

BN

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B+N Industries

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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.

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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

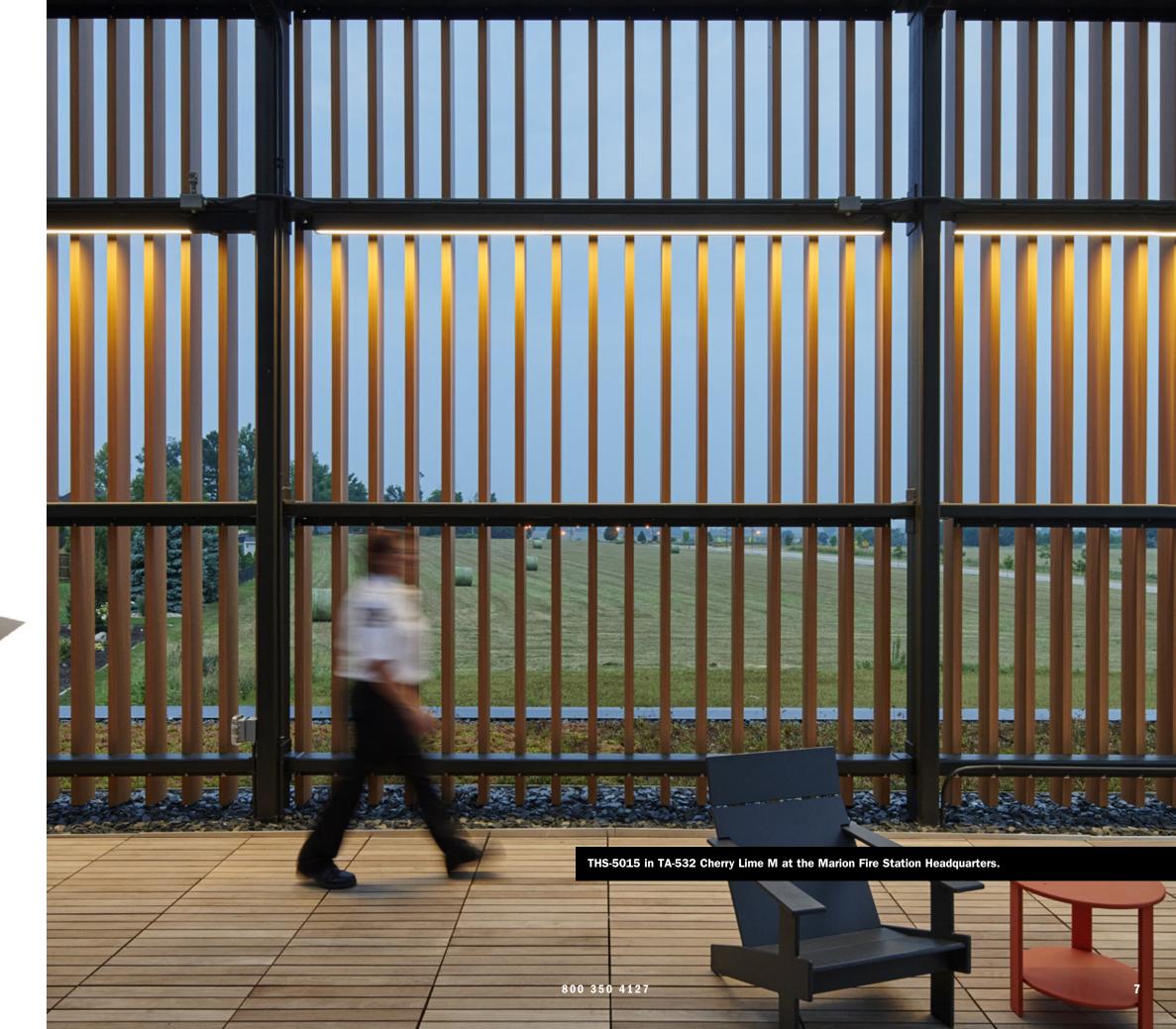


TA-775 Carina Elm D



TE-SN2035* Axis Oak N





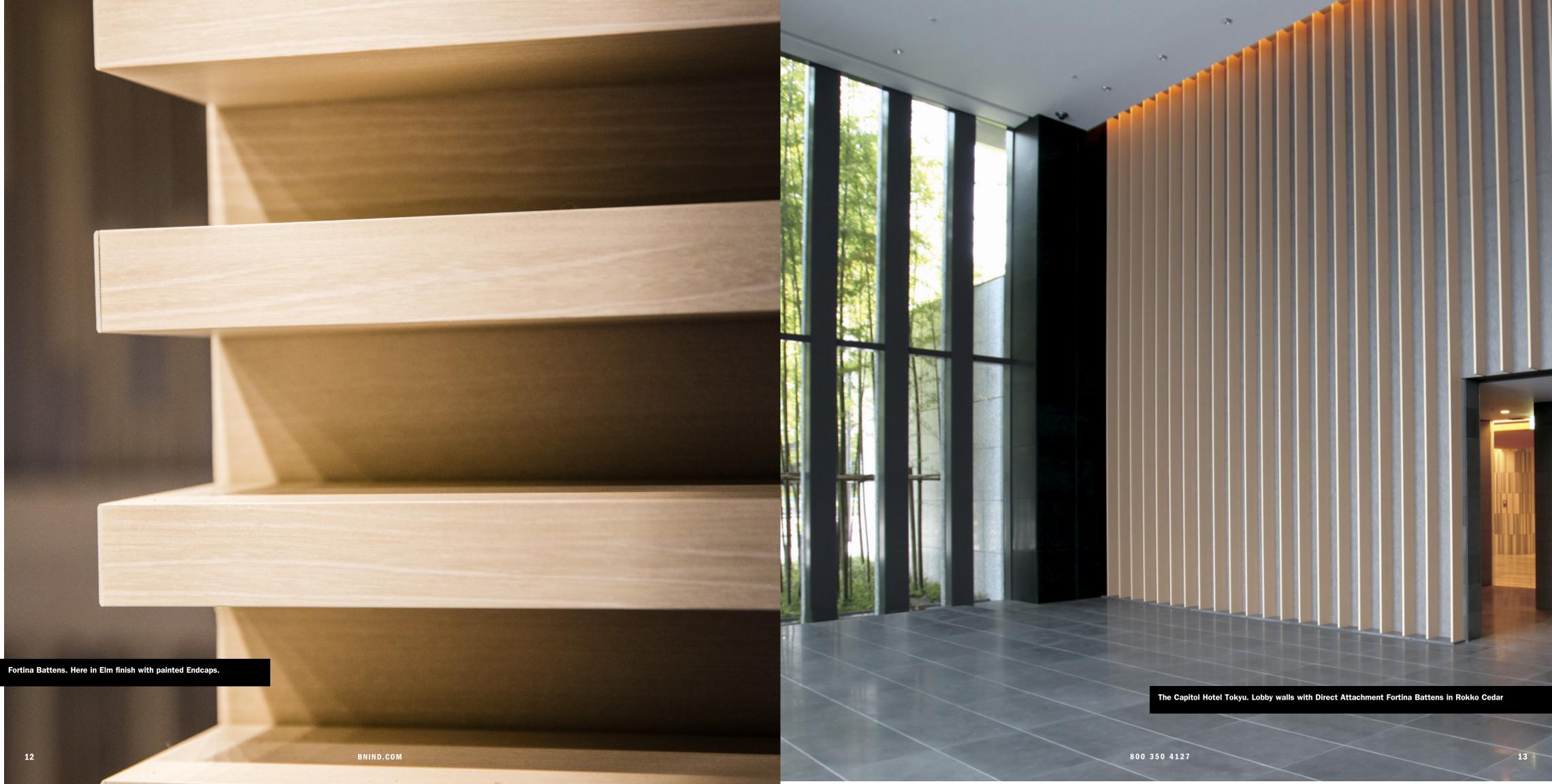
*TE-SN2035 is suitable for interior only.

50mm x 150mm Batten Available in 12 ft. lengths

Applications: Stringer, Floor-to-Ceiling and Direct





































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

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

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

Fortina Battens as an interior sunshade, here in Vintage Walnut finish.

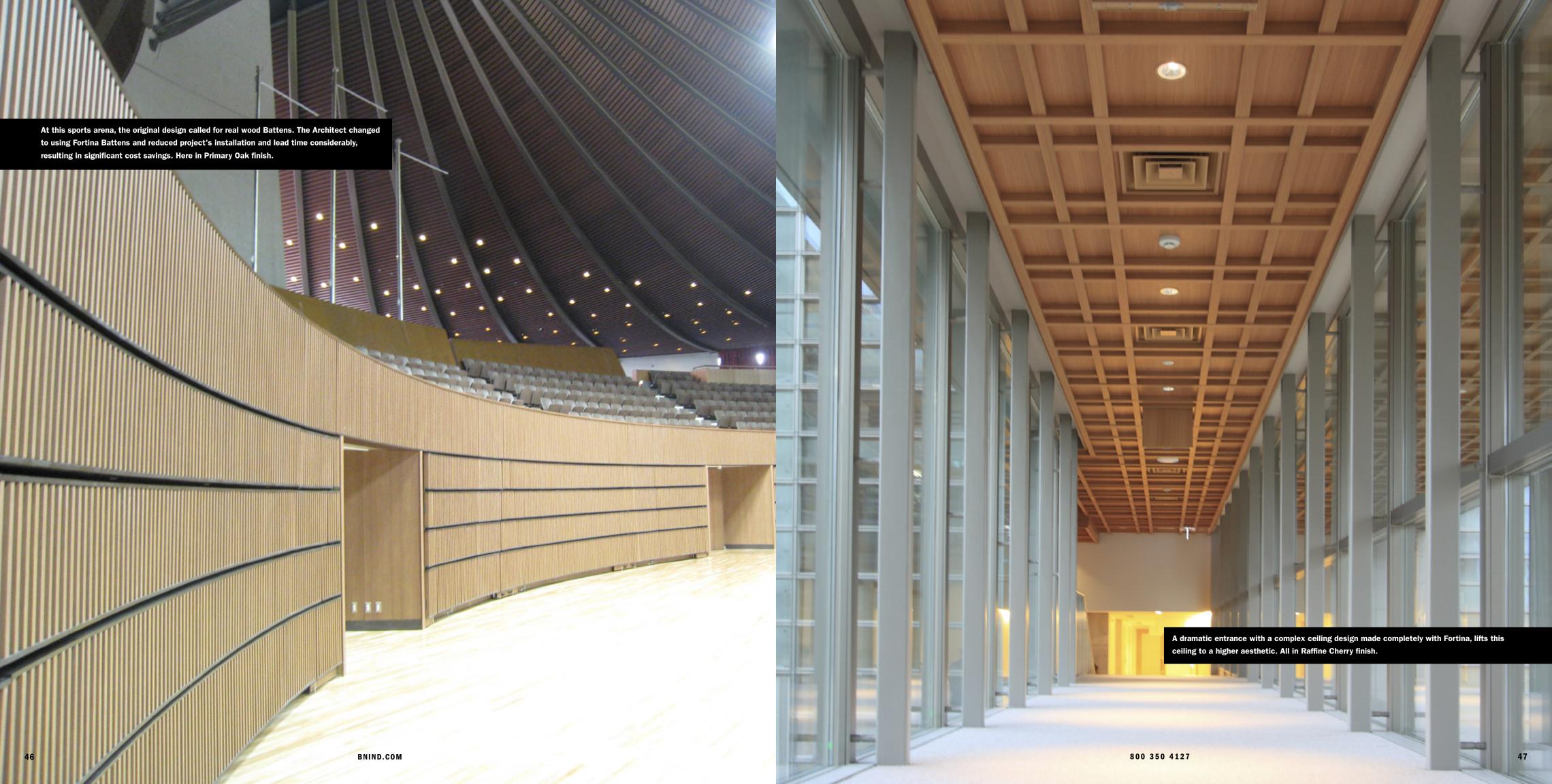
in Vintage Walnut finish.

