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Fortina Battens used in direct application both horizontally and vertically, as well as on Stringers as a canopy. Finish in Maquillage Elm W.

FORTINA is a remarkable architectural system that will fool your senses: replicating wood slats and Battens with aluminum

and a hyper-realistic non-pvc surface. The combination of these materials makes the collection perfect for "green" building. The large collection of finishes have a touch and feel that is indistinguishable from real wood. It dramatically enhances environments with the benefits of lighter weight, less cost, less waste, easier installation, as well as more consistent color and finish than real wood. Because of the materials and highly-controlled manufacturing process, Fortina For B+N can be used in both interior and exterior situations such as walls, ceilings, screens, and countless other applications. With a variety of installation hardware, Fortina facilitates installation and shortens project construction times while bringing the warm look and feel of wood to the project.

The Fortina Quick Ship Program

Manufactured domestically, our Quick Ship Program has been revamped to meet your urgent project needs. With a lead time of just 72 hours, you can count on fast delivery of our Fortina battens. Our Quick Ship program offers four profiles and five finishes, making it easier than ever for designers and specifiers to meet tight deadlines. Whether you're working on interior or exterior installations, we have you covered.

Combine any of the below profiles and finishes to expedite your project with Fortina.



TA-758 Vent Walnut N



TA-647 Earl Walnut M



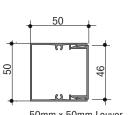
TA-532 Cherry Line M



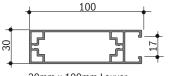
TA-775 Carina Elm D



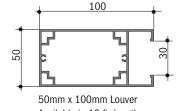
TE-SN2035* Axis Oak N



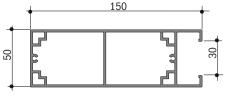
50mm x 50mm Louver Available in 20 ft. lengths Application: Direct



30mm x 100mm Louver Available in 12 ft. lengths Applications: Stringer, Floor-to-Ceiling and Direct



Available in 12 ft. lengths Applications: Stringer, Floor-to-Ceiling and Direct



50mm x 100mm Louver Available in 12 ft. lengths Applications: Stringer, Floor-to-Ceiling and Direct





Battens are wrapped in an extremely durable non-PVC film. These films replicate real wood veneers with an astounding realism, indistinguishable from real wood but with a consistency and durability beyond actual timber.

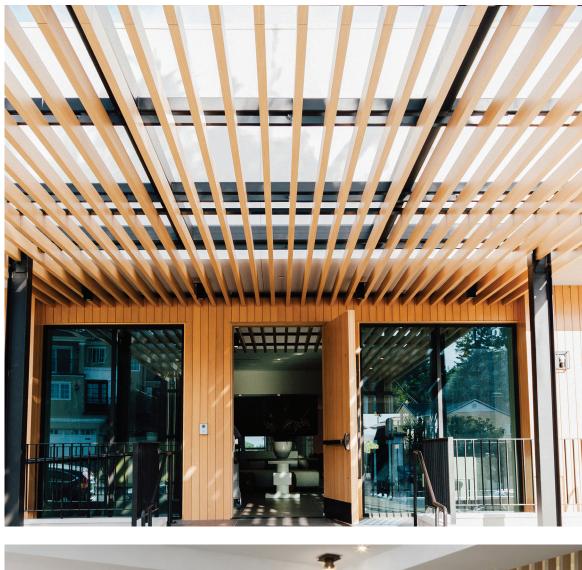
Create impactful installations with a broad selection of square, rectangular and round shapes in profile sizes from 15 to 150mm.



Kauppakeskus Plaza, Salo, Finland. Architect: Suunnittelutoimisto Ameriikka Oy. Fortina Batten: THS-5015. Finish: TA-026 White Elm Neo











Griffin Club Los Angeles. Batten: THS-50125. Finish: TA-758 Vent Walnut N. Architect: CCY Architect.

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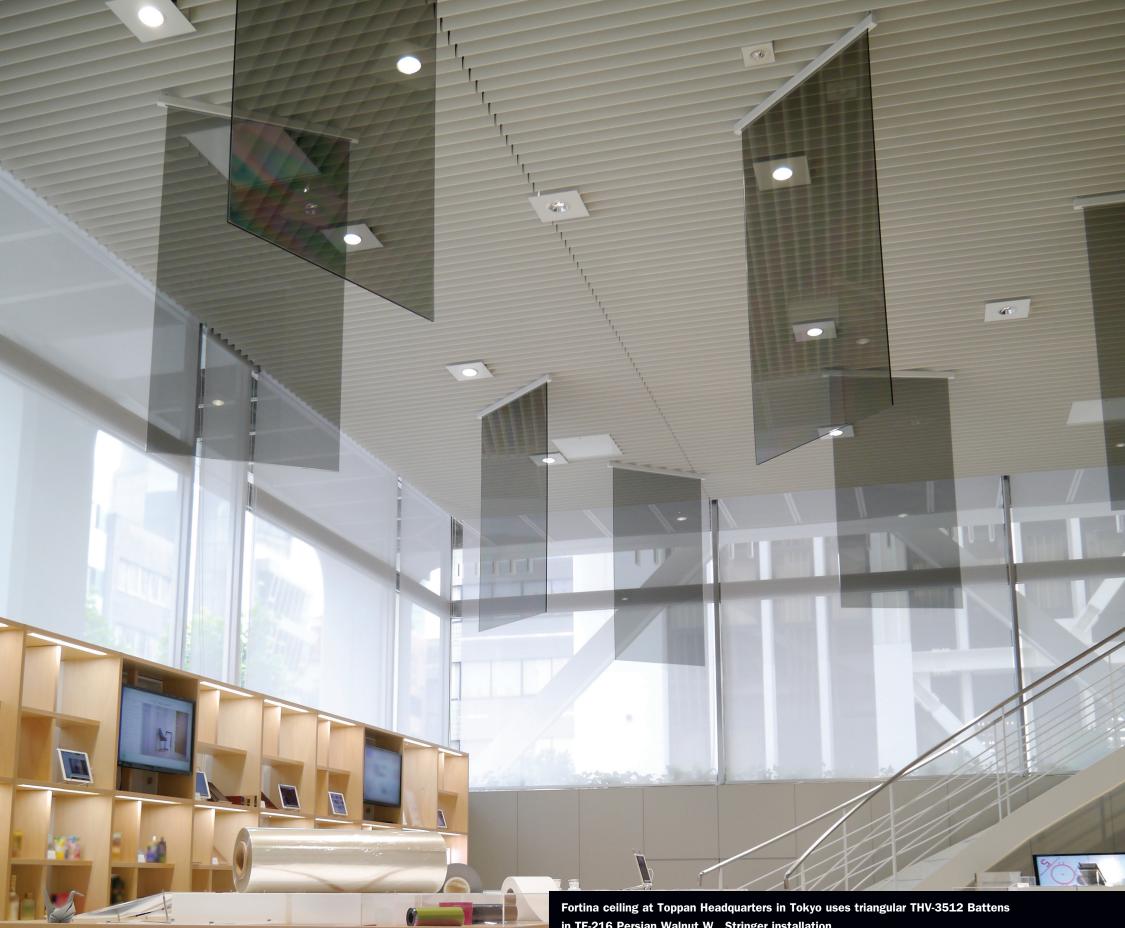
Northland Controls. Batten: THS-5015 and THS-7575. Finish: TE-2036 Axis Oak.





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Fortina ceiling at Toppan Headquarters in Tokyo uses triangular THV-3512 Battens in TE-216 Persian Walnut W . Stringer installation.







The second

2236 S Barrington Ave, Los Angeles. Architect: Shubin + Donaldson. Batten: THS-2010. Finish TA-009 Aging Metal.

In history

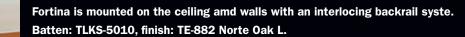
The Kit And Ace stores use two different profiles of Fortina Battens as both interior ceiling and wall applications, as well as an exterior facade. Interior finish is TE-770 Modesty Birch, exterior finish is TA-004 Rocco Cedar. Battens: THS-2010 and THS-1040.

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© TOPPAN REALAZIONI - PAOLA LENTI 20

Paola Lenti used Fortina Battens to create a semi-private garden pavilion, and also to screen the building in the background. Fortina Battens in TA-808 Vent Walnut finish.







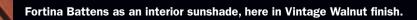
A complex stepping-down of Fortina Battens with dramatic lighting on this office lobby interior. All in Moving Pear . (All and

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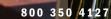
4,3

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Fortina Battens can be stacked for a more solid play of forms and back-lit. Here in Vintage Walnut finish.



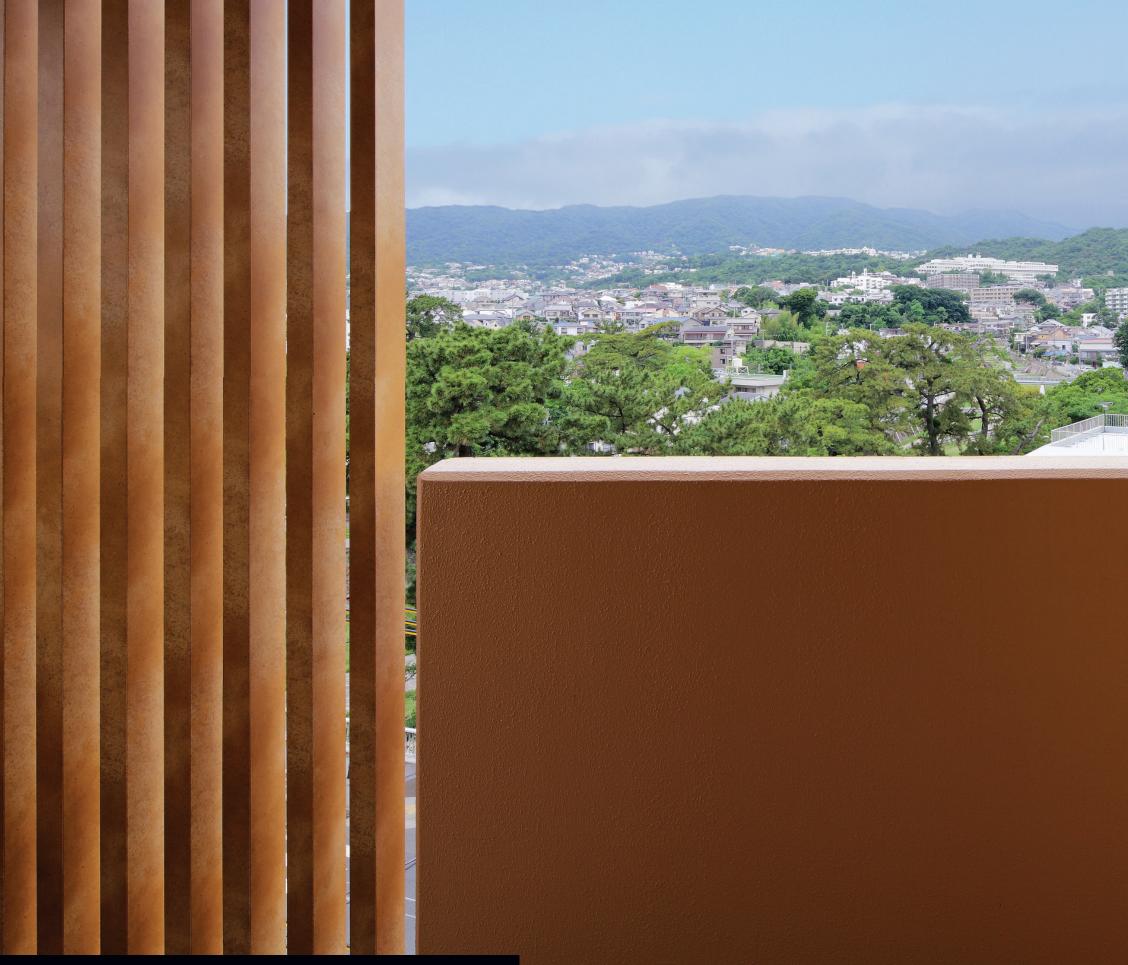
Transfer Formation of





Fortina Spandrels in Vent Walnut finish add warmth and elegance to this lobby ceiling.

Adding Fortina Battens to interior or exterior walls and ceilings is an inexpensive way to change and enhance the drama of natural light. Here, Rokko Cedar finish at an exterior entrance canopy.



Fortina Battens as an exterior sunshade, here in Terra Cotta Arrosto finish.



Even when installed on large commercial building, Fortina offers a consistent expression with ease of installation that can shorten construction time. Here in Vintage Walnut.

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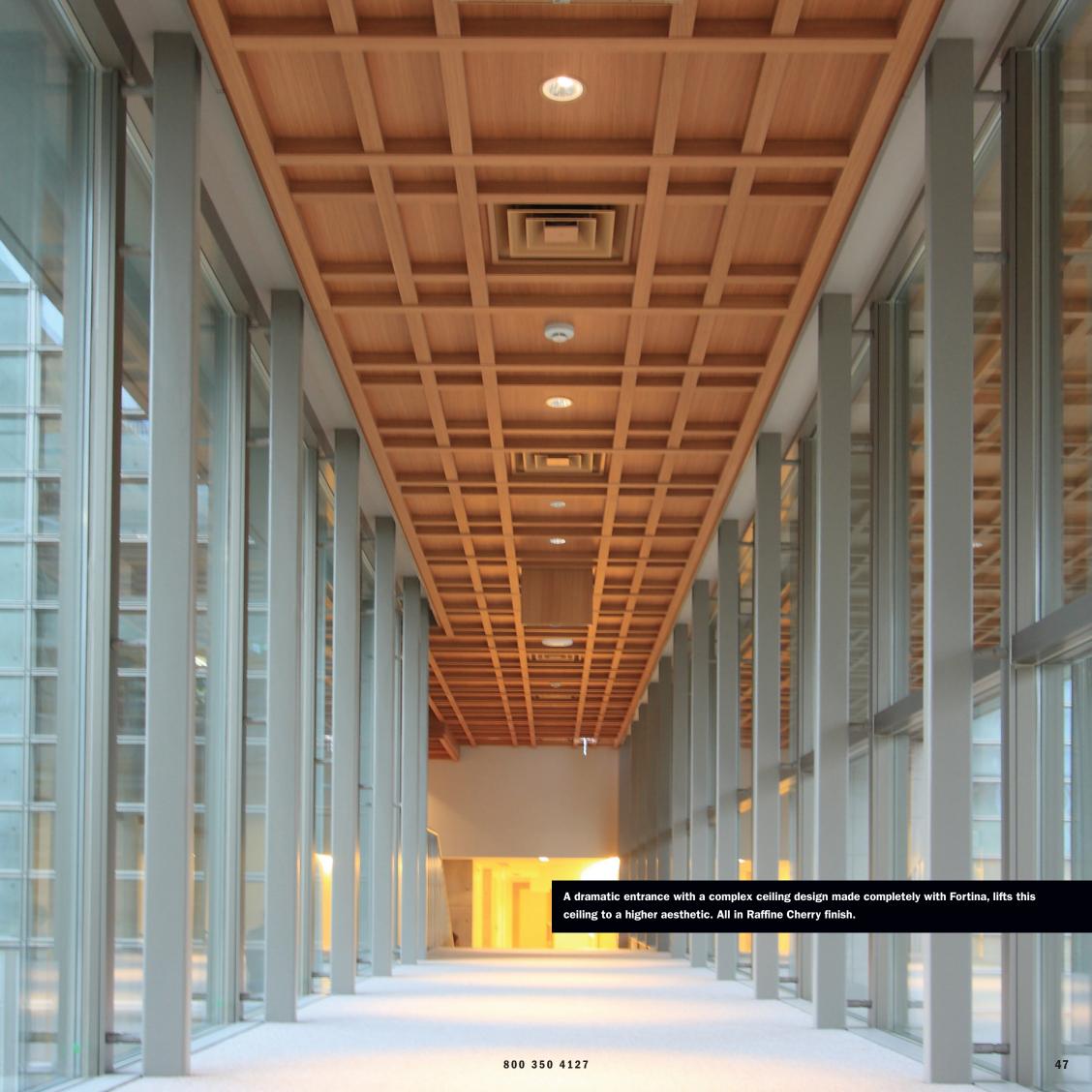




At this sports arena, the original design called for real wood Battens. The Architect changed to using Fortina Battens and reduced project's installation and lead time considerably, resulting in significant cost savings. Here in Primary Oak finish.

