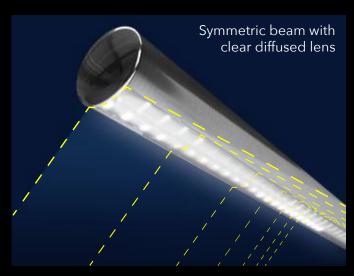
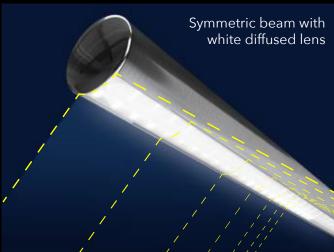


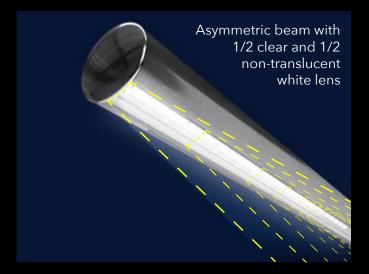
Stainless Steel Systems 3

eti-s3.com • 866-356-4458

MATERIAL, POWER, & LIGHTING OPTIONS







LENS OPTIONS:

- Clear w/ Prismatic Diffusers
- Opal w/ White Diffusers
- Clear w/ No Diffusion (Asymmetric)
- Clear (Dot System)

LIGHTING DISTRIBUTION:

• Symmetric or Asymmetric

LIGHTING LEVELS:

LINEAR

- High Output 3.87W / 443Im per ft.
- Medium Output
 2.77W / 334lm per ft.
- Low Output 1.34W / 173lm per ft.



THE PRODUCTS IN THIS
CATALOG ARE TESTED AND HAVE
BEEN FOUND TO CONFORM TO
THE APPROPRIATE ULSTANDARDS
FOR SAFFTY

SOLAVANTI LIGHTING &
EFFICIENT-TEC INTERNATIONAL
UTILIZES THE TESTING AND
CERTIFICATION SERVICE OF ETL,
A NATIONALLY RECOGNIZED
TESTING LABORATORY.

DOT SYSTEM

- 120lm each
- 100lm/W

COLORS:

LINEAR

- Warm White 2700K CCT
- Warm White 3000K CCT
- Linear White 4000K CCT
- RGBW
- Amber

DOT SYSTEM

- Warm White 2700K CCT
- Warm White 3000K CCT
- White 4000K CCT

GENERAL OPTIONS:

Illuminated LEDRail®

- Non-Illuminated
- Curved
- Spiral

HANDRAIL OPTIONS:

- 1.67" O.D. Stainless Steel (1-¼" Pipe)
- 1.90" O.D. Stainless Steel (1-1/2" Pipe)
- 1.50" Square Stainless Steel
- 1.66" O.D. Aluminum (1-1/4" Pipe)
- 1.90" O.D. Aluminum (1-1/2" Pipe)

FINISH OPTIONS:

316 STAINLESS STEEL

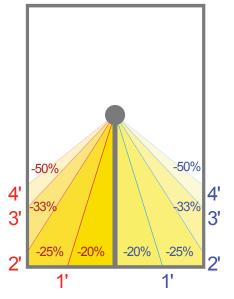
- w/ #6 (320 grit) Satin Finish
- w/ #8 High Polish Finish

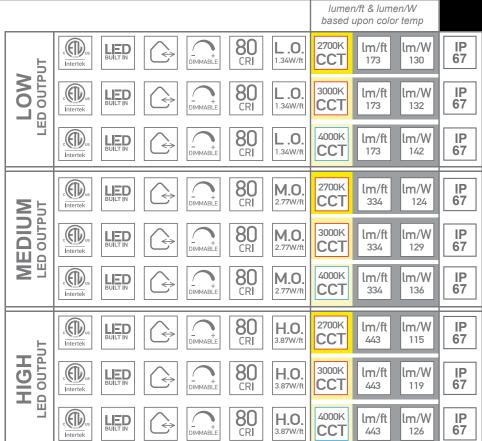
ALUMINUM W/ POWDER COAT

- RAL Color
- Custom Colors
- Anodized Effects
- Simulated Wood Grain

LIGHTING OUTPUT OPTIONS

Handrail Linearflex®





Handrail Dot®







on/off 0-10V

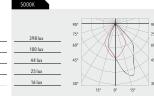
316 SS Housing PC Lens Ta -20°C min -4°F Ta +50°C max +122°F

