

# NAKA Products Catalogue

Architectural Materials & Universal Design



 **ナカ工業株式会社**

NAKA CORPORATION

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## Corporate Introduction



### Over 80 Years of Quality

Naka Corporation founded in 1932 in Sapporo City, Hokkaido, Japan.

In the following over eighty years, Naka Corporation exploited high-end products in order to fulfill and satisfy customers' desires. With continuously improvement and innovation on products, Naka established its leading status in the industry.

In 2007, Naka Zhuhai Corporation was set up in Zhuhai, China, thereby providing its high quality products for the Asian and further global markets.

Henceforth, with best endeavors and its reputation and esteem, Naka targets a thriving entrepreneurial achievement and becoming a century enterprise.

## Product Lineup

### □ Ceiling Access Hatch

- Hi Hatch AS Type
- Hi Hatch MM II Type
- Hi Hatch NT Type



P.3~6

### □ Stair Nosing Hi Step

- Hi Step Slim CK, Hi Step Slim
- Hi Step Art
- Hi Step Lumi
- Hi Step Luna



P.7~16

### □ Handrail System

- Grahan / Gra Wood
- Neo Wood
- Vini Lane
- Vini Lane Stella



P.17~28

### □ Assist Handrail Unit Ai-No-Te

- Ai No Te Oval II



P.29~34

### □ Wall Guard System

- Safety Line
- Safety Line Soft
- Safety Corner

ASTM E-84  
Class A



P.35~42

### □ Corner Guard / Car Stopper



P.43~44

### □ Raised Floor System

- AC3000-DK / AC5000-DK



P.45~46

Slim Line on a Single Frame.

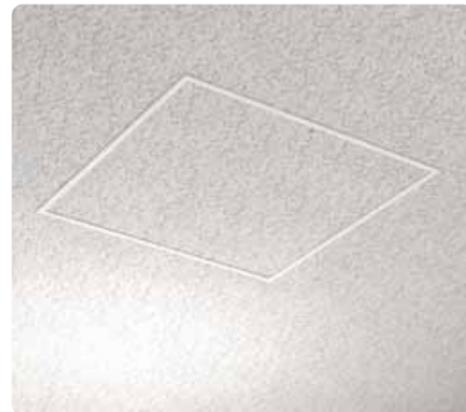
Features ceiling access hatch with energy-saving effect based on simple airtight design.



# Hi hatch AS type

Hi hatch AS type

A white ceiling access hatch that matches with ceiling finishing materials. 10mm wide rounded frame projecting a soft image. The single joint heightens the design effect. Fits simply and elegantly into ceilings with its low-key design. The outer and inner frames are installed individually, catering for easier installation, repair and finishing work. Energy-saving design features airtight gasket sealing.



Choice of two standard sizes: 450 x 450 mm and 600 x 600 mm. (300 x 300 mm is available upon request)  
The standard colour is white, but it can also be provided in anodised silver colour.

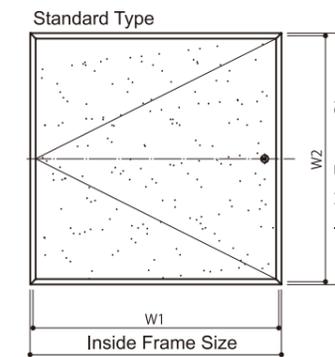
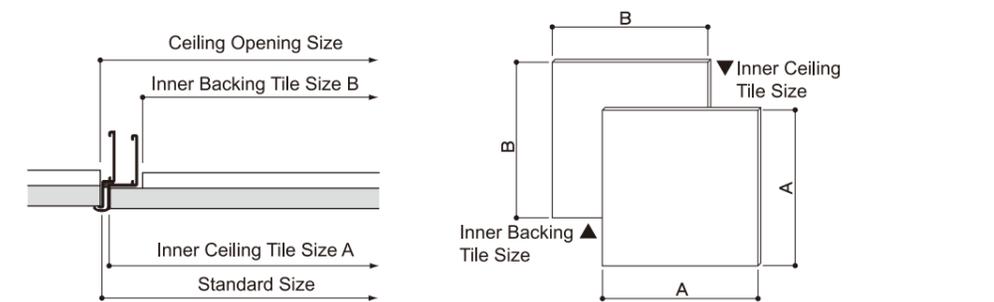


## Specifications

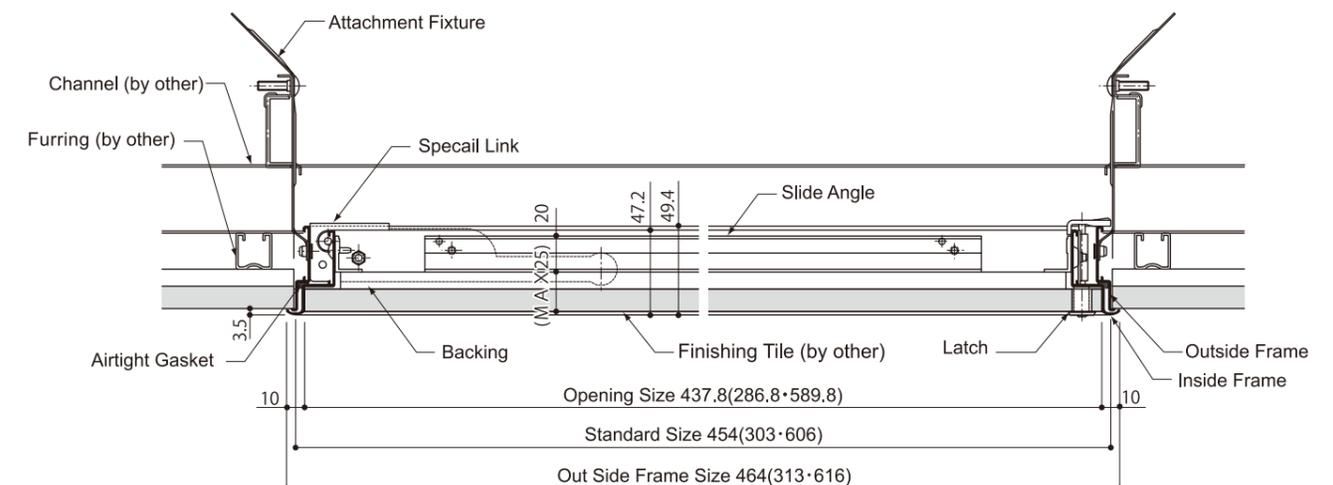
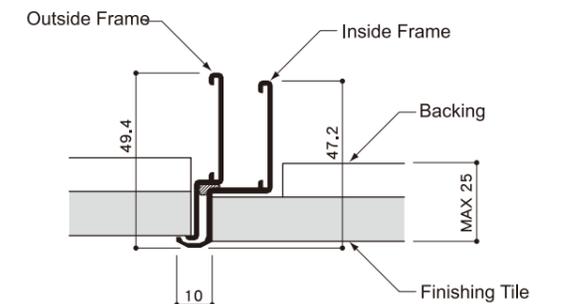
Outer frame, inner frame / Extruded aluminium (A6063S-T5) Baked colour-coated finishing (Anodised finish in silver colour)  
Slide angle/ Extruded aluminium (A6063S-T5) Anodised finish  
Installation fixtures / Steel

## Details

SIZE	TYPE	SIZE (mm)	
		HHAS-454	HHAS-606
Standard Size		454 × 454	606 × 606
Ceiling Opening Size		456 × 456	608 × 608
Inner Ceiling Tile Size A		444 × 444	596 × 596
Inner Backing Tile Size B		408 × 408	560 × 560



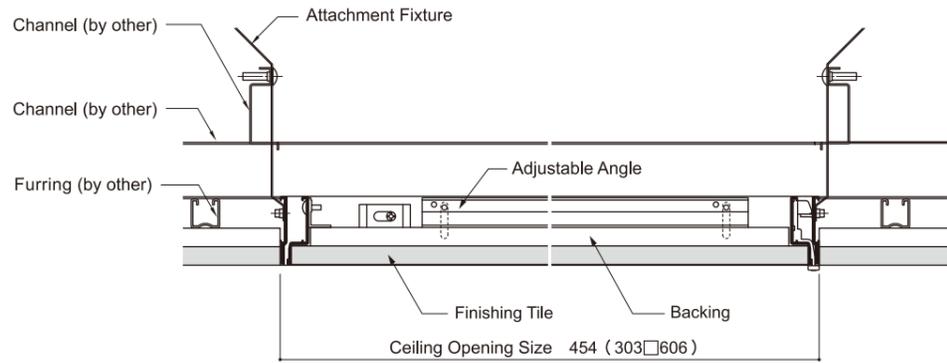
Key Lock type is available



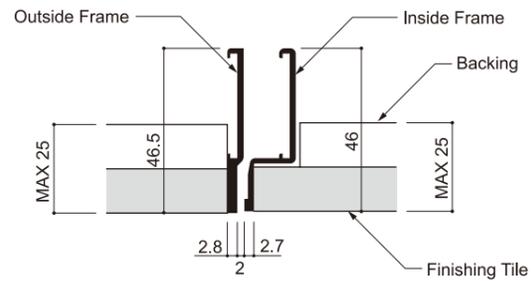


Hi-Hatch is valued highly suitable for Public Facility  
Certificate No. 971-02600507

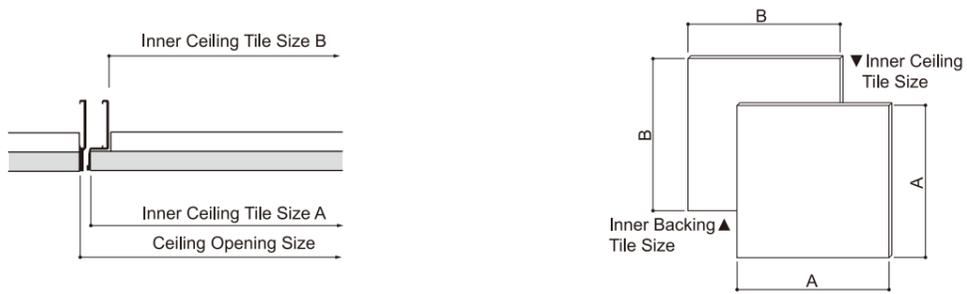
SECTION DETAIL S=1:5



DETAIL



MESUREMENT DETAIL



▲ Standard Slide Lock

▲ Key Lock

SPECIFICATION

Inside Frame / Outside Frame /  
Adjustable Angle  
Extruded Aluminium with  
Anodised Finish (A6063S-T5)

White Colour Anodised Finish

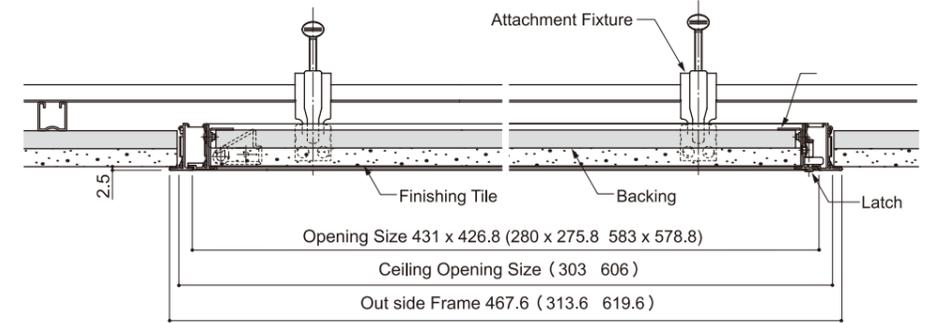


Colour : Ivory White  
Size : 454 Only  
Model Name : HHMMII454W

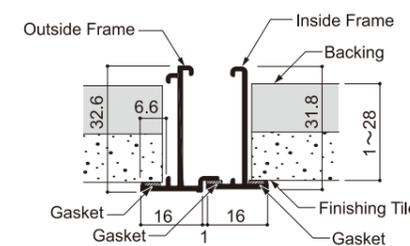
SIZE	TYPE	Size (mm)			
		HHMM II -303 (HHMMII-K303)	HHMM II -3060 (HHMMII-K3060)	HHMM II -454 (HHMMII-K454)	HHMM II -606 (HHMMII-K606)
Standard Size		303×303	303×606	454×454	606×606
Ceiling Opening Size		303×303	303×606	454×454	606×606
Inner Ceiling Tile Size A		288×288	288×591	439×439	591×591
Inner Ceiling Tile Size B		262×262	262×565	413×413	565×565

● ( ) for Key Lock Model

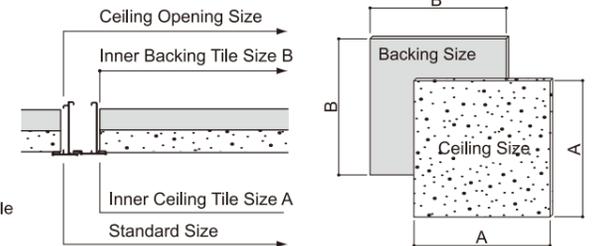
SECTION DETAIL



DETAIL



MESUREMENT DETAIL



▲ Standard Lock

▲ Key Lock

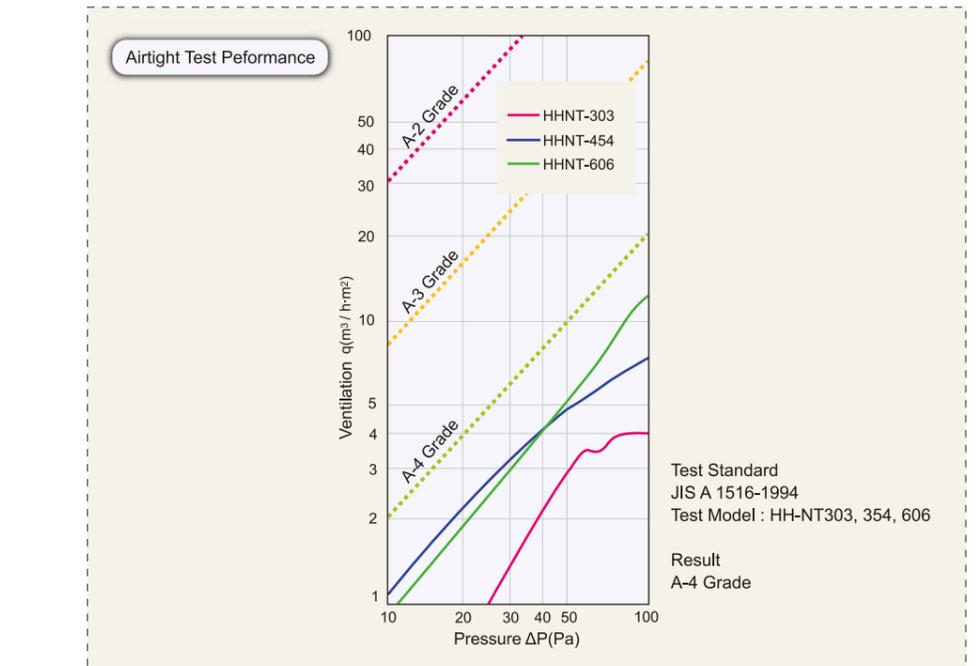
SPECIFICATION

Inside Frame / Outside Frame /  
Extruded Aluminium with  
Anodised Finish (A6063S-T5)