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Prime Teak, and Norte Oak finishes. Custom flooring is made to match.

4



Interior **Finishes** Please note that the color in the brochure TE-SN2015 **TE-SN710** TE-SN2065 TE-SN2014 TE-SN2084 may vary from the Crema Chestnut CW Crema Cedar Sklira Ash W Crema Chestnut FW Brook Willow W actual product. Each design collection is subject to change periodically without notice. TE-SN947 TE-SN2052 TE-SN940 TE-SN2080 TE-SN2063 Marble Wood W Brilas Wood W Madras Walnut W Stylish Maple N Abel Oak N TE-SN2025 TE-SN2055 TE-SN2035 TE-SN2073 TE-SN2053 Maquillage Elm TG Revion Wall W Axis Oak N Frettare Oak N Pulito Oak N TE-SN2098 **TE-SN901 TE-SN882** TE-SN2074 TE-SN2058 Alba Oak Norte Oak L Pulito Oak L Humming Elm N Legacy Ash G TE-SN2105 TE-SN2099 TE-SN2087 TE-SN941 TE-SN2075 Sieg Birch G Humming Elm G Thermos Oak LG Abel Oak MC Pulito Oak G TE-SN2060 TE-SN2095 TE-SN2033 TE-SN2066 TE-SN2039

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Saloon Eucalyptus G

Autumn Chestnut

English Walnut G

Tendre Walnut LG

Scrilla Ash G



TE-SN2036 Axis Oak L



TE-SN2067 Lindo Acacia M



TE-SN2078 Iris Noche M



TE-SN2022 Chalked Sucupira SG



TE-SN2101 Canaletto Walnut D



TE-SN2071 Lagos Mahogany RB



Raffine Cherry L



TE-SN2068 Lindo Acacia LB

TE-SN2056

TE-SN2091

TE-SN902

Bliss Walnut B

TE-SN2050

Symphony Walnut B

Allegro Cherry G

Revlon Wall M



TE-SN2104

Sieg Birch N

TE-SN2106 Plage Tineo B

English Walnut M



TE-SN2085 Ligne Cedar G



TE-SN2059 Legacy Ash DG



TE-SN948 Madras Walnut DG



TE-SN 2100 Diera Oak N



TE-SN2038 Stretta Teak M



TE-SN2069 Lind Acacia G



TE-SN2094 Variowood M



TE-SN2061 Tendre Walnut MG



Agile Walnut B

800 350 4127



Ars Cherry M



TE-SN2090 Allegro Cherry M



TE-SN883 Norte Oak G



TE-SN2057 Revlon Wall B



Brilas Wood DG



TE-SN2092 Agile Walnut M

Interior **Finishes**

Please note that the color in the brochure may vary from the actual product. Each design collection is subject to change periodically without notice.

Exterior

Finishes

to change periodically

without notice.



NS-SN Silver Matte

NS-5N Stain Color Matte

NS-4N Light Bronze Matte



Bronze Matte



NS-2N Dark Bronze Matte



TE-SN2076 Vintage Oak B



TE-SN2081 Marble Wood DG



TE-SN7103 Mode Metal B

NS-1N Black Matte

Exterior Finishes

Please note that the color in the brochure may vary from the actual product. Each design collection is subject to change periodically without notice.







TA-647 Earl Walnut M



TA-602 Vintage Walnut



TA-808 Vent Walnut BL



TA-004 Rokko Cedar



TA-006 Spangle Metal D



Rican Oak

TA-758

TA-532

TA-605

TA-001

Terra Cotta Clay

Blossom Birch

Cherry Line M

Vent Walnut N







Machilus



TA-029 Classic Pine



TA-009

Aging Metal PD







TA-011 Aging Metal C



Criollo Elm



TA-013 Antique Cedar G



TA-760 Vent Walnut D



TA-002 Terra Cotta Arrosto



Bamboo D



Pacific Gray



TA-014 Antique Cedar RB



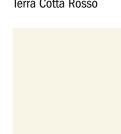
Carina Elm D





Win White





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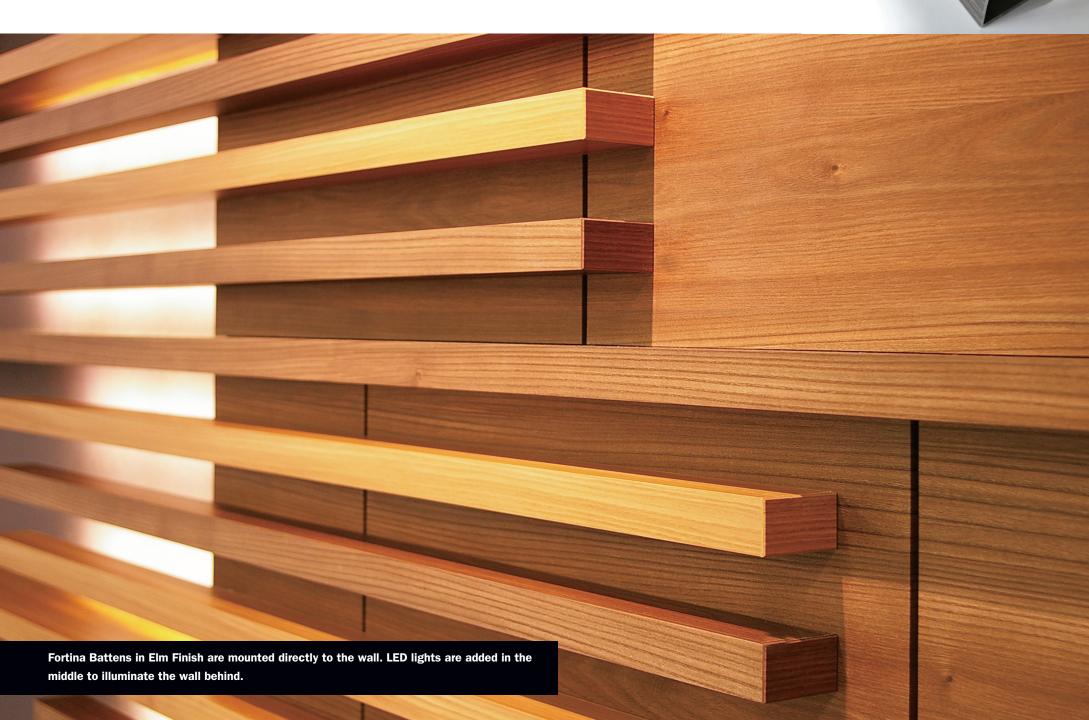


What is a Batten and what is a Slat?

Battens

Battens, originally used for blinds to create shade and ventilation, are now seen increasingly as a design component both for interior and exterior applications. Fortina Batten is an aluminum extrusion wrapped in a non-PVC film. They come in over 50 profiles and can be covered in 100 films. They are lightweight, incombustible, weather resistant and quick and cost efficient to install.

Fortina Battens are mounted on walls and ceilings with Direct Application or with Stringers to create visual interest and add extra dimension.



SLATS

Lightweight interlocking Fortina Slats are used on walls and ceilings. The extruded slats come in a wide choice of finishes using decorative film to create an individual custom look that coordinates with Fortina Battens. Slats are available with or without a reveal in several widths.

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West

Fortina Slats can adapt to ceiling lighting installations. Here in Blossom Birch Finish.

Lighting

Fortina's authentic wood-like finishes are now complemented by seamlessly embedded, energy-efficient LED lights. This innovation not only amplifies the visual warmth and texture of our versatile Battens but also offers a practical solution for ambient lighting.

LIGHTING APPLICATIONS:

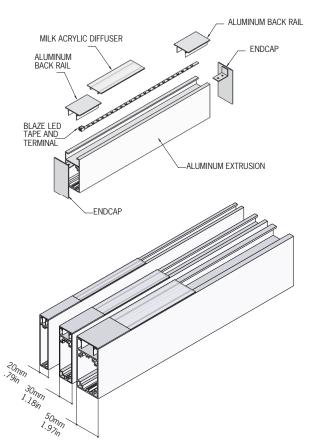
Direct Lighting: The light is integrated into the Fortina Batten and shown through our LED diffuser back rails that clip on seamlessly to the Fortina Batten. This causes the light to shine directly at the viewer, producing concentrated strips of light that create a sleek and modern look. **Indirect Lighting:** The light is integrated into the Fortina Batten but does not face the viewer directly. Instead, the light illuminates from the back of the Fortina Batten, creating a soft glow around the Batten that helps reduce glare and shadows within a space.

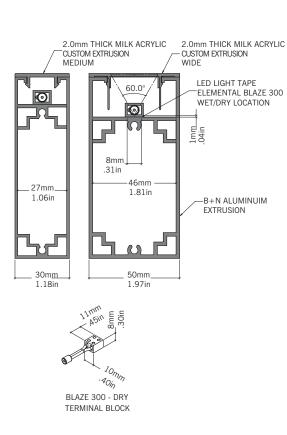
Light Grazing: This is a lighting technique that uses light strips positioned at an angle against a vertical wall. When lights are illuminated against a wall that contains Fortina, our Fortina Battens benefit from the dramatic play between light and shadow.

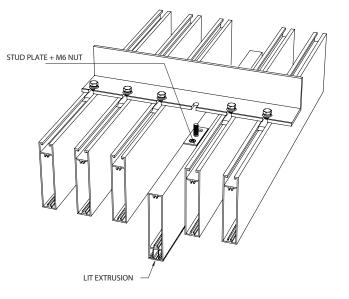
LIGHTING BENEFITS:

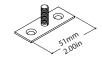
- Fully integrated LED lighting within the Fortina Batten
- · Light applications customized to your project
- Fully diffused and uninterrupted linear lighting
- Indoor & outdoor options
- Wide range of lumen output options
- Color (CCT) Range: 2000K-6300K
- 95+ CRI: Superior color rendering with high R9-R13 values
- Tunable White, RGBW, and Dim to Warm options available
- · Dimming compatible with a wide range of wall dimmers and control systems
- IP65 Rating for outdoor applications



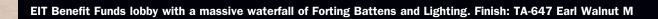








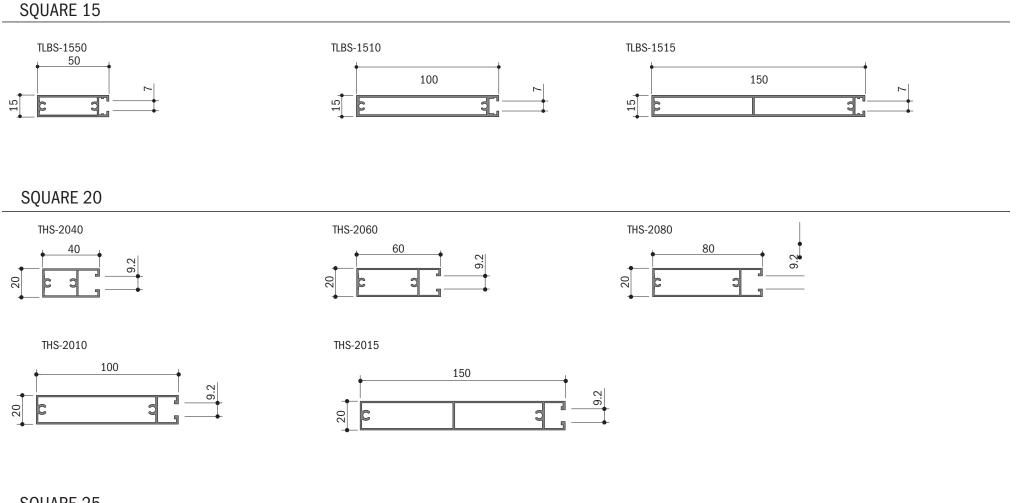
56



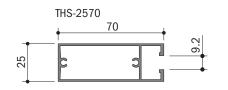
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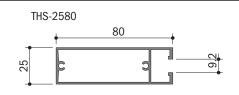
Interior and Exterior Wall And Ceiling Applications With Stringers > Batten Profiles

Note: all dimensions are in mm. See Finishes Guide for finishes.

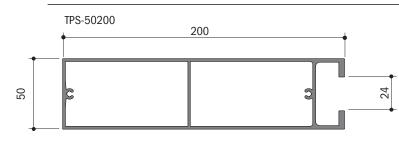


SQUARE 25

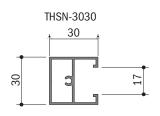


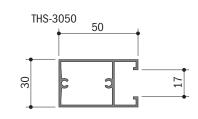


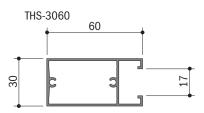
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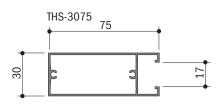


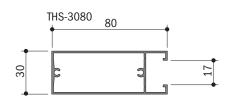
SQUARE 30

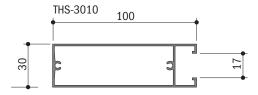


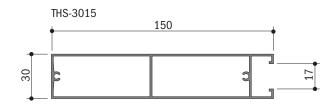




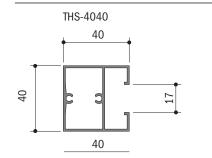


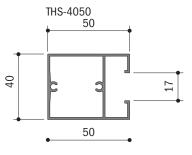


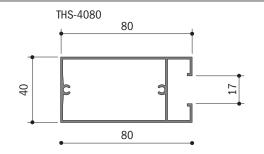


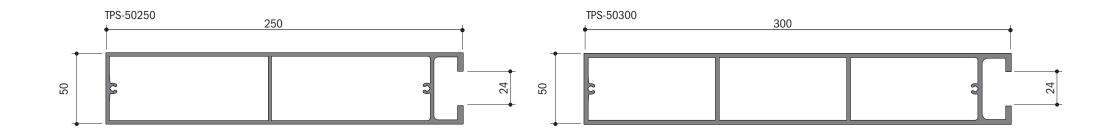


SQUARE 40





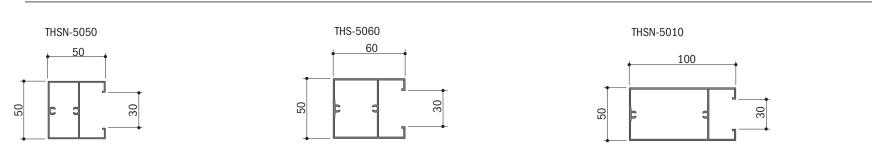


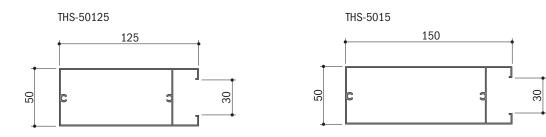


Interior and Exterior Wall And Ceiling Applications With Stringers > Batten Profiles and End Caps

Note: all dimensions are in mm. See Finishes Guide for finishes.

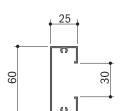
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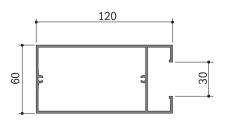


SQUARE 60

THS-6025

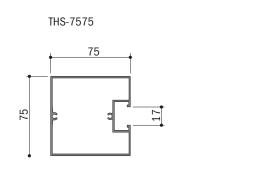


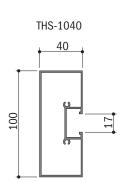
THS-6012



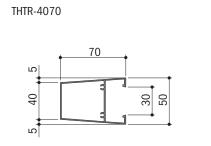
SQUARE 75

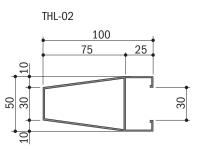
SQUARE 100





TRAPEZOID

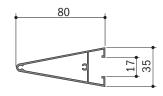


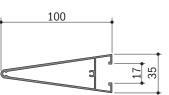


TRIANGLE

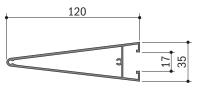


THV-3510





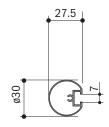
THV-3512

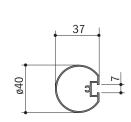


ROUND

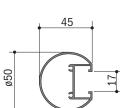
THC-30

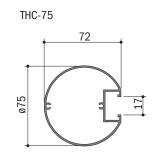
THC-40





THC-50

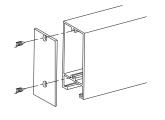


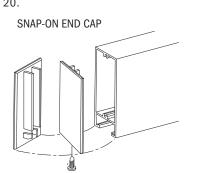


END CAPS

Materials: Aluminum Plate. Sold in sets of 20.

