WOODWORKS® Concealed

Inspiring Great Spaces®

Armstrong®
CEILING SOLUTIONS
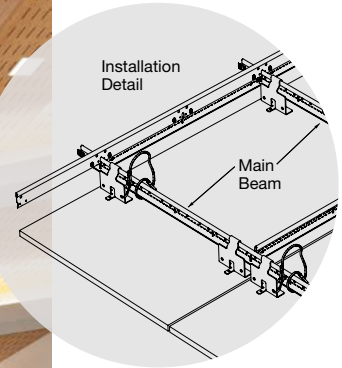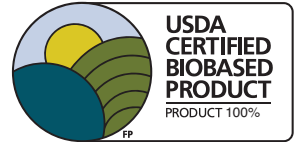
WOODWORKS® Concealed
Concealed Suspension
Natural Variations™, Constants™, and Bamboo

Installation Detail

Main Beam

cloud friendly

Visit armstrongceilings.com
Photo Gallery to view more
installation photos

SEARCH: woodworks concealed

WoodWorks® Concealed 24" x 72" panels with W5 perforation in Bamboo Patina with Prelude® 15/16" suspension system

KEY SELECTION ATTRIBUTES

- Mix and match three standard panel sizes on the same project
- Narrow 1/4" reveal visual
- Hook-on panels (for standard 15/16" suspension) provide safe and secure downward accessibility
- Create continuous looks and clouds with 6" aluminum trim available in six coordinating wood finishes or black
- Coordinating WoodWorks walls (see website or catalog)

- Factory edge banded for superior quality
- Shorter lead times and lower cost than custom millwork
- Complete standard system from one manufacturer (suspension system/panels/trim)
- California Air Resources Board (CARB) compliant*
- For unique solutions, contact the You Inspire™ Solutions Center at solutionscenter@armstrongceilings.com

VENEER SELECTION *Due to printing limitations, shade may vary from actual product.*

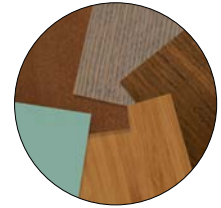**Natural Variations** (Real Wood Veneers)

Beech (NBE)	Maple (NMP)	Light Cherry (NLC)	Dark Cherry (NDC)

Oak (NOK) *new*	Walnut (NWN) *new*	Walnut Espresso (NWE) *new*

Constants (Real Wood Veneers)

Maple (CMA)	Cherry (CCY)	Walnut (CWA)

Redux Wood Wheat (CRW) *new*

Bamboo (Veneer is Rapidly Renewable)**

Patina (BAP)	Native (BAN)

Custom veneers available

* Specified in Title 17 California Code of Regulations Section 93120.2(a)
** Bamboo is a grass that only requires 3-7 years for maturity and does not have to be replanted after each harvest.

PERFORATION OPTIONS *(Actual 1:6 scale shown)*

W1 (Unperforated)	W2 – Rg 6006 (Round Straight)	W3 – Rd 6006 (Round Diagonal)	W4 – Rg 6011 (Round Straight)	W5 – Lg 9512 (Oval Straight Slotted)	W6 – Lg 9508 (Oval Straight Slotted)
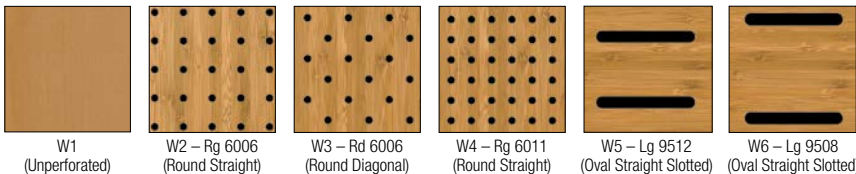
NOTE: Slotted perforations run parallel to the length of the panel.