Power	1.5 W (500mA)				
Color temperatures	2700K	3000К	4000K	5000K	
Lumens output	60° - 114 lm 120° - 120 lm 90°(asymmetric) - 108 lm	60° - 120 lm 120° - 126 lm 90°(asymmetric) - 114 lm	60° - 136 lm 120° - 143 lm 90°(asymmetric) - 129 lm	60° - 136 lm 120° - 143 lm 90°(asymmetric)- 129 lm	
Luminaire efficiency	72 to 80 lm/W	76 to 84 lm/W	86 to 96 lm/W	86 to 96 lm/W	
Measures / Weight	.58 in x .59 in / .22 lb				



		13 0 13
120°	3000K	
Diameter		90°
3.90ft	227 lux	75°
7.81 ft	57 lux	60°
11.71 f t	25 lux	45°
15.62 f t	14 lux	KY++X
19.52 f t	9 lux	30° 30° 15°
	3.90ft 7.81ft 11.71ft	Diameter 3:90ft 227 lux 7:81 ft 57 lux 11.71 ft 25 lux 15:62 ft 14 lux

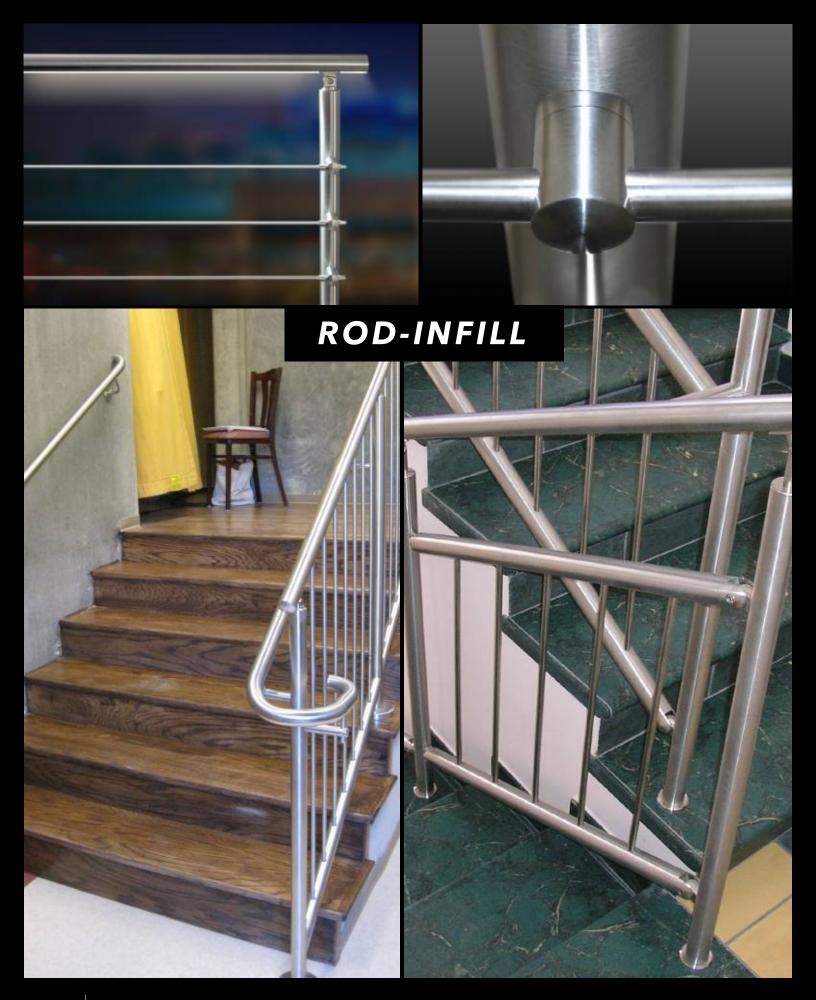








1,5 m



ROD-INFILL DESIGNS

HORIZONTAL ROD DESIGN MODEL NAME: ALANE

VERTICAL INLINE PICKET DESIGN

MODEL NAME:

MARIDA



APPLICATION:

FREE-STANDING

- Embed Mount
- Flange Mount
- Fascia Mount
 - Base Plate

IP RATING:

IP67

MATERIALS:

POSTS:

- 316 Stainless Steel
- 6061 Aluminum

HANDRAIL:

- 316 Stainless Steel
- 6061 Aluminum (non-illuminated)
- 6063 Aluminum (illuminated)

CAP RAIL:

- 316 Stainless Steel
- 6061 Aluminum (non-illuminated)
- 6063 Aluminum (illuminated)

ALANE HORIZONTAL RODS:

• 12mm or 14mm Horizontal 316 Stainless Steel

MARIDA VERTICAL RODS:

 12mm or 14mm Vertical 6061Aluminum or 316 Stainless Steel Rods

ALANE

This horizontal rail application is accented by multiple 3/8" to 9/16" thickness horizontal solid rods as the infill between posts.

It is available for illuminated and non-illuminated applications. A variety of mounting options can be used including embed, fascia, and base plates.

This design comes in stainless steel alloy 316 standard, as well as aluminum.

A number of finishes can be accommodated to fit the style of your needs.

MARIDA

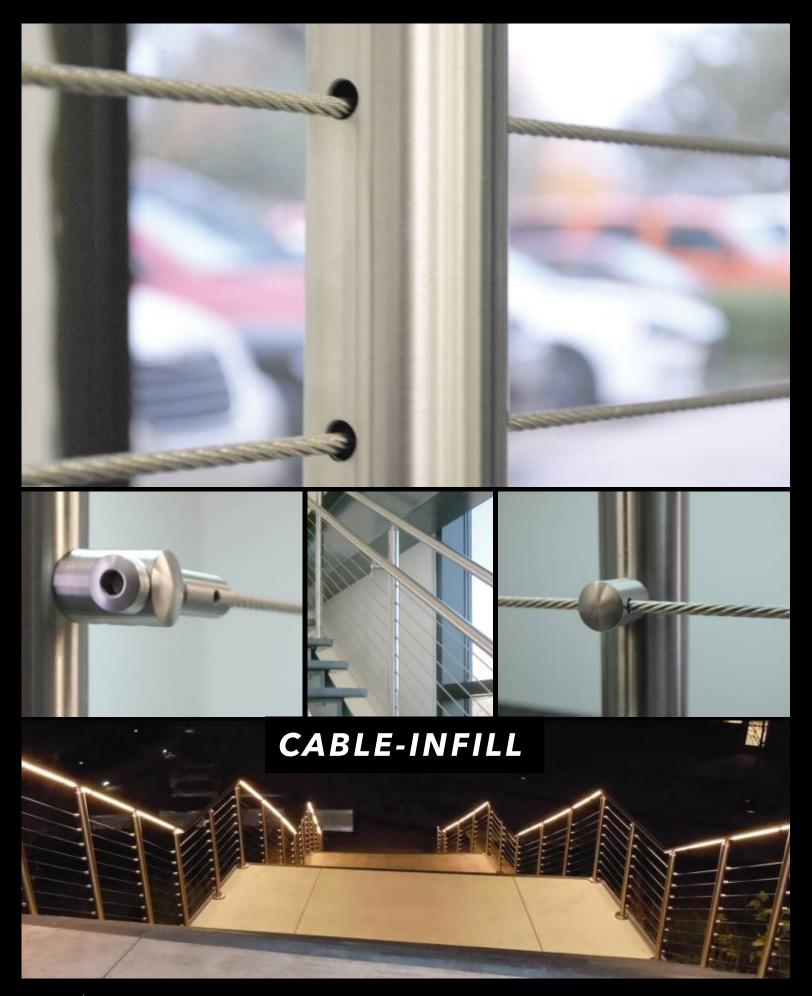
This design incorporates multiple vertical rods as

infill between posts, creating the classic picket appearance. Infill is available in 3/8" to 9/16" thickness, and in solid or hollow material.