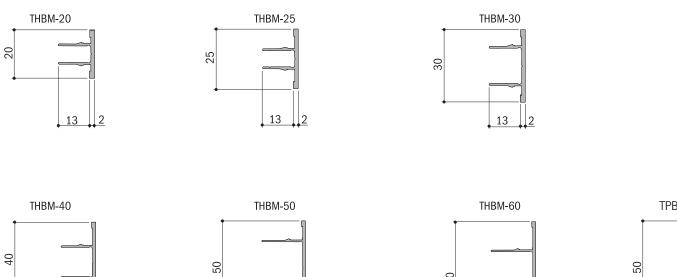


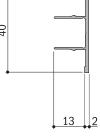




Interior and Exterior Wall And Ceiling Applications With Stringers > Decorative Backrails

Note: all dimensions are in mm. See Finishes Guide for finishes.

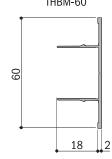


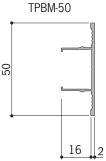






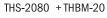
THBM-25

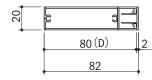




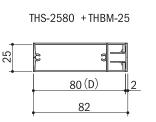
EXAMPLES OF PROFILES WITH DECORATIVE BACKRAILS INSTALLED

THBM-20

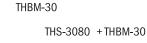




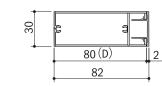
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(D):70/80

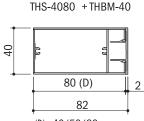


TPBM-50



(D): 30/50/60/75/80/100/150

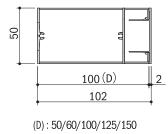




(D): 40/50/80

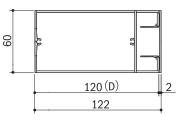
THBM-50

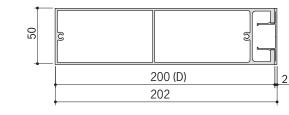








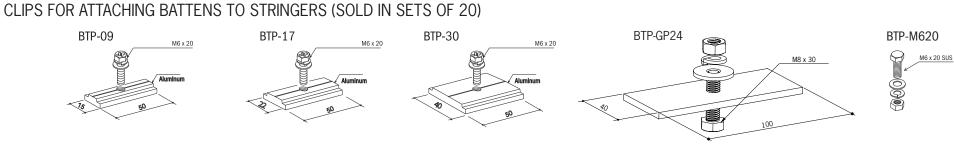




(D): 25/120

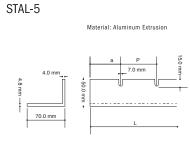
Interior and Exterior Wall And Ceiling Applications With Stringers > Accessories

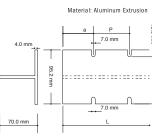
Note: all dimensions are in mm. See Finishes Guide for finishes.

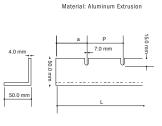


STAL-7

STRINGERS





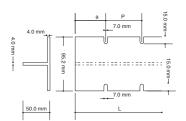


STAL-8

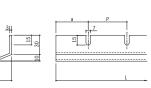
STAL-6

STCL-1

Only for Interior Ceiling Application Material: Aluminum Extrusion



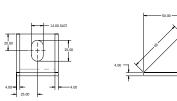
Material: Aluminum Extrusion



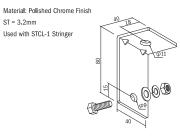
STRINGER FITTINGS (SOLD IN SETS OF 10)

BTS-5050 WELDED GUSSET





BTS-4080ST



Interior Wall And Ceiling Direct Applications > Batten Profiles and Endcaps

Note: all dimensions are in mm. See Finishes Guide for finishes.

Attachment 20

TLKS-2040

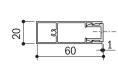
TLKS-2060

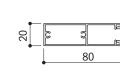


TLKS-2080

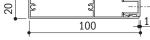
TLKS-2010











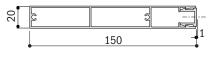
Backrail CLKU-20

Backrail CLKU-20

Backrail CLKU-20

Backrail CLKU-20





Backrail CLKU-20

Attachment 30

TLKS-3030

TLKS-3075

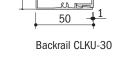
30



Backrail CLKU-30

75

Backrail CLKU-30

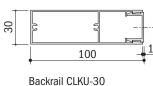


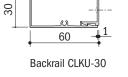
TLKS-3050

30

TLKS-3010

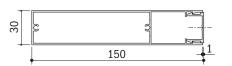
17-





TLKS-3015

TLKS-3060

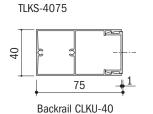


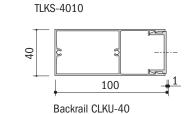
Backrail CLKU-30

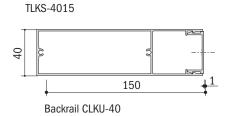
Attachment 40



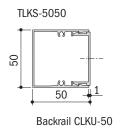




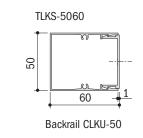


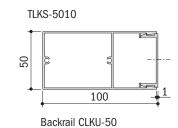


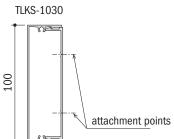
Attachment 50



TLKS-5015







Attachment 100

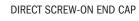
Backrail CLKU-100

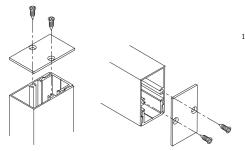
30 1

Backrail CLKU-50

END CAPS

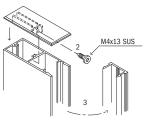
Materials: Aluminum Plate. Sold in sets of 20.





Use with any direct attachment louvers.

DIRECT SNAP-ON END CAP



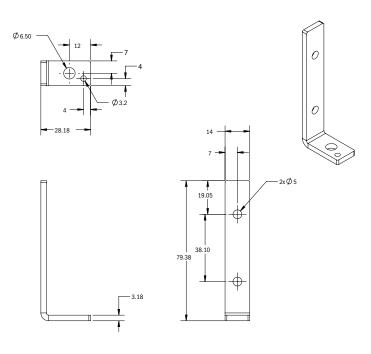
Use with:
TLKS-2040
TLKS-2060
TLKS-2080
TLKS-2010
TLKS-2015
TLKS-3075
TLKS-3010
TLKS-3015
TLKS-4040
TLKS-4075
TLKS-4010
TLKS-4015
TLKS-5010
TLKS-5015

BATTEN PROFILES AND ACCESSORIES

Floor-To-Ceiling Applications > L-Brackets

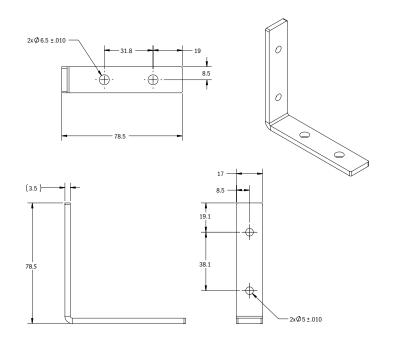
Note: all dimensions are in mm

TBF L-BRACKET LITE



USE WITH: THS-2040 THS-2060 THS-2080 THS-2010 THS-2015 THS-2570 THS-2580 THSN-3030 THS-3050 THS-3060 THS-3075 THS-3080 THS-4040 THS-4050 THS-4080 THSN-5050 THS-5060

TBF HD L-BRACKET



USE WITH: THS-3010 THS-3015 THSN-5010 THS-50125 THS-5015 THS-6012 THIS PAGE IS INTENTIONALLY LEFT BLANK

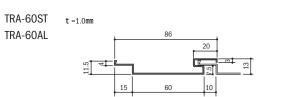
SLAT PROFILES AND ACCESSORIES

Interior And Exterior Slats > Profiles

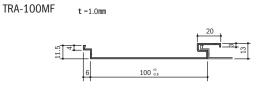
Note: all dimensions are in mm. See Finishes Guide for finishes.

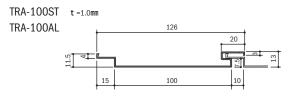
13mm height/thickness Profile Selection

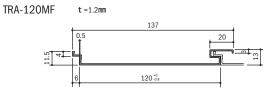
Standard Style With 10mm Reveal

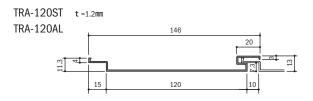


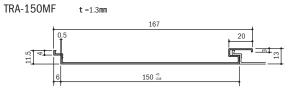


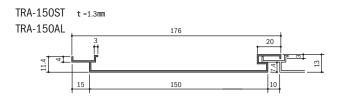


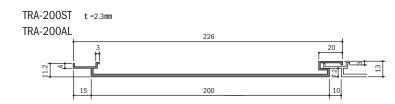




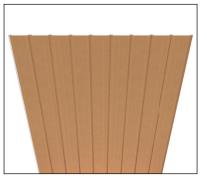




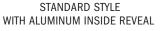


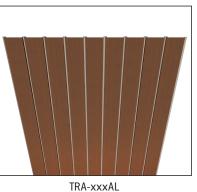


STANDARD STYLE WITH WOODGRAIN INSIDE REVEAL

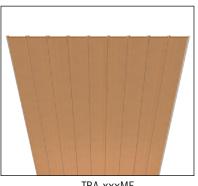


TRA-xxxST





FLAT STYLE



TRA-xxxMF

Interior And Exterior Slats > Accessories

Note: all dimensions are in mm. Finish on a Slat Trims and Accessories is anodized or powder coated.

13mm

Trims / Edge Treatment

M-16 t=1.2

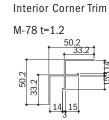
M-19-1 t=1.2





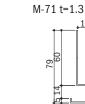
M-70 t=1.2

Exterior Corner Trim



H Joints

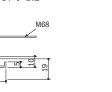


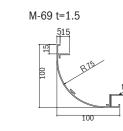


13mm/23mm

Corner Trims









LONGITUDINAL SECTION USING M-16

25

LONGITUDINAL SECTION USING M-19-1

30

M-68 t=1.2

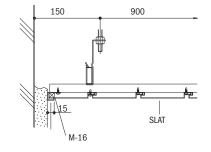
40

JOINT DETAIL USING M-64

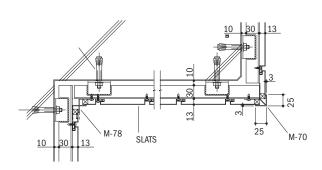
CROSS SECTION USING M-16

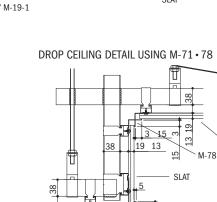
M-16

CROSS SECTION USING M-19-1



INSIDE AND OUTSIDE CORNER USING M-70 • 78





10

25 27

M-71

*****=

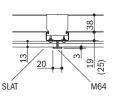
SLAT

Ξ

19

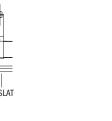
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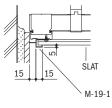
SLAT



SLAT

DROP CEILING DETAIL USING M-71 • 78



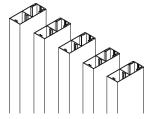


Interior Applications

Vertical On Wall

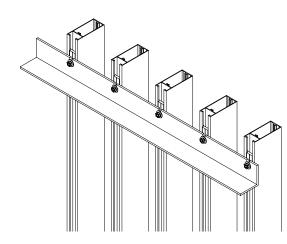
Direct Attachment with interlocking Batten and back rail. Screw back rails at desired locations vertically

to the wall and lock Batten into it. It is recommended that you secure the back rail with small screw on side at top and bottom. Add end caps if needed.



Stringer Mounted Battens Attach Stringers

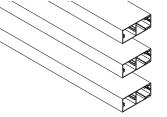
horizontally to the wall structure with L-brackets, Unistrut, L-angles or similar. Stringers will be prenotched to create the designed Batten spacing. Secure Battens to the Stringers with special Fortina clips. Add end caps if needed.



Horizontal On Wall

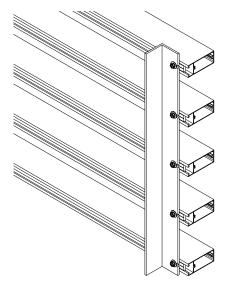
Direct Attachment with interlocking Batten

and back rail. Screw back rails at desired locations horizontally into the wall and lock Batten into it. It is recommended that you secure the back rail with small screw on side at top and bottom. Add end caps if needed,



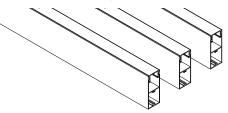
Stringer Mounted Battens Attach Stringers

vertically to the wall structure with L-brackets, Unistrut, L-angles or similar. Stringers will be prenotched to create the designed Batten spacing. Secure Battens to the Stringers with special Fortina clips. Add end caps if needed.



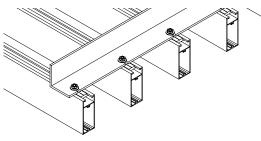
Ceiling

Direct Attachment with interlocking Batten and back rail. Screw back rails at desired locations into the ceiling and lock Batten into it. It is recommended that you secure the back rail with small screw on side at each end. Add end caps if needed.

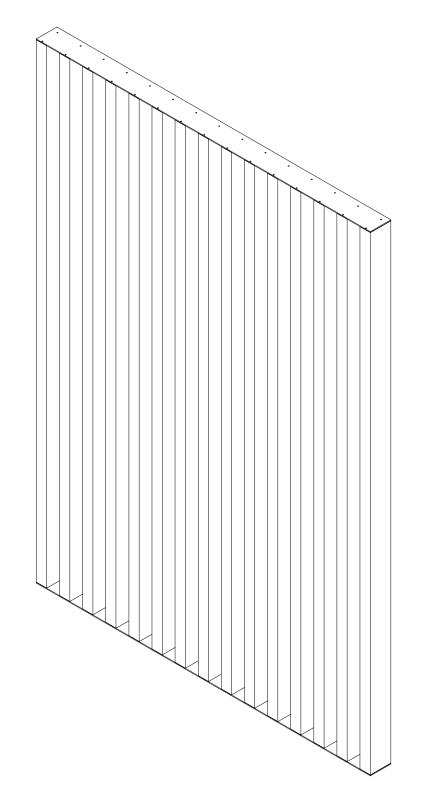


Stringer Mounted Battens Hang Stringers

from the ceiling structure with rods, Unistrut or L-brackets. Stringers will be pre-notched to create the designed Batten spacing.



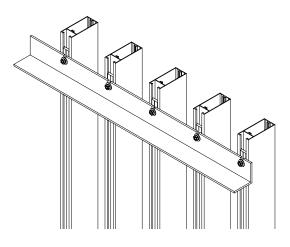
Floor-To-Ceiling Battens are connected at top and bottom with L-brackets. Attach short side of the L- bracket to floor and to ceiling at desired locations. Slide in the Batten and attach to brackets. Snap in the back rail to cover the connections.



Exterior Applications

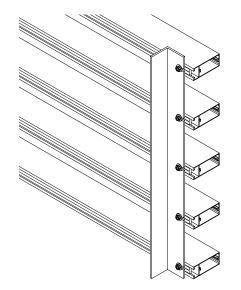
Stringer Mounted Vertical Battens Attach Stringers

horizontally to the wall structure with L-brackets, Unistrut, L-angles or similar. Stringers will be pre-notched to create the designed Batten spacing. Secure Battens to the Stringers with special Fortina clips. If adding end caps, drill a small drain hole in each end cap.



Stringer Mounted Horizontal Battens Attach

Stringers vertically to the wall structure with L-brackets, Unistrut, L-angles or similar. Stringers will be pre-notched to create the designed Batten spacing. Secure Battens to the Stringers with special Fortina clips. Add end caps if needed.

