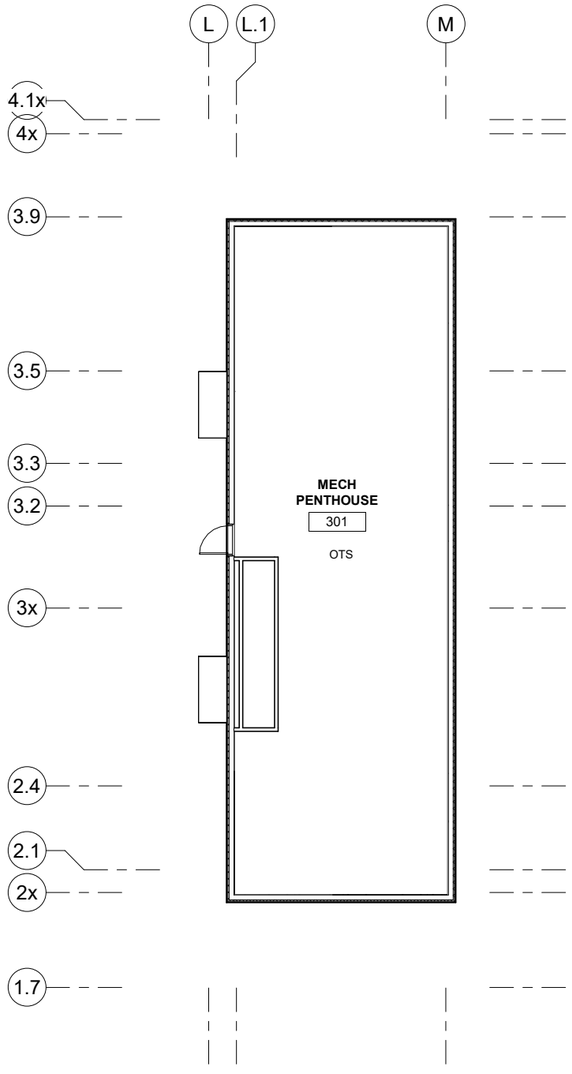


1 REFLECTED CEILING PLAN - PENTHOUSE
ID-1B331 1/8" = 1'-0"

FOR FIRE ALARM UPGRADE COORDINATION
March 7, 2021

0' 2' 4' 8' 16'
22X34 SHEET 1/8" = 1'-0"
11X17 SHEET 1/16" = 1'-0"

NORTH

GENERAL NOTES

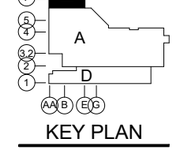
1. VERIFY ALL EXISTING CONDITIONS PRIOR TO START OF WORK. NOTIFY OWNER IMMEDIATELY IF DISCREPANCIES ARE FOUND OR UNKNOWN CONDITIONS UNCOVERED.
2. CONTRACTOR TO COORDINATE FLOOR AND WALL FINISH SEQUENCE WITH PHASES AS NEEDED TO PERFORM WORK WHILE KEEPING AIRPORT OPERATIONAL.
3. ALL CEILINGS TO BE PT1 UNLESS NOTED OTHERWISE
4. ALL CEILINGS TO BE 9' - 0 " UNLESS NOTED OTHERWISE
5. LIGHTS SHALL BE CENTERED ON TILES AND ALIGNED IN ROWS WHERE THEY OCCUR.

RCP LEGEND

SCALE: 1/8" REFER TO INTERIOR MATERIAL LEGEND, MECHANICAL AND ELECTRICAL FOR MORE INFORMATION

- NOT CURRENT PHASE
- NOT IN CONTRACT
- ACT1 (2X2)
- ACT2 (WOOD)
- ACT3 ACOUSTICAL BAFFLES
- ACT4 — ACT4 (2X2)
- GWB CEILING
- OTS — OPEN TO STRUCTURE PAINTED PT1, UNO.
- PTX — ACCENT PAINT ; PAINT FACE AND UNDERSIDE OF SOFFIT, TYPICAL
- X' X" — CEILING HEIGHTS TO BE 9' 0" UNLESS NOTED OTHERWISE
- COVE LIGHT
- LIGHT FIXTURES, REFER TO ELECTRICAL FOR MORE INFORMATION

SHEET NOTES



KEY PLAN

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