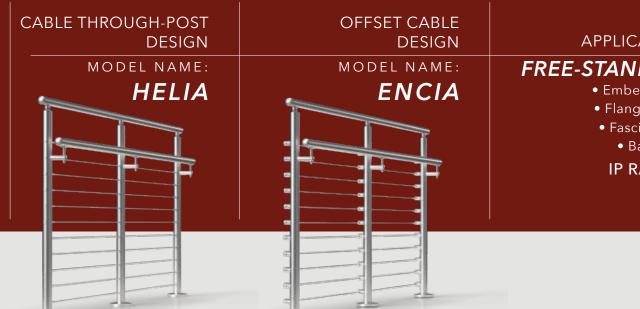
It is available for illuminated and non-illuminated applications. A variety of mounting options can be used including embed, fascia, and base plates.

This design comes in stainless steel alloy 316 standard, as well as aluminum.

A number of finishes can be accommodated to fit the style of your needs.



CABLE-INFILL DESIGNS



APPLICATION:

FREE-STANDING

- Embed Mount
- Flange Mount
- Fascia Mount
 - Base Plate

IP RATING:

IP67

MATERIALS:

POSTS:

- 316 Stainless Steel
- 6061 Aluminum

HANDRAIL:

- 316 Stainless Steel
- 6061 Aluminum (non-illuminated)
- 6063 Aluminum (illuminated)

CAP RAIL:

- 316 Stainless Steel
- 6061 Aluminum (non-illuminated)
- 6063 Aluminum (illuminated)

CABLE:

• 316 Stainless Steel Cable 3/16", 1×19 In-Fill

HELIA

This is the classic standard of a through-the-post cabling system incorporating a discreetly located cable tensioner inside the end posts.

It is available for illuminated and non-illuminated applications. A variety of mounting options can be used, including embed, fascia, and base plates.

This design comes in stainless steel alloy 316 standard, as well as aluminum.

A number of finishes can be accommodated to fit the style of your needs.

ENCIA

This popular model puts a twist on the standard cabling system by offsetting the cable to the posts by using individual holders at each post for each cable.

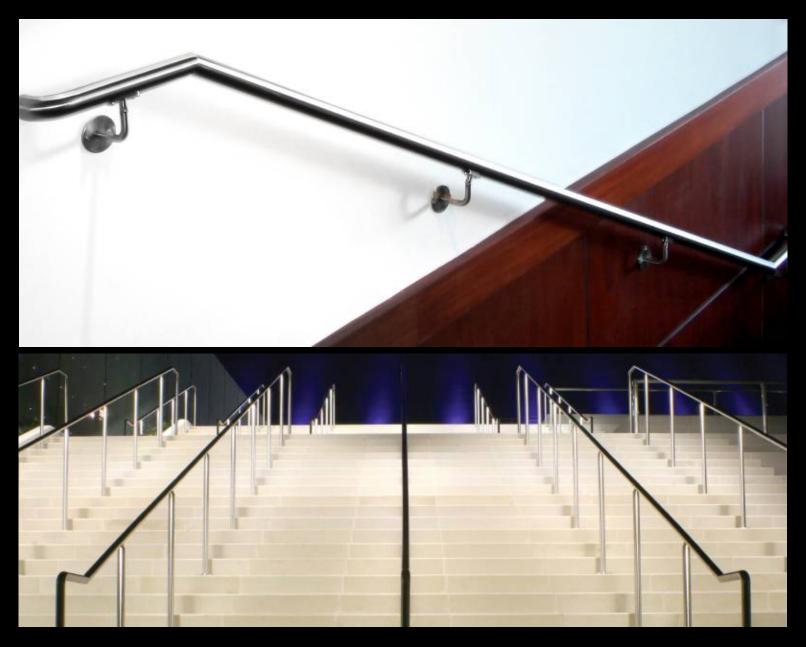
This is a very modern and technical design with surface mounted machined hardware. It is available for illuminated and non-illuminated applications.