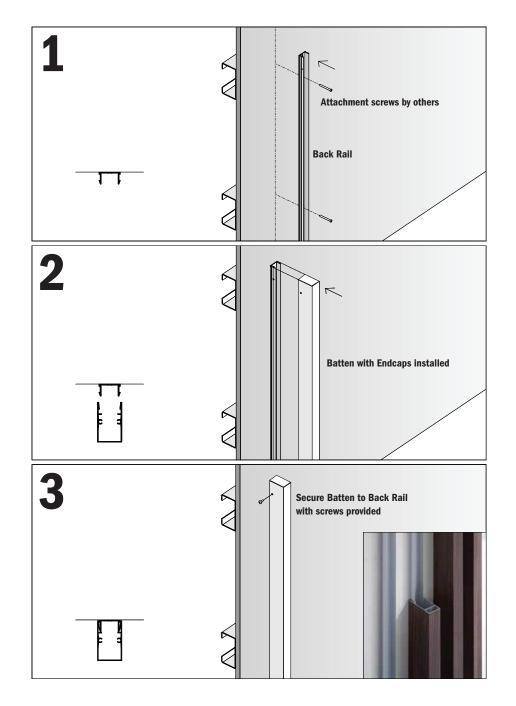


Fortina Battens > Wall > Direct Attachment > Interior/Exterior

 Attaching the Back Rail: Measure and mark the position of your Battens on the wall.
 Mark and drill pilot holes in the Back Rail in a diameter smaller than the screw you are using.
 Attach to wall at pre-marked locations. Attach Endcaps to the Battens with screws provided before installing the Battens.

2. Install the Batten by snapping into the Back Rail.

3. Secure the Batten to the Back Rail with a screw through the side.



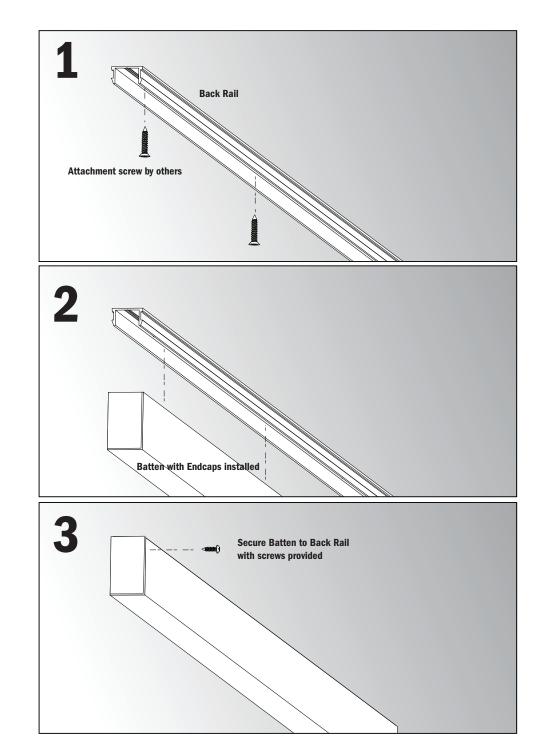
Fortina Battens > Ceiling > Direct Attachment > Interior Only

1. Attaching the Back Rail: Measure and mark the position of your Battens on the ceiling. Mark and drill pilot holes in the Back Rail in a diameter smaller than the screw you are using. Attach to ceiling at pre-marked locations.

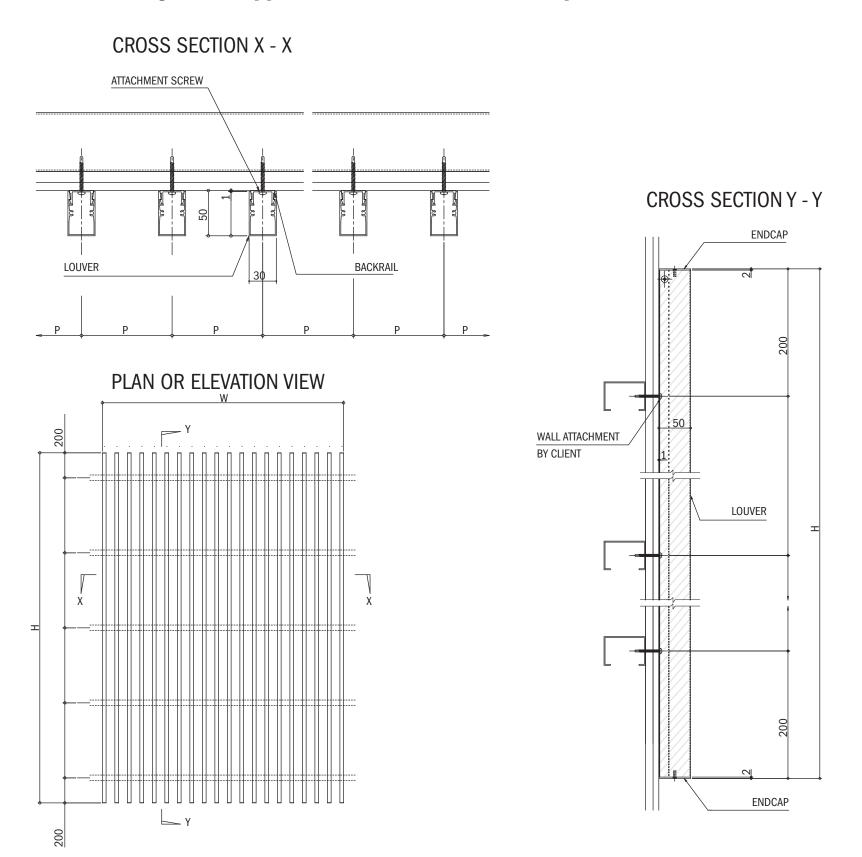
Attach Endcaps to the Battens with screws provided, as shown on the next page, before installing the Battens.

2. Install the Batten by snapping into the Back Rail.

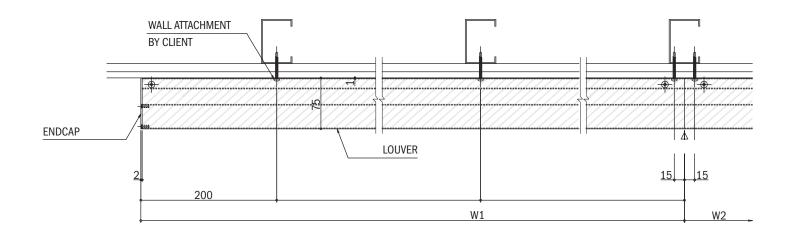
3. Secure the Batten to the Back Rail with a screw through the side.



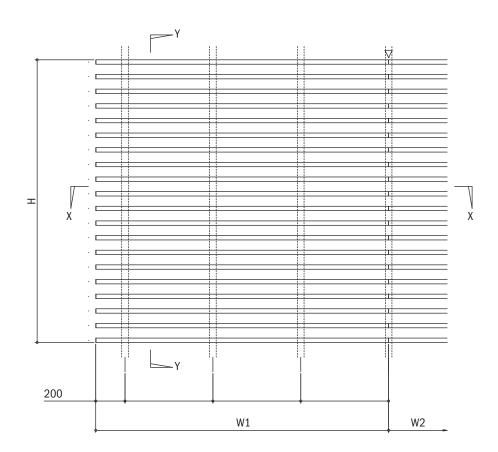
Interior Wall And Ceiling Direct Applications > Installation Examples



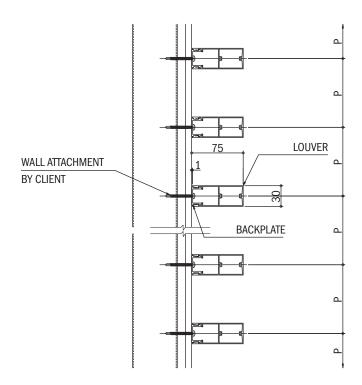
CROSS SECTION X - X



PLAN OR ELEVATION VIEW



CROSS SECTION Y - Y



INSTALLATION INSTRUCTIONS

Fortina Battens > Wall > Stringer Mounted > Interior/Exterior

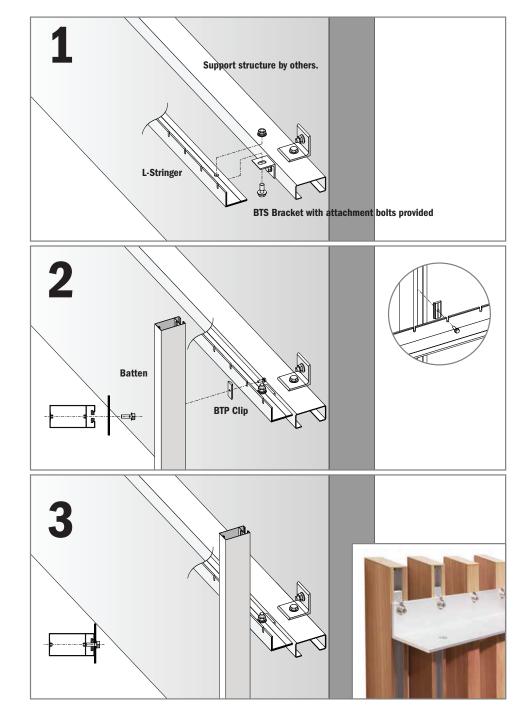
Stringers come pre-notched for spacing specified.

1. Attach BTS Bracket to supporting structure.

2. Secure L-Stringer to BTS Brackets with the bolts provided.

3. Assemble the Battens onto the Stringers with BTP Clips and tighten to fix them.

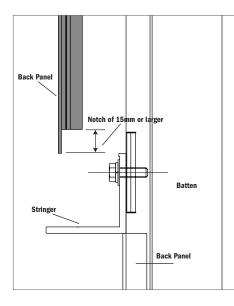
Attach Endcaps to the Battens with screws provided, per instruction on next page.



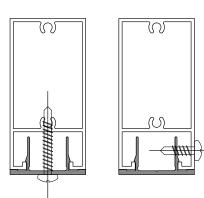
INSTALLATION INSTRUCTIONS

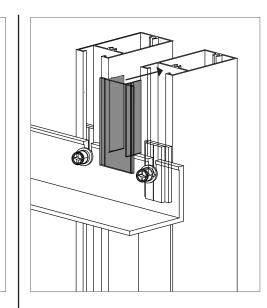
Fortina Battens > Wall > Stringer Mounted > Interior/Exterior

Installation With Back Plate Visible



Back Rails require cutting a notch, as shown above.



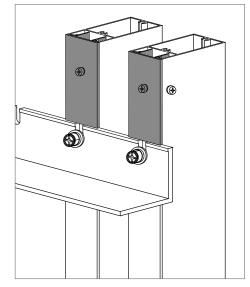


Follow instructions mounting Battens to Stringers.

Cut a 15 mm or larger notch at Back Rail to clear installed BTP clip.

Secure Back Rails to Battens with screws through back or sides, as shown at left.

Attach Endcaps to the Battens with screws provided, as shown on the next page.



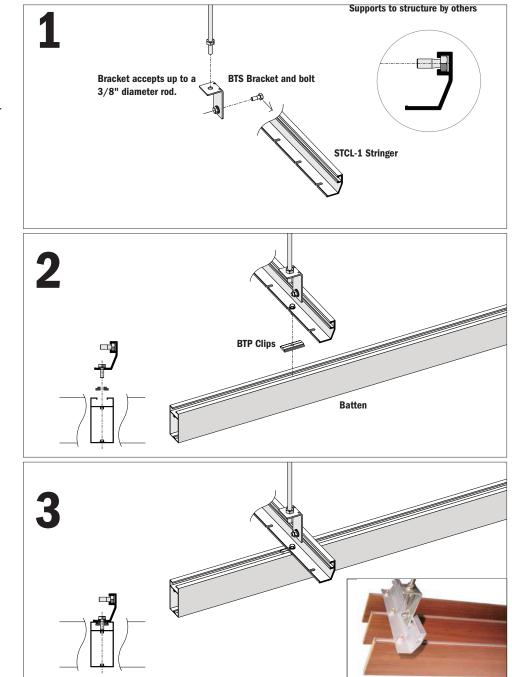


Fortina Battens > Ceiling > Stringer Mounted > Interior Only

STCL-1 Stringers are pre-notched per spacing specified. Top channel allows for on-site adjustment of hanging point.

1. Attach the BTS Bracket to your supporting structure. Secure it to the Stringer with bolts provided. The ceiling attachment point can be adjusted by moving bolt along channel before tightening.

2. Attach Endcaps to Battens. Assemble Battens to Stringer with BTP Clips provided and tighten to fix.



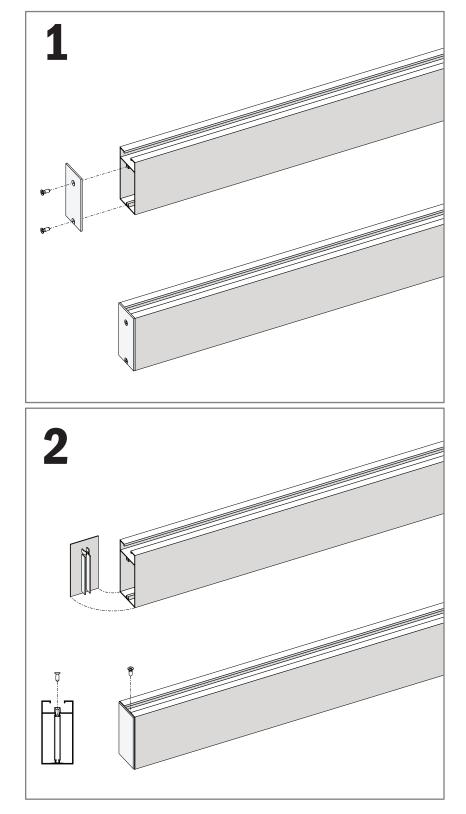
INSTALLATION INSTRUCTIONS

Fortina Battens > Endcaps

1. SCREW-ON Endcap For all direct attachment TLKS- Battens and all THS-/THSN- Battens

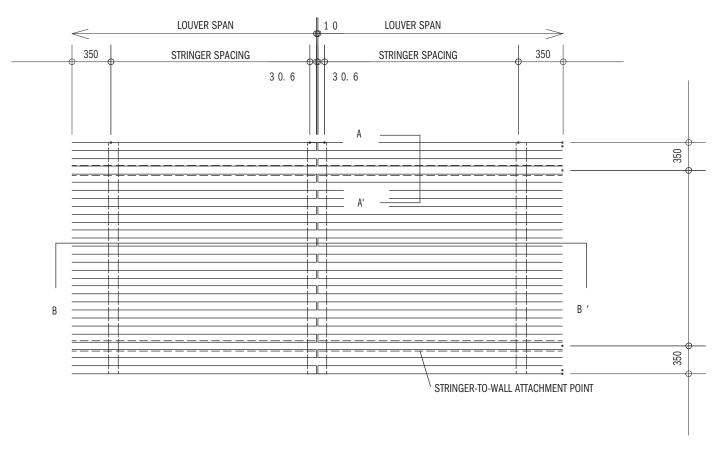
2. SNAP-ON Endcap For all THS-/THSN- Battens and select direct attachment TLKS- Battens only. See pages 58-59 for the list of direct attachment TLKS Battens.

On exterior vertical installation, drill two small weep holes on the bottom Endcaps. This will allow for any trapped moisture to drain.