Custom perforations available

In addition to these standard options, there are other sizes and veneers available with WoodWorks Access™ Custom systems. Contact TechLine at 1 877 ARMSTRONG for details.
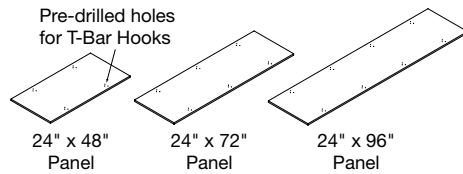
Armstrong®
CEILING SOLUTIONS

FSC
www.fsc.org
FSC® C007626
The mark of responsible forestry

RAINFOREST ALLIANCE CERTIFIED™

USDA CERTIFIED BIOBASED PRODUCT
PRODUCT 100%

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Concealed Suspension
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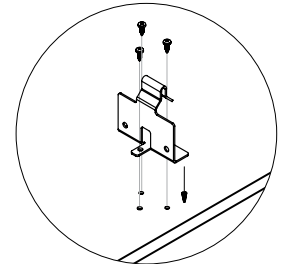

HOW TO INSTALL PANELS

Step 1: Select Panel Size

Pre-drilled holes
for T-Bar Hooks

24" x 48"
Panel

24" x 72"
Panel

24" x 96"
Panel

Step 2: Order T-Bar Hooks and Screws Based on Panel Size

T-Bar Hook
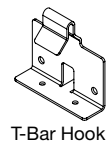
Panel Size	Number of Hooks Needed	Number of Screws Needed*
24" x 48"	4	12
24" x 72"	6	18
24" x 96"	8	24
*3 screws per hook		

Step 3: Install Hooks on Panels

Step 4: Install Panels

A.

B.

C.
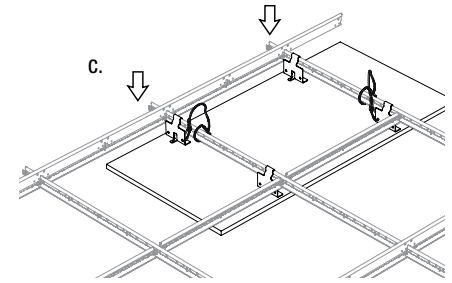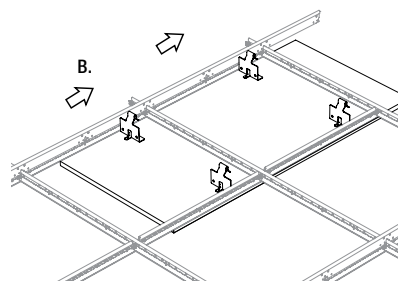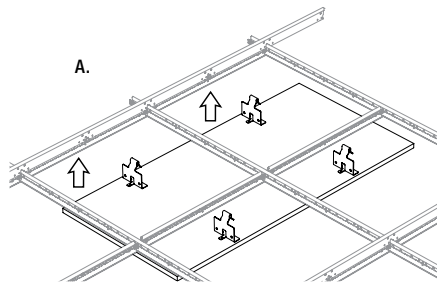
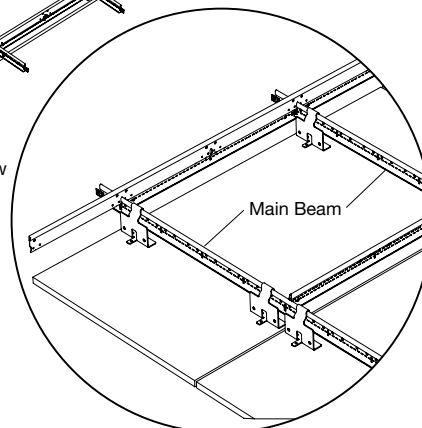
HOW TO ASSEMBLE BASIC SYSTEMS
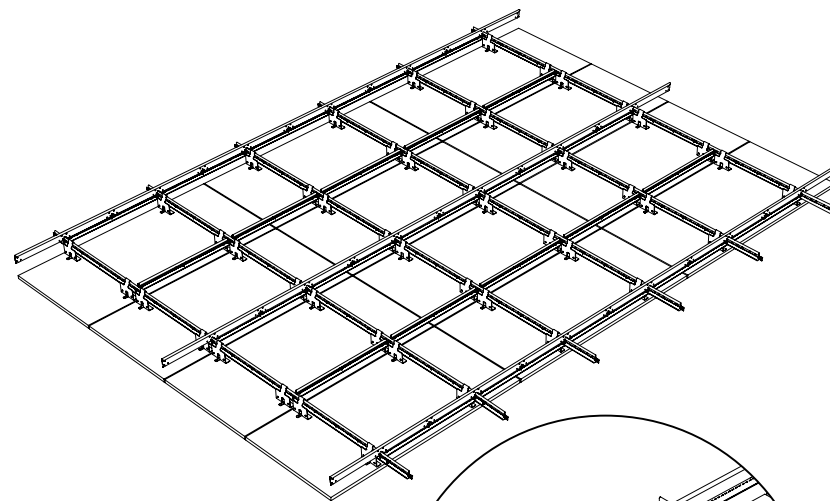
Detail View