White Colour Anodised Finish



Size : 303, 454, 606  
Model Name : HHNT-303W,  
454W, 606W

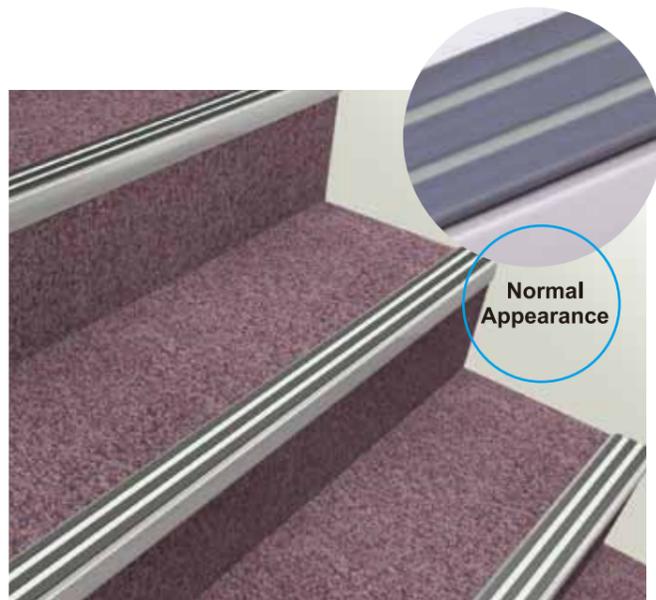


SIZE	TYPE	Size (mm)		
		HHNT-303 (HHNT-K303)	HHNT-454 (HHNT-K454)	HHNT-606 (HHNT-K606)
Standard Size		303×303	454×454	606×606
Ceiling Opening Size		305×305	456×456	608×608
Inner Ceiling Tile Size A		258×258	409×409	561×561
Inner Ceiling Tile Size B		258×258	409×409	561×561

● ( ) for Key Lock Model

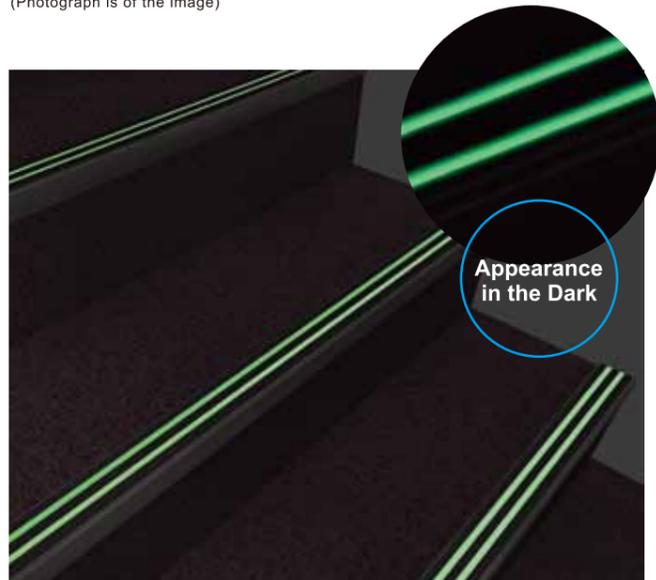
In the 911 event, the terror attack in the United States in 2001, all the stairway lights in the World Trade Center went out of control before collapsed. However many people were able to escape from the building by following the staircase. How could they escape in the dark? It was because the staircases were painted by luminescent materials. So as in Japan, "luminescent materials" is getting more important to take into consideration under emergency or contingency planning.

Hi step SLIM CK is a new developed soft resin with luminescent materials added to provide long lasting luminescence. Hi step SLIM CK significantly increases visual capability in the dark. It enhances traditional staircase's performance that enables a safe and smooth escape.



Normal Appearance

(Photograph is of the image)



Appearance in the Dark

(Photograph is of the image)

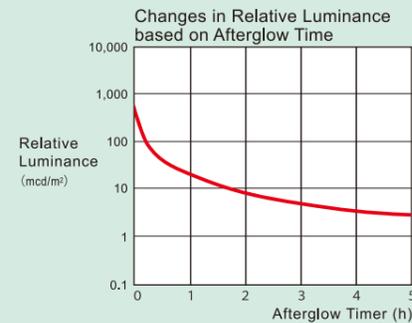
## Features

HiStep SLIM CK bands luminescent into tile grooves for producing luminescence by storing light. The luminescent can obtain energy indoor by irradiation of a fluorescent light bulb (200/x) for 20 minutes. Its level or more even in dim places of around 30x can meet with JIS standard

### Visibility Data

Afterglow luminance ※1	17~21mcd (millicandles/m <sup>2</sup> )		
Afterglow luminance period ※2	Luminance level	3mcd/m <sup>2</sup>	5 hrs. or more

※1 Cut off light for 24 hrs., then irradiate with 200 lx (lux) of light for 20 minutes. The luminance of the luminance band after 60 minutes have passed.  
 ※2 The time required to reach the luminance shown in the table after irradiating with light under the above conditions. In our company's judgement, the minimum luminance required for conducting a safe escape is 3mcd/m<sup>2</sup>.



### Regarding Luminance and Brightness Level

Luminance mcd/m <sup>2</sup>	Sensation of Brightness in the Dark
5 or above	Extremely bright, objects are clearly discernible
3	Outlines of objects are discernible.
2	Dim and blurred, objects can be roughly discerned.
1 or below	Objects are barely discernible.

### On the JIS Standard for Luminous Safety Signboards

The JIS Standard (JIS Z9107 Afterglow Luminance on Luminous Safety Signboards), stipulates that the afterglow luminance should be 7mcd/m<sup>2</sup> after 60 minutes.

With Hi step SLIM CK the performance level is reported to be more than double that of the above standard.

	For PVC TILE	For CARPET TILE
Stainless Steel Metal Base	<p>NSP-35CK/NSP-40CK</p>	<p>NSC-40CK</p>
	R-Bend	R-Bend
Aluminium Metal Base	<p>NAP-40CK</p>	<p>NAC-40CK</p>
	R-Bend	R-Bend
Brass	<p>NBP-40CK</p>	<p>NBC-40CK</p>
	R-Bend	R-Bend

### Specifications

Metal Base / Stainless Steel: SUS304 Hairline finish

Aluminium: Extruded Aluminium A-6063S-T5 Anodised finish

Brass: Extruded Brass C3604BE Buff Finish

Vinyl Tiles / Extruded PVC contain Non Elastic Material

Luminance Band: Luminance soft PVC

Note) Luminance colour is one colour (Light Green) only for any colour of PVC tile.

※ Regarding the Symbol

R-Bend

Indicates that R processing is possible

## COLOR VARIATION

- 02 Grey ★
- 03 Dark Grey ★
- 04 Soft Black ★
- 12 Light Beige ★
- 13 Beige ★
- 14 Dark Beige ★
- 22 Light Brown ★
- 23 Chocolate ★
- 32 Mustard Yellow ★
- 45 Wine Red ★
- 51 Olive Green ★
- 62 Dark Blue ★

The mark ★ indicates colours for ordered production.

Note) Actual colour sample are available on request.

Widely Accepted Basical Standard Model.

**Stainless Metal Base**

**For PVC Tile**

**STRIPE**

**NSP-35S** F-End R-Bend **NSP-40S** F-End R-Bend Non Elastic Processed PVC

**DOT**

**NSP-35D** F-End R-Bend **NSP-40D** F-End R-Bend Non Elastic Processed PVC

**FLAT**

**NSP-35F** R-Bend **NSP-40F** R-Bend Non Elastic Processed PVC

**For Tile Carpet**

**STRIPE**

**NSC-40S** F-End R-Bend Non Elastic Processed PVC

**DOT**

**NSC-40D** F-End R-Bend Non Elastic Processed PVC

**FLAT**

**NSC-40F** R-Bend Non Elastic Processed PVC

**Aluminium Metal Base**

**NAP-40S** F-End Non Elastic Processed PVC

**NAP-40D** F-End Non Elastic Processed PVC

**NAP-40F** Non Elastic Processed PVC

**NAC-40S** F-End Non Elastic Processed PVC

**NAC-40D** F-End Non Elastic Processed PVC

**NAC-40F** Non Elastic Processed PVC

**Brass Metal Base**

**NBP-40S** F-End Non Elastic Processed PVC

**NBP-40D** F-End Non Elastic Processed PVC

**NBP-40F** Non Elastic Processed PVC

**NBC-40S** F-End Non Elastic Processed PVC

**NBC-40D** F-End Non Elastic Processed PVC

**NBC-40F** Non Elastic Processed PVC

COLOR VARIATION

- 02 Grey
- 03 Dark Grey
- 04 Soft Black
- 12 Light Beige ★
- 13 Beige
- 14 Dark Beige
- 22 Light Brown ★
- 23 Chocolate
- 32 Mustard Yellow ★
- 45 Wine Red
- 51 Olive Green
- 62 Dark Blue ★

■ Specifications

Metal Base / Stainless Steel: SUS304 Hairline Finishing  
 Aluminium: Extruded Aluminium A-6063S-T5 Anodised Finish  
 Brass : Extruded Brass C3604BE, Buff Finish  
 Vinyl Tile / Extruded PVC Contain Non Elastic Material

※ Note

- Available Flat End Cap
- Available Curved Stair

Flat End



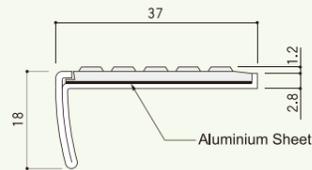
Flat End Caps At Both End Help To Clean Easily

## Stainless Steel Metal Base

### DOT

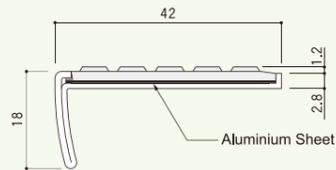


S-37D



F-End  
R-Bend

S-42D

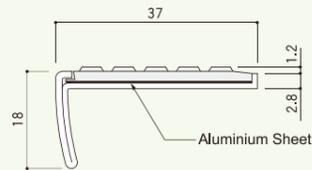


F-End  
R-Bend

### LATTICE

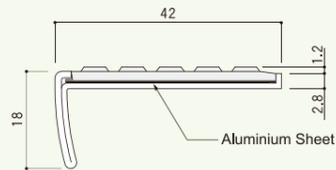


S-37L



F-End  
R-Bend

S-42L

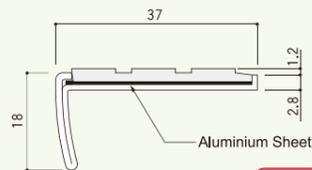


F-End  
R-Bend

### STRIPE

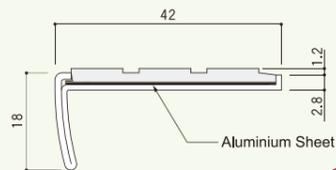


S-37S



F-End  
R-Bend

S-42S

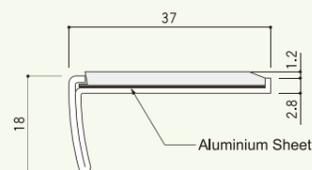


F-End  
R-Bend

### FLAT



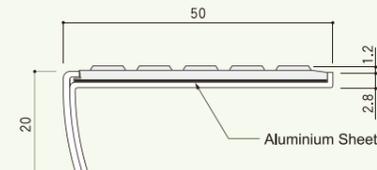
S-37F



R-Bend

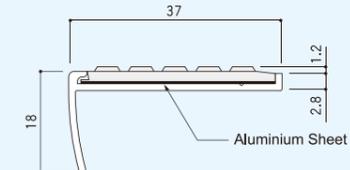
## Aluminium Metal Base

S-50D



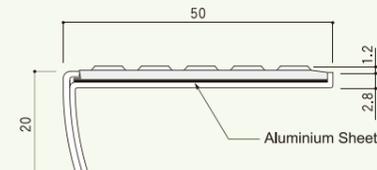
F-End  
R-Bend

A-37D



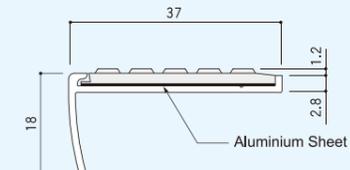
F-End

S-50L



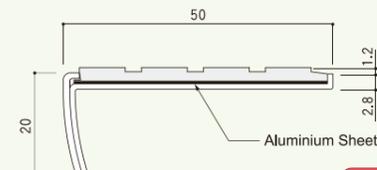
F-End  
R-Bend

A-37L



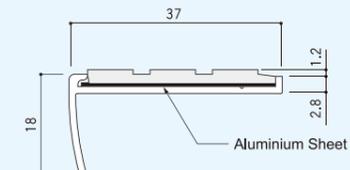
F-End

S-50S



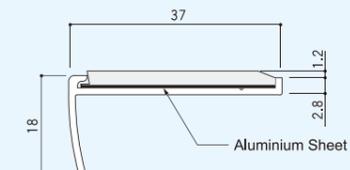
F-End  
R-Bend

A-37S



F-End

A-37F



### Specifications

Stand / Stainless Steel: SUS304 Hairline Finishing  
Aluminium: Extruded Aluminium A-6063S-T5 Anodised Finish  
PVC Tiles / Extruded PVC with Aluminium Sheet (Attached with double-sided tape)

### ※ Note

F-End Available Flat End Cap  
R-Bend Available Curved Stair

▶ Front End



## COLOR VARIATION



02 Grey



03 Dark Grey



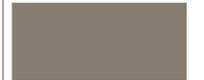
04 Soft Black



12 Light Beige ★



13 Beige



14 Dark Beige



22 Light Brown ★



23 Chocolate



32 Mustard Yellow ★



45 Wine Red



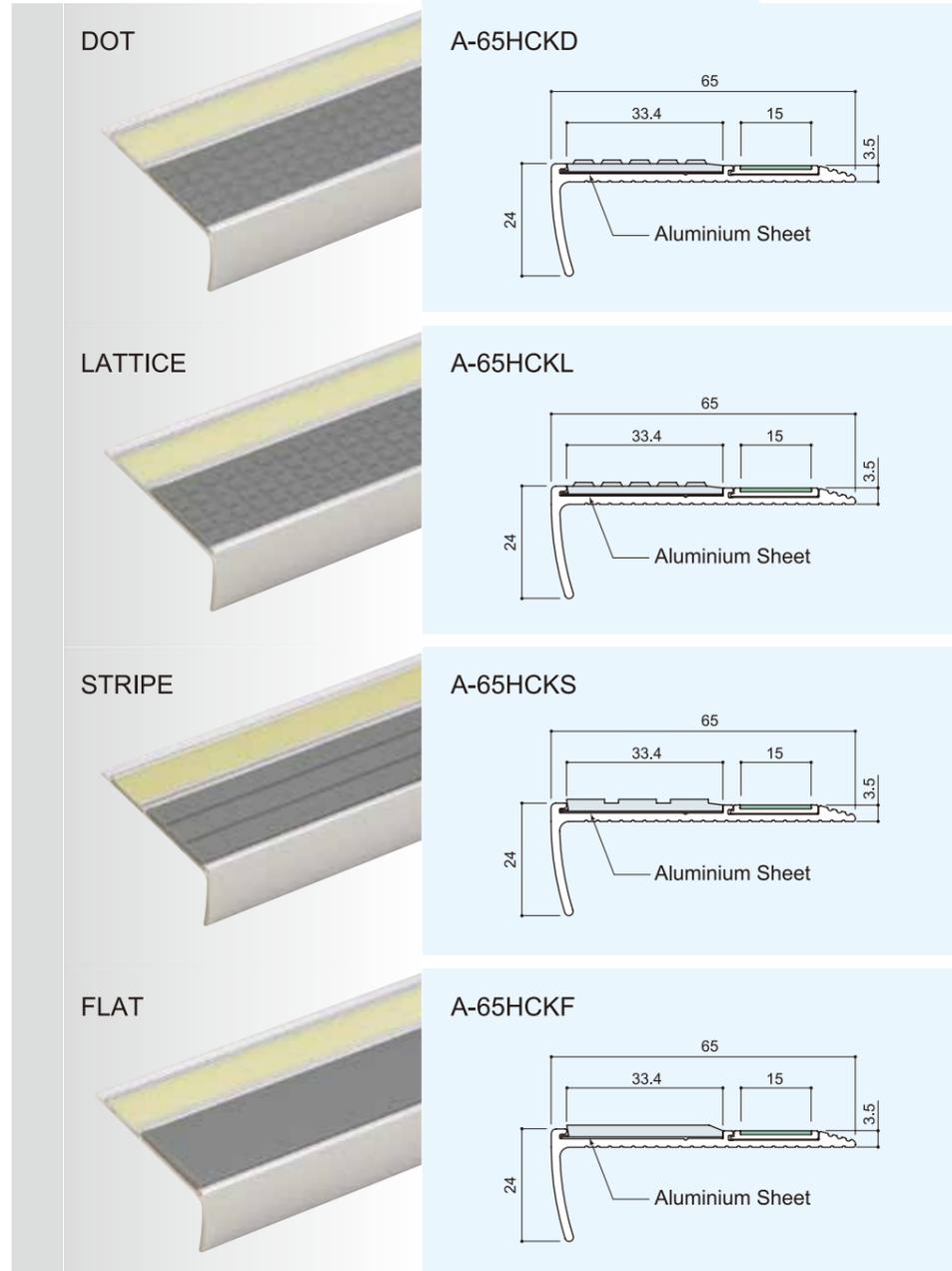
51 Olive Green



62 Dark Blue ★

★ Non stock colour, please inquiry before order.