A variety of mounting options can be used, including embed, fascia, and base plates.

This design comes in stainless steel alloy 316 standard, as well as aluminum. A number of finishes can be accommodated to fit the style of your needs.



NO-INFILL



NO-INFILL DESIGNS



APPLICATION:

WALL-MOUNT / FREE-STANDING

- Embed Mount (Anda)
- Flange Mount (Anda)
- Fascia Mount (Anda)
- Wall Mount (Myris)
- Glass Mount (Myris)

IP RATING:

IP67

MATERIALS:

POSTS (Anda):

- 316 Stainless Steel
- 6061 Aluminum

HANDRAIL:

- 316 Stainless Steel
- 6061 Aluminum (non-illuminated)
- 6063 Aluminum (illuminated)

CAP RAIL:

- 316 Stainless Steel
- 6061 Aluminum (non-illuminated)
- 6063 Aluminum (illuminated)

MYRIS

This is the Efficient-Tec torchbearer as our original design. It uses a simple yet elegant look to use in any wall mount handrail application.

Available for illuminated and non-illuminated applications, this design comes in stainless steel alloy 316 standard, as well as aluminum.

A number of finishes can be accommodated to fit the style of your needs.

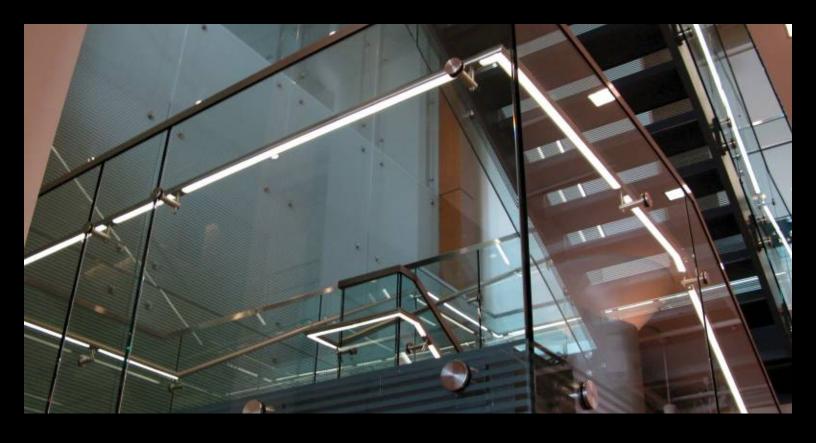
ANDA

This popular free-standing, one-line rail design incorporates a sleek and contemporary look with no infill between posts.

It is available for illuminated and non-illuminated applications. A variety of mounting options can be used including embed, fascia, and base plates.

This design comes in stainless steel alloy 316 standard, as well as aluminum.

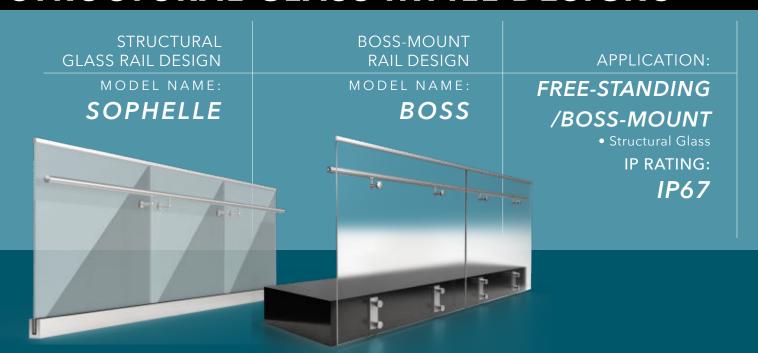
A number of finishes can be accommodated to fit the style of your needs.