Main Beam

For a basic **24" x 48"** panel assembly (pictured at left), you will need to order:

Item	Pieces
5983W1 – 24" x 48" Unperforated Panel	12
5986 – T-Bar Hook	48 (4 per Panel)
HD Main Beam	6
2' Cross Tee	25
SH12 Support Hanger	3

For a basic **24" x 72"** panel assembly, you will need to order:

Item	Pieces
5984W1 – 24" x 72" Unperforated Panel	8
5986 – T-Bar Hook	48 (6 per Panel)
HD Main Beam	6
2' Cross Tee	25
SH12 Support Hanger	3

For a basic **24" x 96"** panel assembly, you will need to order:

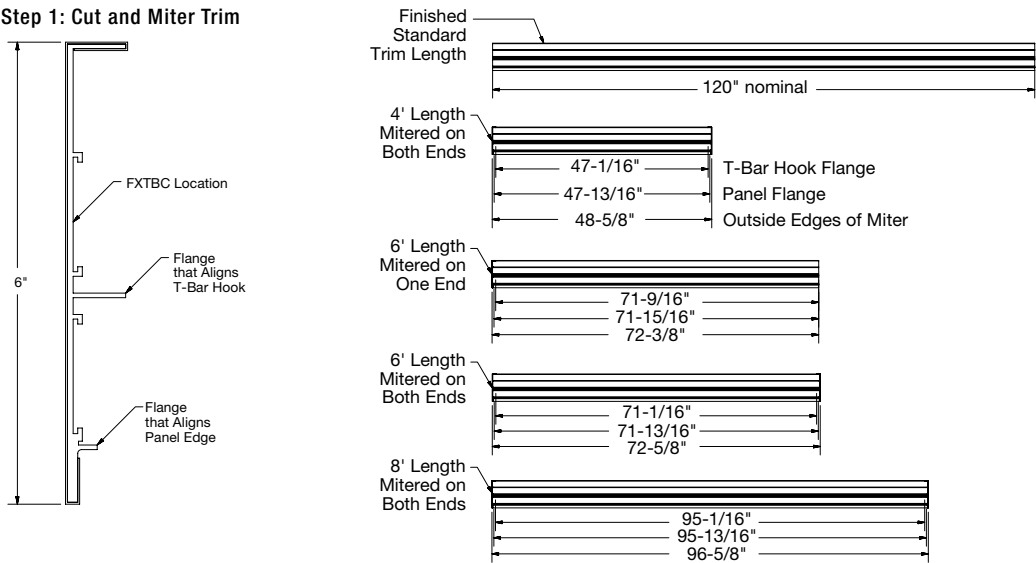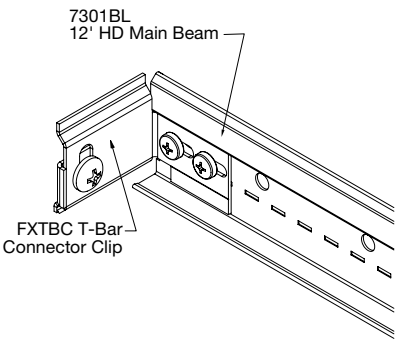| Item	Pieces
5985W1 – 24" x 96" Unperforated Panel	8
5986 – T-Bar Hook	64 (8 per Panel)
HD Main Beam	8
2' Cross Tee	35
SH12 Support Hanger	6