Note) Actual colour sample are available on request.



Specifications  
 Metal Base / Extruded Aluminium A-6063-T5 Anodised Finish  
 Vinyl Tiles / Extruded PVC contain Non Elastic Material  
 Luminance Band / Luminance Hard PVC



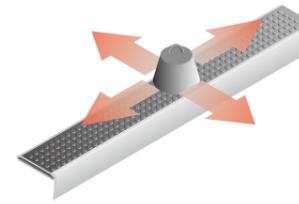
Time	Luminance (mcd/m <sup>2</sup> )
After 20 min.	200
After 60 min.	60

Irradiate with 200 lx (lux) of light for 20 minutes

**COLOR VARIATION**

- 02 Grey
- 03 Dark Grey
- 04 Soft Black
- 12 Light Beige
- 13 Beige
- 14 Dark Beige
- 22 Light Brown
- 23 Chocolate
- 32 Mustard Yellow
- 45 Wine Red
- 51 Olive Green
- 62 Dark Blue

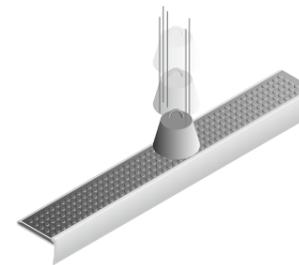
**Abrasion Resistance**



**Excellent abrasions resistance**

Test Method / JIS-K-7205 Grinding experiments on plastic of friction material  
 Device / Abrasion testing machine  
 Content / 1000 times · 2000 times · 3000 times  
 Result / Normal

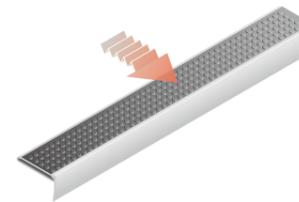
**Fatigue Resistance**



**2 Million Times without exceptional change**

Method / Internal fatigue test  
 Device / Fatigue testing machine  
 Content / 2 million times (Weight : 980N / Time : 40 times/minute)  
 Result / Normal

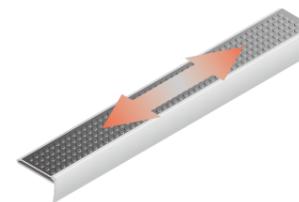
**Slip Resistance**



**Excellent Slip Resistance**

Method / JIS-A-1407 [Antiskid experimental method pendulum type impact machine]  
 Device / Pendulum type impact machine  
 Content / Determination of the anti slip  
 Result / 252N · cm (3.2 times non-slip performance of plastic tile)  
 Comparative value / Plastic tile 78.5N · cm

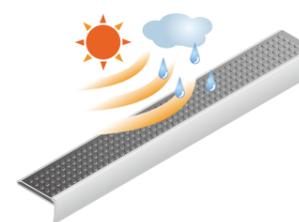
**Stability**



**No exceptional change in size**

Method / Dimensional stability testing  
 Device / Heating experiment machine  
 Content / Determination of heating 6 hours 「80±1°C」 after shrinkage 「0.05mm」  
 Result / 0~0.6%

**Weather Resistance**



**Exposed outdoor for 300 hours(1000hours) without exceptional change**

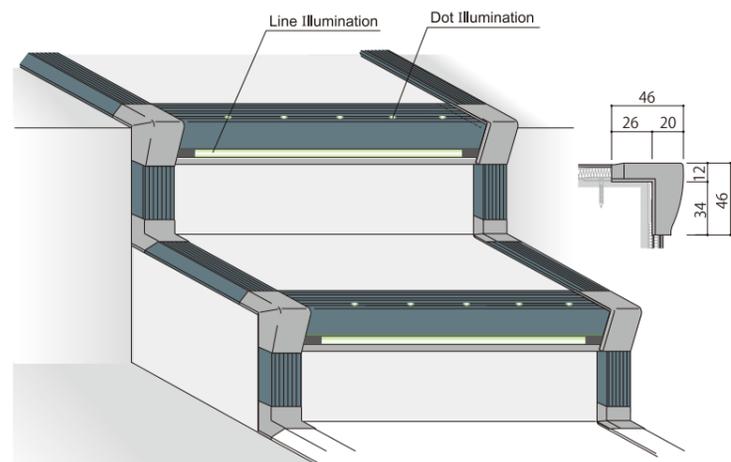
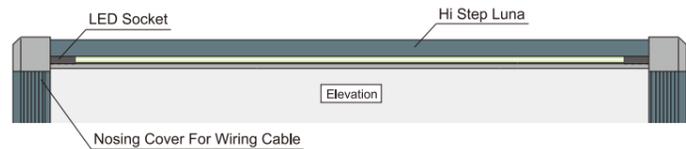
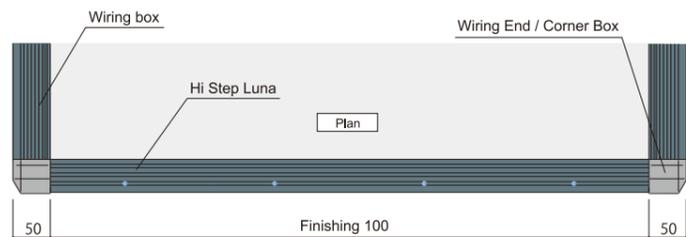
Method / JIS-A-1415  
 Device / Sunshine Weather Meter  
 Content / 300(1000) hours of sunlight  
 Result / Normal

# Stair-Nosing with LED Illumination Brings a Touch of Style to Staircase.

Hi-Step LUNA is Stair-Nosing with built-in LEDs. It provides for safe navigation up and down stairways in the dark with an unobtrusive indication of the outline of the stairway faulting.

Since the illumination comes from LEDs, this is a product that not only conserves electricity, but also enjoys a long maintenance-free service life. It provides a higher level of interior décor and safety by its staging of light in settings of all types, including cinema complexes, theatres, commercial shops and the like.

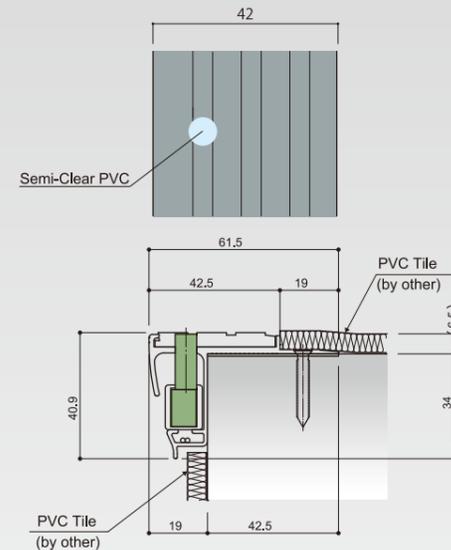
- Long maintenance-free service life based on use of LEDs
- With special sidelight format each step is provided with an LED light source
- Energy-saving design allows lights to stay on for a long period
- A line of light in front of you and a point of light at the side
- Offers combination of visibility and freedom from glare



## LED Colour Variation

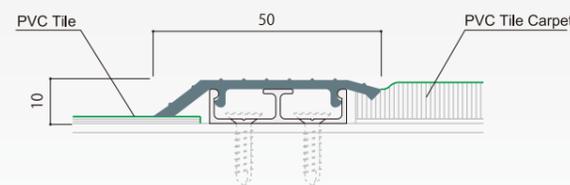


## For PVC Tile

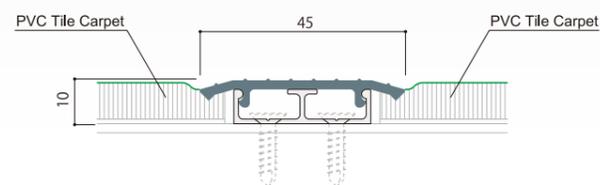


**Specification**  
 Rating: LED Socket (LED5  $\phi^{m/m} \times 2nos$ )  
 0.02 / no  $\times 12V=0.24W$   
 Light Source: Brilliant LED (Both End)  
 Service Life 100,000hrs  
 Material: Powerful Sidelight Fiber  
 12 Volt Transformer  
 Operating Temperature:  $-20^{\circ}C \sim 40^{\circ}C$   
 Tire: Extruded PVC  
 Core Material: Extruded Aluminium

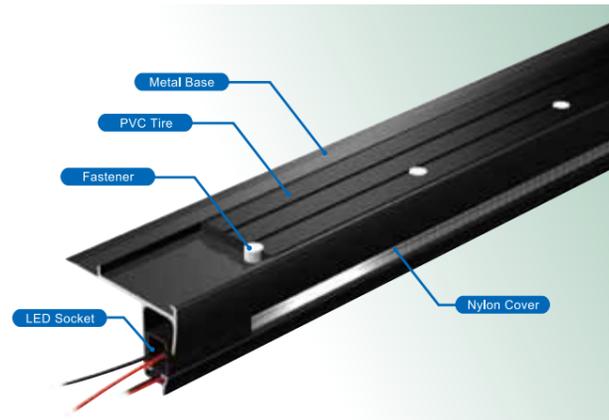
## Wiring Box (s) PVC Tile ~ PVC Tile Carpet



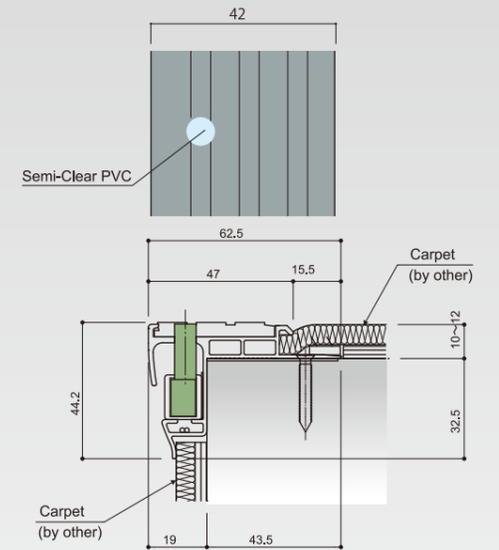
## Wiring Box (s) PVC Tile Carpet ~ PVC Tile Carpet



**Specification**  
 Tire: Extruded PVC  
 Core Material: Extruded Aluminium

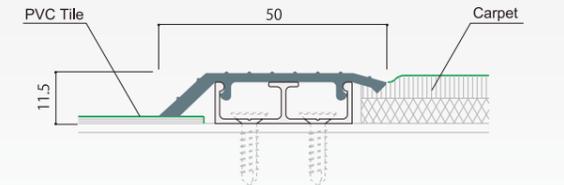


## For Carpet Tile

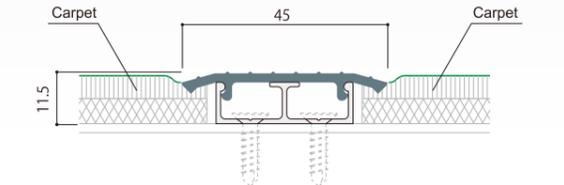


**Specification**  
 Rating: LED Socket (LED5  $\phi^{m/m} \times 2nos$ )  
 0.02 / no  $\times 12V=0.24W$   
 Light Source: Brilliant LED (Both End)  
 Service Life 100,000hrs  
 Material: Powerful Sidelight Fiber  
 12 Volt Transformer  
 Operating Temperature:  $-20^{\circ}C \sim 40^{\circ}C$   
 Tire: Extruded PVC  
 Core Material: Extruded Aluminium

## Wiring Box PVC Tile ~ Carpet



## Wiring Box Carpet ~ Carpet



**Specification**  
 Tire: Extruded PVC  
 Core Material: Extruded Aluminium



# PHOTOCATALYSTS & LUMINANCE

At NAKA corporation, taking a sense of security and safety as our watchword, we have combined the introduction of a photocatalyst on railings with various types of luminescence.

(Note)



Photocatalyst

## Clean Railings that can be Used without Worry

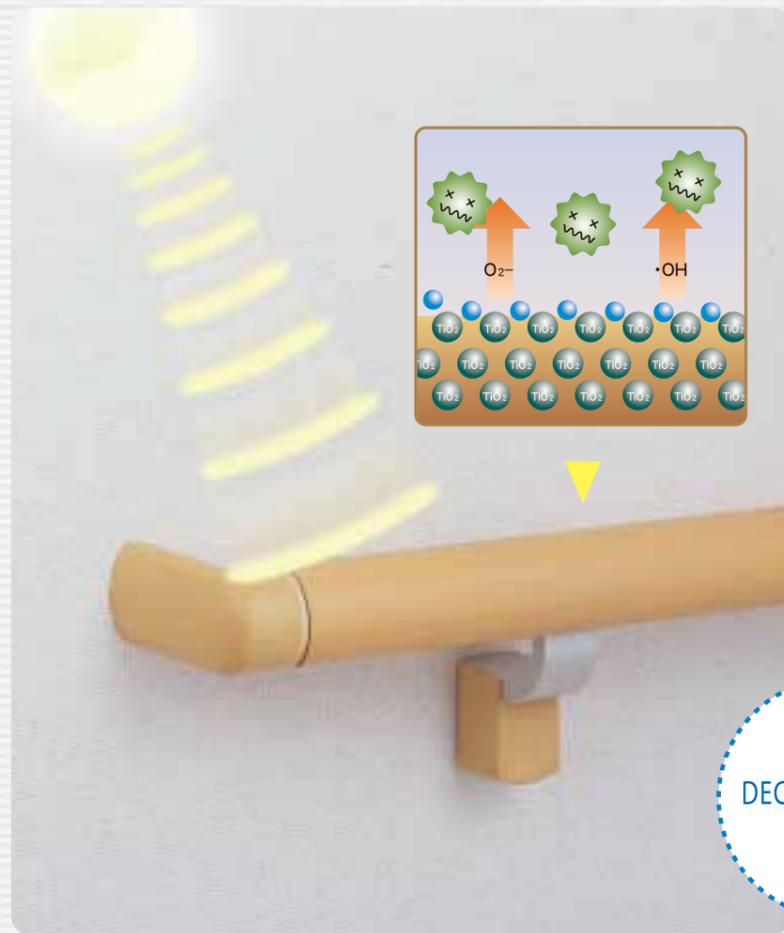
Titanium dioxide is applied to top rail to induce a photocatalytic effect. Exposure to the energy from the light causes the decomposition of bacteria and other organic matter attached to the railing surfaces, ensuring that they are clean at all times.