STRUCTURAL GLASS INFILL



STRUCTURAL GLASS INFILL DESIGNS



MATERIALS:

POSTS:

- 316 Stainless Steel
- 6061 Aluminum

HANDRAIL:

- 316 Stainless Steel
- 6061 Aluminum (non-illuminated)
- 6063 Aluminum (illuminated)

CAP RAIL:

- 316 Stainless Steel
- 6061 Aluminum (non-illuminated)
- 6063 Aluminum (illuminated)

GLASS (Boss):

• Sania Inline Button Retainer 1/2" or 3/4" Tempered Glass

GLASS (Sophelle):

Felle Standard 1/2" or 3/8"
 Tempered Glass

SOPHELLE

Structural glass is all the rage, and this system is the most unique on the market.

It is available for illuminated and non-illuminated applications. Fascia, surface, and embed are available for mounting options. Optional handrail can be used.

This design comes in stainless steel alloy 316 standard, as well as aluminum.

A number of finishes can be accommodated to fit the style of your needs. Glass can be etched with a company logo as well.

When incorporating etched glass logos and bottom lighting, nothing is as spectacular to the eye as this system.

BOSS

The most effective way mount structural glass to a stair stringer is the BOSS Rail system.

Mounting buttons come in a variety of sizes for any thickness of glass. Optional glass mount handrail is available for this model.

It is available for illuminated and non-illuminated applications for the optional handrail. This design comes in stainless steel alloy 316 standard, as well as aluminum.

A number of finishes can be accommodated to fit the style of your needs. Glass can be etched with a company logo as well.



GLASS PANEL INFILL





GLASS PANEL INFILL DESIGNS (Retainer or Clamp)

GLASS CLAMP FITTING DESIGN RETAINER DESIGN

MODEL NAME: MODEL NAME: MODEL NAME: FR

FELLE SANIA STRIA

APPLICATION:

FREE-STANDING

- Embed Mount
- Fascia Mount
 - Base Plate

IP RATING:

IP67

MATERIALS:

POSTS:

- 316 Stainless Steel
- 6061 Aluminum

HANDRAIL:

- 316 Stainless Steel
- 6061 Aluminum (non-illuminated)
- 6063 Aluminum (illuminated)

CAP RAIL:

- 316 Stainless Steel
- 6061 Aluminum (non-illuminated)
- 6063 Aluminum (illuminated)

GLASS (Felle):

• Felle Standard 1/2" or 3/8" Tempered Glass

GLASS (Sania):

 Sania Inline Button Retainer 1/2" or 3/4" Tempered Glass

GLASS (Stria):

 Stria Inline Button Retainer 1/2" or 3/4" Tempered Glass

FELLE

This is the classic standard of in line glass clamp design to hold the glass infill panels in .375" or .500" thickness.

It is available for illuminated and non-illuminated applications. A variety of mounting options can be used including embed, fascia, and base plates.

This design comes in stainless steel alloy 316 standard, as well as aluminum.

A number of finishes can be accommodated to fit the style of your needs. Glass can be etched with a company logo as well.

SANIA

This inline retainer design is used with glass infill panels .375" or .500 thickness. The button mounts are attached to the center of the posts, creating an offset glass infill.

It is available for illuminated and non-illuminated applications. A variety of mounting options can be used including embed, fascia, and base plates.

This design comes in stainless steel alloy 316 standard, as well as aluminum.

A number of finishes can be accommodated to fit the style of your needs.

STRIA

This dual retainer design is used with in-line glass infill panels .375" or .500 thickness.