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.



This exterior focal wall is made up of 4 different size Fortina Battens in the same finish to create a corrugated three-dimensional look. All in Vent Walnut finish.

SUITEROOM WEDDING





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





Crema Chestnut CW



TE-SN2080 TE-SN2063 Marble Wood W Brilas Wood W



TE-SN901

Alba Oak

TE-SN2087

TE-SN2066

Scrilla Ash G

Thermos Oak LG

TE-SN2025 TE-SN2055 Maquillage Elm TG Revion Wall W



TE-SN2058 Legacy Ash G



TE-SN2099 Humming Elm G



TE-SN2060 Tendre Walnut LG



Crema Cedar

TE-SN2065 Sklira Ash W

TE-SN947

TE-SN2035

Axis Oak N

TE-SN882

Norte Oak L

TE-SN941

Abel Oak MC

TE-SN2039

English Walnut G

Madras Walnut W



TE-SN2014 Crema Chestnut FW



TE-SN2084 Brook Willow W

TE-SN2073

Pulito Oak N

TE-SN2098

TE-SN2075

Pulito Oak G

TE-SN2033

Autumn Chestnut

Humming Elm N



TE-SN2052 Stylish Maple N



TE-SN2053 Frettare Oak N





TE-SN2074 Pulito Oak L





Sieg Birch G



TE-SN2095 Saloon Eucalyptus G



Axis Oak L





Ars Cherry M



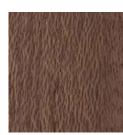
TE-SN2090 Allegro Cherry M



TE-SN883 Norte Oak G



TE-SN2057 Revion Wall B



TE-SN2064 Brilas Wood DG



Agile Walnut M



Interior

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



TE-SN2088 Thermos Oak MG



TE-SN2079 Iris Noche B

English Walnut BL

TE-SN7102

Mode Metal G



TE-SN2018

English Walnut B

TE-SN2051



TE-SN2086

Ligne Cedar DG

TE-SN2077

Vintage Oak MG

TE-SN2062



TE-SN2096 Saloon Eucalyptus B

TE-SN2070

TE-SN7002

Pure Black

Lind Acacia BL



TE-SN2089 Thermos Oak D

TE-SN944

Fram Oak D

TE-SN7104

Mode Metal BL



TE-SN2076 Vintage Oak B



TE-SN2081



Marble Wood DG



TE-SN7103 Mode Metal B



Symphony Walnut D

TE-SN7101

Reflet Cloth G



RB-4N









RB-1N Black

Interior/ **Exterior Anodized 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.



NS-SN Silver Matte



NS-5N

RB-5N

Stain Color



Light Bronze

NS-4N

Light Bronze Matte



RB-3N



RB-2N

Dark Bronze





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-012

Bamboo

TA-647

TA-602

TA-808

TA-004

TA-006

Spangle Metal D

Rokko Cedar

Vent Walnut BL

Vintage Walnut

Earl Walnut M



TA-005 Rican Oak



TA-031 Maple



Blossom Birch

TA-758

TA-532

Vent Walnut N

TA-030 Machilus



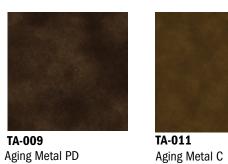
TA-029 Classic Pine



TA-032

Eisen Sakura





TA-011

TA-033

Bamboo M

TA-021

Criollo Elm

TA-013

TA-760

Vent Walnut D

TA-002

TA-034

Bamboo D

Terra Cotta Arrosto

Antique Cedar G

TA-028



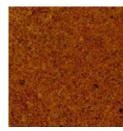
Pacific Gray



TA-014 Antique Cedar RB



TA-775 Carina Elm D



TA-003 Terra Cotta Rosso



Win White



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.

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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.

Fortina Battens in Elm Finish are mounted directly to the wall. LED lights are added in the Fortina Slats can adapt to ceiling lighting installations. Here in Blossom Birch Finish. middle to illuminate the wall behind. West

Lighting and LED Information

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.

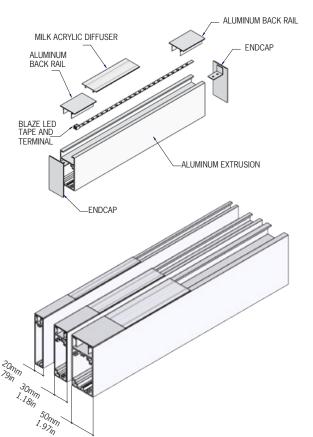
Light Grazing: This is a lighting technique that uses light strips positioned at an angle against a vertical wall. When lights are illuminated against a wall that contains Fortina, our Fortina Battens benefit from the dramatic play between light and shadow.

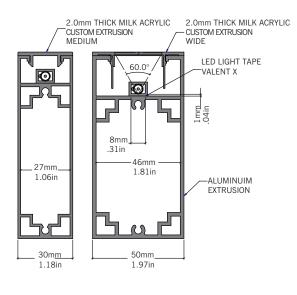
LIGHTING BENEFITS:

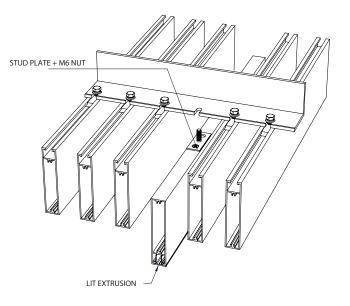
- Fully integrated LED lighting within the Fortina Batten
- Light applications customized to your project
- · Fully diffused and uninterrupted linear lighting
- Indoor & outdoor options
- Wide range of lumen output options
- · Color (CCT) Range: 2000K-6300K
- 95+ CRI: Superior color rendering with high 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