Luminescence

## In order to ensure safety in darkness

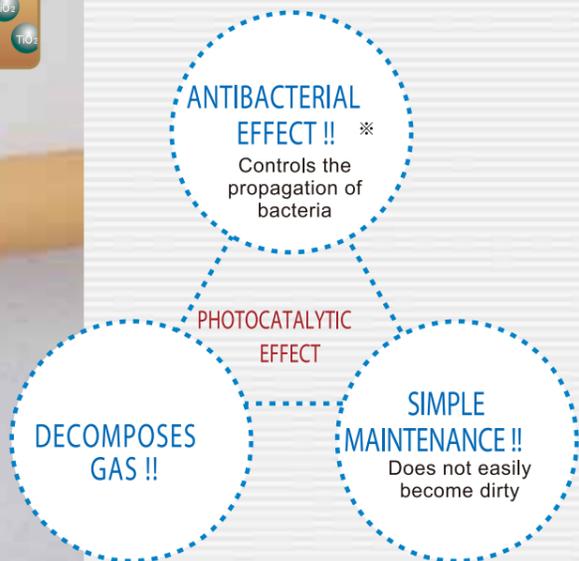
We have placed two luminescent lines on the railings. The luminescent material stores light, which it then emits for a long time in the darkness. Because of this, it is possible to move safely after the lights go out.



### What the Photocatalyst does

Contact with light causes moisture (H<sub>2</sub>O) and oxygen (O<sub>2</sub>) existing in the air to react with the titanium dioxide (TiO<sub>2</sub>) to generate reactive oxygen in the form of O<sub>2</sub><sup>-</sup> (superoxide ions) and hydroxyl radicals (OH). This reactive oxygen serves to decompose organic matter such as dirt, mould, bacteria and the like.

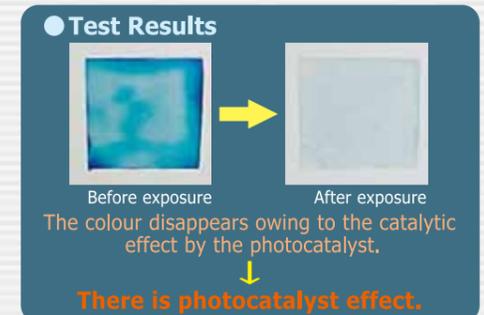
(Catalyst — A substance that, without changing itself, brings about a chemical reaction between 2 other substances that would not react with each other on their own.)



### Properties

We carried out a liquid phase adhesion method test at our company to observe the performance of the photocatalyst.

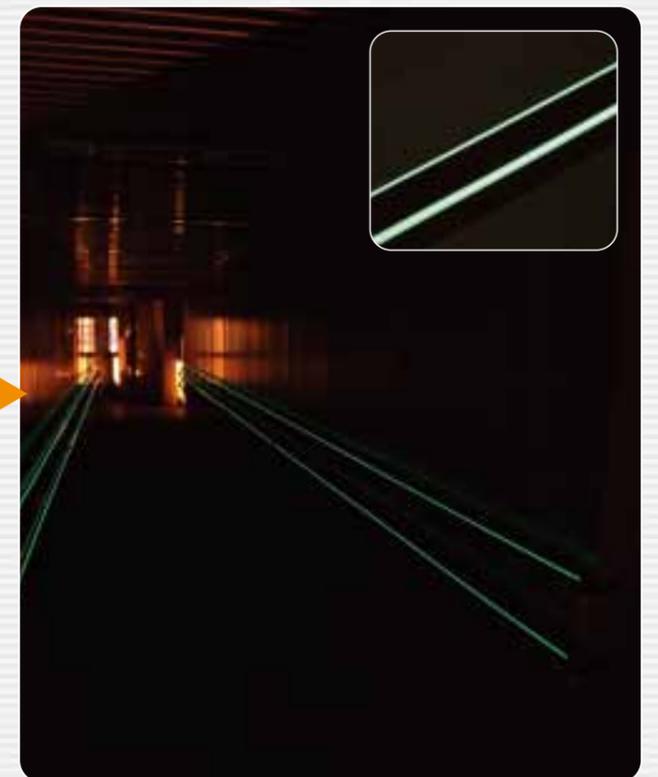
The test method consists of applying some drops of methylene blue liquid onto the test body, putting it on film to expose it to ultraviolet light for a certain period and observing changes in the colour of the test reagent. The methylene blue liquid used in this test changes from blue to clear only as a result of the photocatalyst. For this reason, it is appropriate as a test for observing the effect of the photocatalyst. The test results are actually proved when there is a substantial result even with the light inside the room.



※ Even in places not touched by the ultraviolet light, there is a high antibacterial effect based on the efficacy of the antibacterial agent.



Normal appearance



When the lights are out

### Special Features

- We use newly developed luminescent material that, with light from fluorescent lamps and the like, can emit light for a long time.
- Since the luminescent material emits light that has been stored as energy, it requires no energy such as electric power
- The function of the luminescent material lasts semi-permanently.

### Visibility Performance

Luminance is taken as the unit indicating the visibility performance of the luminescent material. (See Table 1) When we apply this to our company's luminescent material, the result is as follows.

Afterglow luminance※1	17-21 mcd (millicandles) / m <sup>2</sup>		
Afterglow luminance※2	Luminance	3mcd / m <sup>2</sup>	5 hrs or more

※1 After light has been cut off for 24 hours and exposure to 200 lux of light for 20 minutes has taken place, the luminance of the luminescent band at the point in time at which 60 minutes have elapsed.

※2 When the light has been cut off under the above conditions, the time required for the luminance to reach 3mcd/m<sup>2</sup>.

At our company it is considered that the minimum luminance required for conducting a safe escape is 3mcd/m<sup>2</sup>.

### ● Luminance and Level of Brightness

Luminance (mcd/m <sup>2</sup> )	Sensation of brightness under conditions adjusted to the level of darkness
5 or more	Extremely bright, objects are clearly discernible.
3	Outlines of objects are discernible.
2	Dim and blurred, objects are roughly discernible.
1 or lower	Objects are barely discernible.

### ● On the JIS Standard for Luminous Safety Signboards

According to the JIS Standard (JIS Z9107 Afterglow Luminance on Luminous Safety Signboards), it is stipulated that the afterglow Luminance be 7mcd/m<sup>2</sup> after 60 minutes. The products at our company are considered to exhibit a performance around 3 times that of this standard.

(Note) For indoor use only, not suitable for use outdoors.

# Lobby and Stairway Railings

A series that supports a safe and comfortable walk from indoors to the outside.

Lobby and Stairway Railings 「GRA HAN / GRA WOOD」  
(for outdoor use)

**GRA HAN**   
O-40G / O-34G / D-432G

**GRA WOOD**   
O-40GM / O-34GM / D-432GM

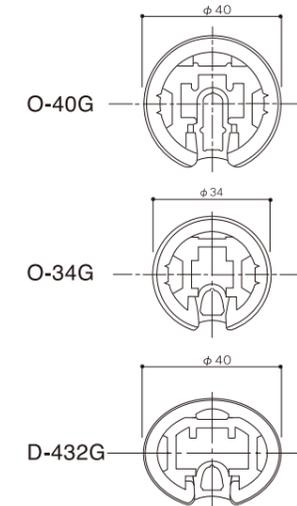
Graftmer resin compound. Superbly weather-resistant railing for outdoor use. One-tenth of the heat conductivity ratio of metals. Also reduces the coldness of the top rail in wintertime. Uses anti-mould and bacteria-resistant compound resin. The bacterial resistance lasts semi-permanently.



## Colour



★ Indicates a colour not in stock item. Please contact us about delivery dates.

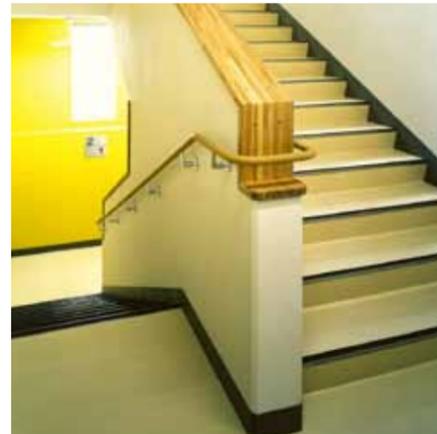


■ **Specifications (O-40G, O-34G)**  
Top Rail / Semihard Graftmer Resin (with antibacterial agent) + Soft Resin Dual Forming  
Top Rail Bearer / Extruded aluminium A6063S-T5 Anodised finish 9μ  
Gap cover / Soft Resin (Colour: No. 03) (Option)

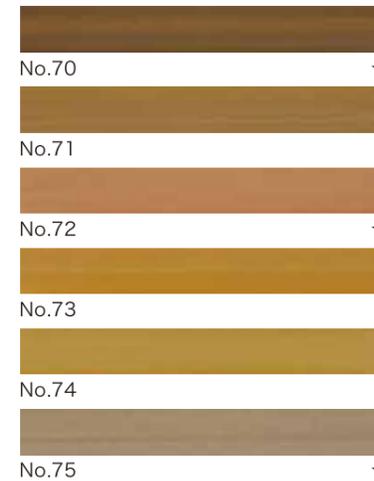
Lobby and Stairway Railings 「NEO WOOD」  
(for indoor use)

**NEO WOOD**   
O-40M / D-432M  
O-34M

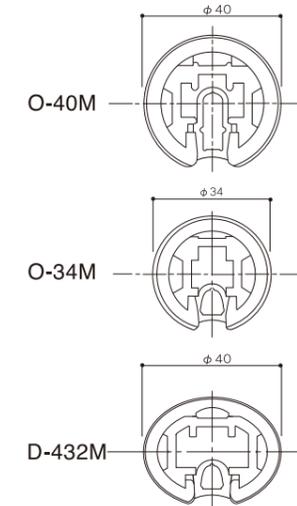
Railings of a new material that surpasses the properties of wood while retaining its warmth. Top rail of ultrafine particle wood powder (wood powder) compound resin. Uses anti-mould and bacteria-resistant compound resin. Bacteria resistance lasts semi-permanently.



## Colour



★ Indicates a colour not in stock item. Please contact us about delivery dates.



■ **Specifications**  
Top Rail / Wood Powder Mixture Semihard Resin (with antibacterial agent) + Soft Resin Dual forming  
Top Rail Bearer / Extruded Aluminium A6063S-T5  
Gap cover / Soft Resin (Colour: No.73) (Option)

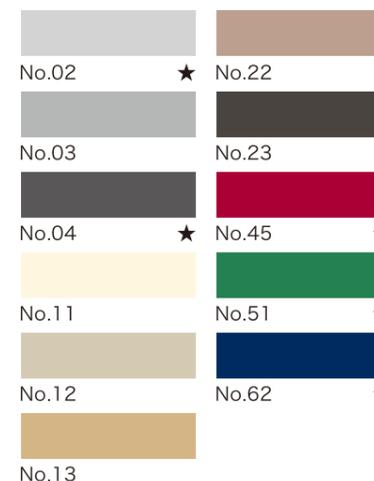
Lobby and Stairway Railings 「VINI LANE」  
(for indoor use)

**VINI LANE**   
O-40V / D-432V  
O-34V

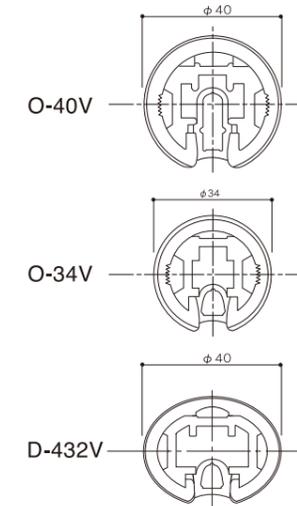
Dual moulding with semihard resin eliminates sticky sensation. Wide colour variation. Uses anti-mould and bacteria-resistant compound resin. Bacteria resistance lasts semi-permanently.



## Colour



★ Indicates a colour not in stock item. Please contact us about delivery dates.

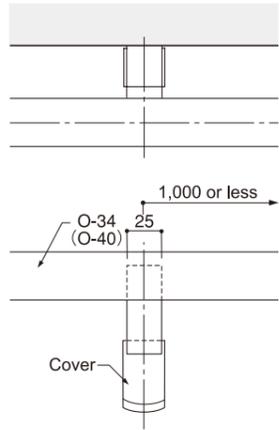


■ **Specifications**  
Top Rail / Semihard Resin (with antibacterial agent) + Soft Resin Dual Moulding  
Top Rail Bearer / Extruded Aluminium A6063S-T5  
Gap cover / Soft Resin (Colour: No. 03. Dark Grey) (Option)

For details, please request the separate catalogue 「Lobby and Stairway Railings」. We have prepared a colour sample that can be requested separately.

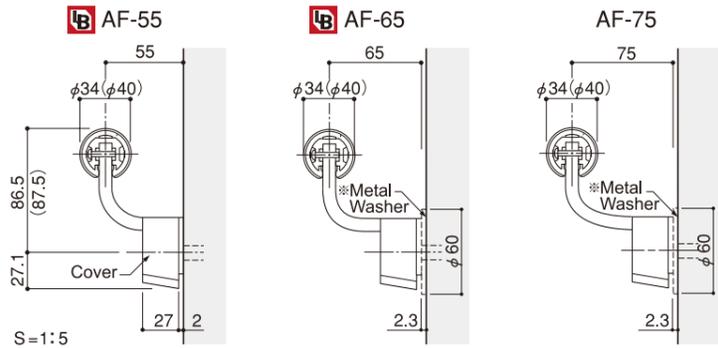
# Bracket

AF-55, AF-65, AF-75



Indoors Outdoors

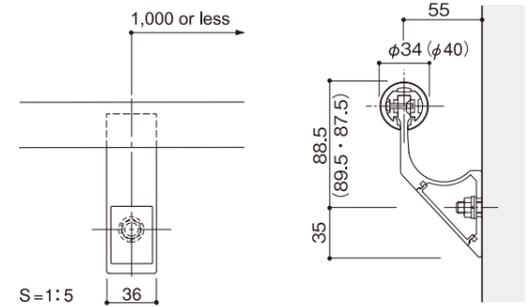
**Specifications**  
 Bracket / Indoors : Extruded Aluminium A6063S-T5  
 Anodised finish 6μ  
 Outdoors : Extruded Aluminium A6063S-T5  
 Anodised finish 9μ  
 Top Coat 7μ  
 Cover / ABS plastic  
 ※ Washer / Glossy Chrome Plate Finishing (Used when there is Board Wall)



JS-55  
 Unobtrusive Highly Safe  
 High-Grade Type



**Specifications**  
 Main Body /  
 For Indoors : Zinc Die Cast Moulded Parts Glossy Silver Anodised Finish.  
 For Outdoors : Zinc Die Cast Moulded Parts Glossy Silver Anodised Finish  
 + Top clear Coat 20μ  
 Cover / ABS Moulded Parts Glossy Silver Anodised Finish.