Interior and Exterior Wall Applications With Stringers > Installation Examples

Interior or Exterior Wall Stringer Application > Horizontal **ELEVATION**



CROSS SECTION A - A

CROSS SECTION B - B

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12

L-BRACKET BTS-5050

¢

LOUVER

350 mm

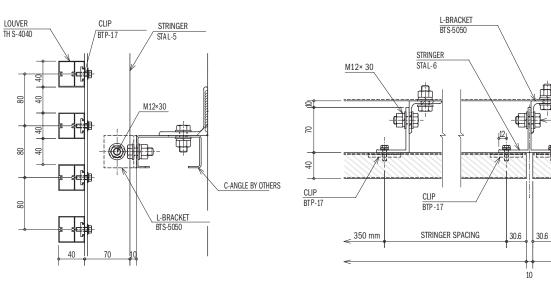
THS-4040

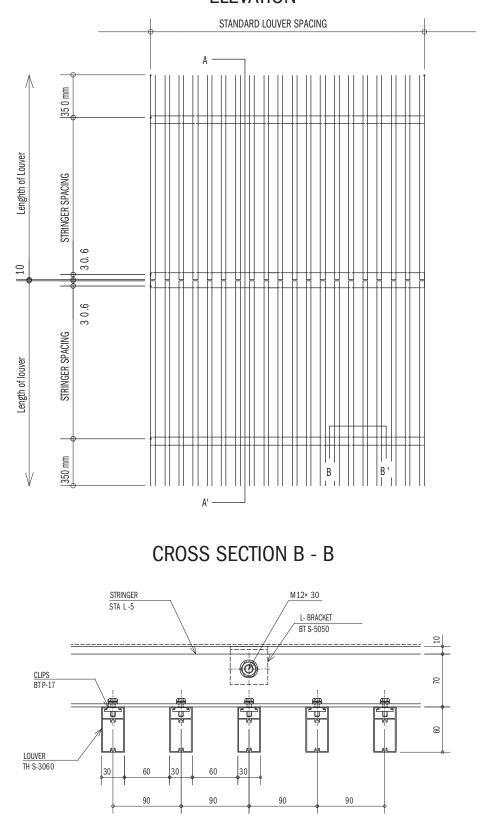
STRINGER STAL-5

CLIP BTP-17

STRINGER SPACING

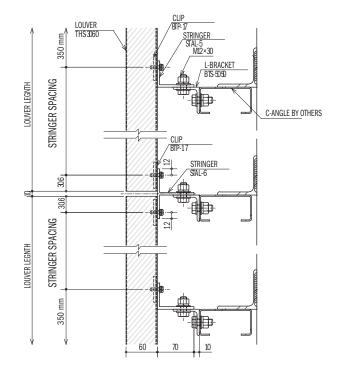
M12×30





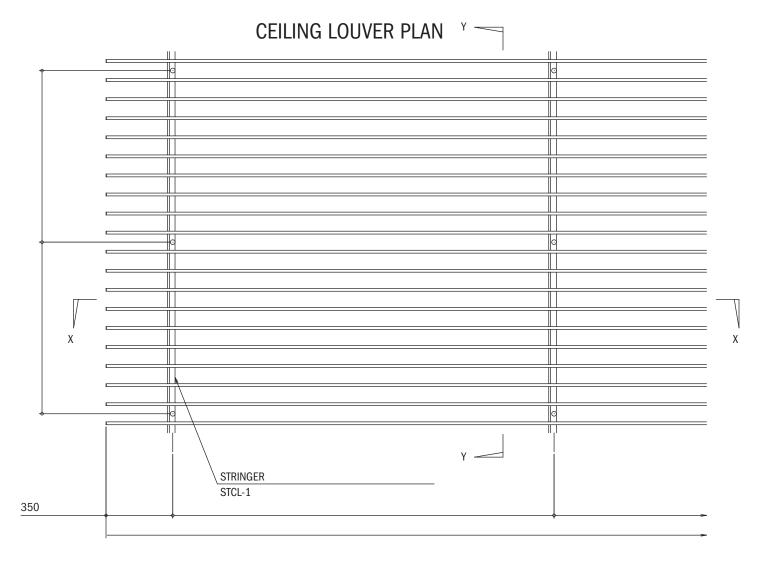
Interior or Exterior Wall Stringer Application > Vertical ELEVATION

CROSS SECTION A - A

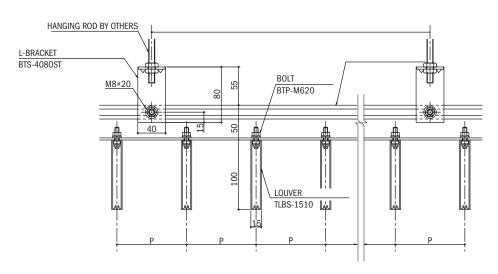


Interior Ceiling Applications With Stringers > Installation Examples

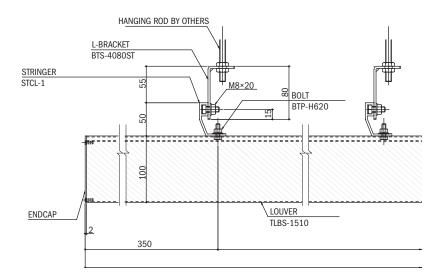
Interior Ceiling Installation With STCL Stringer



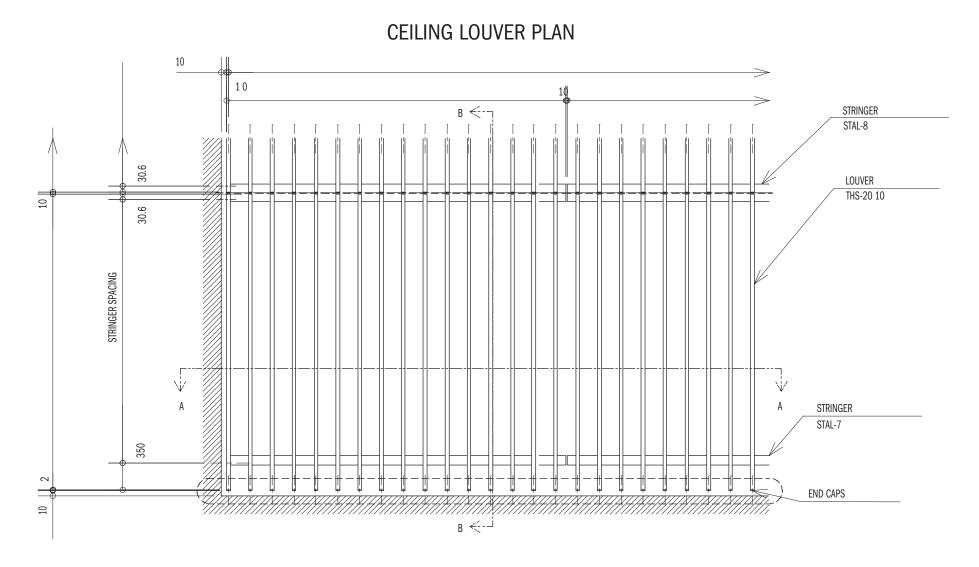
CROSS SECTION Y - Y



CROSS SECTION X - X

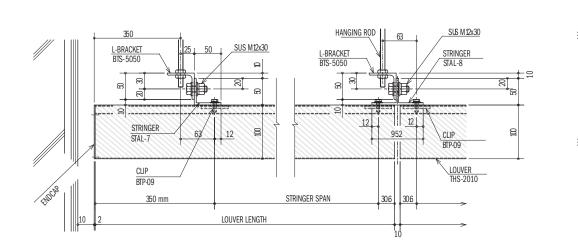


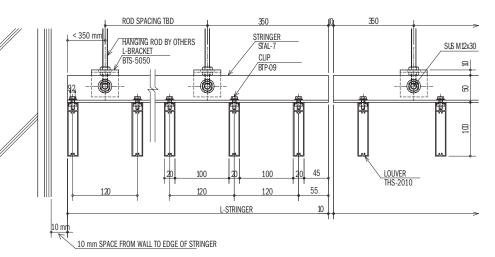
Interior Ceiling Installation With STCL Stringer



CROSS SECTION B - B





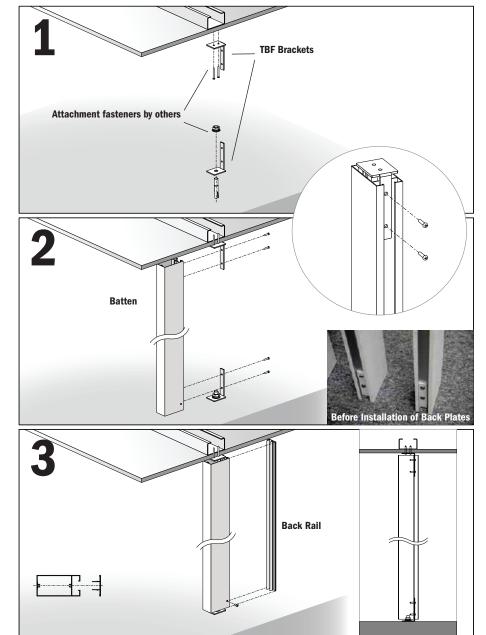


Fortina Battens > Floor To Ceiling > Interior/Exterior

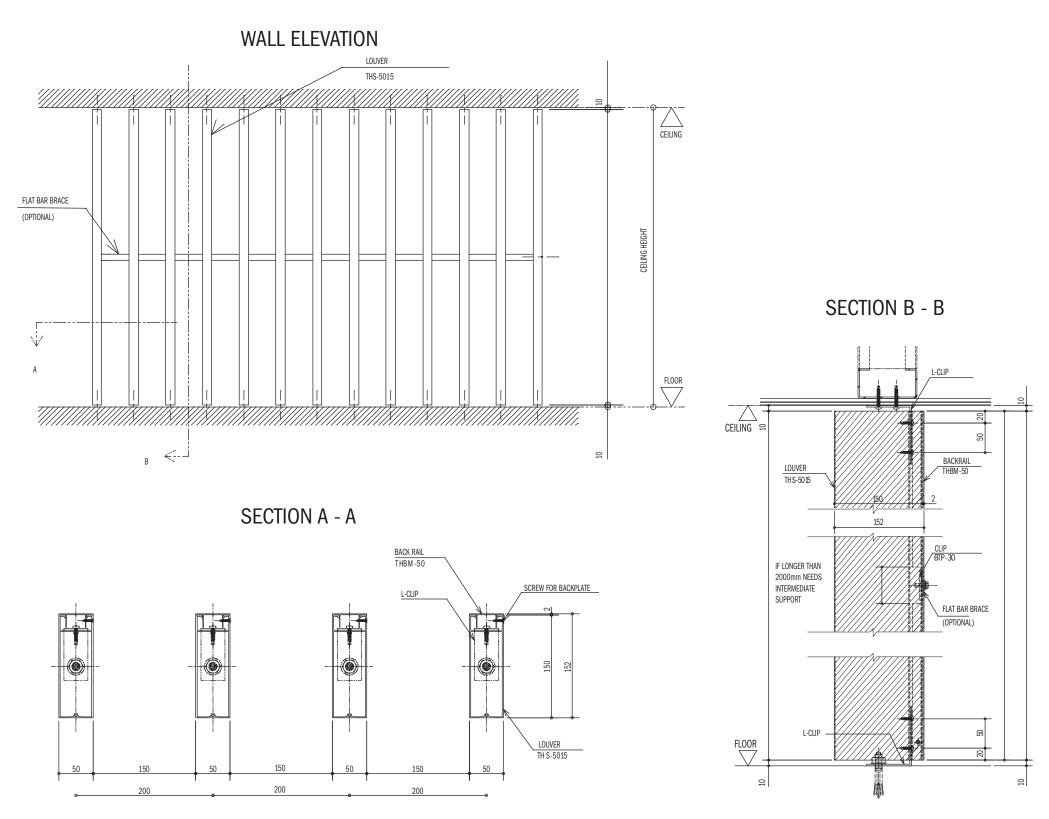
1. Mount L-Brackets to floor and ceiling structure.

2. Take Batten and slide open side into top and bottom brackets and attach with screws provided. (Batten may need to be cut for perfect fit).

3. Attach Back Rail to Battens and secure with screws provided.



Fortina Battens > Floor To Ceiling > Interior/Exterior> Installation Examples



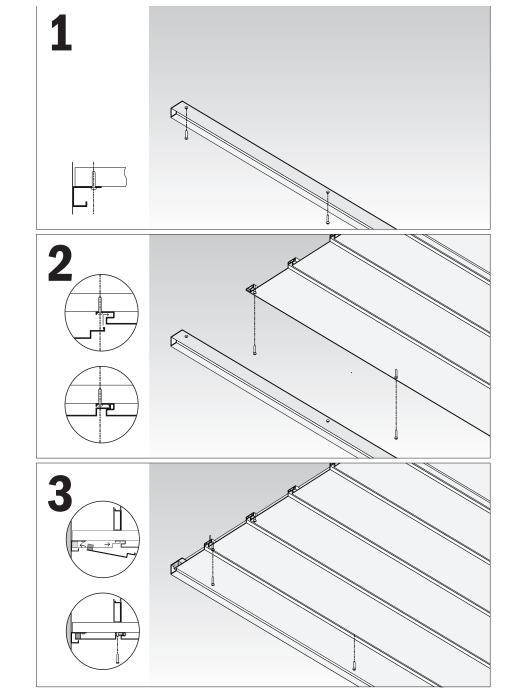
NOTE: 10MM SPACE TOP AND BOTTOM FOR L-CLIP THICKNESS.

INSTALLATION INSTRUCTIONS

Fortina Slats > Ceiling > Interior/Exterior

1. Install trim piece (if used) to one side of layout.

2. Starting from the other side, attach (tongue and groove) Slats to surface.



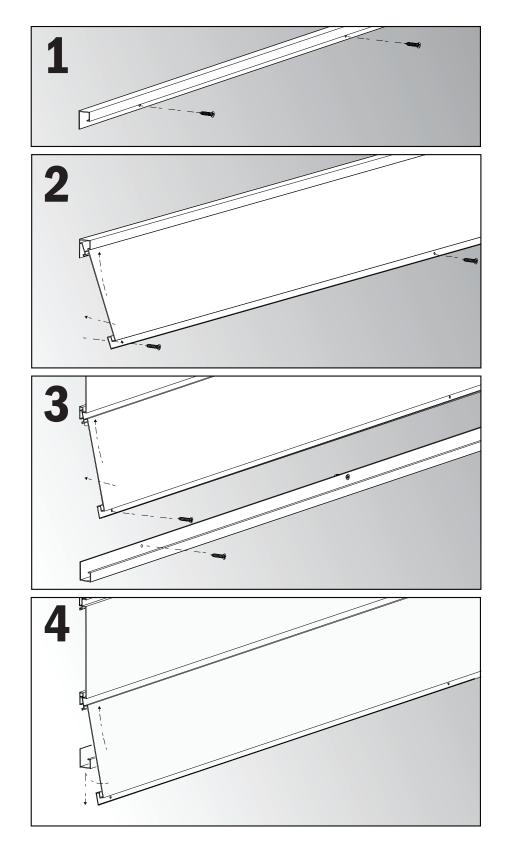
Fortina Slats > Wall > Interior/Exterior

1. Attach trim piece at top of installation location on wall.

2. Insert Slat into trim piece and attach Slat to wall with screws.

3. Continue mounting the tongue and groove Slats by inserting into the Slat above, so it lodges in place. Install bottom trim piece to wall with screws at correct location to allow the last Slat to be inserted.

4. Install the last slat by sliding it in, up, and down so it rests in bottom trim piece. No need to screws on the bottom Slat.





GENERAL QUESTIONS:

1. What is Fortina?

Fortina is a decorative wood alternative unlike anything on the market; aluminum Battens and slats are wrapped in a non-PVC film that mimics woodgrain colors and textures. It is lightweight, easily customizable, durable, quick to install, effortless to maintain, and, most importantly, beautiful.

2. What are the attributes of Fortina?

Fortina has been widely used in interiors and exteriors of commercial and residential buildings since its inception in Japan in 2009. Fortina's lightweight dimensional stability, uniform coloration, and incombustible material allow for a clean and quick installation.

3. How many sizes are there?

Our Battens come in 36 sizes, offered in square, rectangular, triangular, and round shapes. The smallest profile is $20 \text{ mm x} = 40 \text{ mm} (3/4" \times 1 1/2")$ and the largest is $50 \text{ mm x} = 150 \text{ mm} (2" \times 6")$.

Our slats come in 5 sizes with a 10mm reveal (ranging from 60mm to 200mm wide), and 3 sizes with no reveal (ranging from 100mm to 150mm wide).

All profile dimensions are in metric.

4. What is the longest Batten/slat length available?

16'-0" is the longest length for ocean shipping. 9'-6" is the longest length for air freight – additional charges will apply for any length exceeding 9'-6".

FINISHES:

5. How many finishes are there?

A total of 109 films are available in interior and exterior grade. Anodized and painted options are also available. Finish codes start with TE for interior finishes and TA for exterior finishes.