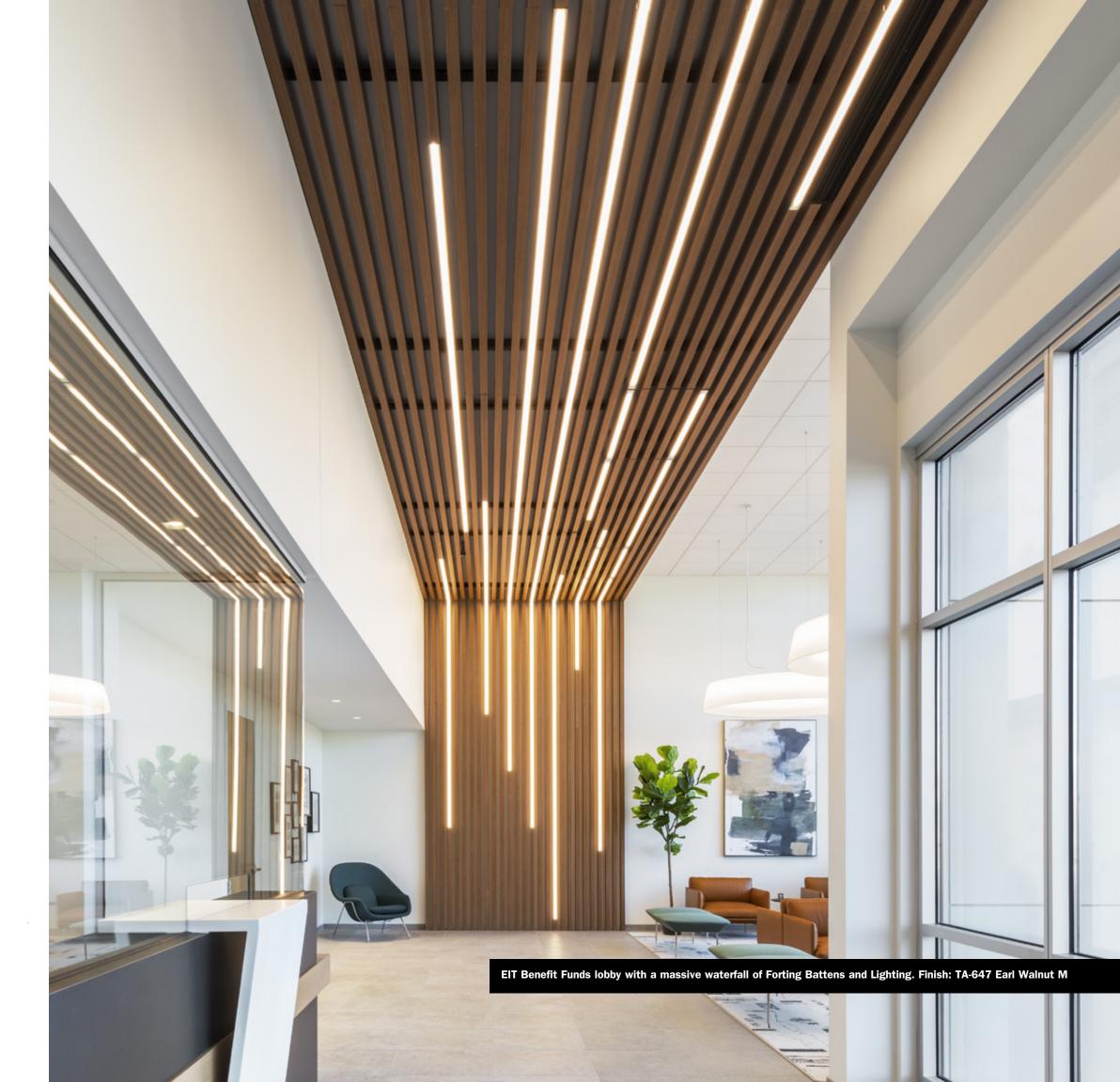








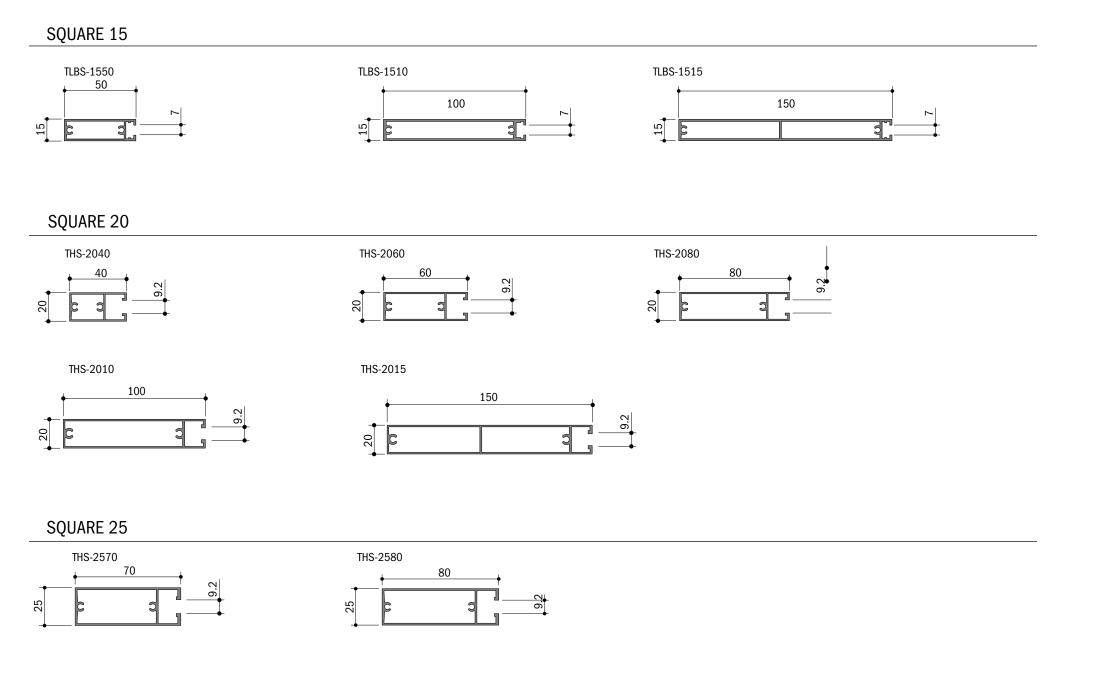


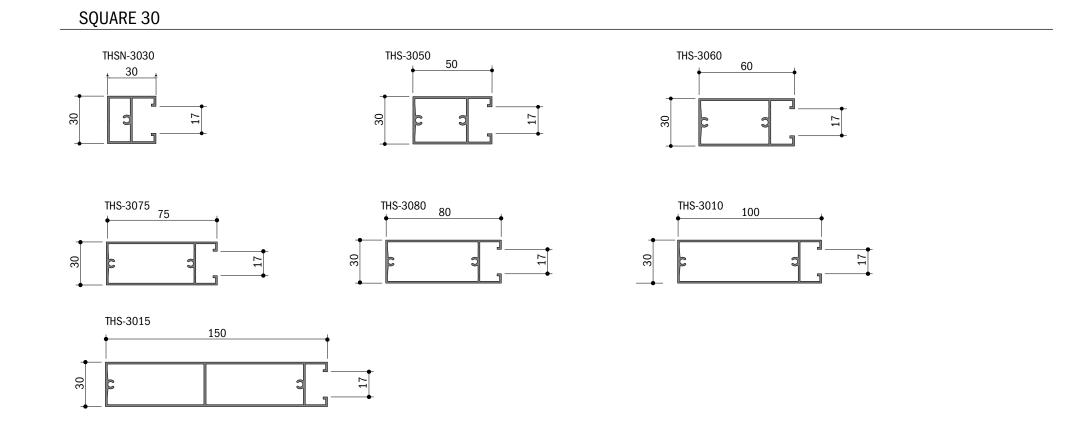


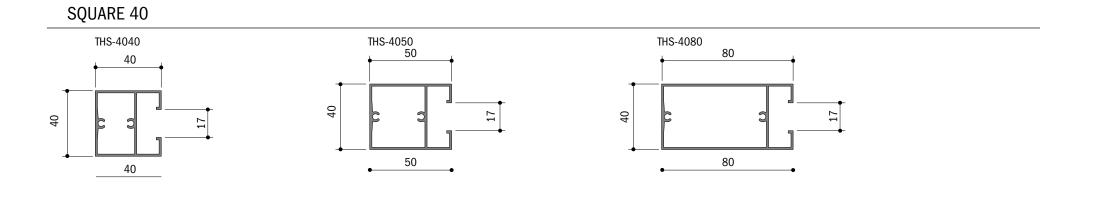
BATTEN PROFILES AND ACCESSORIES

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

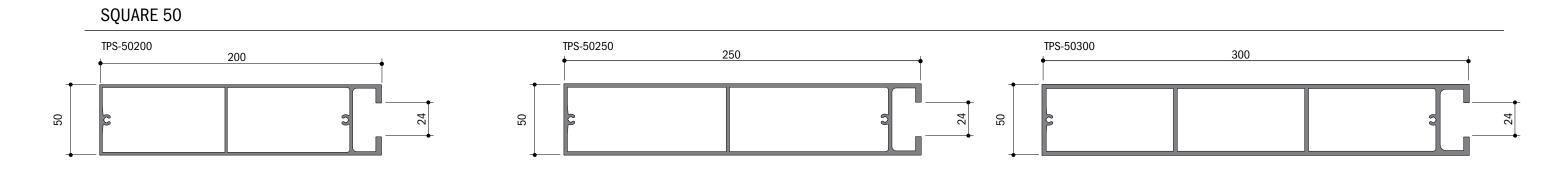
Note: all dimensions are in mm. See Finishes Guide for finishes.







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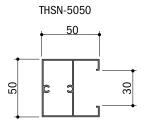


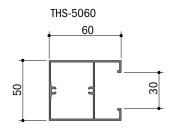
BATTEN PROFILES AND ACCESSORIES

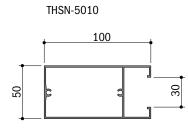
Interior and Exterior Wall And Ceiling Applications With Stringers > Batten Profiles and End Caps

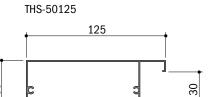
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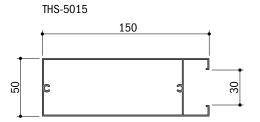
SQUARE 50



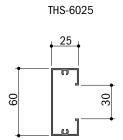


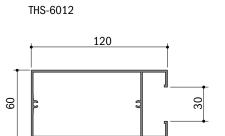




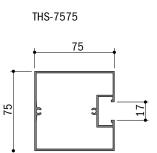


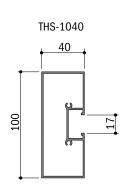
SQUARE 60





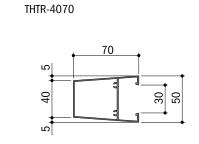
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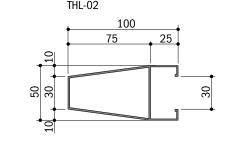




SQUARE 100

TRAPEZOID

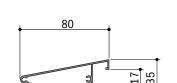


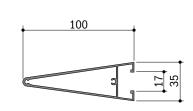


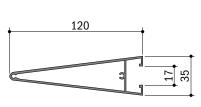
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TRIANGLE

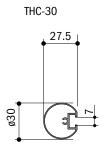
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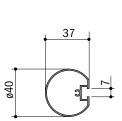




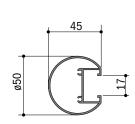


ROUND



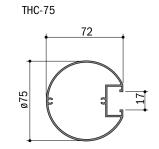


THC-40



THC-50

THV-3512

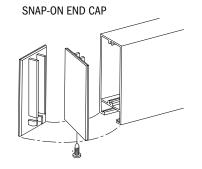


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END CAPS

Materials: Aluminum Plate. Sold in sets of 20.

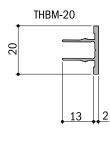


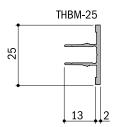


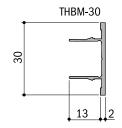
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BATTEN PROFILES AND ACCESSORIES

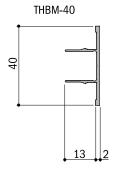
Interior and Exterior Wall And Ceiling Applications With Stringers > Decorative Backrails

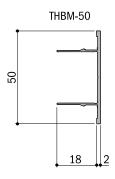


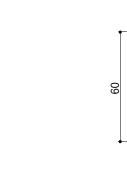


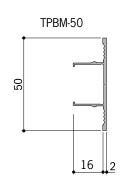


THBM-60

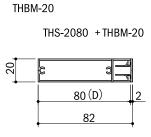


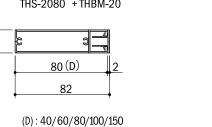


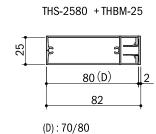




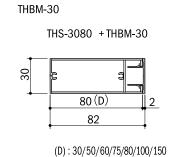
EXAMPLES OF PROFILES WITH DECORATIVE BACKRAILS INSTALLED



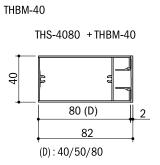


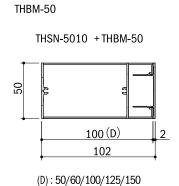


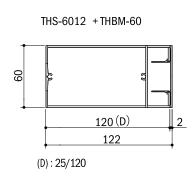
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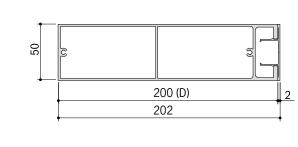


TPBM-50







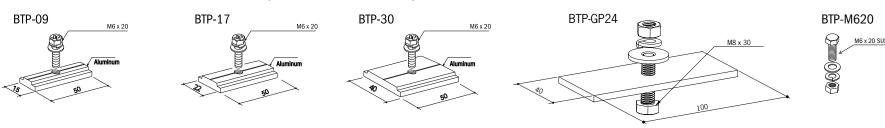


BATTEN PROFILES AND ACCESSORIES

Interior and Exterior Wall And Ceiling Applications With Stringers > Accessories

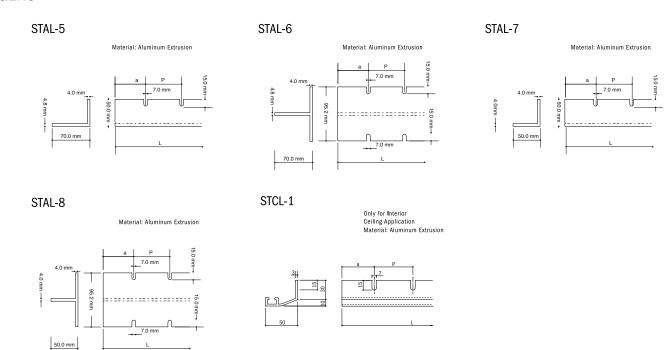
Note: all dimensions are in mm. See Finishes Guide for finishes.

CLIPS FOR ATTACHING BATTENS TO STRINGERS (SOLD IN SETS OF 20)

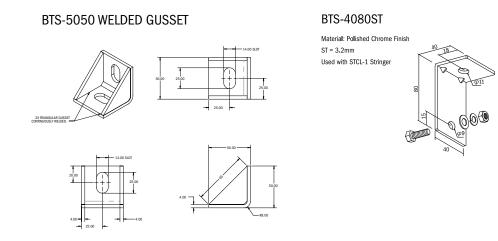


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STRINGERS



STRINGER FITTINGS (SOLD IN SETS OF 10)



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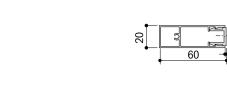
Interior Wall And Ceiling Direct Applications > Batten Profiles and Endcaps

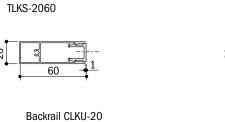
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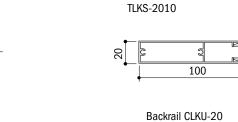
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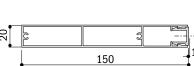
Backrail CLKU-20

Attachment 20 TLKS-2040







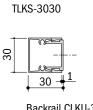


Backrail CLKU-20

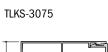
Backrail CLKU-20

Attachment 30

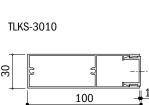
TLKS-2015

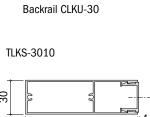


Backrail CLKU-30



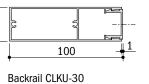
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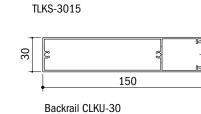




50 🕂

TLKS-3050

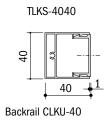


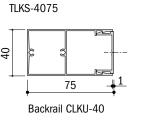


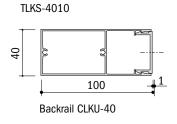
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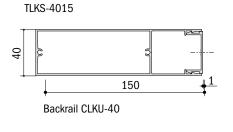
Backrail CLKU-30

Attachment 40

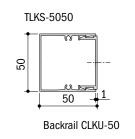




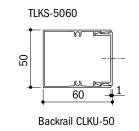


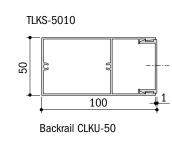


Attachment 50

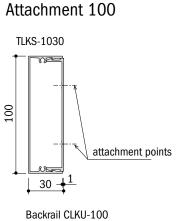


TLKS-5015









65

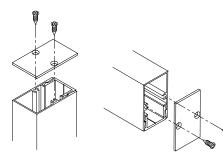
END CAPS

Materials: Aluminum Plate. Sold in sets of 20.