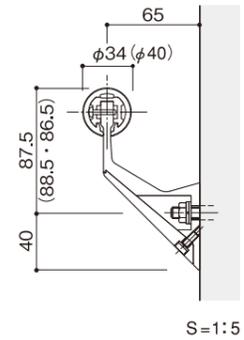


Indoors Outdoors

AGS-65  
 High-Grade Type

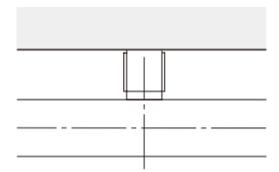


**Specifications**  
 Main Body /  
 For Indoors : Extruded Aluminium A6063S-T5 Anodised finish 6μ  
 For Outdoors : Extruded Aluminium A6063S-T5 Anodised finish 9μ  
 Top Coat 7μ



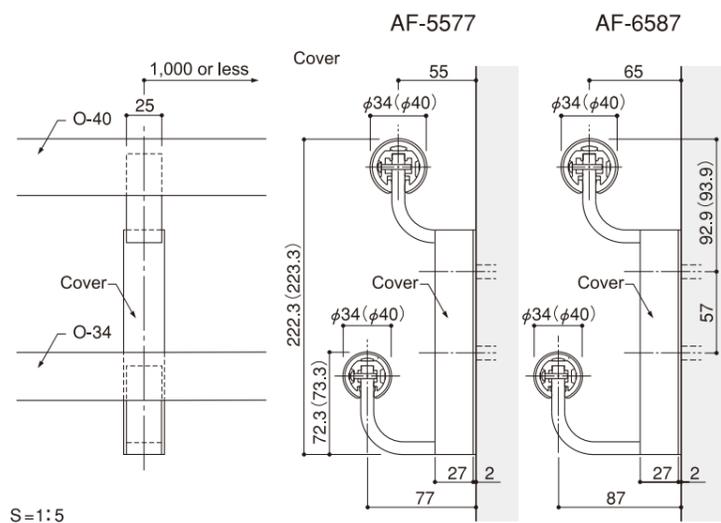
Indoors Outdoors

AF-5577, AF-6587  
 Choose according to heights ranging from children to adults Double Railing Bracket



Indoors Outdoors

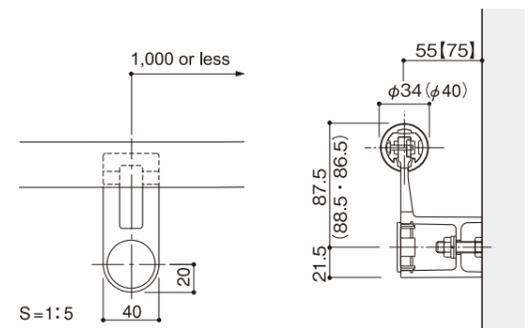
**Specifications**  
 Bracket / Indoors : Extruded Aluminium A6063S-T5  
 Anodised finish 6μ  
 Outdoors : Extruded Aluminium A6063S-T5  
 Anodised finish 9μ  
 Top Coat 7μ  
 Cover / ABS plastic



US-55, US-75  
 High-Grade Type  
 that Caters for Safety.



**Specifications**  
 Main Body /  
 For Indoors : Zinc Die Cast Moulded Parts Glossy Silver Anodised Finish.  
 For Outdoors : Zinc Die Cast Moulded Parts Glossy Silver Anodised Finish  
 + Top clear Coat 20μ  
 Cover / ABS Moulded Parts Glossy Silver Anodised Finish.  
 ※ Washer / Glossy Chrome Finishing (Used when there is Board Wall)

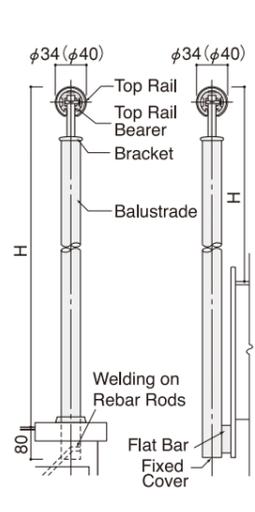


Indoors Outdoors

# Baluster / Long-Span Baluster

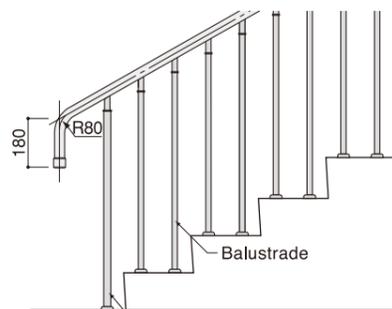
Indoors Outdoors

## Standard Baluster



### Colour Variation

- Stainless Steel Hairline
- Stainless Steel Buff #400
- 05 Soft Black
- 16 Snow White
- 06 Sand Black
- 17 Moon Snow

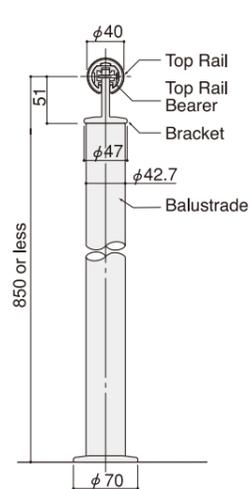


At the beginning and at the end please use Thick baluster pipe <>.

**Specifications** ※Please use stainless steel baluster for outdoors. ※It is standard to have 2 sections. In the event of one section, please use <>.

	Suitable Cap Piece	Material	Finishing	Pipe Diameter	
				Round	Square
Baluster	For Indoor Use For Outdoor Use	Stainless	Hairline Finishing Buff #400 Finishing (Standard Mirror Surface)	φ22.0×t1.5 <φ27.2×t2.0>	□19.0×t1.5 <□24.0×t1.5>
	For Indoor Use	Steel	Semi-gloss Finishing	φ22.2×t1.6	□19.0×t1.6
			Sand cast Finishing	<φ27.2×t1.9>	<□24.0×t1.6>
Bracket for Baluster		Zinc Die Cast	Glossy Chrome plate Finishing (For outdoor use Top Coat 20μ Finishing)		

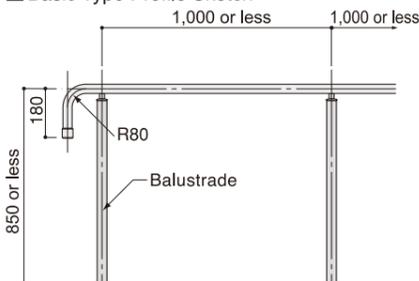
## Long-span Baluster



### Colour Variation

- Stainless Steel Hairline
- Stainless Steel Buff #400
- 05 Soft Black
- 16 Snow White
- 06 Sand Black
- 17 Moon Snow

### Basic Type Profile Sketch



**Specifications** ※Outdoors please use stainless steel baluster, O-34, D-432 can also be used.

	Suitable Cap Piece	Material	Finishing	Pipe Diameter
				φ42.7×t1.5
Baluster	For Indoor Use For Outdoor Use	Stainless	Hairline Finishing Buff #400 Finishing (Standard Mirror Surface)	φ42.7×t1.5
	For Indoor Use	Steel	Semi-gloss Finishing	φ42.7×t1.6
			Sand cast Finishing	<φ42.7×t1.6>
Bracket for Baluster		Zinc Die Cast	Glossy Chrome plate Finishing (For outdoor use Top Coat 20μ Finishing)	

# Weather Resistance

## Test Contents

Test Conditions/Carried out at the company in accordance with JIS-A1415  
Testing Machine/Sunshine Weather Meter  
Exposure Time/800 hours (Indoor Railing), 5,000 hours (Outdoor Railing)

## Test Results

Railing for Indoor Use (Neo Wood · Vini Lane)					
Item	Neo Wood		Vini Lane		Symbol
	Colour Fading	Surface Condition	Colour Fading	Surface Condition	
Hrs exposed					
200 hrs	○	○	○	○	
400 hrs	○	○	○	○	
600 hrs	○	○	○	○	
800 hrs	○	○	○	○	

Railing for Outdoor Use (Gra Wood · Gra Han)					
Item	Gra Wood		Gra Han		Symbol
	Colour Fading	Surface Condition	Colour Fading	Surface Condition	
Hrs exposed					
500 hrs	○	○	○	○	
1000 hrs	○	○	○	○	
2000 hrs	○	○	○	○	
3000 hrs	○	○	○	○	
4000 hrs	○	○	○	○	
5000 hrs	○	○	○	○	

Evaluation Standards		
Colour Fading	Surface Condition	Symbol
No fading	No change	○
Small amount of fading	Small amount of rough surface	○

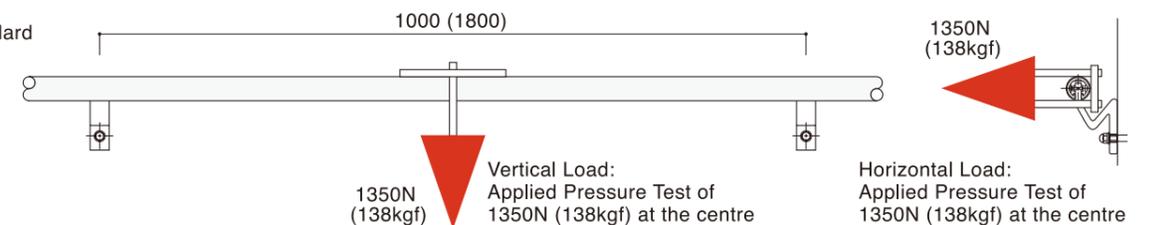
# Strength · Hardness Testing

## Test Contents

Test Conditions/For the hardness of the railing, the strength to withstand a horizontal vertical load of 1350N (138kgf) per span.  
Test samples / O-40M, O-34M, O40V, O34V, O40G, O34G; Bracket Span 1,000mm P-34G; Bracket Span 1,800mm

## Test Results

Passed the BL standard



# Antibacterial Properties

## Bacteria (Microbes)

Microbes are extremely tiny living organisms that are broadly divided into a number of types including mould, bacteria, yeast, actinomycetes, algae and the like. 57 types of microbes have been detected in buildings in hot and humid Japan.

## Antifungal and Antibacterial Properties

In such an environment, railings are touched by the hands of many different people, and there is a concern that fungi and bacteria will become foreign bodies spreading infection. Our company, by means of kneading complex organic antimicrobial agents into the resin section, are in possession of a function that suppresses the propagation of bacteria (microbes) by halting or reducing their activities.

## Test Contents

Party Requesting the Tests/Japan Food Research Laboratories Culture Medium for the Testing/ For Bacteria = Culture Medium Employing Sensitivity Disk; For Mould = Potato Dextrose Nutrient Agar

Test Methods / ① Culture the test bacteria in a sterilised Petri dish, forming a base layer. Place the test body on the base layer.

② After letting the bacteria sit 24 hours and the mould for 4 hours, inspect whether there is a band around the test body in which growth is being prevented.

## Test Results

Cladosporium / Formation of 23.5mm prevention band



E. Coli Bacteria / Formation of 5.0 mm prevention band



Methicillin-resistant Yellow Staphylococcus / Formation of 9.9 mm prevention band



Salmonella / Formation of 6.1 mm prevention band



Yellow Staphylococcus / Formation of 11.2 mm prevention band



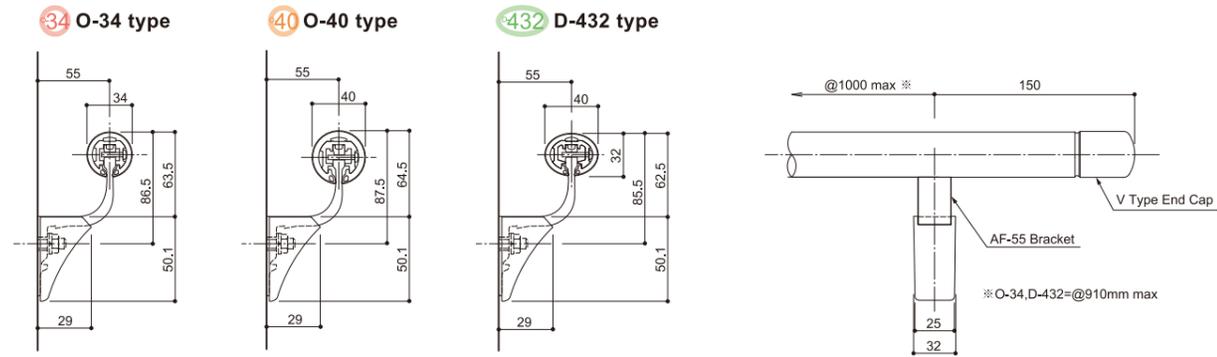
E. Coli Bacteria (Serotype O157:H7) / Formation of 5.5 mm prevention band