6. Are all the finishes the same price?

Exterior finishes are slightly more expensive than interior finishes. Please request a quote for more specific pricing.

7. Can the Exterior spec be used indoors? Is it more durable? Can an indoor spec be used outdoors if it is UV coated?

Exterior finishes can be used for indoors, and durability is the same.

Interior grade finishes cannot be used outdoors even with the UV coat, because the printed ink specification is different

TEST RESULTS

8. What is the fire rating?

Fortina has passed these certifications for non flammability.

- ASTM E84 CLASS A Fire Rating (FSI10/ SDI10)
- NM2239 and 2244
- European Standard CLASS B (French M1)

9. How does the product hold up in hot/humid climates and near "water"?

Film used for Fortina have passed two year exposure test (EMMAQUA) in New River, Arizona.

WARRANTY / CARE AND MAINTENANCE

10. What is the warranty?

We offer a 10-year limited warranty. Please visit our Warranty page for more information.

11. Will the Battens withstand power washing?

We do not recommend power washing the Battens/slats.

FAQ

12. Do the Battens scratch easily? What can we do about scratches?

Scratch test result 2B. Touch up paint is the most convenient way to hide scratches, but it's not perfect. A 10% overage is highly recommended for the purpose of having extra components to cover any damages beyond touch up. A touch up pen matching the HD1 paper can be provided upon request.

13. Is there any type of care/maintenance required?

Wipe with a wet soft cloth or wet sponge, then wipe with a dry cloth. Do not brush with steel brush, steel wool or sandpaper. Do not handle the Battens on surfaces with grit or gravel as it will cause scratches. Do not use organic solvent such as alcohol for cleaning. Check bolts, nuts or screws in a timely manner. More maintenance may be required in industrial areas or near the ocean.

14. Can the Battens get wet?

While it's not ideal for interior grade finishes, our exterior grade finishes can get wet as they are designed to be outside.

INSTALLATION

15. What is the best way to cut the Battens on site?

Aluminum cutting saw is required along with long table. A new blade is recommended.

16. Is there an explanation on how the joint between the Battens (and spandrels) works for a very long ceiling?

We recommend leaving an expansion gap of 1-2 mm (1/8" max) between Battens/slats.

17. Do the Stringers and brackets come in a variety of sizes and finishes?

Stringers come in different sizes depending on the application. anodized aluminum is the standard finish, but they can also be powder coated.

18. How much does the "average" THS-4080 Batten weigh per foot?

As an example, THS-4080 weighs 0.688 lbs per linear foot. Batten weights vary based on profile size.

19. What is the lead-time?

Fortina is made to order. Our typical lead time is 12-15 weeks.

20. Is there any hardware to hang/merchandise products from the Battens?

No, Battens are only decorative.

21. Can the Battens be curved?

No, the Battens cannot be curved.

PURCHASING FORTINA

22. Do you have local reps?

All Fortina inquiries are handled from our Head Office in California. Please call (800) 350-4127.

23. What is the square footage price of Fortina?

Pricing is not based on square footage. It varies based on profile size and quantity ordered. Please call (800) 350-4127 or request a quote on our website.

24. How can I get samples?

Click "Order Samples" on the Fortina website or call (800) 350-4127.

25. Do you offer an expedited option?

The production time is set, but shipping can be expedited via air freight.

Fortina Care and Maintenance

Cleaning

Wipe with dry cloth.
If necessary soap and water is fine to clean.
No harsh chemicals are recommended.
Do not use organic solvent such as alcohol for cleaning.
Do not brush with steel brush, steel wool, or sandpaper.
Do not handle Battens on surfaces with grit or gravel.
More maintenance required in industrial areas or near ocean.

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Date: Feb. 13, 2015 Reference number: SBR-0284

To:B+N Industries,Inc.

Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENT Product name Name of manufacturer Address Telephone No. Emergency contact Fax No.	IFICATION FORTINA (Interior Type) Toppan Cosmo, Inc. 3-19-26 Shibaura, Minato-ku, Tokyo, Japan Toppan Shibaura Building 03-5418-3500 03-5418-3680 (Product Engineering Group, Product Manufacturing Department, Development Division) 03-5418-3676
2. HAZARDS IDENTIFICATION GHS classification Hazard statement Effect to environment	Not applicable. (1) Non-hazardous material and risk is low. (2) Prolonged inhalation of dust generated by cutting may affect the respiratory organs. (3) If dust generated by cutting gets into the eyes, the eyeballs may be damaged. (4) Some pigments and stabilizers contain heavy metals, Cr (trivalent), Sb and Ni. None known.
3. COMPOSITION / INFORMATION C	IN INGRDEDIENTS
Classification of single product or mixture	Mixture (Printed film, adhesive and aluminum)
Chemical name (Product name) Ingredients and contents	Aluminum material coated with polyolefin resin sheet Polyolefin resin, ink pigment, polyurethane resin, acrylic resin and aluminum
Chemical formula or structural formula Reference Number in Gazetted List in Japan UN classification and UN number	Not applicable since it is a mixture
4. FIRST AID MEASURES	
IF IN EYES	Wash in running water without rubbing because dust and fragments generated when cutting may damage the eyeballs. Consult with a medical specialist. Prolonged contact of dust generated by cutting with skin may cause rough skin. If skin inflammation occurs,
IF INHALED	consult with a medical specialist. If any discomfort is experienced, immediately remove to fresh air.
IF SWALLOWED	After vomiting, immediately get medical attention.

Date: Feb. 13, 2015 Reference number: SBR-0284

Minister of Land, Infrastructure, Transport and Tourism, take measures such as evacuating upwind and wearing protective equipment in the event of fire because toxic substances such as black smoke and carbon monoxide may be generated in case the product is exposed to high temperature and the decorative surface layer burns. Water spray, dry chemical, foam

Extinguishing media

6. ACCIDENTAL RELEASE MEASURES

Not applicable.

7. HANDRING AND STORAGE Handling	Wear protective gloves (cotton gloves, etc.) when
handing	handling.
	Wear protective glasses and dust protective mask when cutting or fabricating.
	Sufficiently ventilate the workplace. Provide dust collectors.
STORAGE	Take care not to cut your hands on edges of the product. Store in packaged state in indoor general warehouse avoiding direct sunlight.
	Be careful to keep dry. Avoid falling, dropping and friction.
8. EXPOSURE CONTROL / PERSON	NAL PROTECTION
[Exposure control] None	
[Personal protection]	Equipment countermeasure None
Respiratory protective equipment	Wear appropriate protective equipment (dust protective mask, etc.) when performing work that generates dust.
Protective glasses	
	Wear appropriate protective equipment (goggles, full-surface shield, etc.) when performing work that generates dust.
Protective gloves	

9. PHYSICAL AND CHEMICAL PROPERETIES

Appearance, etc.	Bar-type solid form	
Boiling point	Not applicable.	
Vapor pressure	Not applicable.	
Volatility	Not applicable.	
Melting point	Not applicable.	
Specific gravity	2.7 g/m ²	
Initial boiling point	Not applicable.	
Solubility in water	Not applicable.	
Others	Not applicable.	

Date: Feb. 13, 2015 Reference number: SBR-0284

10. SAFETY AND REACTIVITY

Flash point Decorative surface layer: Approx. 300℃. Ignition point Decorative surface layer: Approx. 400℃. Upper limit: No data. Lower limit: No data. Explosion limit Combustibility Decorative surface layer: Combustible Ignitability (pyrophoricity, reactivity with water) None known. Oxidizability Contact with chemical substances, such as acid, may generate harmful gas. Autoreactivity, explosiveness None. Dust explosiveness Lower explosive limit: 45g/m³ Stability, reactivity Decorative surface layer: Relatively weak against alkali Others None known.

11. TOXICOLOGICAL INFORMATION (Including case with people and epidemiological information)

Skin corrosivity	None known.	
Irritation (skin, eyes)	Prolonged contact of dust generated by cutting with skin may cause rough skin.	
Sensitizing potential	None known.	
Acute toxicity	None known.	
Subacute toxicity	None known.	
Chronic toxicity	None known.	
Carcinogenicity	None known.	
Mutagenicity	None known.	
Reproductive toxicity	None known.	
Teratogenicity	None known.	
Others (Including generation of toxic gas by	reaction with water, etc.) None known.	
Others	None known.	

12. ECOLOGICAL INFORMATION

Degradability	None known.
Accumulative property	None known.
Fish toxicity	None known.

13. DISPOSAL CONSIDERATIONS

This product and its cut pieces can be classified as "scrap metal" specified by law. Ask an appropriate recovery company to dispose them of.

14. TRANSPORT INFORMATION

Load in a manner to prevent falling, dropping, abrasion, etc. during transportation and provide reliable measures to prevent load shifting.

Keep dry.

15. **REGULATORY INFORMATION** None

Date: Feb. 13, 2015 Reference number: SBR-0284

Tourism, MFN-0717 F *****. Materials containing asbestos are not used.

The contents of this sheet are based on reference materials, information and data that are available at present and may be revised according to revision of laws and regulations as well as due to new findings. In addition, the precautions described in this document are intended for use under normal conditions. In case of special handling is required, provide appropriate safety measures for the application and usage.

The contents of this sheet are for provision of information and are not guaranteed.

Date: Jan. 21, 2015 Reference number: SBR-0281

To: Property name:

Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION FORTINA: Exterior Type Product name Toppan Cosmo, Inc. Name of manufacturer 3-19-26 Shibaura, Minato-ku, Tokyo, Japan Address Toppan Shibaura Building 03-5418-3500 Telephone No. 03-5418-3680 (Product Engineering Group, Product Emergency contact Manufacturing Department, Development Division) 03-5418-3676 Fax No. 2. HAZARDS IDENTIFICATION GHS classification Not applicable. (1) Non-hazardous material and risk is low. Hazard statement (2) Prolonged inhalation of dust generated by cutting may affect the respiratory organs. (3) If dust generated by cutting gets into the eyes, the eyeballs may be damaged. Effect to environment None known. 3. COMPOSITION / INFORMATION ON INGRDEDIENTS Classification of single product or mixture Mixture (Aluminum, printed film and adhesive) Chemical name (Product name) Composite material of laminated aluminum and resin

Ingredients and contentssheetsIngredients and contentsAluminum, polyolefin resin, ink pigment, polyvinylider fluoride, methacrylic acid alkyl ester/acrylic acid alk ester copolymer, etc.Chemical formula or structural formulaNot applicable because it is a mixture Not applicable because it is a mixtureReference Number in Gazetted List in JapanNot applicable because it is a mixture Not applicable because it is a mixture	Chemical hame (Froduct hame)	Composite mater		laminateu	aluminum anu i	COILI
fluoride, methacrylic acid alkyl ester/acrylic acid alk ester copolymer, etc. Chemical formula or structural formula Reference Number in Gazetted List in Japan Not applicable because it is a mixture		sheets				
ester copolymer, etc. Chemical formula or structural formula Reference Number in Gazetted List in Japan Not applicable because it is a mixture	Ingredients and contents	Aluminum, polyo	lefin re	esin, ink p	igment, polyvinylid	lene
Chemical formula or structural formula Reference Number in Gazetted List in Japan Not applicable because it is a mixture	C C	fluoride, methacr	ylic a	cid alkyl e	ster/acrylic acid a	alkyl
Reference Number in Gazetted List in Japan Not applicable because it is a mixture		ester copolymer,	etc.			
	Chemical formula or structural form	ula	Not a	pplicable be	ecause it is a mixtu	ire
UN classification and UN number Not applicable because it is a mixture	Reference Number in Gazetted List	in Japan	Not a	pplicable be	ecause it is a mixtu	ire
	UN classification and UN number	Not applicable be	cause	it is a mixtu	lre	

4. FIRST AID MEASURES

IF IN EYES	Wash in running water without rubbing because dust and
	fragments generated when cutting may damage the eyeballs. Consult with a medical specialist.
IF ON SKIN	Prolonged contact of dust generated by cutting with skin
	may cause rough skin. If skin inflammation occurs,
	consult with a medical specialist.
IF INHALED	If any discomfort is experienced, immediately remove to
	fresh air.
IF SWALLOWED	After vomiting, immediately get medical attention.

Date: Jan. 21, 2015 Reference number: SBR-0281

Minister of Land, Infrastructure, Transport and Tourism, take measures such as wearing protective equipment according to the situation because toxic and corrosive fluorine-containing substances can be generated in case the product is exposed to high temperature and the decorative surface layer burns. Water spray, dry chemical, foam, carbon dioxide

Extinguishing media

6. ACCIDENTAL RELEASE MEASURES

Not applicable.

7. HANDRING AND STORAGE	
Handling	Wear protective gloves (cotton gloves, etc.) when handling.
	Wear protective glasses and dust protective mask when cutting or fabricating.
	Sufficiently ventilate the workplace. Provide dust collectors.
STORAGE	Take care not to cut your hands on edges of the product. Store in packaged state in indoor general warehouse avoiding direct sunlight.
	Be careful to keep dry. Avoid falling, dropping and friction.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

[Exposure control]

	None
[Personal protection]	Equipment countermeasure None
Respiratory protective equipment	Wear appropriate protective equipment (dust protective mask, etc.) when performing work that generates dust.
Protective glasses	Wear appropriate protective equipment (goggles, full-surface shield, etc.) when performing work that generates dust.
Protective gloves	Wear appropriate protective equipment (synthetic rubber gloves, arm covers, etc.).
Protective clothes	Wear appropriate protective clothes when performing work that generates dust.

9. PHYSICAL AND CHEMICAL PROPERETIES

Appearance, etc.	Bar-type solid form
Boiling point	Not applicable.
Vapor pressure	Not applicable.
Volatility	Not applicable.
Melting point	Not applicable.
Specific gravity	2.7 g/m ²
Initial boiling point	Not applicable.
Solubility in water	Not applicable.
Others	Not applicable.

Date: Jan. 21, 2015 Reference number: SBR-0281

10. SAFETY AND REACTIVITY

Flash point	Decorative surface layer: No data
Ignition point	Decorative surface layer: No data
Explosion limit	Upper limit: No data. Lower limit: No data.
Combustibility	Decorative surface layer: Combustible
Ignitability (pyrophoricity, reactivit	
Oxidizability	None under normal handling conditions
Flammability	Toxic gas (hydrogen fluoride, carbon oxide, etc.) may be generated.
Autoreactivity, explosiveness	None known.
Dust explosiveness	Lower explosive limit: 45g/m³
Stability, reactivity	Decorative surface layer: May react with strong oxidizers.
Others	None known.

$11. \ \ {\rm TOXICOLOGICAL} \ {\rm INFORMATION} \ ({\rm Including} \ {\rm case} \ {\rm with} \ {\rm people} \ {\rm and} \ {\rm and$

epidemiological information)

Skin corrosivity	None known.	
Irritation (skin, eyes)	Prolonged contact of dust generat	ed by cutting with skin
	may cause rough skin.	
Sensitizing potential	None known.	
Acute toxicity	None known.	
Subacute toxicity	None known.	
Chronic toxicity	None known.	
Carcinogenicity	None known.	
Mutagenicity	None known.	
Reproductive toxicity	None known.	
Teratogenicity	None known.	
Others (Including generation of tox	kic gas by reaction with water, etc.)	None known.
Others	None known.	

12. ECOLOGICAL INFORMATION

Degradability	None known.	
Accumulative property	None known.	
Fish toxicity	None known.	

13. **DISPOSAL CONSIDERATIONS**

This product and its cut pieces can be classified as "scrap metal" specified by law. Ask an appropriate recovery company to dispose them of.

14. **TRANSPORT INFORMATION**

Load in a manner to prevent falling, dropping, abrasion, etc. during transportation and provide reliable measures to prevent load shifting.

Keep dry.

15. **REGULATORY INFORMATION**

None

Date: Jan. 21, 2015 Reference number: SBR-0281

Tourism, MFN-0717 F☆☆☆☆. Materials containing asbestos are not used.

The contents of this sheet are based on reference materials, information and data that are available at present and may be revised according to revision of laws and regulations as well as due to new findings. In addition, the precautions described in this document are intended for use under normal conditions. In case of special handling is required, provide appropriate safety measures for the application and usage.

The contents of this sheet are for provision of information and are not guaranteed.

Toppan Cosmo, Inc.