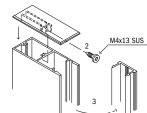
150

DIRECT SCREW-ON END CAP

Backrail CLKU-50



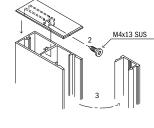
Use with any direct attachment louvers.



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

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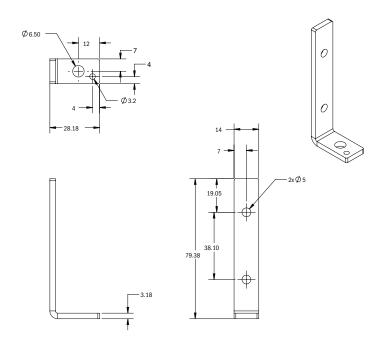
DIRECT SNAP-ON END CAP



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

Floor-To-Ceiling Applications > L-Brackets Note: all dimensions are in mm

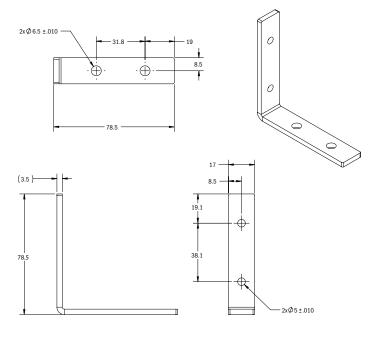
TBF L-BRACKET LITE



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

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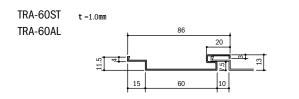
SLAT PROFILES AND ACCESSORIES

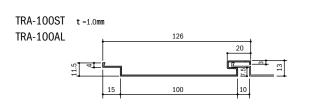
Interior And Exterior Slats > Profiles

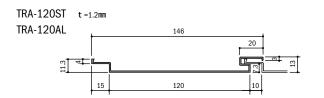
Note: all dimensions are in mm. See Finishes Guide for finishes.

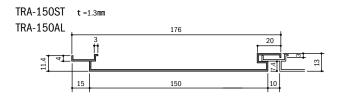
13mm height/thickness Profile Selection

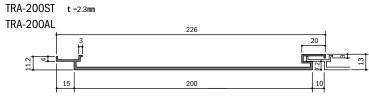
Standard Style With 10mm Reveal



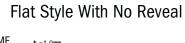


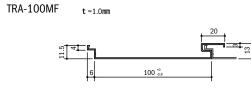


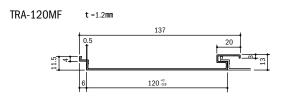


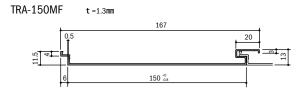


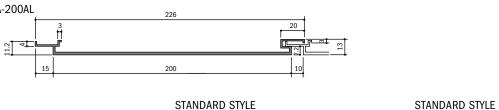




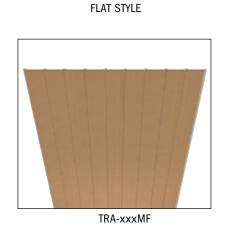












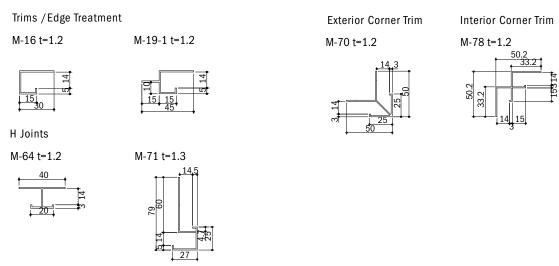
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SLAT PROFILES AND ACCESSORIES

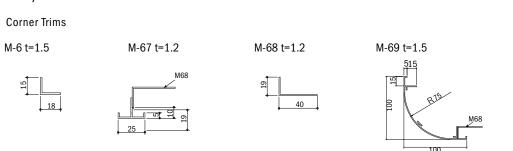
Interior And Exterior Slats > Accessories

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

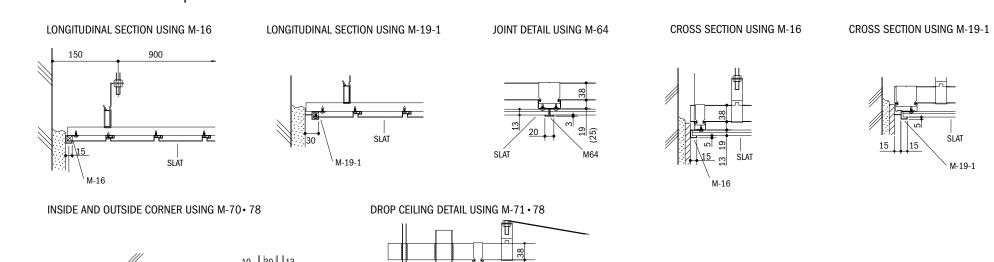
13mm



13mm/23mm



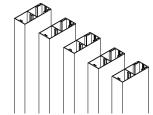
Slat > Installation Examples



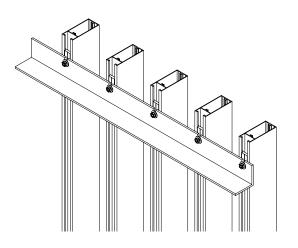
Interior Applications

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.

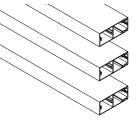


Stringer Mounted Battens Attach Stringers horizontally to the wall structure with L-brackets, Unistrut, L-angles or similar. Stringers will be prenotched to create the designed Batten spacing. Secure Battens to the Stringers with special Fortina clips. Add end caps if needed.

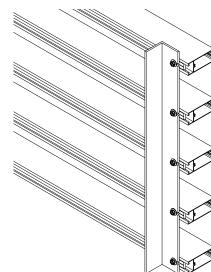


Horizontal On Wall

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.

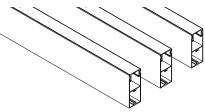


Stringer Mounted Battens Attach Stringers vertically to the wall structure with L-brackets, Unistrut, L-angles or similar. Stringers will be prenotched to create the designed Batten spacing. Secure Battens to the Stringers with special Fortina clips. Add end caps if needed.

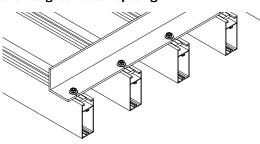


Ceiling

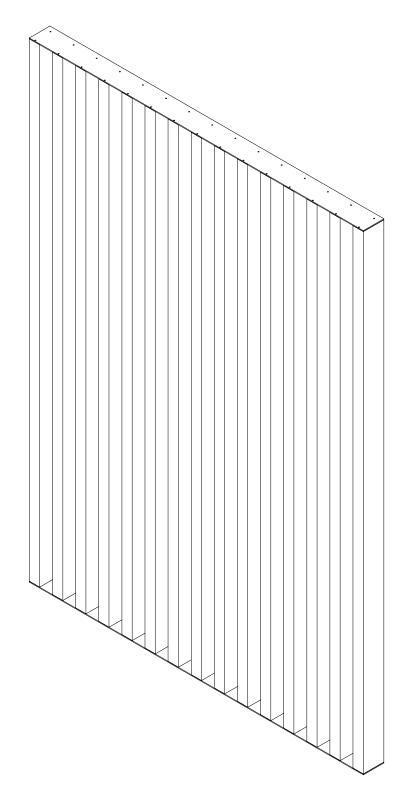
Direct Attachment with interlocking Batten and back rail. Screw back rails at desired locations into the ceiling and lock Batten into it. It is recommended that you secure the back rail with small screw on side at each end. Add end caps if needed.



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.



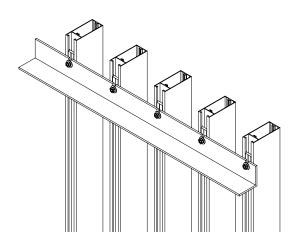
Floor-To-Ceiling Battens are connected at top and bottom with L-brackets. Attach short side of the L- bracket to floor and to ceiling at desired locations. Slide in the Batten and attach to brackets. Snap in the back rail to cover the connections.



Exterior Applications

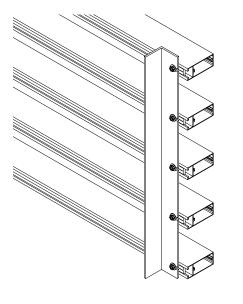
drain hole in each end cap.

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



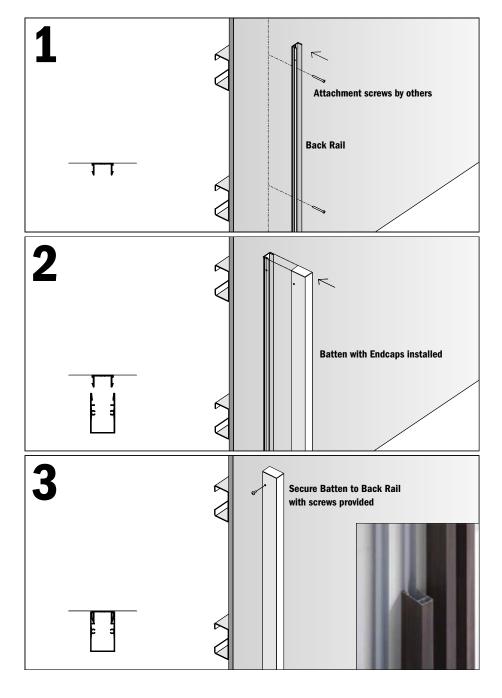
Stringer Mounted Horizontal Battens Attach

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

- 1. 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.