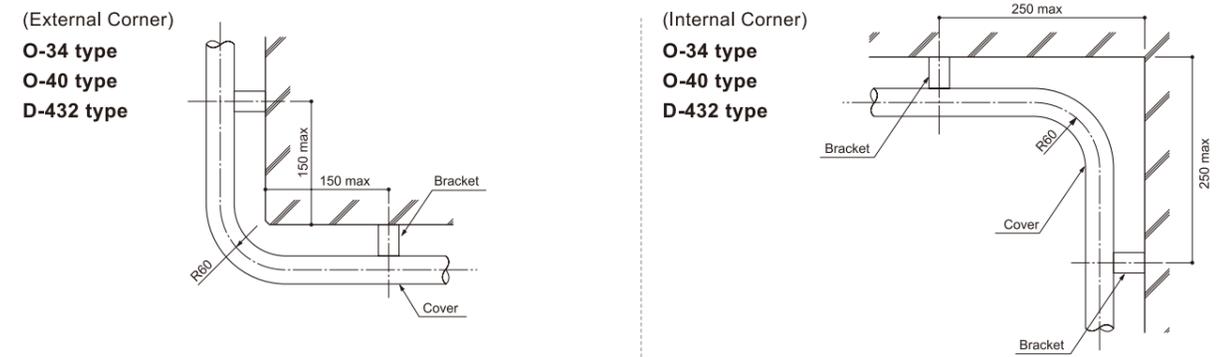
# Corridor / Stair Construction Detail

Unit : mm

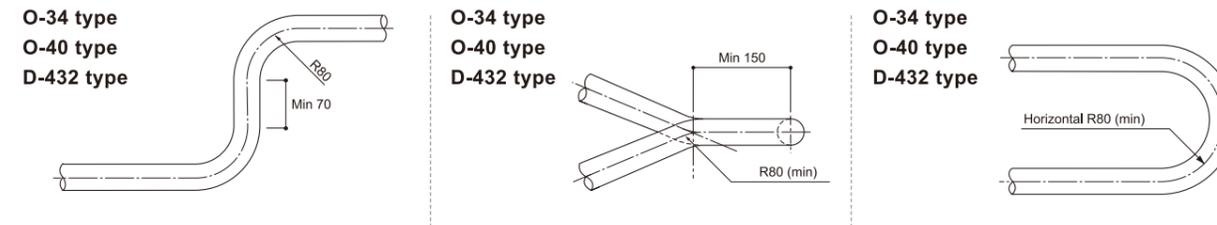
## Standard Detail



## Detail of Corner

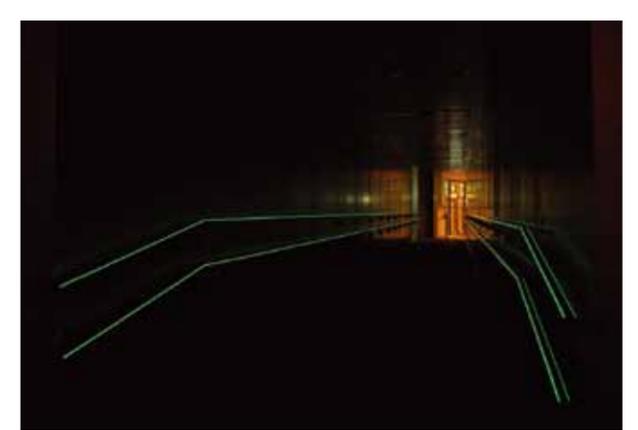
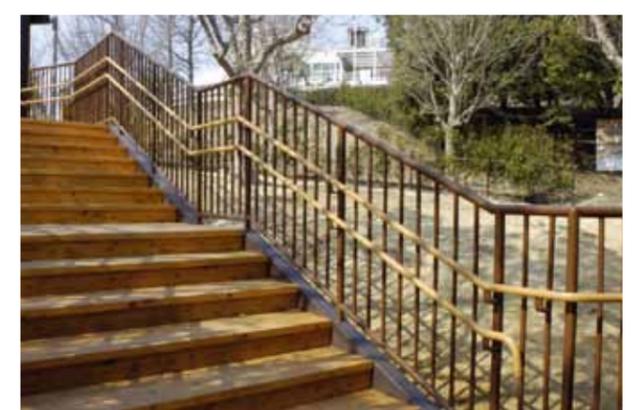
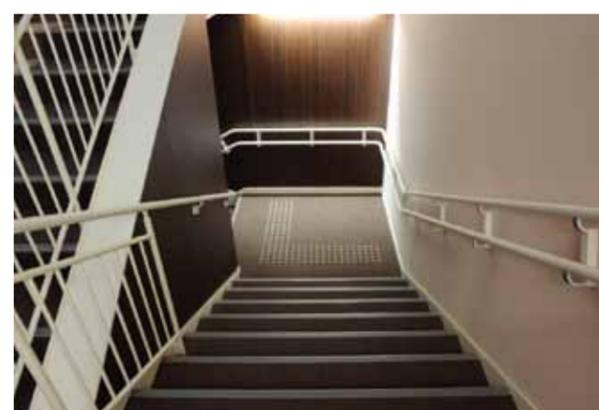
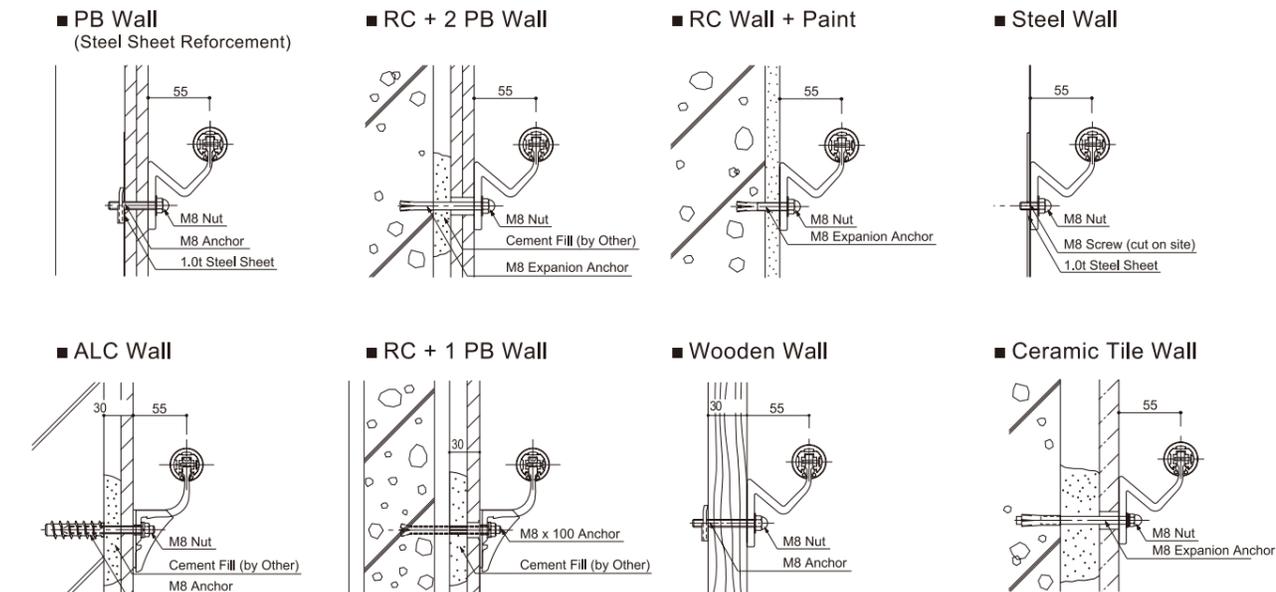


## Minimum Radius Size



## Construction Drawings

Unit : mm



A New Genre of Lighting for Buildings —  
High-Quality “Light” Enveloped in Gentleness and Peace of Mind.



### Effects

The subtle production of space by Stella Light. The introduction of Vinilane and Grahan in the handrail for the lobby/staircase has made it possible to produce illumination at foot level, absent until now, by use of the same solution applied to the handrail.

### A Subtle Determination that Seeks to Charm

Light-based guidance and direction. An achievement made possible by high-grade LED technology. A new product from Naka Corporation upholding peace of mind.

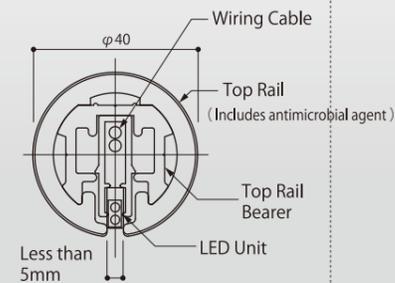
### ECO

Because it is an LED, it conserves energy, has a long service life, and saves space. Achievement of excellent cost performance. Unlike fluorescent lights, it contains no mercury gas, and thus will still be clean at the time of disposal.

### Slim-Jointed Handrail

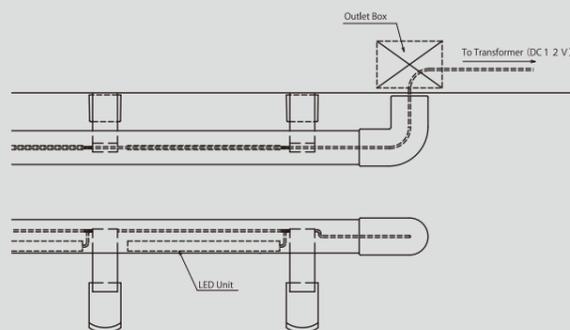
The handrail incorporating Stella Light is a slim-jointed handrail with a high level of safety developed by Naka Corporation. The safety is further enhanced with a structurally feasible groove (joint) under the railing, kept at a width of 5mm or less.

### Section Detail of Handrail



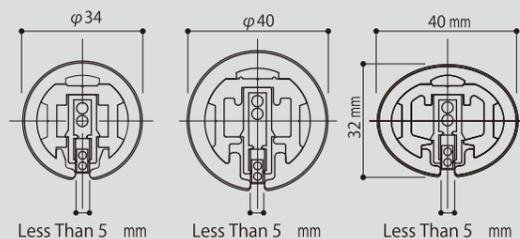
Above is 40mm. dia. Railing

### Wiring Detail In Toprail

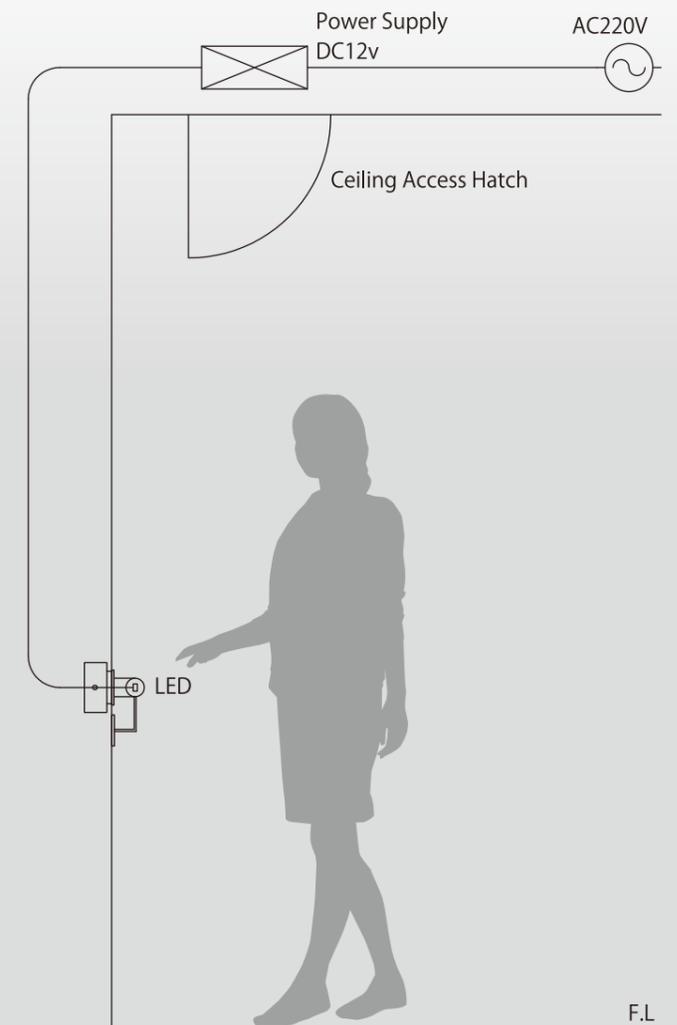
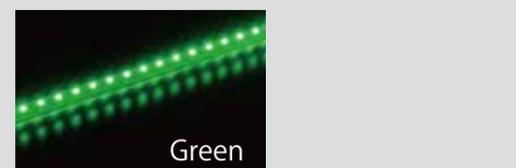


Stella Light

**Vinilane Slim** **Grahan Slim**  
**Neowood Slim** **Grawood Slim**



### LED Colour

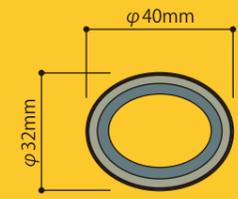
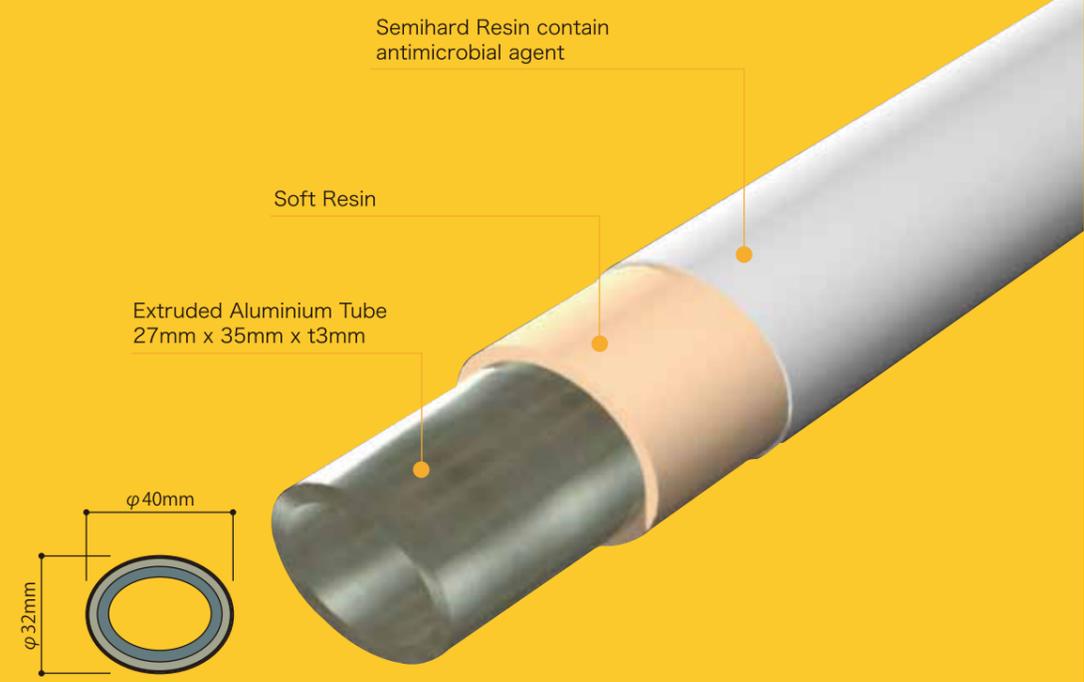


# Ai-No-Te

## OVAL II

Assist Handrail Unit

Ai-No-Te Oval II specifically adopted the oval-shaped coping in 40mm x 32mm based on human engineering to ensure its efficient stability. Highly artistic design with combination of aluminium and resin has been attracting a number of professional designers. It changed the cold feel of conventional stainless steel handrails



### Why Oval?



**Why Oval?**  
Oval-shaped handrail in an appropriate size is an excellent model to keep balance of the body because your palm can

maintain sufficient resistance against power to twist the handrail. It is widely applicable from products in public buildings that are often used with sliding to others in residential houses or facilities used more for holding firmly.

#### Resistance test against twisting

It was measured when the handrail was held firmly while standing to find out how strongly it could be held by hand without sliding when it was turned around its axle. The result showed that the resistance against twisting of the oval-shaped handrail (in 32 x 40mm) was 10 - 20% higher than the circle shape (34mm diameter).

#### Why 32 x 40mm?

At first, we selected the handrail in 30 x 34mm. In the previous research, it was in the middle for popularity ranking from the oval-shaped models in 27 different sizes and the circle-shaped models in 6 different sizes. Then we used this as the standard model and compared to other 32 models in different sizes & shapes one by one in the further research. The result showed that oval-shaped models were more welcomed for holding comfortably, among those, the one in 32 x 40mm won the best popularity. \*Research to 32 adults.

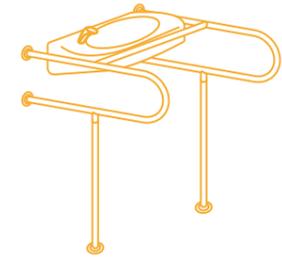
#### Plain Colours



★ These colours are available upon acceptance of orders only. Please discuss with us for each delivery period.