WOODWORKS® Concealed

Concealed Suspension
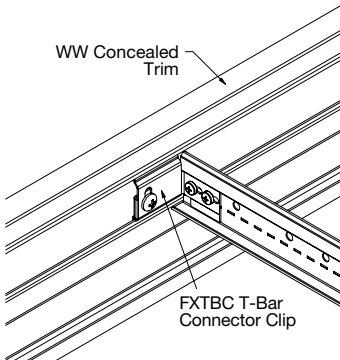Natural Variations™, Constants™, and Bamboo

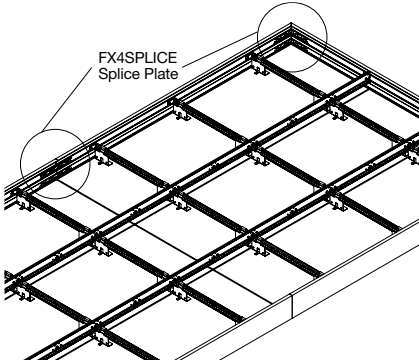---

HOW TO INSTALL TRIM

Step 1: Cut and Miter Trim

6"

FXTBC Location

Flange that Aligns T-Bar Hook

Flange that Aligns Panel Edge

Finished Standard Trim Length

120" nominal

4' Length Mitered on Both Ends

47-1/16" — T-Bar Hook Flange
47-13/16" — Panel Flange
48-5/8" — Outside Edges of Miter

6' Length Mitered on One End

71-9/16"
71-15/16"
72-3/8"

6' Length Mitered on Both Ends

71-1/16"
71-13/16"
72-5/8"

8' Length Mitered on Both Ends

95-1/16"
95-13/16"
96-5/8"

Step 2: Attach Clips to Ends of Main Beams and Cross Tees

7301BL 12' HD Main Beam

FXTBC T-Bar Connector Clip

Step 3: Attach Trim to Clips

WW Concealed Trim

FXTBC T-Bar Connector Clip

Step 4: Install Splice Plates

FX4SPLICE Splice Plate

Step 5: Install Panels

WW Concealed Trim

7301BL 12' HD Main Beam

FXTBC T-Bar Connector Clip

WW Concealed T-Bar Hook
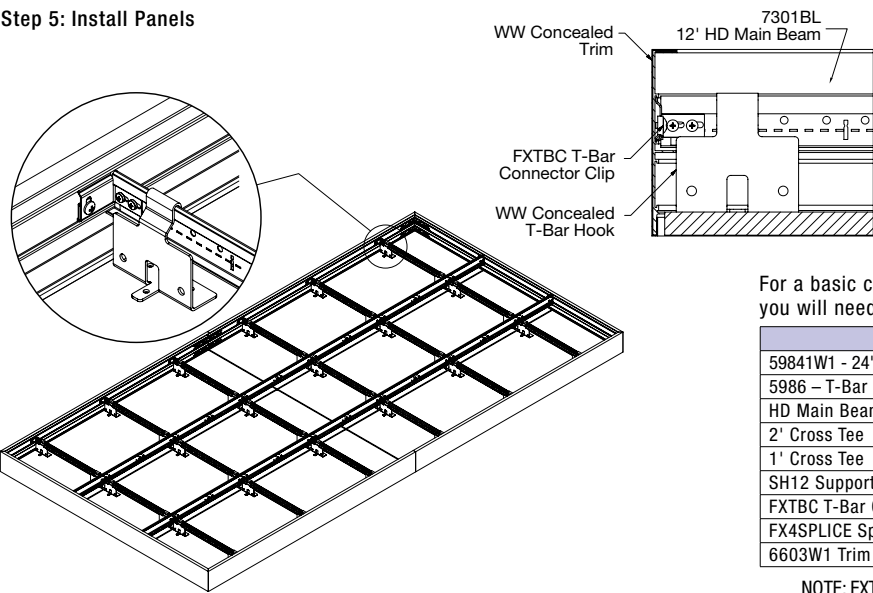
For a basic cloud assembly with **24" x 72"** panels, you will need to order:

Item	Pieces
59841W1 - 24" x 72" Unperforated Panel	6
5986 – T-Bar Hook	36
HD Main Beam	6
2' Cross Tee	10
1' Cross Tee	4
SH12 Support Hanger	2
FXTBC T-Bar Connector Clip	16
FX4SPLICE Splice Plate	12
6603W1 Trim	6