Fortina Warranty > p. 1

1. Limited Warranty:

For Toppan Products used according to the "Conditions of Use" specified in Section 2 of this Exhibit B, Toppan shall warrant the below during the limited warranty period set forth in this Section 1 (the "Warranty") except as specified in Section 3 of this Exhibit B as exclusions or limitations.

i. No significant blister and peel for the Warranty Period; and

*It is intended for the defects that have peeled off in their natural condition after installation.

ii. No color fading in excess of the second grade of grey scale defined in ISO 105-A03

*Grey scale evaluation should be done by Toppan.

Warranty Period: Ten (10) years from the date of delivery of the Product from Toppan or the manufacturer on behalf thereof. In case of breach of this warranty (the "Breach" or "Breaching"), B&N has a right to obtain certain remedy pursuant to Section 4 and Section 5 in this Exhibit B from Toppan.

Except to the extent prohibited by applicable law, the warranty is made in lieu of all other warranties, rights or conditions, express or implied, including, but not limited to, any implied warranty of merchantability, satisfactory quality, fitness for a particular purpose and those arising from a course of dealing, custom or usage of trade. B+N is responsible for determining if a product is suitable for its particular purpose and application methods. the warranty set forth herein constitutes the sole remedy of B+N and of the sole responsibility of the Toppan for Toppan products.

2. Conditions of Use:

i. Toppan Products dedicated for exterior application are suitable for using exterior decoration except for horizontal area or in extreme weather conditions.

ii. Toppan Products dedicated for interior application are designed for interior decoration and shall not be used in a place exposed to direct sunlight, strong artificial light such as mercury lamp or floodlight etc.

iii. Toppan Products should be treated with the requirements of proper instructions thereof.

iv. Toppan Products operation should be done complying with any local, state, municipal, provincial, or federal laws pertaining to the use, storage, processing, application, distribution, and disposal of Toppan Products.

Fortina Warranty > p. 2

3. Exclusions and Limitations:

Disclaimer: When the Toppan Product falls under the following cases, it shall be handled for a fee even during the above Warranty Period. Toppan is not responsible for any breach of the Warranty not reported during the Warranty Period. The Warranty also does not apply to any Toppan Products ordered by B&N before the date of this Agreement.

i. Defects that occur intentionally or accidentally, or during processing or installation.

ii. Defects attributable to fabrication, processing, assembling, operation, management, or maintenance conducted by a third party employed without regular arrangement.

iii. Defects such as deterioration of Toppan Products caused by members or auxiliary materials not involved in use of Toppan Products.

iv. Defects caused by the use of Toppan Products installed in an environment other than the specified and reasonably recognized service environment and operated beyond the prescribed level of performance.

v. Defects of Toppan Products caused by external factors like attributable to deformation of the building structure.

vi. Aging change of Toppan Products or any of its components such as wear and tear, aging deterioration, such as denaturation or discoloration, or rusting, molding or other defects associated with these.

vii. Defects attributable to rust.

viii. Damage due to location of a special environment such as a hot spring, incineration plant, or swimming pool facility or industrial area where special gas, heat, acid, alkali, or salt is used or generated. Area where salt damage occurs or area where water splash constantly occurs because of proximity to a lake or river area where flue dust or chemicals such as metallic powder, stone powder, or agricultural chemicals are attached or accumulated, and damage by environmental pollution.

ix. Damage by natural disasters such as typhoon, flood, earthquake, lightning, or icicle.

x. Defects attributable to phenomena technically unforeseeable in commercialization of Toppan Products.

xi. Defects attributable to animals such as dogs, cats, birds, or mice.

xii. Defects attributable to relocation, repair or remodeling of Toppan Products conducted by the Purchase.

xiii. Defects caused by repaired area like touch-up paint has been applied.

xiv. Damage caused by cleaning with inappropriate tools such as scrubbers or brushes or with chemicals.

xv. Damage aggravated as a result of initial damage or defects left unattended for a long time.

xvi. Defects caused by the failure of appropriate maintenance after delivery.

xvii. Defects caused by use of Toppan Products for purposes other than the originally intended use or defects caused by a method of use different from the intended use.

xviii. Defects caused by no use of authentic accessories or members or by use of members other than our own.

xix. Defects including damage attributable to illegal conduct such as crime.

xx. Defects due to improper storage after product delivery (for example high-temperature and humidity at storage in a place, long-term storage that exceeds the Warranty Period, and defects due to water, stacking, exposure to direct sunlight, extremely low temperatures and etc.).

xxi. Problems caused by condensation due to natural phenomena or living environment, expansion and cracking or breakage due to freezing, expansion and contraction due to temperature difference, twisting, etc.

xxii. The loss by delivery delays or nonfulfillment of this product due to natural disasters, wars, riots, transportation accidents, epidemics, and other sudden matters.

xxiii. Defects due to operational errors, improper adjustments, or improper maintenance after product delivery.

xxiv. Defects caused by electrical equipment such as heat generated from lighting equipment, air conditioners etc.

xxv. Defects caused by the installation that doesn't follow the Fortina standard installation methods or proper settlement.

xxvi. Defects caused by thermal elongation of aluminum substrate due to temperature changes.

Fortina Warranty > p. 3

4. Claims Procedure:

If B&N discovers an alleged Breach of the Warranty in a Toppan Products, and notify Toppan of such in writing with (i) sufficient details of such alleged Breach; (ii) the related purchase order number; (iii) the address of the installed product and date of installation; and (iv) other detailed information regarding the allegedly Breaching Toppan Products within thirty (30) days of the discovery and during the Warranty Period, Toppan shall investigate whether there is any Breach in such Products. B&N shall return the subject allegedly Breaching Toppan Products for investigation together with the notification above, and shall allow Toppan to inspect them at the installed site.

5. Remedies

5.1 If Toppan confirms that there is Breach on the Toppan Products upon the investigation set forth in Section 4 of this Exhibit B, Toppan shall, at its discretion:

i. repair the Breaching product;

ii. replace the Breaching product; or

iii. refund the price paid to Toppan for the delivery of the subject Breaching product pursuant to the refund policy set forth herein.

In case of replacement, Toppan shall deliver, at Toppan's sole cost and expense, the replacement to B&N at the location to be agreed between the Parties within Territory. In case of refund, the refund price shall decrease in accordance with the following schedule:

Elapsed time from the beginning of the warranty period	Percentage of the price to be refunded
Within 2 years	100%
More than 2 years within 4 years	80%
More than 4 years within 6 years	50%
More than 6 years within 8 years	30%
More than 8 years within 10 years	10%

5.2 The Toppan Products replaced pursuant to Section 5.1 of this Exhibit B shall be subject to the same warranties, the same conditions and the same remedies as the original Toppan Products, provided that the Warranty Period therefore shall be the balance of the applicable Warranty Period relating to the replaced Toppan Products.

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Fortina Fire Rating Documentation

SOUTHWEST RESEARCH INSTITUTE® 6220 CULEBRA RD. 78238-5166 • P.O. DRAWER 26510 78228-0510 • SAN ANTONIO, TEXAS, USA • (210) 684-5111 • WWW.SWRI.ORG CHEMISTRY AND CHEMICAL ENGINEERING DIVISION FIRE TECHNOLOGY DEPARTMENT WWW.FIRE.SWRI.ORG FAX (210) 522-3377 **NSF** ASTM E 84 - 10 INVESTIGATION OF THE SURFACE BURNING CHARACTERISTICS OF A NOMINAL 0.13-MM THICK PRINTED DECORATIVE FOIL, LAMINATED ONTO AN ALUMINUM C-CHANNEL RAIL **TRADE NAME: TOPPAN FORTINA (TIA008)** FINAL REPORT **Consisting of 5 Pages** SwRI[®] Project No.: 01.16045.01.024h Test Date: October 19, 2010 Report Date: November 10, 2010 **Prepared for: TOPPAN INTERAMERICA, INC.** 1131 HWY 155 SOUTH MCDONOUGH, GA 30253 Approved by: Prepared by: G. L. Janet all Matthew S. Blais, Ph.D. Anthony L. Sauceda Group Leader Director Material Flammability Section Fire Technology Department This report is for the information of the client. It may be used in its entirety for the purpose of securing product acceptance from duly constituted approval authorities. This report shall not be reproduced except in full, without the written approval of SwRI. Neither this report nor the name of the Institute shall be used in publicity or advertising. HOUSTON, TEXAS (713) 977-1377 • WASHINGTON, DC (301) 881-0226

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FORTINA ASTM E84 **CLASS A PASSED** CIRT R16045.01.024h

INTRODUCTION

This report presents the test results for a specimen submitted by Toppan Interamerica, Inc., located in McDonough, GA, and tested at Southwest Research Institute's (SwRI's) Fire Technology Department, located in San Antonio, Texas. The test is conducted in accordance with the procedure outlined in ASTM E 84 - 10, *Standard Test Method for Surface Burning Characteristics of Building Materials* (NFPA 255, ANSI/UL 723 and UBC 8-1).

This test method is applicable to exposed surfaces, such as ceilings or walls, provided that the material or assembly of materials, by its own structural quality or the manner in which it is tested and intended for use, is capable of supporting itself in position or being supported during the test period. The test is conducted with the material in the ceiling position.

The purpose of this test method is to determine the relative burning behavior of the material by observing the flame spread along the specimen. Flame Spread and Smoke Developed index are reported. However, there is not necessarily a relationship between these two measurements.

This standard should be used to measure and describe the response of materials, products, or assemblies to heat and flame under controlled conditions and should not be used to describe or appraise the fire-hazard or fire-risk of materials, products, or assemblies under actual fire conditions. However, results of the test may be used as elements of a fire-hazard assessment or a fire-risk assessment which takes into account all of the factors which are pertinent to an assessment of the fire hazard or fire risk of a particular end use.

Test specimens are conditioned as appropriate in an atmosphere maintained between 68 and 78 °F and 45 to 55% relative humidity. Immediately prior to the test, the specimen is mounted in the furnace with the side to be tested facing the test flame. Cement board is placed on the unexposed side of the specimen to protect the furnace lid assembly. Sometimes, because of the nature of the material undergoing testing, additional support (e.g. wire, wire and rods, rods, and/or bars) is used to ensure that the specimen will remain in position during the test. The use of supporting materials on the underside of the test specimen may lower the Flame Spread Index from that which might be obtained if the specimen could be tested without such support, and the test results do not necessarily relate to indices obtained by testing materials without such support.

The flame front position and light obscuration are recorded throughout the 10-minute test and used to calculate the Flame Spread and Smoke Developed indices. The temperature at 23 ft is also recorded. The Flame Spread and Smoke Developed indices reported herein are relative to the results obtained for mineral fiber-reinforced cement board and select grade red oak (moisture content between 6 and 8%). The mineral fiber-reinforced cement board is the calibration material used to obtain 0 values for Flame Spread and Smoke; red oak decks are used to obtain 100 values for Flame Spread and Smoke.

The results apply specifically to the specimens tested, in the manner tested, and not to the entire production of these or similar materials, nor to the performance when used in combination with other materials.

Two model building codes (2009 International Building Code[®], Chapter 8 Interior Finishes, Section 803 Wall and Ceiling Finishes; NFPA 5000, Chapter 10 Interior Finish, Section 10.3 Interior Wall or Ceiling Finish Testing and Classification) classify materials based on the Flame Spread and Smoke Developed indices. For reference purposes, the classification criteria are listed below:

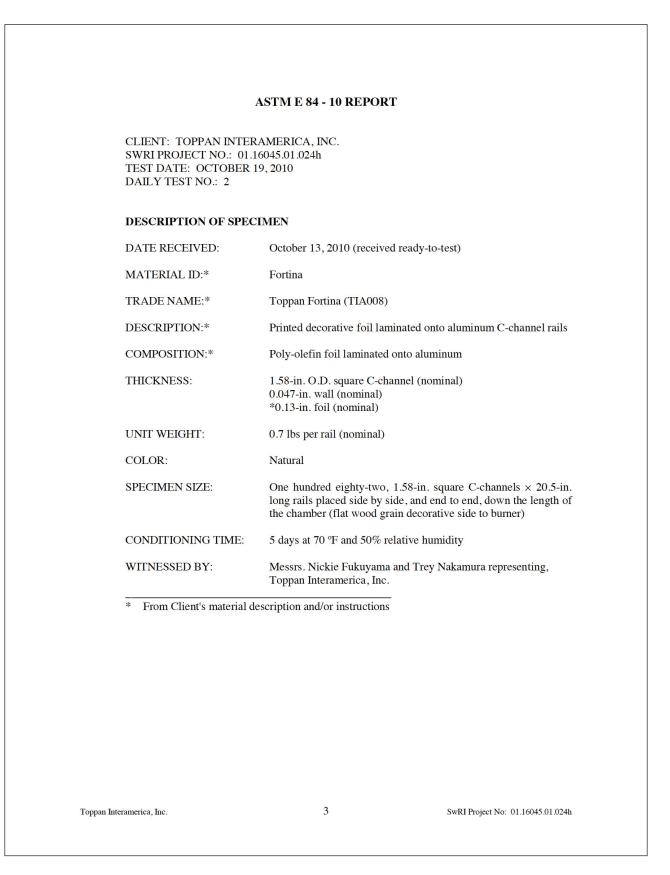
Classification	Flame Spread Index	Smoke Developed Index
Α	0 - 25	0 - 450
В	26 - 75	0 - 450
С	76 - 200	0 - 450

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Toppan Interamerica, Inc.

SwRI Project No: 01.16045.01.024h

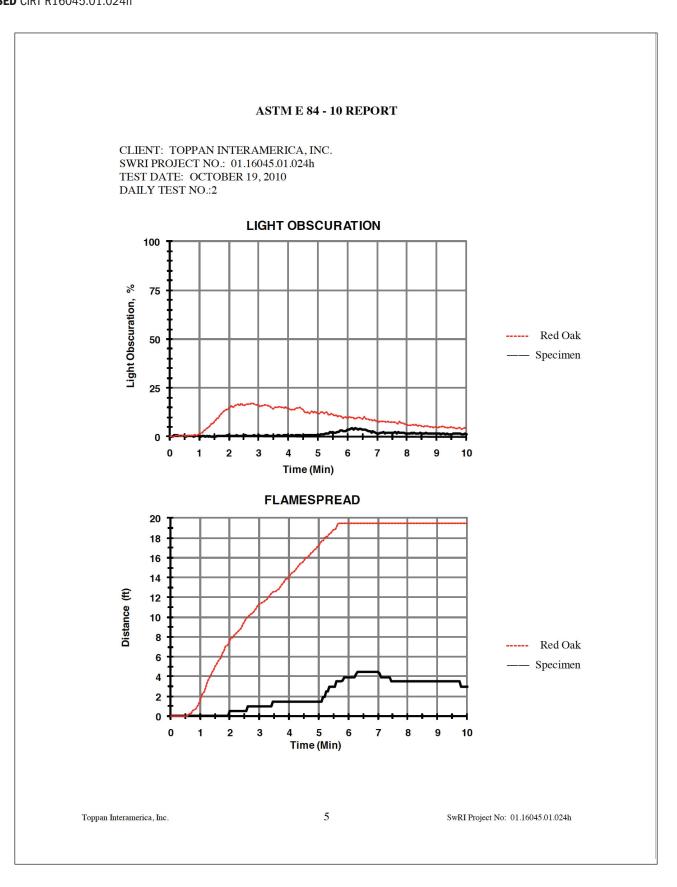
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ASTM E 84 - 10	REPORT	
CLIENT: TOPPAN INTERAMERICA, INC.		
SWRI PROJECT NO.: 01.16045.01.024h		
TEST DATE: OCTOBER 19, 2010		
DAILY TEST NO.: 2		
TEST RESULTS		
FLAME SPREAD INDEX (FSI):	10	
SMOKE DEVELOPED INDEX (SDI):	10	
TEST DATA		
UNROUNDED FSI:	12.5	
UNROUNDED SDI:	10.2	
FS*TIME AREA (Ft*Min): SMOKE AREA (%*Min):	24.2 12.8	
FUEL AREA (% Min):	5059.3	
OBSERVATIONS DURING TEST		
IGNITION TIME (Min:Sec):	02:39	
MAXIMUM FLAME FRONT ADVANCE (Ft.):		
TIME TO MAXIMUM ADVANCE (Min:Sec):	6:18	
MAXIMUM TEMP. AT EXPOSED TC (°F):	577	
TIME TO MAXIMUM TEMP. (Min:Sec): TOTAL FUEL BURNED (Cu. Ft.):	9:15 53.0	
DRIPPING (Min:Sec):	None	
FLAMING ON FLOOR (Min:Sec):	None	
AFTERFLAME TOP (Min:Sec):	01:12	
AFTERFLAME FLOOR (Min:Sec):	None	
SAGGING (Min:Sec):	None	
DELAMINATION (Min:Sec): SHRINKAGE (Min:Sec):	None None	
FALLOUT (Min:Sec):	None	
CALIBRATION DATA		
RED OAK SMOKE AREA (%*Min):	76.9	
RED OAK FUEL AREA (°F*Min):	8376	
GRC BOARD FUEL AREA (°F*Min):	5407	