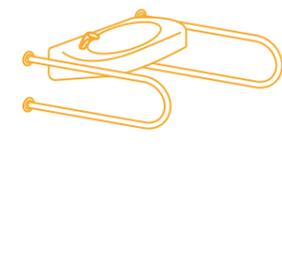
### ♥ index

#### (For Wash Basins)

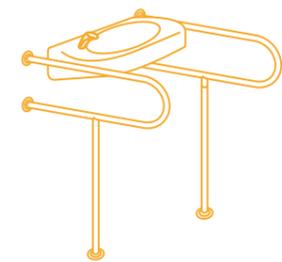


CA-3-1

#### (For Wash Basins together with Toilet Seats)



CA-1



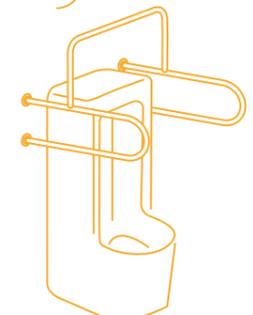
CA-1-2

#### (For Toilet Stool)



CMA-4

#### (For Urinal)

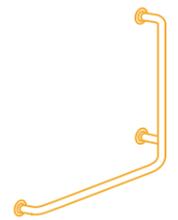


CCA-1

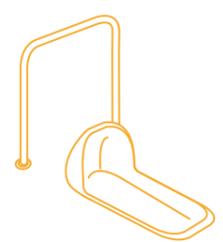
#### (For Multiple Purposes)



CIA-500~800

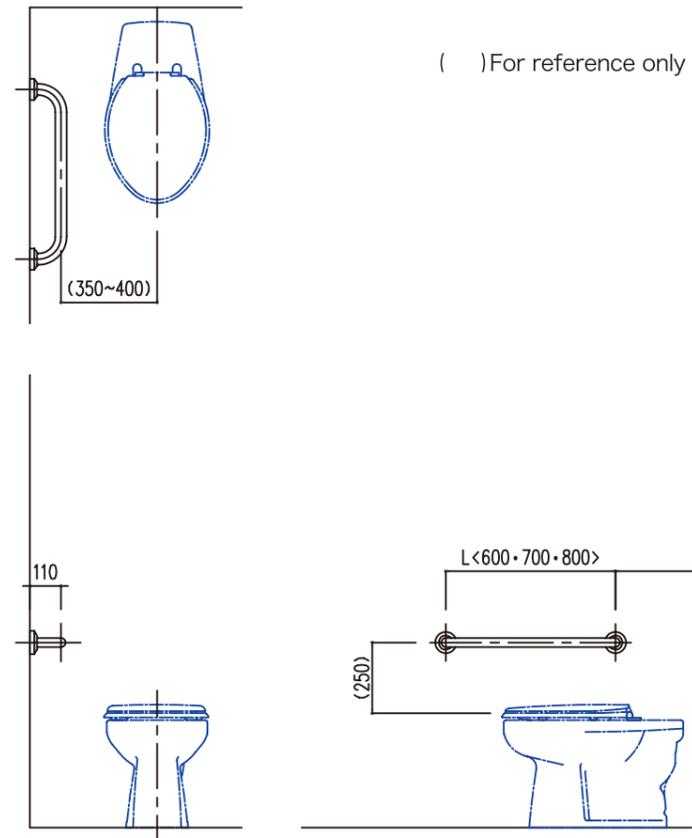


CLA-7070L(R)



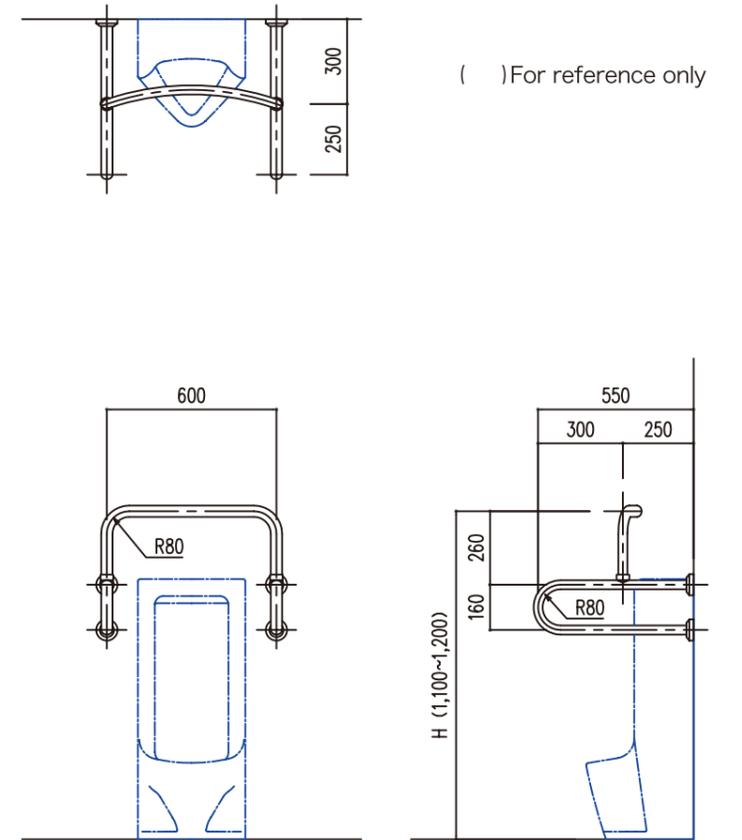
CWA-1

**CIA-500 • CIA-600**  
**CIA-700** (Multi-purpose Railings)



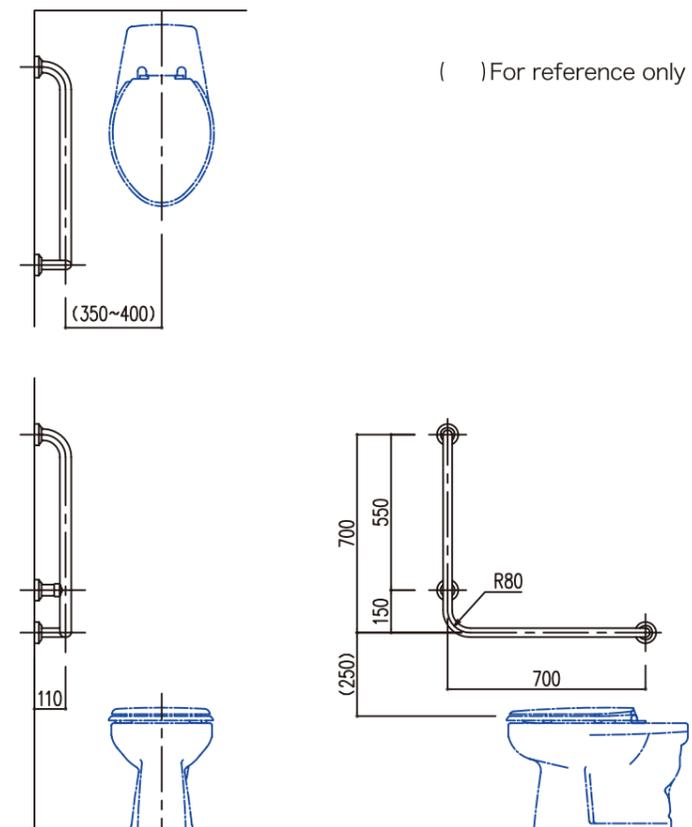
- **Specifications**  
**Top Railing** /  
 (Surface Material) Semihard Resin contain (Antimicrobial agent included) + soft resin dual layer forming  
**Core Material** / Aluminium tube 27 x 35 x t3 mm  
**Bracket Cover** / Chromium plating ABS plastic

**CCA-1** (For Urinal)



- **Specifications**  
**Top Railing** /  
 (Surface Material) Semihard Resin contain (Antimicrobial agent included) + soft resin dual layer forming  
**Core Material** / Aluminium tube 27 x 35 x t3 mm  
**Bracket Cover** / Chromium plating ABS plastic

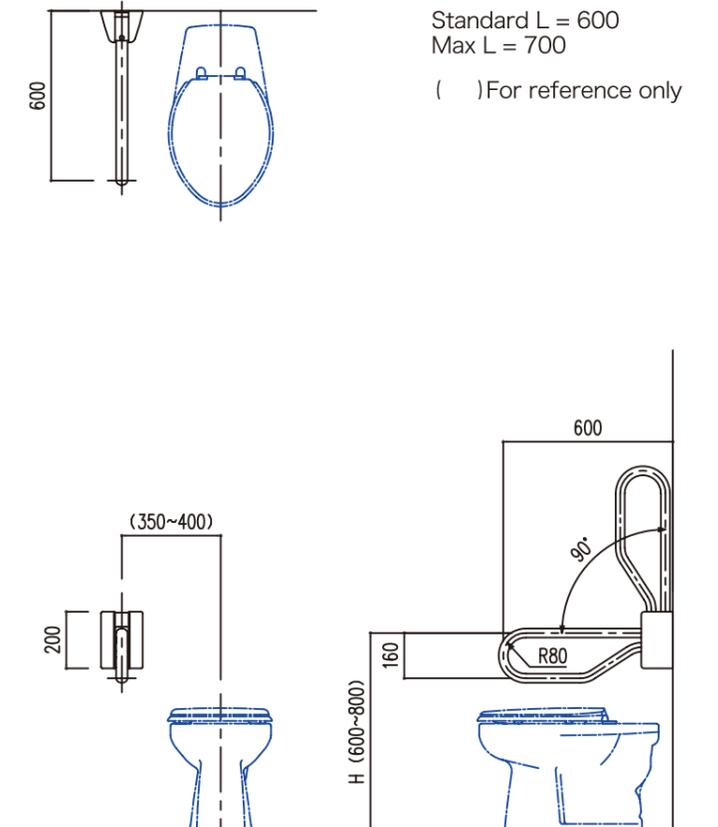
**CLA-7070L(R)**  
 (Multi-purpose Railings)



- **Specifications**  
**Top Railing** /  
 (Surface Material) Semihard Resin contain (Antimicrobial agent included) + soft resin dual layer forming  
**Core Material** / Aluminium tube 27 x 35 x t3 mm  
**Bracket Cover** / Chromium plating ABS plastic

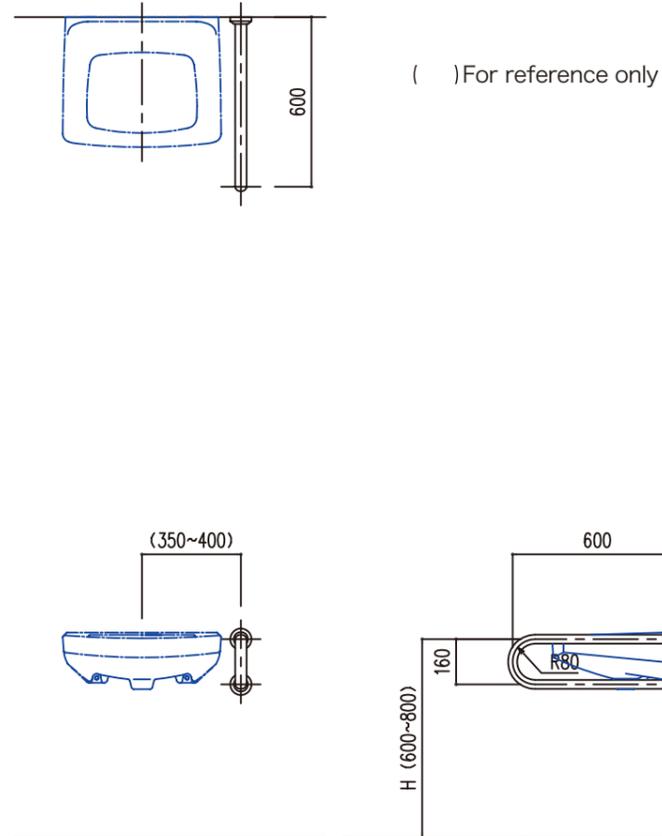
※ This drawing is CLA-7070L, the reverse side is CLA-7070(R)

**CMA-4**  
 (Vertical Movable Type Railing)



- **Specifications**  
**Top Railing** /  
 (Surface Material) Semihard Resin contain (Antimicrobial agent included) + soft resin dual layer forming  
**Core Material** / Aluminium tube 27 x 35 x t3 mm  
**Bracket Cover** / Chromium plating ABS plastic
- ⚠ **Caution** | The movable type cannot be used in bathrooms

## CA-1 (For Basins / Toilet seats)



### Specifications

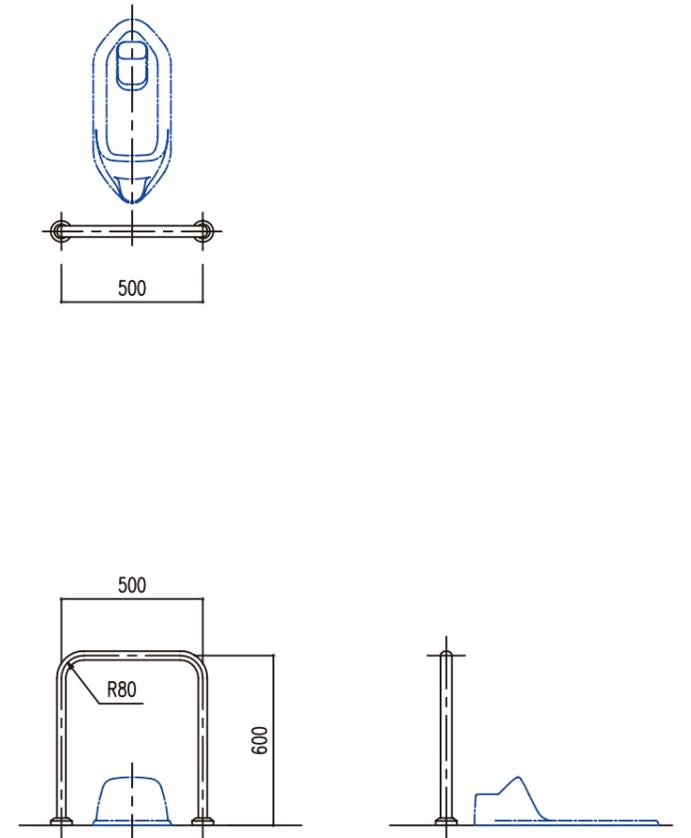
#### Top Railing/

(Surface Material) Semihard Resin contain (Antimicrobial agent included) + soft resin dual layer forming

**Core Material**/Aluminium tube 27 x 35 x t3 mm

**Bracket Cover**/Chromium plating ABS plastic

## CWA-1 (Multi-purpose Railings)



### Specifications

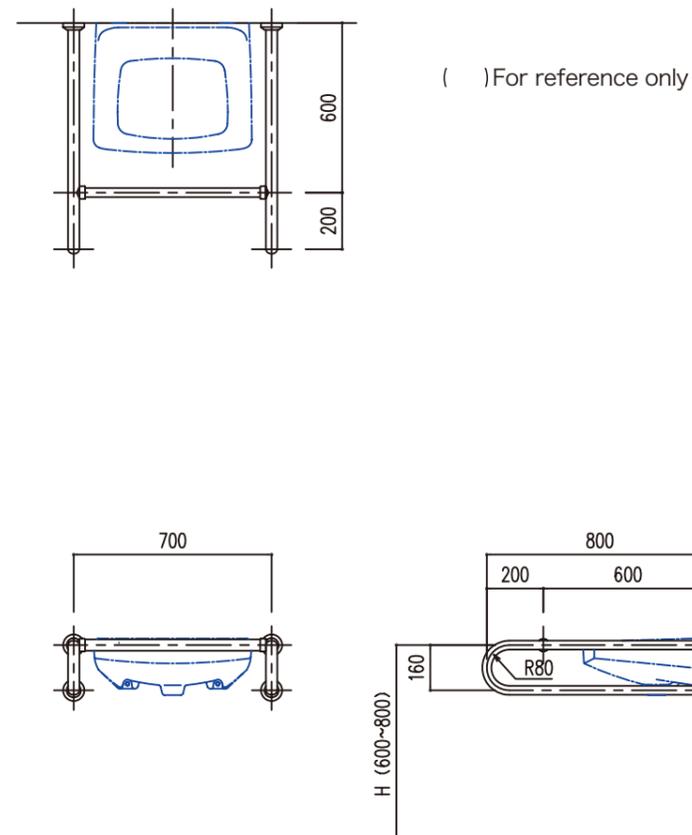
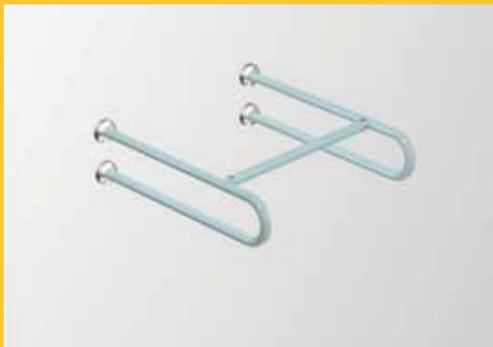
#### Top Railing/

(Surface Material) Semihard Resin contain (Antimicrobial agent included) + soft resin dual layer forming