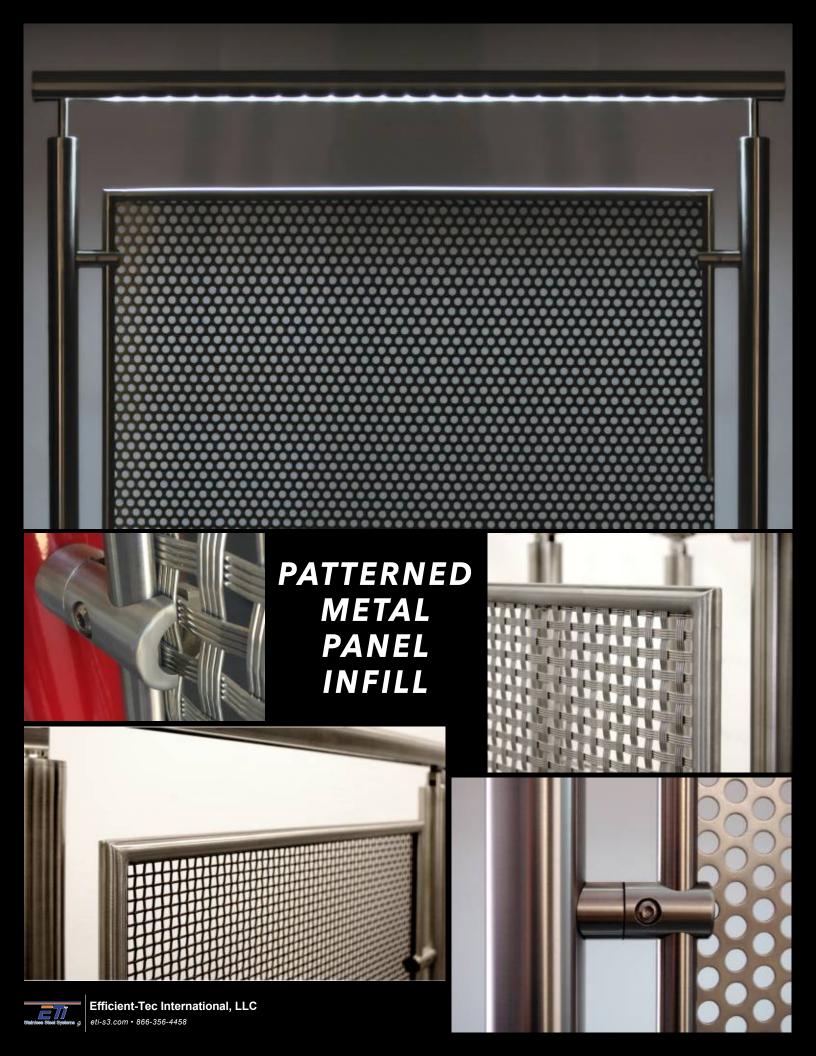
The button mounts are attached to the center of the posts and offset, creating a center mounted glass infill. It is available for illuminated, additional edge illumination, and non-illuminated applications.

A variety of mounting options can be used including embed, fascia, and base plates.

This design comes in stainless steel alloy 316 standard, as well as aluminum.

A number of finishes can be accommodated to fit the style of your needs. Glass can be etched with a company logo as well.





PATTERNED METAL PANEL INFILL DESIGNS



MATERIALS:

POSTS:

- 316 Stainless Steel
- 6061 Aluminum

HANDRAIL:

- 316 Stainless Steel
- 6061 Aluminum (non-illuminated)
- 6063 Aluminum (illuminated)

CAP RAIL:

- 316 Stainless Steel
- 6061 Aluminum (non-illuminated)
- 6063 Aluminum (illuminated)

PANEL:

- Specified Pattern Perforated Panel
- Specified Pattern Mesh Panel

ZARIA

This design uses metal infill panels between posts. Hundreds of panel designs are available, from perforated metals to metal meshes and weaves.

It is available for illuminated and non-illuminated applications. A variety of mounting options can be used including embed, fascia, and base plates.

This design comes in stainless steel alloy 316 standard, as well as aluminum.

A number of finishes can be accommodated to fit the style of your needs.

Efficient-Tec International, LLC offers a complete handrail solution for your code compliant projects.

ETIs S3 (stainless steel systems) handrail solutions can meet any requirement, either from our standard line of products or with modication from the in house engineering and fabricating staff.

Your solutions are all here whether using our LED illuminated handrail (*LEDRail*TM), standard guardrail, stairway handrail or spiral staircase handrail.