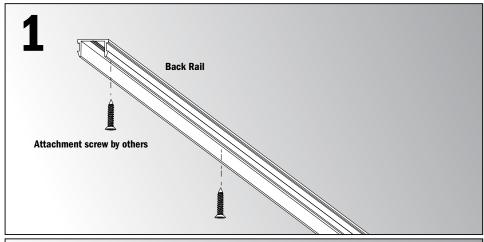
INSTALLATION INSTRUCTIONS

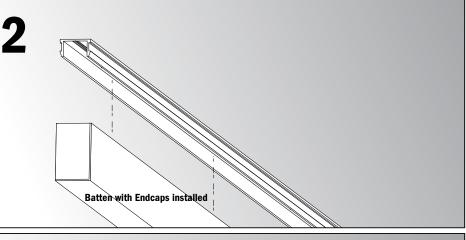
Fortina Battens > Ceiling > Direct Attachment > Interior Only

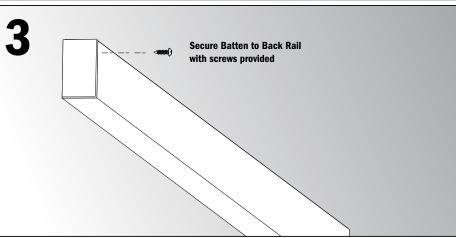
1. Attaching the Back Rail:
Measure and mark the position
of your Battens on the ceiling.
Mark and drill pilot holes in the
Back Rail in a diameter smaller
than the screw you are using.
Attach to ceiling at pre-marked
locations.

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.

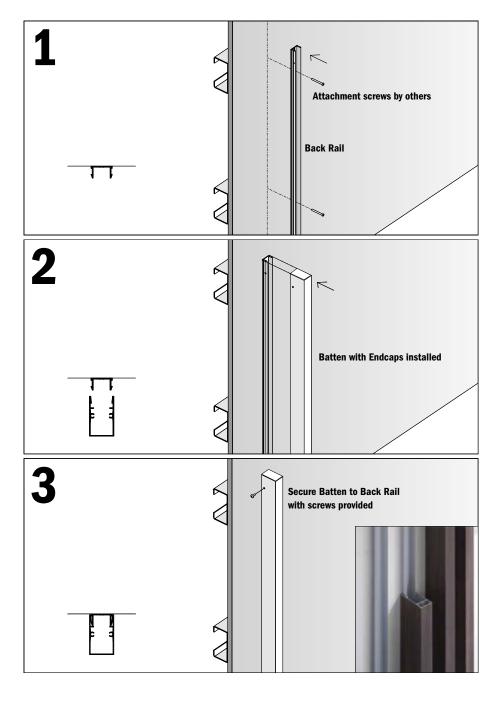






Fortina Battens > Wall > Direct Vertical Attachment > Exterior High Velocity Hurricane Zone (HVHZ)

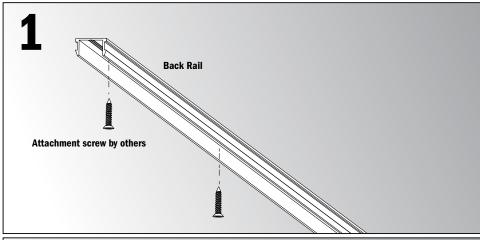
- 1. Attaching the Back Rail:
 Measure and mark the position
 of your Battens on the wall.
 Mark and drill pilot holes in the
 Back Rail in a diameter smaller
 than the screw you are using.
 Attach to wall at pre-marked
 locations. Attach Endcaps to the
 Battens with screws provided
 before installing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

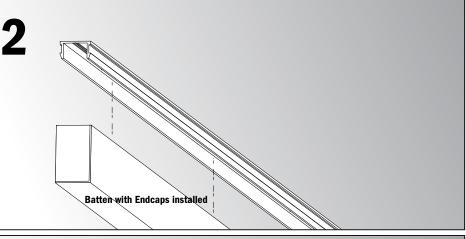


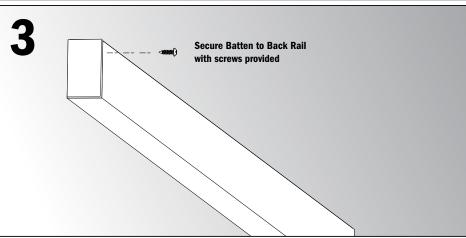
1. Attaching the Back Rail:
Measure and mark the position
of your Battens on the ceiling.
Mark and drill pilot holes in the
Back Rail in a diameter smaller
than the screw you are using.
Attach to ceiling at pre-marked
locations.

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.





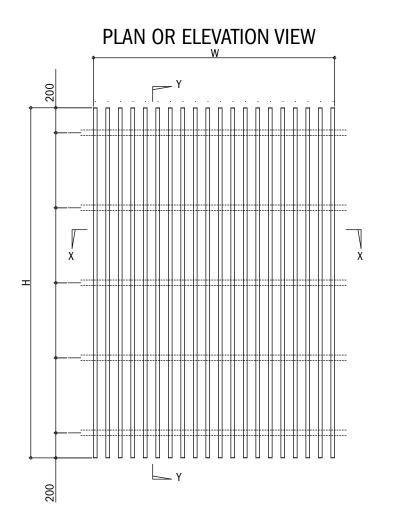


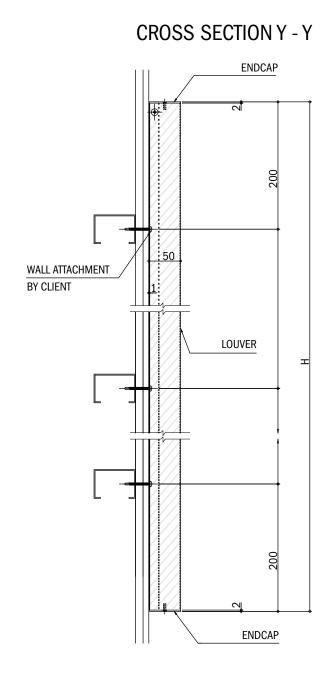
Interior Wall And Ceiling Direct Applications > Installation Examples

ATTACHMENT SCREW

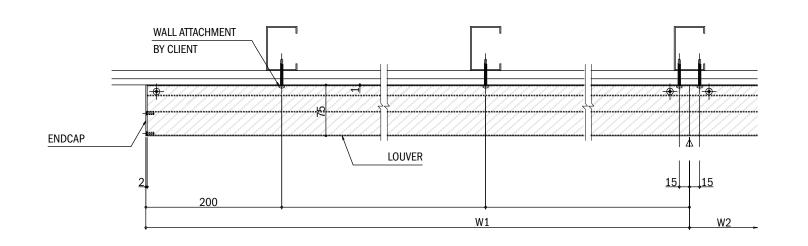
LOUVER

BACKRAIL

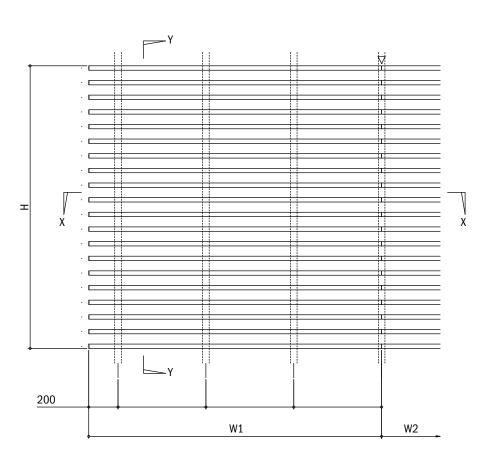




CROSS SECTION X - X

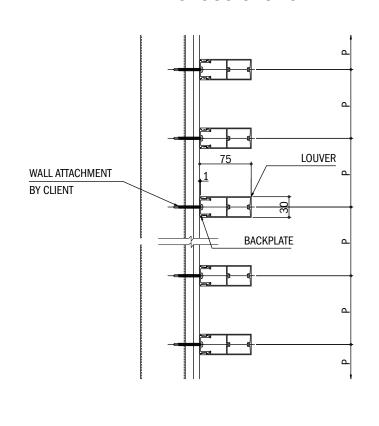


PLAN OR ELEVATION VIEW



CROSS SECTION Y - Y

77



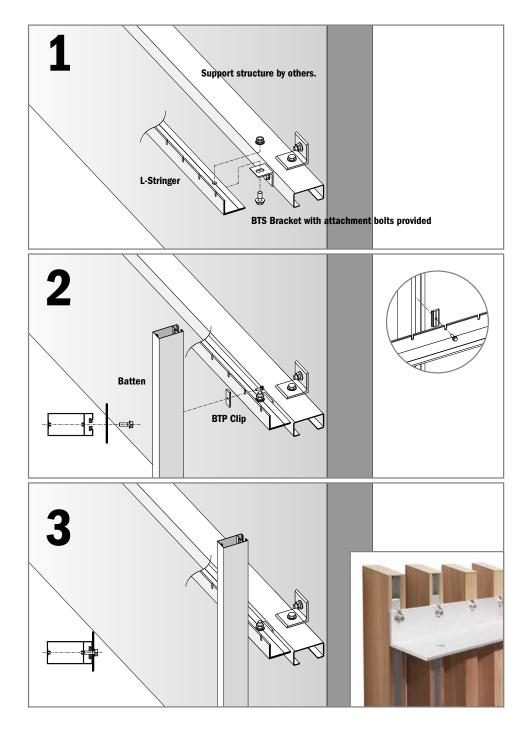
INSTALLATION INSTRUCTIONS

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.

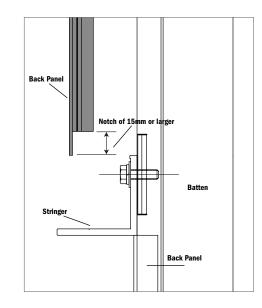
Attach Endcaps to the Battens with screws provided, per instruction on next page.

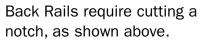


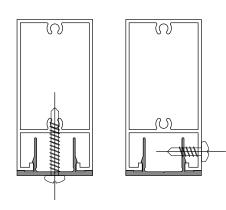
INSTALLATION INSTRUCTIONS

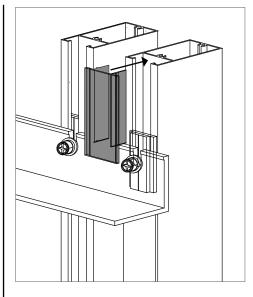
Fortina Battens > Wall > Stringer Mounted > Interior/Exterior

Installation With Back Plate Visible

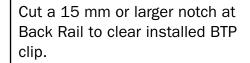






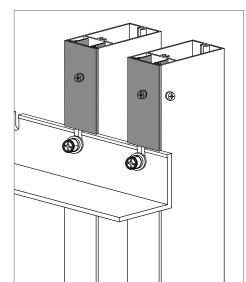


Follow instructions mounting Battens to Stringers.



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.

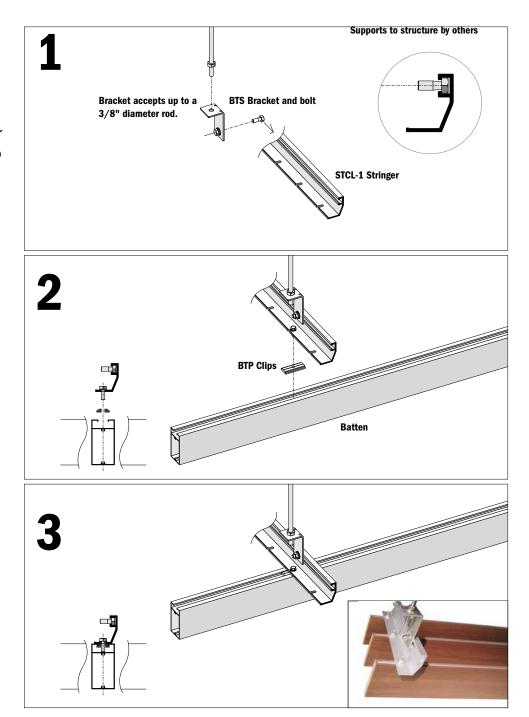




Fortina Battens > Ceiling > Stringer Mounted > Interior Only

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.