NOTE: FXTBC Clips and FX4SPLICE Splice Plates are included in trim carton.
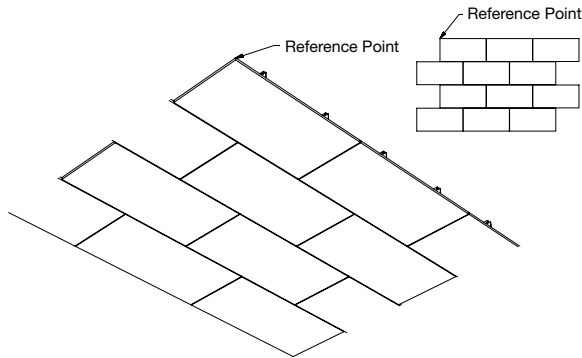
WOODWORKS® Concealed

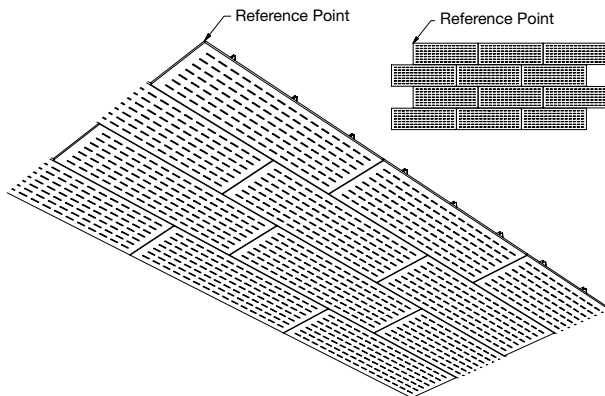Concealed Suspension
Natural Variations™, Constants™, and Bamboo
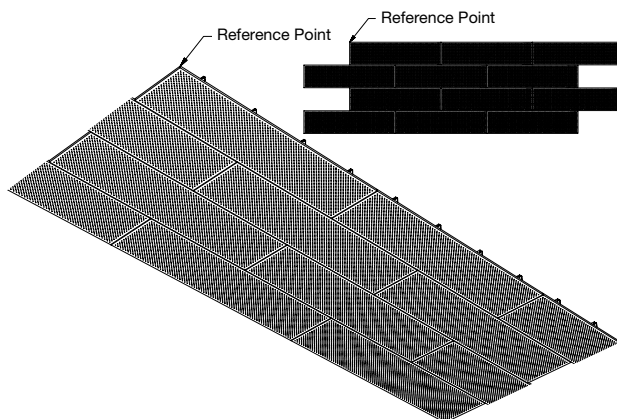
WAYS YOU CAN INSTALL PANELS

Single Panel Staggered Pattern Options

Reference Point
Reference Point

24" x 48" Unperforated Panels - Staggered Pattern Assembly

Reference Point
Reference Point

24" x 72" Panels with W6 Perforation - Staggered Pattern Assembly

Reference Point
Reference Point

24" x 96" Panels with W3 Perforation - Staggered Pattern Assembly

Multi-panel Staggered Pattern Options

Reference Point
Reference Point
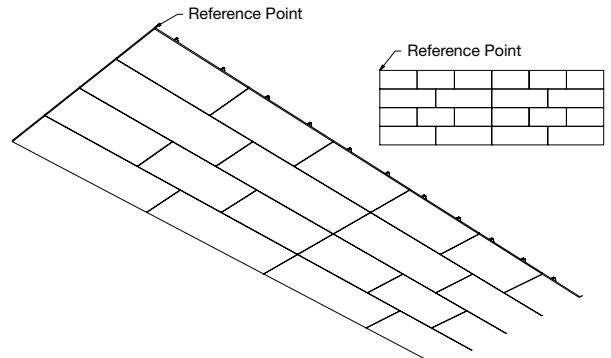
24" x 48" and 24" x 72" Unperforated Panels - Staggered Pattern Assembly