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Fortina Performance Data > Exterior Film

Decorative Sheet Performance Data (Exterior Specification)

Dimensional				
stability	Heat resistance test	Put a cross-cut measuring 100 mm x 100 mm at the center of a specimen, leave it a temperature of 65°C for two days, and check the clearance at the cross-cut part.		
Weather resistance	Accelerated weathering test	Apply a light beam to the specimen with a sunshine carbon arc weather meter for 8,000 hours and check the appearance.		
at resistance	Long-term heat resistance test	Leave the specimen in each oven for 1,000 hours and check 60°C the appearance. 80°C		
Heat cycle resistance	Heat-cold repeating test	i Conduct 100 cycles, with each cycle consisting of 80°C for two hours switched to -		
ry/wet cycle resistance	Dry/wet cycle test			
Humidity resistance	Long-term humidity resistance test	Leave the specimen in a high humidity tank at a constant tem 90%RH and observe the appearance.	perature of 40°C and	
Scratch resistance	Pencil scratch resistance (based on JIS H8602)			
	Abrasion resistance test	Rotate the specimen 7,000 times with a taper abrasion tester 17; and load: 1 kg) and observe the appearance.	(abrasion wheel: CS-	
resistance test (based on JIS specimen at an angle of 45° at a falling rate of		specimen at an angle of 45° at a falling rate of 320 g/min. and	320 g/min. and measure the time	
ow temperature pact resistance	Dupont impact test	Let a 1 kg weight fall from a height of 30 cm to the specimen at 5° C and observe the appearance.		
	Pollution resistance test (1)	Immerse dry cotton in a solvent, rub the surface of the specimen with the cotton for 20 strokes and observe the appearance.	Petroleum benzine Methyl ethyl ketone Ethyl acetate Ethanol	
Pollution resistance	Pollution resistance test (2)	Apply each pollutant, wipe it off with water or ethanol after a lapse of 24 hours and observe the appearance.	Blue ink Black shoe cream Black marker Red crayon	
	Oil and solvent resistance test	Apply each oil and solvent, wipe it off with water after a lapse of 24 hours and observe the appearance.	Heating oil CRC556 Ethanol Petroleum benzine	
id resistance	Acid resistance test	Immerse the specimen in a 1% sulfuric acid aqueous solution for one hour and observe the appearance.		
Alkali resistance	Alkali resistance test (based on JIS H8602)	Put a drop of 5 g/l sodium hydrate aqueous solution to the surface, leave it for 24 hours, wash the solution off with water, and observe the appearance.		
Corrosion resistance	CASS corrosion resistance test (based on JIS H8602)	Put the specimen in a test tank, spray a sodium chloride solution of a 50 g/l concentration to the specimen for 48 hours, and observe the appearance.		
dhesiveness	Cross-cut peel test (based on JIS H8602)	Scratch the surface at an interval of 2 mm in both the longitudinal and transverse directions to the depth that reaches the base material, make 100 grids with those scratches, apply cellophane tape over the grids, and peel it off.		
15 Adhesive strength	Normal state adhesiveness test			
	Heat creep resistance test			
	Cold creep resistance test	Apply a load at a rate of 500 g/25 mm to the sheet at a 90 degr the base material at -20°C and measure the peeling distance 3		
	esistance t resistance t resistance easistance y/wet cycle esistance Humidity esistance Corrosion esistance Adhesive	Accelerated weathering testt resistanceLong-term heat resistance testt resistanceLong-term heat resistance testleat cycle esistanceDry/wet cycle test//wet cycle esistanceDry/wet cycle testHumidity esistanceLong-term humidity resistance (based on JIS H8602)Abrasion esistancePencil scratch resistance (based on JIS H8602)Abrasion esistanceFalling sand abrasion resistance test (based on JIS H8602)w temperature act resistanceDupont impact testPollution esistancePollution resistance test (1)Pollution esistanceOil and solvent resistance testd resistanceAcid resistance test (based on JIS H8602)Alkali esistanceAlkali resistance test (based on JIS H8602)Akali esistanceCross-cut peel test (based on JIS H8602)hesivenessCross-cut peel test (based on JIS H8602)Adhesive strengthNormal state adhesiveness test	Accelerated weathering test accol hours and check the appearance. t resistance Long-term heat resistance test Leave the specimen in each oven for 1.000 hours and check the appearance. ieat cycle esistance Heat-cold repeating test Conduct 100 cycles, with each cycle consisting of 80°C for to 20°C for two hours, and observe the appearance. //wet cycle esistance Dry/wet cycle test Conduct 20 cycles, with each cycle consisting of 40°C and 30 witched to 40°C and 90%RH for 16 hours, and observe the appearance. Rumidity asistance Long-term humidity resistance test Leave the specimen in a high humidity tank at a constant tem 90%RH and observe the appearance. Scratch Pencil scratch resistance test 90%RH and observe the appearance. Rotate the specimen XMI apper abrasion tester 17, and load: 1 kg) and observe the appearance. Abrasion Falling sand abrasion resistance test (based on JIS H8602) Let a grinding material fail through a guiding tube of 20 mm in aspectment the appearance. Pollution resistance test (based on JIS H8602) Let a grinding material form a height of 30 cm to the specime and the abrasic the appearance. Pollution resistance test (based on JIS H8602) Immerse dry cotton in a solvent, rub the surface of the specimen with the cotton for 20 strokes and observe the appearance. Pollution resistance test (c) Apply each pollutant, wipe it off with water after a lagse of 24 hours and observe the appearance. </td	

* These data are based on our own test results. We do not guarantee those results.

Fortina Performance Data > Interior Film

E	valuation Items	Test items	Test method
1	Weather resistance	Accelerated weathering test	Apply light beam for a certain duration of time with a sunshine carbon arc weather meter.
2	Heat resistance	Heat resistance test (company standard)	Leave the specimen in an oven at a temperature of $60 \pm 5^{\circ}$ C for 48 hours.
3	Water resistance	Water resistance test (company standard)	Immerse the specimen in room temperature water for 24 hours and then dry it.
4	Humidity resistance	Humidity resistance test (company standard)	Leave the specimen in a tank at a constant temperature and humidity of $40 \pm 2^{\circ}$ C and $90 \pm \%$ RH for 48 hours.
5	Heat cycle resistance	leave it there for two hours, and leave it in a low-temperature tank at - 20 ± 3°C for ty	
	6 Chemical resistance	Chemical resistance (company standard)	Apply (a) 2% sodium hydrate, (b) 5% acetate solution, and (c) petroleum benzine to the specimen, leave it for six hours and wipe them off.
6		Chlorine resistance test (company standard)	Apply chlorine of 1.0 mg/L, which is the sanitation criterion for a swimming pool, and chlorine of 10.0 mg/L, 10 times higher concentration of the above, to the specimen, leave it for 24 hours, 48 hours, and 72 hours, and wipe it off. However, change chlorine water every six hours considering the decomposition rate of chlorine.
			 Sanitation criterion of a swimming pool: The residual free chlorine concentration of water in a swimming pool shall be 0.4 mg/L or more. The desired concentration is 1.0 mg/L (according to the notification of the Director-General, Environmental Health Bureau, Ministry of Health and Welfare).
7	7 Pollution resistance	Pollution resistance test (1)	Apply each detergent (weak alkali, neutral, and weak acid), insecticide, and heating oil to each specimen, leave them for six hours, and wipe them off.
1		Pollution resistance test (2)	Draw a 10 mm wide line with a permanent marker and a crayon, leave it for two hours, and wipe it off with a solvent or a detergent.
8	Abrasion resistance	Abrasion resistance test (pattern loss) (based on JAS abrasion C test)	Conduct a test on a 120 x 120 mm specimen with a taber abrasion tester and calculate the rotational value when the loss of pattern reaches 50%.
9	Scratch resistance	Scratch resistance test (company standard)	Pencil hardness test based on JIS K 5400 (load of 500 g)

Decorative Sheet Adhesion Performance Data (Interior Specification)

* These data are based on our own test results. We do not guarantee those results.

Terms And Conditions

QUOTE BY PHONE

1-800-350-4127 (Outside Northern California) 1-650-593-4127 (Northern California)

QUOTE/ORDERING BY E-MAIL

MAIL@BNIND.COM (Ready 24 hours a day)

CUSTOMER SERVICE

Customer service is available 8:00 am to 5:00 pm (PST) Mon. – Thurs. and 8:00 am to 12:00 pm on Fri. to answer your inquiries regarding products, quotes or orders.

WARRANTY

We fully support the quality of our product. If there are any manufacturing defects within a year of delivery, please contact our Customer Service Department by phone or e-mail for assistance.

PRODUCT WARRANTY LIMITATIONS

The Customer is purchasing the fixtures in an "as-is" condition, unless otherwise reported to the Company pursuant to [the inspection provision in the contract], as of the date of delivery and specifically and expressly without any warranties, representations or guarantees, either expressed or implied, except as set forth below, as to its condition, fitness for any particular purpose, merchantability, or any other warranty of any kind, nature or type whatsoever from or on behalf of the seller. The Company hereby warrants to the Customer and its successors and assigns that the product supplied to the Customer is constructed only for the use and purposes contemplated by the Customer set forth in the contract; and the Company, immediately prior to the delivery of the product had good and lawful right to sell the product, and that there is hereby conveyed to the Customer on the date of delivery, good title to the product, free and clear of all liens, claims, encumbrances and rights of others.

WEBSITE / PRINTED MATERIALS

The copy has been reviewed to present information as accurately as possible. If an error is found in description or pricing, or the item has been discontinued, yet not updated, B+N reserves the right to correct it at the time it was discovered.

PRODUCT OFFERINGS AND MATERIAL FINISHES ARE SUBJECT TO CHANGE AT ANY TIME.

ORDER SHIPMENTS ESTIMATES

Orders in stock will ship via ground in 2 – 5 days, unless another service level is requested by the customer.

BACK ORDERS

Unless otherwise noted, back orders will ship when they are back in stock at our facility. Your Sales Administrator will keep you advised on the status of all back orders.

BLANKET ORDERS

Blanket orders are subject to a unique set of Terms & Conditions defined at the time of order placement.

MINIMUM ORDER REQUIREMENTS

\$500 threshold must be reached to place an order.

STORAGE

Storage fees will be assessed after 30 days for all materials that were scheduled to ship but were delayed for customer related reasons at no fault to B&N Industries. Fees will be assessed weekly at \$500 or 5% of the total order, whichever is greater. If an order is paid in full, then the storage fees must be cleared prior to shipment. If an order is partially paid for, then the remaining balance on the order plus storage fees must be paid prior to shipment.

CANCELLATION AND RETURN ITEMS

1. Stock items must be returned within 30 days, in re-sellable condition. Return of stock items may incur a 25% re-stocking fee. Freight charges on returns are the customer's responsibility. A return authorization is required for all returns. Items returned without the proper authorization will not be accepted. B+N assumes no liability for customer returns which arrive damaged due to shipment transportation.

Non-stock items purchased may not be returned.
 Prepaid material that remains beyond the 30-day original delivery schedule prior to cancellation will also be subject to storage fees.

FREIGHT AND MULTIPLE SHIPMENTS

1. The following will result in additional charges unless otherwise stated on your quotation:

– Shipments to multiple destinations or split shipments to the same location.

 Customer requesting custom packaging (includes breakout into multiple packages) and shipped to one location.

2. Collect or 3rd Party Billing shipments are the responsibility of the freight payer.

3. Freight quotations are subject to re-quote at any time prior to the order being placed or at time of shipment if shipment is delayed.

4. Customer is responsible to arrange and pay for International freight, as quotes are for transportation only.
Freight quotes provided by B&N do not include the broker, customs duties, fees or taxes. That is the responsibility of the customer to obtain and pay directly to the source.
Broker information must be provided prior to shipping.
5. Weights and measurements may change due to changes in suppliers and/or packaging.

6. B&N is unable to guarantee delivery times or dates. Delivery times and dates are the responsibility of the shipping agent.

7. Regarding split shipments: On occasion, an order may ship from multiple locations based on availability.

PRODUCT DISCREPANCIES AND DAMAGES VIA SHIPMENT

1. Customer must inspect items upon delivery for damage or discrepancy. Please refer to B&N's Delivery Shipper Checklist Info document for terms.

The Delivery Checklist can be found here: https://www.BNIND.COM/resources/technical-data

2. B+N accepts no liability for damage incurred during shipping. Any damage found at time of delivery must be noted by customer on delivery receipt and signed/initialed by driver. Customer is to retain all packaging with damaged items for an on-site inspection by carrier.
3. For damage on 3rd party or collect shipments, the customer is responsible for filing the claim with the carrier for financial reimbursement.

4. If any product arrives in damaged condition, a freight claim must be filed with the delivering carrier.
Retain packing material and note on the Bill of Lading "DAMAGED". Our Customer Service Department will assist you with any questions regarding filing a freight claim.
5. All claims regarding shortages and freight damages must be presented WITHIN 7 DAYS of receiving the shipment.

PAYMENT METHODS AND TERMS

ACH, Wire, and Company Checks • Banking information can be provided upon request for electronic payment options

Credit Cards (subject to 2.5% processing fee) • We accept VISA, MASTERCARD, AMERICAN EXPRESS.

1. Payment is due in full prior to shipping of product for all PREPAID ACCOUNTS. We do not ship COD. For payments made by check or bank transfer, the order will be processed upon receipt and approval of check or receipt of funds.

2. Consideration for establishing terms requires a combined order amount of \$1,000,000+.

3. Approved repeat customers may qualify for NET terms at B&N's discretion if sufficient volume is reached. A credit application must be completed with the necessary references. Please allow 2-3 weeks for processing. All custom orders outside of a standard project scope will continue to require a 50% deposit.

SALES TAX

Due to the Wayfair vs South Dakota ruling all orders are subject to sales tax in the state that the material is delivered to unless a valid resale certificate is provided. Due to uncertain Economic Nexus requirements sales tax can be added to any order after a quote has been provided.

1. Taxable orders paid for by the customer and will-called at our California facility are taxed at the current rate for San Mateo County.

PROTOTYPES, DRAWINGS, TOOLING, AND FIXTURES

1. Drawings provided by B+N are the exclusive property of B+N Industries, Inc.

 Prototypes made from drawings that are not detailed and approved by B+N Industries, Inc., or have been supplied via verbal instruction from the customer, are subject to the interpretation of B+N Industries, Inc.
 Tooling dies and fixtures made and used exclusively for a job or customer, remain the property of B+N Industries, Inc., unless otherwise established.

PHOTOGRAPHY OF COMPLETED PROJECTS

B+N Industries, Inc. reserves the right to photograph a completed project that has utilized our product offerings and retains the rights to use the photographs in advertising, on our website, public relations and all marketing materials.

FORTINA SPECIFIC ORDERS WARRANTY WARRANTY

We support the quality of the Fortina product for 10 years. For more information, please visit our Warranty section.

CANCELLATION AND RETURN ITEMS Fortina is considered a custom made to order line, therefore, may not be returned. If an order is canceled which is in production the customer is liable for paying for all products ordered. THIS PAGE IS INTENTIONALLY LEFT BLANK



B+N Industries

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Houston Showroom and Offices: (By Appointment Only) 1800 Bering Drive, Suite 500 Houston, Texas 77057 713.430.9100

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