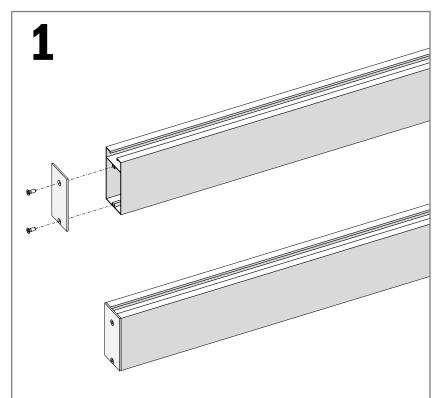
INSTALLATION INSTRUCTIONS

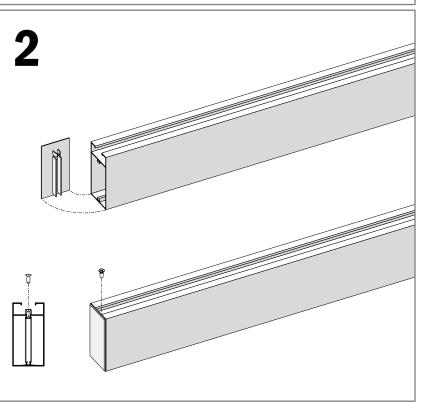
Fortina Battens > Endcaps

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.





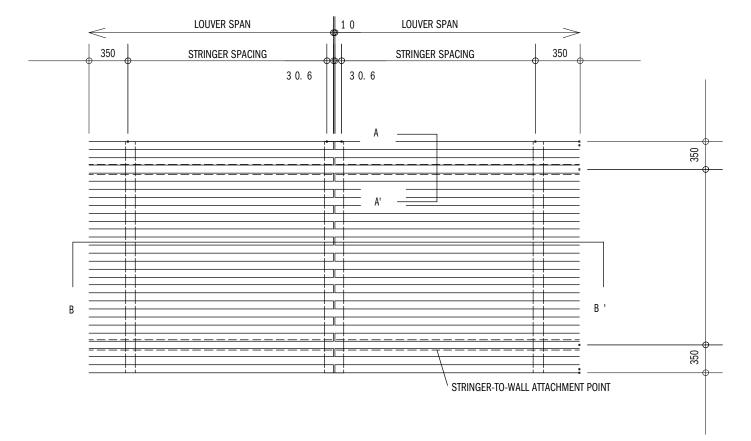
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BATTEN PROFILES AND INSTALLATION GUIDE

Interior and Exterior Wall Applications With Stringers > Installation Examples

Interior or Exterior Wall Stringer Application > Horizontal

ELEVATION



CROSS SECTION A - A

UVER
S-4040

STRINGER

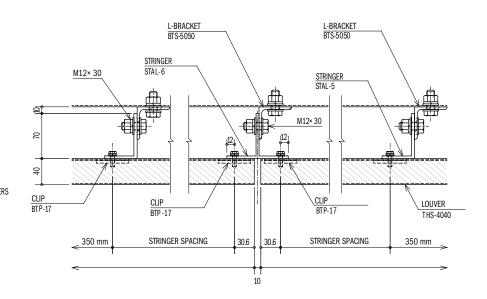
STAL-5

M12×30

C-ANGLE BY OTH

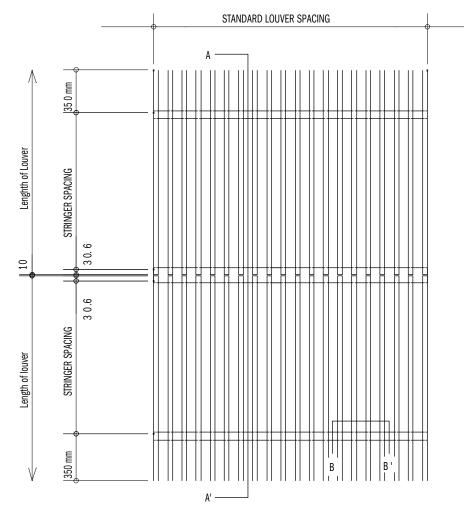
BTS-5060

CROSS SECTION B - B

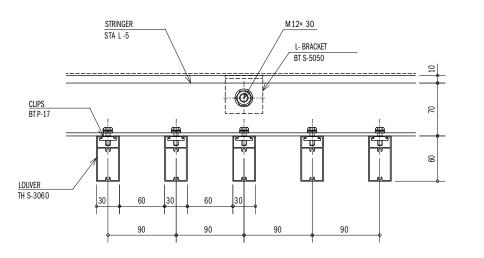


Interior or Exterior Wall Stringer Application > Vertical

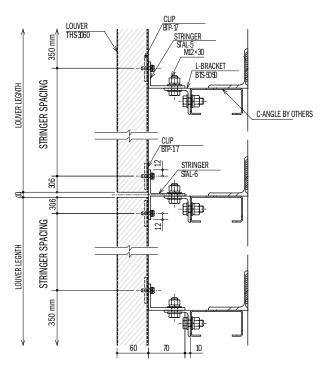
ELEVATION



CROSS SECTION B - B



CROSS SECTION A - A



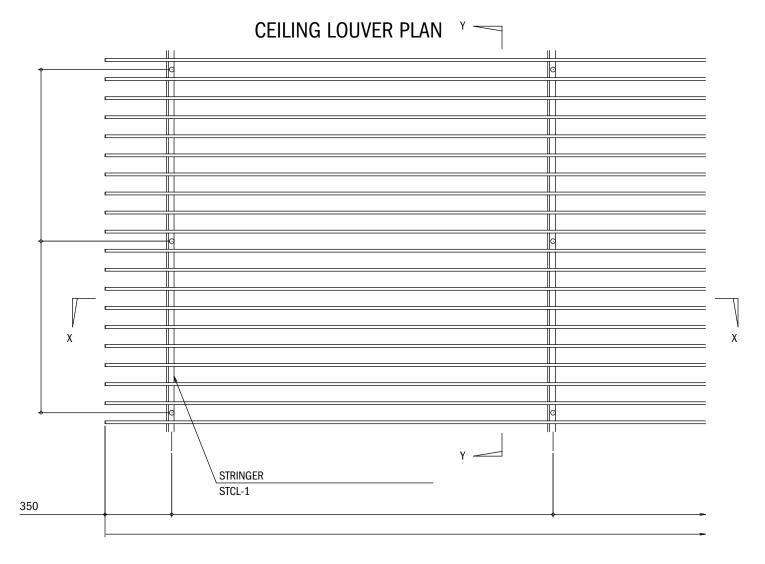
83

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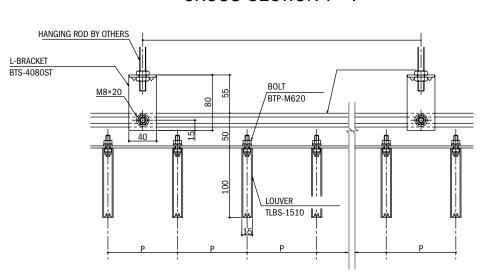
BATTEN PROFILES AND INSTALLATION GUIDE

Interior Ceiling Applications With Stringers > Installation Examples

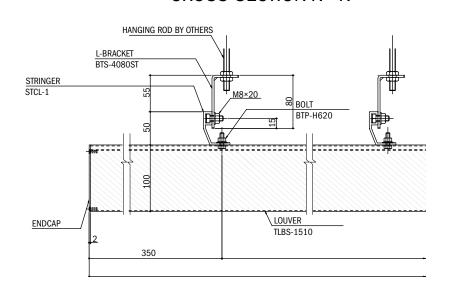
Interior Ceiling Installation With STCL Stringer