Reference Point
Reference Point

24" x 48" and 24" x 96" Unperforated Panels - Staggered Pattern Assembly

Reference Point
Reference Point
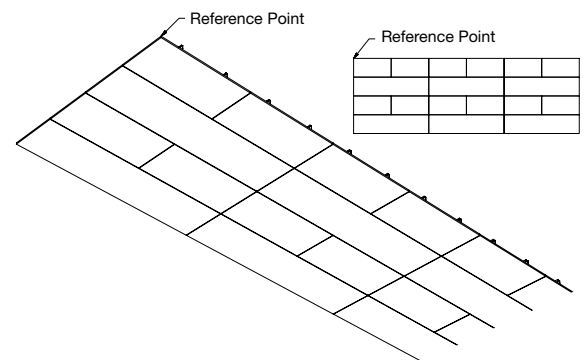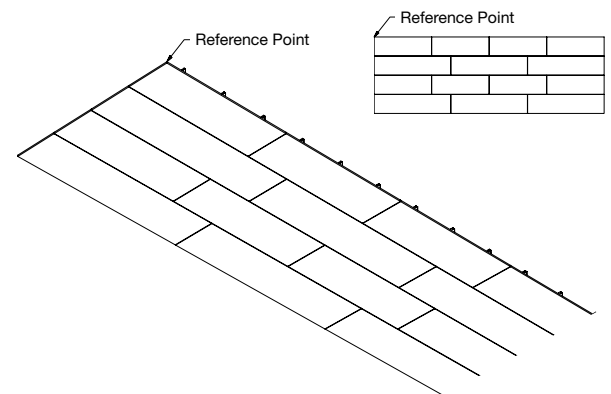
24" x 72" and 24" x 96" Unperforated Panels - Staggered Pattern Assembly

NOTE: For all assemblies above, regardless of panel sizes used, the suspension system will always be installed in standard 24" x 24" modules with main beams 2' on center.

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Concealed Suspension
Natural Variations™, Constants™, and Bamboo

VISUAL SELECTION

PERFORMANCE

Edge Profile	Item Number◆	Dimensions (Inches) Nominal W x L x H	Perforations	Fire Rating	Primary (Embodied) Energy
FSC®-certified WOODWORKS Concealed					Below 11MJ/SF
1/4" Reveal	**5983_ _ _ _**	24 x 48 x 3/4"	W1, W2, W3, W4, W5, W6	Class A	•
	5984_ _ _ _	24 x 72 x 3/4"	W1, W2, W3, W4, W5, W6	Class A	•
	5985_ _ _ _	24 x 96 x 3/4"	W1, W2, W3, W4, W5, W6	Class A	•

◆ When specifying or ordering, include the appropriate 2-digit perforation and 3-letter color suffixes. For veneers, sizes, and perforation patterns available as special order, call TechLine at 1 877 ARMSTRONG.

EXAMPLE: **5983 W2 NLC**

Panel Dimension/Type: 24" x 48" FSC®-certified
Perforation: W2 Round Straight Rg 6006
Finish: Natural Variations Light Cherry

ACOUSTICAL INFORMATION

Dots represent high level of performance.

Perforation	NRC**
W1	N/A
W2	0.40
W3	0.40
W4	0.65
W5	0.40
W6	0.40

** Maximum NRC achieved with acoustical infill (item 8200100 or 5479). When infill is used, CAC is 28.

ACCESSORIES

Item Number	Description	Dimensions Nominal (Inches)	Color	Pieces/Carton
6603W1_ _ _◆	WoodWorks Concealed Trim◆◆	6 x 120"	Standard Veneers (see below)	6
FXTBC	T-Bar Connector Clip	N/A	N/A	10
FX4SPLICE	Splice Plate with Setscrews	N/A	N/A	10
7123	Wood Screws	5/8"	N/A	300
8200100	Fiberglass Infill Panel	24 x 24 x 1"	Black	12
5479	BioAcoustic™ Infill Panel	24 x 24 x 5/8"	Beige	12
5823	BioAcoustic Infill Panel	24 x 24 x 5/8"	Black (Matte)	12
6408_ _ _◆	Edge Banding	300 x 3/4"	Standard Veneers (see below)	1

◆ When specifying or ordering, include the 3-letter color suffix that coordinates with your WoodWorks ceiling (e.g., 6408 N M P)
◆◆ Trim cartons include FXTBC Clips and FX4SPLICE Splice Plates.