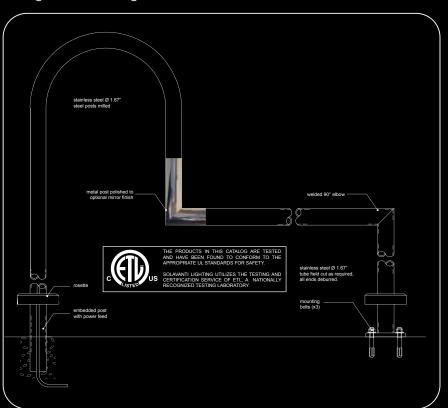
The choices for project compliments are expanded with our standard steel rod, cable or glass guardrail infills.

Our product line gives architects, designer and specifiers multiple options in fittings, mountings and decorative elements that will deliver the quality product demanded by ETI clientele.

We look forward to assisting your next handrail solution!

Sincerely,

Efficient-Tec International, LLC S3 Handrail Systems



Handrail Code Compliance

S3 handrails are always built to **ADA**, IBC and IRC codes but can be specified according to any of the listed bulding standards.



BOCA

Building
Officials Code
Administration

ICC

R
C
International
Residence Code 2012

IBCO
International
Conference of
Building Officials

SBCCI
Southern Building
Code Congress

Incorporating S3 handrail into your project:

When requesting a quotation or specifying our handrail products, please provide as much information as possible in order to insure a more accurate specification and quotation. Fully dimensioned plan view and elevation view drawings are requested in order to fully understand the scope of the project.

Upon acceptance of the order, we will prepare detailed approval drawings for field verification and acceptance by the customer.

Once the drawings are verified for accuracy and approved with a customer signature, we will begin the manufacturing process.

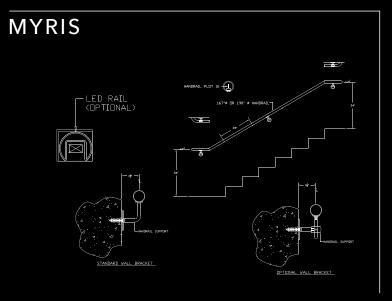
Handrails and Guardrails

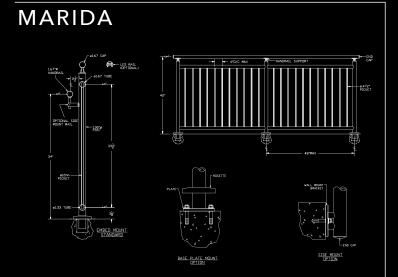
- Handrails provide guidance
- Guardrails prevent accidental falls

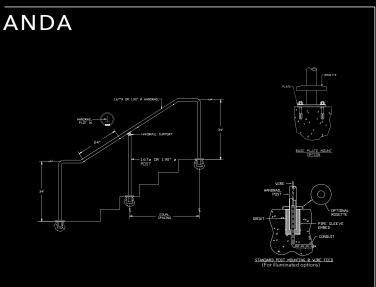
Handrails are located 34"- 38" above stair nosings or ramps.

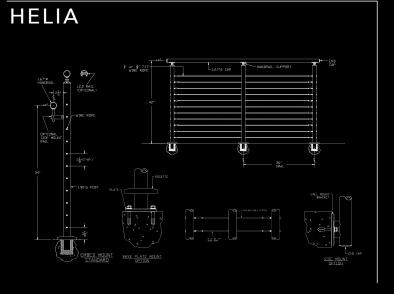
Guardrails are generally required for ramps, stairs, or landings that are elevated more than 30° off the ground. The guardrail heights will vary depending upon local code, but typically are a minimum of 42° in height above the ramp, stair, or landing finished floor surface.

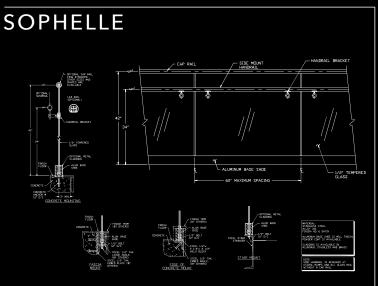
DESIGN DRAWINGS











DESIGN DRAWINGS