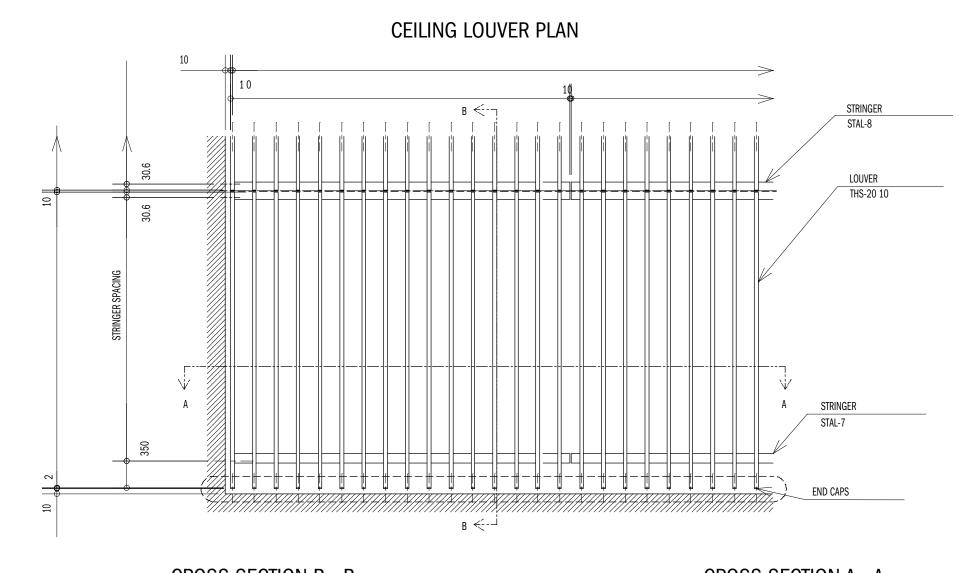
CROSS SECTION Y - Y



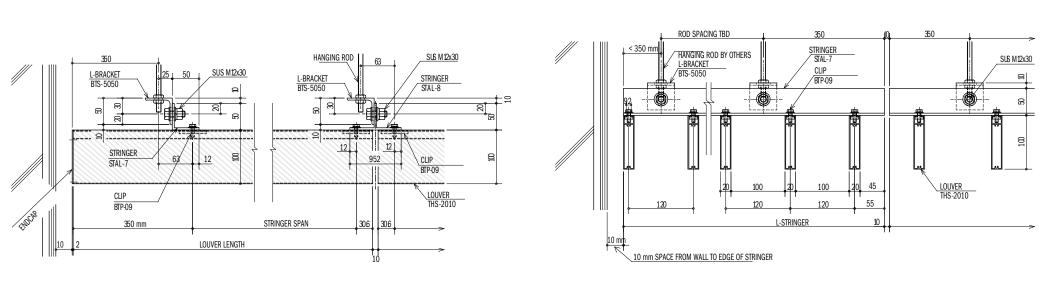
CROSS SECTION X - X



Interior Ceiling Installation With STCL Stringer



CROSS SECTION B - B



CROSS SECTION A - A

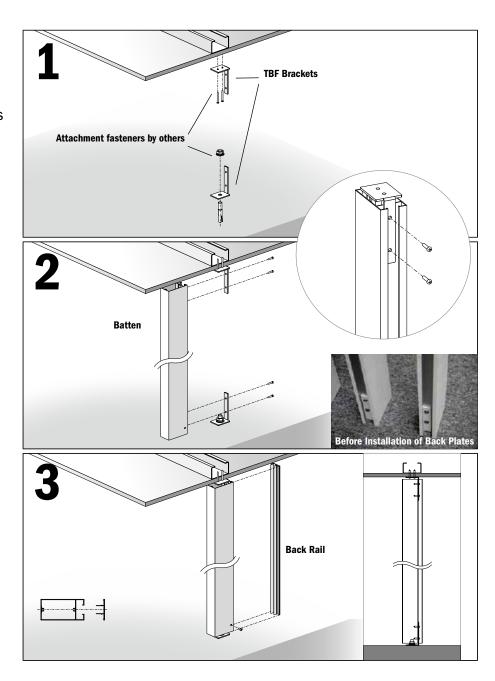
85

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800 350 4127

INSTALLATION INSTRUCTIONS

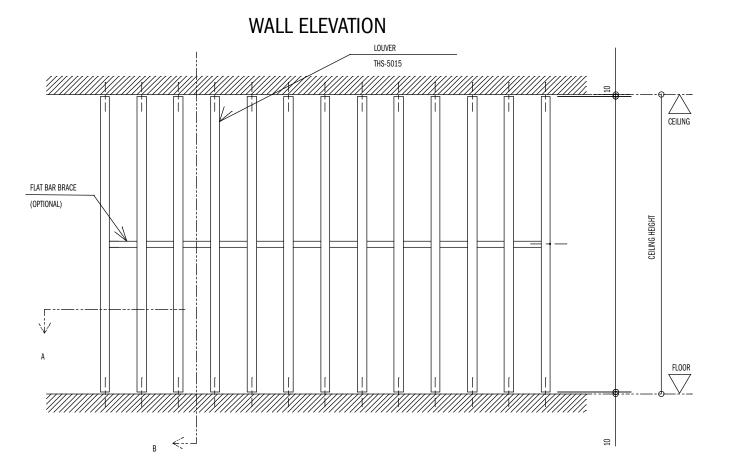
Fortina Battens > Floor To Ceiling > Interior/Exterior

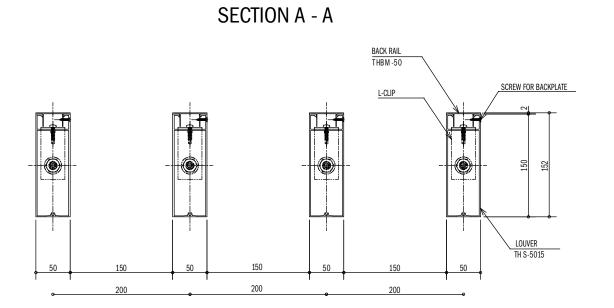
- 1. Mount L-Brackets to floor and ceiling structure.
- 2. Take Batten and slide open side into top and bottom brackets and attach with screws provided. (Batten may need to be cut for perfect fit).
- 3. Attach Back Rail to Battens and secure with screws provided.

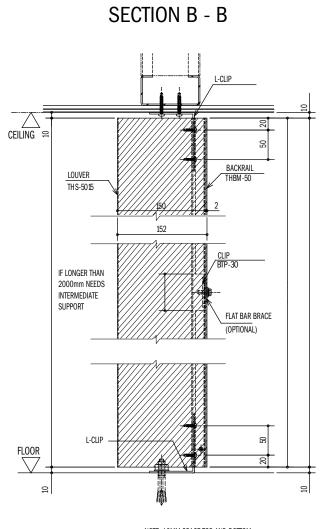


INSTALLATION INSTRUCTIONS

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



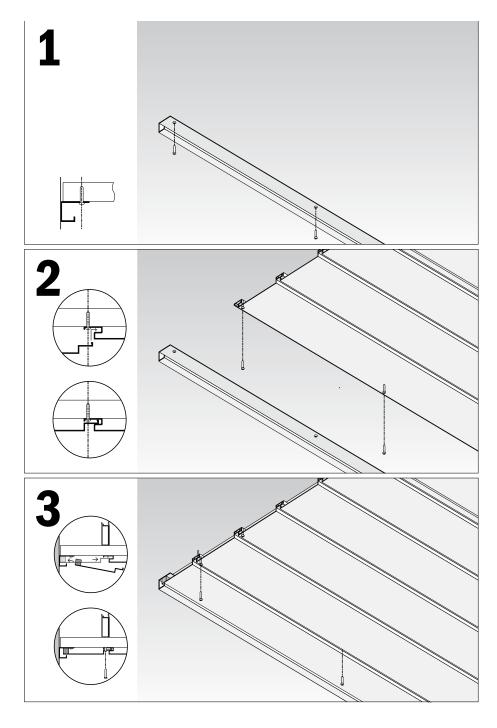




NOTE: 10MM SPACE TOP AND BOTTOM FOR L-CLIP THICKNESS.

Fortina Slats > Ceiling > Interior/Exterior

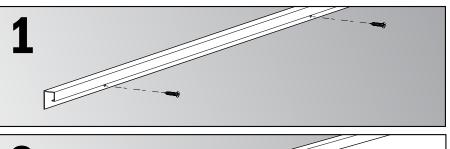
- 1. Install trim piece (if used) to one side of layout.
- 2. Starting from the other side, attach (tongue and groove)
 Slats to surface.

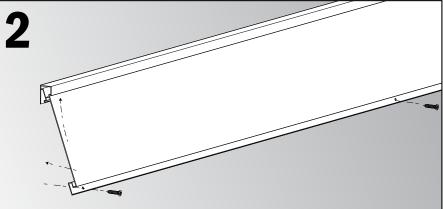


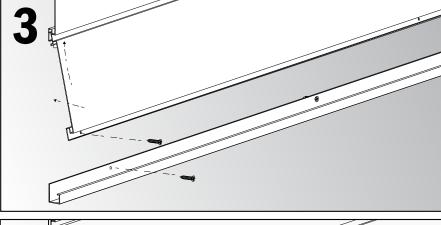
INSTALLATION INSTRUCTIONS

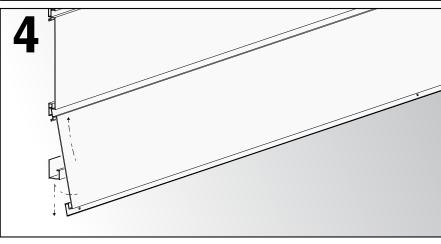
Fortina Slats > Wall > Interior/Exterior

- 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.









800 350 4127 89

FAQ

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 mm x + 40 mm + (3/4 x + 1/2 m) and the largest is $50 \text{mm} + x + 150 \text{mm} + 20 \text{m$

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.

TECHNICAL INFORMATION

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.

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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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Fortina MSDS > Interior

TECHNICAL INFORMATION

Fortina MSDS > Interior

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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

6. ACCIDENTAL RELEASE MEASURES

Not applicable.

7.	HANDRING AND STORAGE	
Har	ndling	

Wear protective gloves (cotton gloves, etc.) when

Wear protective glasses and dust protective mask when

cutting or fabricating.

Sufficiently ventilate the workplace. Provide dust

collectors.

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

STORAGE

Extinguishing media

[Personal protection]

Protective glasses

Protective clothes

Respiratory protective equipment

Equipment countermeasure Wear appropriate protective equipment (dust protective

mask, etc.) when performing work that generates dust.

Wear appropriate protective equipment (goggles,

full-surface shield, etc.) when performing work that

generates dust.

Wear appropriate protective equipment (synthetic rubber Protective gloves

gloves, arm covers, etc.).

Wear appropriate protective clothes when performing

work that generates dust.

9. PHYSICAL AND CHEMICAL PROPERETIES

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

To:B+N Industries.Inc.

Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

FORTINA (Interior Type) Product name Name of manufacturer Toppan Cosmo, Inc.

3-19-26 Shibaura, Minato-ku, Tokyo, Japan Address

Toppan Shibaura Building

Telephone No. 03-5418-3500

03-5418-3680 (Product Engineering Group, Product **Emergency contact** Manufacturing Department, Development Division)

Not applicable.

Fax No. 03-5418-3676

2. HAZARDS IDENTIFICATION

GHS classification Hazard statement

(1) Non-hazardous material and risk is low.

(2) Prolonged inhalation of dust generated by cutting may affect the respiratory organs.

Date: Feb. 13, 2015

Reference number: SBR-0284

(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.

Effect to environment None known.

3. COMPOSITION / INFORMATION ON 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 Not applicable since it is a mixture

Chemical formula or structural formula Reference Number in Gazetted List in Japan Not applicable because it is a mixture

Not applicable because it is a mixture

UN classification and UN number

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

IF SWALLOWED After vomiting, immediately get medical attention.

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Fortina MSDS > Interior

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℃. **Explosion limit** Upper limit: No data. Lower limit: No data. Combustibility Decorative surface layer: Combustible None known.

Ignitability (pyrophoricity, reactivity with water)

Oxidizability Contact with chemical substances, such as acid, may

generate harmful gas.

Autoreactivity, explosiveness None.

Dust explosiveness Lower explosive limit: 45g/m³

Decorative surface layer: Relatively weak against alkali Stability, reactivity

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. None known.

Sensitizing potential 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.

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

BNIND.COM 800 350 4127

TECHNICAL INFORMATION

Fortina MSDS > Interior

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

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Tourism, MFN-0717 F 公公公公

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.

Fortina MSDS > Exterior

TECHNICAL INFORMATION

Fortina MSDS > Exterior

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

To:

Property name:

Material Safety Data Sheet

1.	PRODUCT AND COMP	PANY IDENTIFICATION
	Product name	FORTINA: E

Exterior Type Name of manufacturer Toppan Cosmo, Inc.

Address

3-19-26 Shibaura, Minato-ku, Tokyo, Japan

Toppan Shibaura Building

Telephone No. 03-5418-3500

03-5418-3680 (Product Engineering Group, Product Emergency contact

Manufacturing Department, Development Division)

Fax No. 03-5418-3676

2. HAZARDS IDENTIFICATION

GHS classification Not applicable.

Hazard statement (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.

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 contents Aluminum, polyolefin resin, ink pigment, polyvinylidene

fluoride, methacrylic acid alkyl ester/acrylic acid alkyl

ester copolymer, etc.

Chemical formula or structural formula Not applicable because it is a mixture

Not applicable because it is a mixture Reference Number in Gazetted List in Japan

UN classification and UN number Not applicable because 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.

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

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. Extinguishing media Water spray, dry chemical, foam, carbon dioxide

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

Date: Jan. 21, 2015

Reference number: SBR-0281

cutting or fabricating.

Sufficiently ventilate the workplace. Provide dust

collectors.

Take care not to cut your hands on edges of the product. **STORAGE**

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]

[Personal protection] Equipment countermeasure

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. Not applicable Volatility Melting point Not applicable. Specific gravity 2.7 g/m^2 Not applicable. Initial boiling point Solubility in water Not applicable. Others Not applicable.

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Fortina MSDS > Exterior

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, reactivity with water) None known. None under normal handling conditions Oxidizability Flammability Toxic gas (hydrogen fluoride, carbon oxide, etc.) may be generated.

Autoreactivity, explosiveness None known.

Dust explosiveness Lower explosive limit: 45g/m³

Decorative surface layer: May react with strong oxidizers. Stability, reactivity

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

TECHNICAL INFORMATION

Fortina MSDS > Exterior

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

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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.