SUSPENSION SYSTEMS
When ordering suspension system materials, please note that this product requires Prelude® Heavy-duty (HD) Main Beams and 2' Cross Tees that are full height (1-11/16"). Both suspension system components should be specified in Tech Black (BL).

15/16" Standard: Prelude® BL (Tech Black)

Item Number	Description	Dimensions (Inches)	Pieces/Carton
5986	T-Bar Hook†	Nominal 4 x 2 x 3"	50
7123	Wood Screws	5/8"	300
6091	Safety Cable	24 x 3/32"	50
SH12	Support Hanger	144 x 2"	12

† For 24" x 48" panel, install four hooks; for 24" x 72" panel, install six hooks; for 24" x 96" panel, install eight hooks. NOTE: Three screws per hook.
NOTE: Refer to installation instructions at armstrongceilings.com/installation for a better understanding of suspension system requirements.

WW Concealed T-Bar Hook | AXTBC T-Bar Connector Clip | 7301BL 12' HD Main Beam
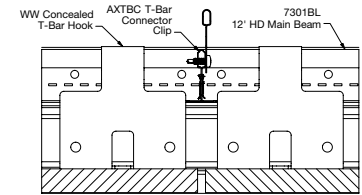
Installation Detail - WoodWorks Concealed Ceiling System

COLORS AND PERFORATIONS

NV Beech (NBE)	NV Dark Cherry (NDC)	NV Walnut Espresso (NWE)	Constants Walnut (CWA)	Bamboo Patina (BAP)	W1 (Unperforated)	W4 (Rg 6011)
NV Maple (NMP)	NV Oak (NOK)	Constants Maple (CMA)	Constants Redux Wood Wheat (CRW)	Bamboo Native (BAN)	W2 (Rg 6006)	W5 (Lg 9512)
NV Light Cherry (NLC)	NV Walnut (NWN)	Constants Cherry (CCY)			W3 (Rd 6006)	W6 (Lg 9508)

PHYSICAL DATA

Material
FSC-certified fire retardant particle board with face-cut veneers (SW-COC-003601). For more information about FSC-certified products or to view our FSC certification letter, visit armstrongceilings.com/woodworksfsc

6603 - Face-cut veneer or black paint on aluminum laminate substrate

Surface Finish
Clear or tinted semigloss coating

Fire Performance
ASTM E84 surface burning characteristics, HPVA Certified with audit program per ASTM E84. Flame Spread Index 25 or less. Smoke Developed Index 50 or less.

CAN/ULC S102 surface burning characteristics. Flame Spread Rating 25 or less. Smoke Developed Classification 50 or less.

ASTM E1264 Classification
Composite – Fire Class A

Primary (Embodied) Energy
See all LCA information on our EPD's.

Application Considerations
Variation among panels may occur due to the natural characteristics of the wood and grain.

Use of large wood panels may result in deflection up to 1/8" and alignment inconsistency due to size and ambient conditions.

It is very important that WoodWorks panels are climatized prior to installation. Relative humidity between 25% and 55%, and temperatures between 50°F and 86°F must be maintained throughout the life of the product.

Design Considerations
For additional configuration ideas, refer to the WoodWorks Concealed Technical Guide, BPCS-4274, or visit armstrongceilings.com/woodworks

Do not mix different panel sizes with slotted perforations. Perforation borders will not align. The use of Armstrong Prelude suspension system is strongly recommended.

Cloud installations less than 6' wide are not recommended.

Specification Consideration
Attention: For FSC-certified wood products to maintain their CoC certification, products must be sold to a CoC-certified distributor or directly to the installing contractor. Failure to do so breaks the CoC.

Seismic Restraint
These systems have been engineered, tested, and approved for applications in all seismic areas when installed per Armstrong installation instructions.

Warranty
Details at armstrongceilings.com/warranty

Weight/Square Feet
5983, 5984, 5985 – 2.75 lbs/SF; bulk packaged per order. Suspension system, hardware, and accessories ordered separately.

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