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Fortina Anodized Data > QuickShip

204-R1 Anodized Finishes

General Information

- Conventional sulfuric acid anodizing (MIL-8625 Type 2)
- Anodic coating thickness range is 0.4 mil to 0.7 mil (AAMA Class 2)
- Aluminum Association Designation is AA-M12C22A31
- M12 As Extruded (no mechanical finishing required)
- · C22 Medium Matte Etch (standard sodium hydroxide solution
- · A31 Anodic Coating Thickness ranges from 0.4 mil to 0.7 mil with natural color (nondyed)

Specification Compliance

- AAMA 611 Class 2 (Type A3)
- MIL-8625 Type 2 Class 1

Tests Conducted

- · Salt Spray per ASTM B117 tested monthly
- Anodic Coating Weight per ASTM B137 tested monthly
- Anodic Coating Thickness per ASTM B244 tested every load
- Anodic Seal Quality per ASTM B136 tested daily
- · Anodic Seal Quality per ASTM B680 & ISO 3210 tested twice a day with dye stain every load
- Bath parameters are tested and controlled using instruments or chemistries calibrated with NIST certified standards

TECHNICAL INFORMATION

Fortina Anodized Data > All Other

Surface Treatment: Anodized Coating Composite Film (Anodizing + Clear Coating)

The performance of the anodized coating composite film (equivalent to Type A1) is shown in the table below.

Category			Performance
Thickness of Anodized Coating (Average Film Thickness)			The thickness must be at least 5 μ m, and the film thickness at all measurement points must be no less than 80% of the average film thickness.
CASS Corrosion Resistance (120h)			RN 9.5 or higher
Coating Adhesion	Cross-Cut Test		25/25
	Boiling Water Cross-Cut Test	Boiling Water Test (5h)	Appearance: The coating must not exhibit wrinkles, cracks, blistering, or significant discoloration.
		Cross-Cut Test After Boiling Water Test	25/25
Coating Solvent Resistance			The decrease in pencil hardness of the coating before and after the test must be within one unit on the hardness scale.
Alkali Resistance (24h)			RN 9.5 or higher
Composite Corrosion Resistance	Dosite Corrosion Resistance UV Fluorescent Lamp Accelerated Weathering Test (240h)		RN 9 or higher
CASS Test (120h)			RN 9 or higher
Accelerated Weathering Resistance Xenon Lamp Accelerated Weathering Test			Appearance: Significant discoloration or chalking must not occur.
	4000h		Gloss Retention: 75% or higher
	Sunshine Carbon Arc Lamp Method		Appearance: Significant fading or chalking must not occur.
	3000h		Gloss Retention: 75% or higher

Both combined corrosion resistance and weather resistance performance requirements must be satisfied.

Weather resistance shall be evaluated using either the Xenon Lamp Accelerated Weathering Test or the Sunshine Carbon Arc Lamp Accelerated Weathering Test.

The combined corrosion resistance test shall be conducted by performing the CASS test after the UV fluorescent lamp accelerated weathering test.

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.

TECHNICAL INFORMATION

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.

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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

FORTINA ASTM E84 CLASS A PASSED CIRT R16045.01.024h

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CHEMISTRY AND CHEMICAL ENGINEERING DIVISION FIRE TECHNOLOGY DEPARTMENT WWW.FIRE.SWRI.ORG



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

Anthony L. Sauceda Group Leader Material Flammability Section

Director Fire Technology Department

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TECHNICAL INFORMATION

Fortina Fire Rating Documentation

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

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

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
A	0-25	0-450
В	26 – 75	0-450
C	76 – 200	0-450

SwRI Project No: 01.16045.01.024h Toppan Interamerica, Inc.

Fortina Fire Rating Documentation

Fortina Fire Rating Documentation

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

DESCRIPTION OF SPECIMEN

DATE RECEIVED: October 13, 2010 (received ready-to-test)

MATERIAL ID:* Fortina

TRADE NAME:* Toppan Fortina (TIA008)

DESCRIPTION:* Printed decorative foil laminated onto aluminum C-channel rails

COMPOSITION:* Poly-olefin foil laminated onto aluminum

THICKNESS: 1.58-in. O.D. square C-channel (nominal)

0.047-in. wall (nominal) *0.13-in. foil (nominal)

UNIT WEIGHT: 0.7 lbs per rail (nominal)

COLOR: Natura

SPECIMEN SIZE: One hundred eighty-two, 1.58-in. square C-channels × 20.5-in. long rails placed side by side, and end to end, down the length of

the chamber (flat wood grain decorative side to burner)

CONDITIONING TIME: 5 days at 70 °F and 50% relative humidity

WITNESSED BY: Messrs. Nickie Fukuyama and Trey Nakamura representing,

Toppan Interamerica, Inc.

Toppan Interamerica, Inc. 3 SwRI Project No: 01.16045.01.024h

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): 24.2 SMOKE AREA (%*Min): 12.8 FUEL AREA (°F*Min): 5059.3

OBSERVATIONS DURING TEST

IGNITION TIME (Min:Sec): 02:39 MAXIMUM FLAME FRONT ADVANCE (Ft.): 4.5 TIME TO MAXIMUM ADVANCE (Min:Sec): 6:18 MAXIMUM TEMP. AT EXPOSED TC (°F): 577 9:15 TIME TO MAXIMUM TEMP. (Min:Sec): TOTAL FUEL BURNED (Cu. Ft.): 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): None SHRINKAGE (Min:Sec): None FALLOUT (Min:Sec): None

CALIBRATION DATA

 RED OAK SMOKE AREA (%*Min):
 76.9

 RED OAK FUEL AREA (°F*Min):
 8376

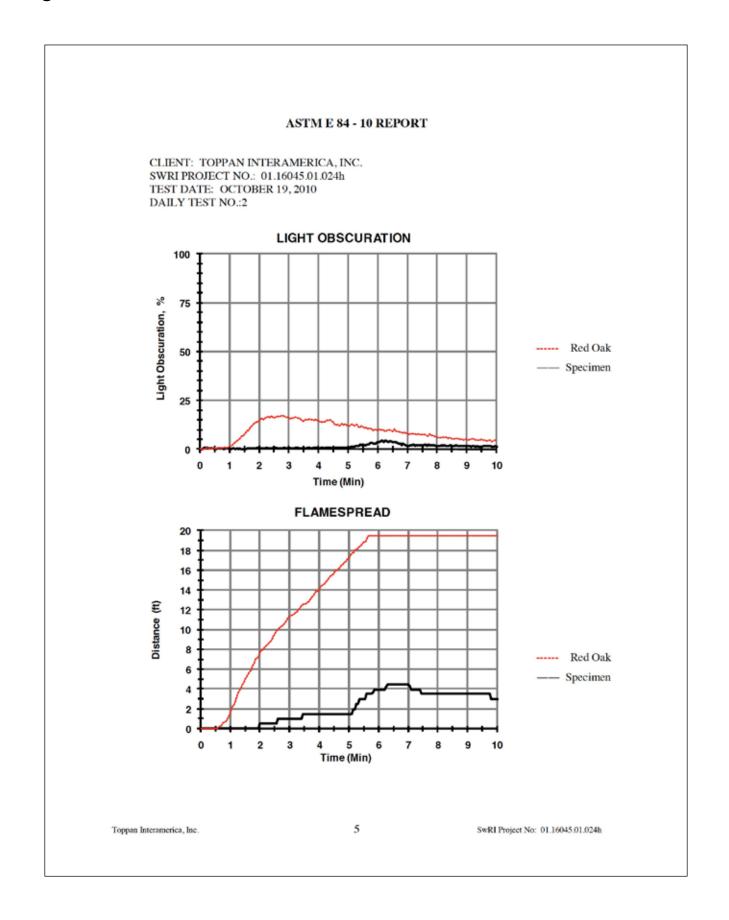
 GRC BOARD FUEL AREA (°F*Min):
 5407

Toppan Interamerica, Inc. 4 SwRI Project No: 01.16045.01.024h

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^{*} From Client's material description and/or instructions

Fortina Fire Rating Documentation



Fortina Performance Data > Exterior Film

Decorative Sheet Performance Data (Exterior Specification)

Evaluation Items		Test items	Test method		
1	Dimensional stability	Heat resistance test	Put a cross-cut measuring 100 mm x 100 mm at the center of a specimen, leave it at a temperature of 65°C for two days, and check the clearance at the cross-cut part.		
2	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.		
0		Long-term heat resistance	Leave the specimen in each oven for 1,000 hours and check	60°C	
3	Heat resistance	test	the appearance.	80°C	
4	Heat cycle resistance	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.	vo hours switched to	
5	Dry/wet cycle resistance	Dry/wet cycle test	Conduct 20 cycles, with each cycle consisting of 40°C and 30 switched to 40°C and 90%RH for 16 hours, and observe the ap		
6	Humidity resistance	Long-term humidity resistance test	Leave the specimen in a high humidity tank at a constant ten 90%RH and observe the appearance.	perature of 40°C and	
7	Scratch resistance	Pencil scratch resistance (based on JIS H8602)	Apply the core of the pencil to the specimen while applying a langle of about 45° and scratch the surface toward the front at a		
		Abrasion resistance test	Rotate the specimen 7,000 times with a taper abrasion teste 17; and load: 1 kg) and observe the appearance.	(abrasion wheel: C	
8	Abrasion resistance	Falling sand abrasion resistance test (based on JIS H8602)	Let a grinding material fall through a guiding tube of 20 mm i specimen at an angle of 45° at a falling rate of 320 g/min. and when the base material begins to be exposed and the abrasion	measure the time	
9	Low temperature impact 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.		
10		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	
	10	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	
11	Acid resistance	Acid resistance test	Immerse the specimen in a 1% sulfuric acid aqueous solution for one hour and observe the appearance.		
12	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.		
13	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.		
14	Adhesiveness	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.		
		Normal state adhesiveness test	Pull the sheet in a 180 degree direction at a rate of 200 mm/mi material under a normal room temperature and measure the ad		
15	15	Adhesive strength	Heat 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 60°C and measure the peeling distance 3	
		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		

Fortina Performance Data > Interior Film

Decorative Sheet Adhesion Performance Data (Interior Specification)

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°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	Heat-cold repeating test (based on JAS heat-cold repeating C test)	Put a specimen measuring 150 x 150 mm in an oven at a temperature of $60 \pm 3^{\circ}$ C, leave it there for two hours, and leave it in a low-temperature tank at - $20 \pm 3^{\circ}$ C for two hours. Repeat this for two cycles.
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.
		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	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.
		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)

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

Terms And Conditions

OUOTE 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.

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, 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 **SHIPMENT** 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 items for an on-site inspection by carrier. that were scheduled to ship but were delayed for customer 3. For damage on 3rd party or collect shipments, the 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 merchantability, or any other warranty of any kind, nature or 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 electronic payment options for customer returns which arrive damaged due to shipment transportation

2. Non-stock items purchased may not be returned. 3. 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, Due to uncertain Economic Nexus requirements sales 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.

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

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 B+N Industries, Inc. reserves the right to photograph a

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

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.

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. tax can be added to any order after a quote has been

1. Taxable orders paid for by the customer and will-called 5. Weights and measurements may change due to changes at our California facility are taxed at the current rate for San

PROTOTYPES, DRAWINGS, TOOLING, AND FIXTURES

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

2. 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. 3. 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

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

We support the quality of the Fortina product for 10

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.

vears. For more information, please visit our Warranty

800 350 4127 115 114 BNIND.COM

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