**Core Material**/Aluminium tube 27 x 35 x t3 mm

**Bracket Cover**/Chromium plating ABS plastic

## CA-3 (For Wash Basins)



### Specifications

#### Top Railing/

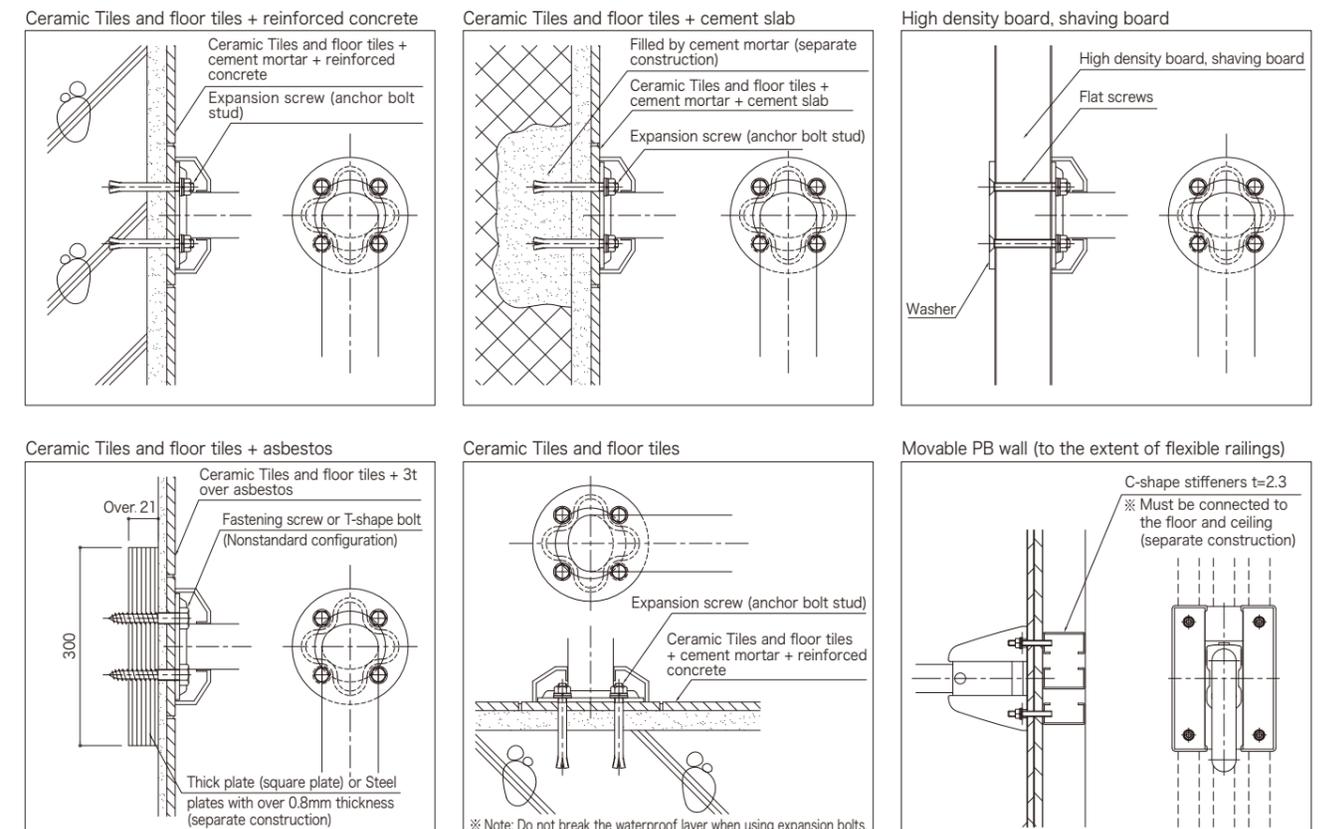
(Surface Material) Semihard Resin contain (Antimicrobial agent included) + soft resin dual layer forming

**Core Material**/Aluminium tube 27 x 35 x t3 mm

**Bracket Cover**/Chromium plating ABS plastic

## Construction Drawings against Walls and on Floors

※ Note: Mounting bolts and expansion bolts are nonstandard configuration, please purchase them separately



# SAFETYLINE Hard Plastic Stretcher Bearing (Hard Type)

## NS TYPE

NS-150V·200V (Plain Colour)

NS-150M·200M (Wooden Colour)

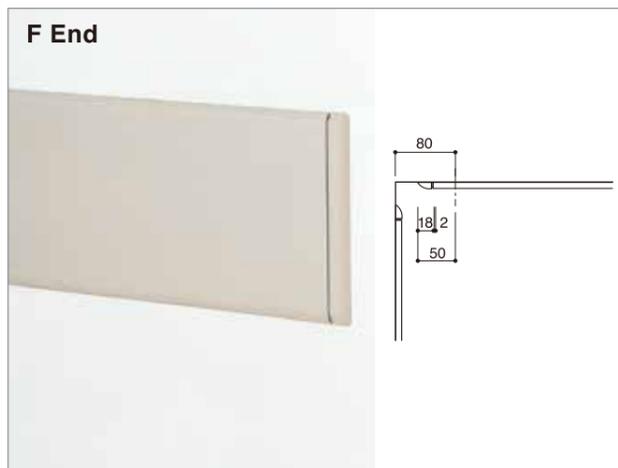
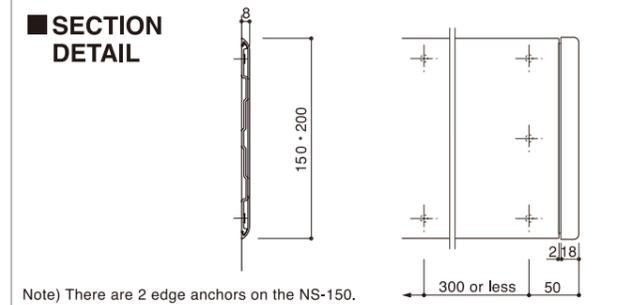
Thinner Hard Plastic Stretcher Bearer which easy fit to wall. Employing shock-resistant hard plastic, it protect the wall from wheel chairs ,stretchers or meal trollies, etc.. The Top railing contain anti bacterial agent it keeps the railing clean at all times.



ASTM E-84 Class A

Plain Colours V	No.11 Ivory White	●	Wooden Colours M	No.71 Natural	●
	No.12 Light Beige	●		No.73 Birch	●
	No.13 Beige	●		No.74 Teak	●
	No.02 Grey	○		No.70 Light Oak	○
	No.23 Chocolate	○		No.72 Cherry	○
	No.22 Light Brown	○		No.75 White Teak	○

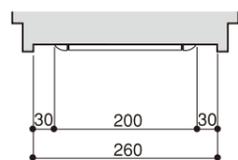
● Standard Colours  
○ Non stocked colour  
\* Actual colour sample are available on request.  
\* Please inquire before order to make sure it is available in stock.



### Specifications

- Top Rail / Shock resistant member (Contains Antimicrobial Agent)
  - Standard Length 3,000mm
  - \* Wood Colour with ultrafine grain wood powder
  - \* Available install for curved wall (Min. R500mm)
- Top Rail Bearer / Shock resistant member
  - Length 3,000mm
- F End / ABS Plastic
- Corner Cap / ABS Plastic

### Minimum Installation Length Dimensions



## NW TYPE

NW-150V·200V (Plain Colour)

NW-150M·200M (Wooden Colour)

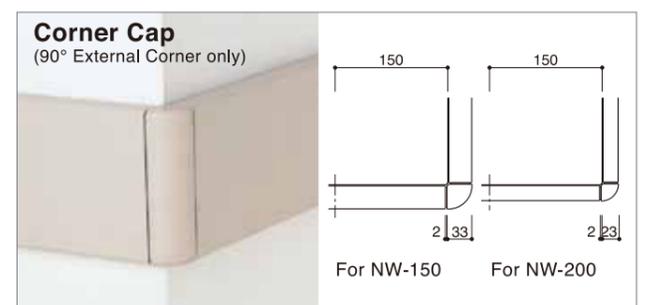
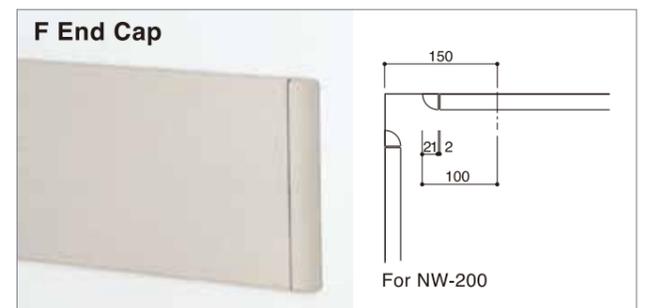
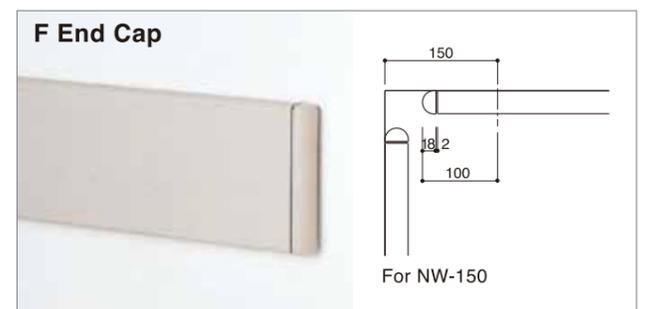
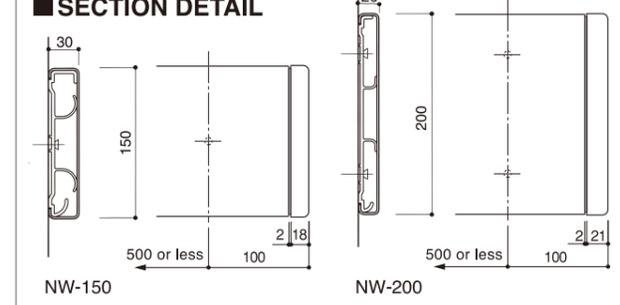
This is a stretcher holder with a hard plastic cap piece in which function is stressed. Strongly adheres to wall when there is a strong shock in the central structure. Since it has an anti bacterial agent mixed in, it remains permanently sanitary.



ASTM E-84 Class A

Plain Colours V	No.11 Ivory White	●	Wooden Colours M	No.71 Natural	●
	No.12 Light Beige	●		No.73 Birch	●
	No.13 Beige	●		No.74 Teak	●
	No.02 Grey	○		No.70 Light Oak	○
	No.23 Chocolate	○		No.72 Cherry	○
	No.22 Light Brown	○		No.75 White Teak	○

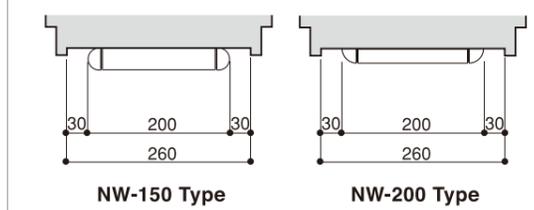
● Standard Colours  
○ Non stocked colour  
\* Actual colour sample are available on request.  
\* Please inquire before order to make sure it is available in stock.



### Specifications

- Top Rail / Shock resistant member (Contains Antimicrobial Agent)
  - Standard Length 3,000mm
  - \* Wood Colour with ultrafine grain wood powder
  - \* Available install for curved wall (Min. R800mm)
- Top Rail Bearer / Shock resistant member
  - Length 3,000mm
- F End / ABS Plastic
- Corner Cap / ABS Plastic

### Minimum Installation Length Dimensions



# SAFETYLINE Stretcher Bearing also used as Railing (Hard Type)

## NWR TYPE

NWR-150V (Plain Colour)  
NWR-150M (Wooden Colour)

This is a stretcher bearer, made of shock-resistant hard plastic, which also possesses the function of a railing. The top rail an antimicrobial agent mixed in. It is also sanitary as a railing and users need not worry.

ASTM E-84  
Class A

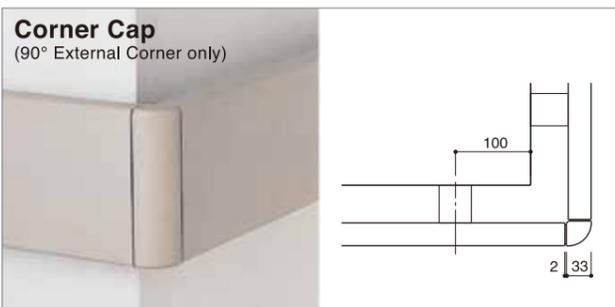
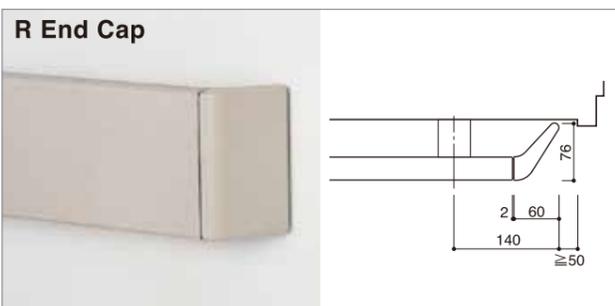
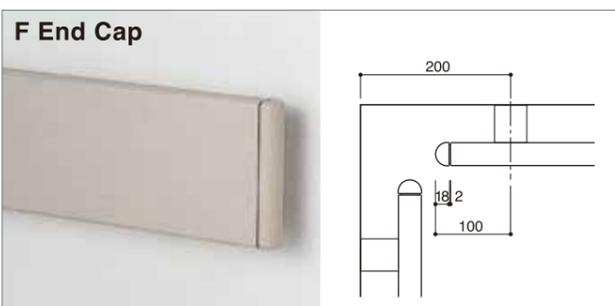
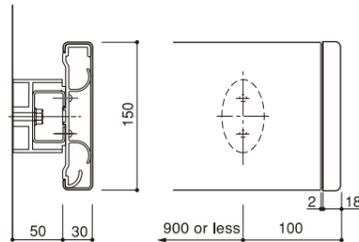


Plain Colours V		Wooden Colours M	
No.11 Ivory White	●	No.71 Natural	●
No.12 Light Beige	●	No.73 Birch	●
No.13 Beige	●	No.74 Teak	●
No.02 Grey	○	No.70 Light Oak	○
No.23 Chocolate	○	No.72 Cherry	○
No.22 Light Brown	○	No.75 White Teak	○

● Standard Colours  
○ Non stocked colour  
\* Actual colour sample are available on request.  
\* Please inquire before order to make sure it is available in stock.



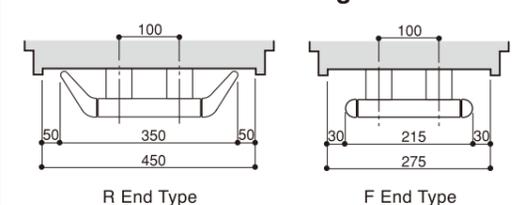
### SECTION DETAIL



### Specifications

- Top Rail / Shockproof Hard PVC (Contains Antimicrobial Agent)  
Standard Length 3,000mm
- \* Wooden Colour with ultrafine wood powder compound
- \* Available install for curved wall (Min. R 800mm)
- Top Rail Bearer / Shockproof Hard PVC Length 3,000mm
- F End Cap / ABS Plastic
- Corner Cap / ABS Plastic
- Bracket / (Cover) ABS Plastic (Colour: Ivory White only)  
(Metal Fittings and Fixtures) Steel

### Minimum Installation Length Dimensions



## NK TYPE

NK-150V (Plain Colour)  
NK-150M (Wooden Colour)

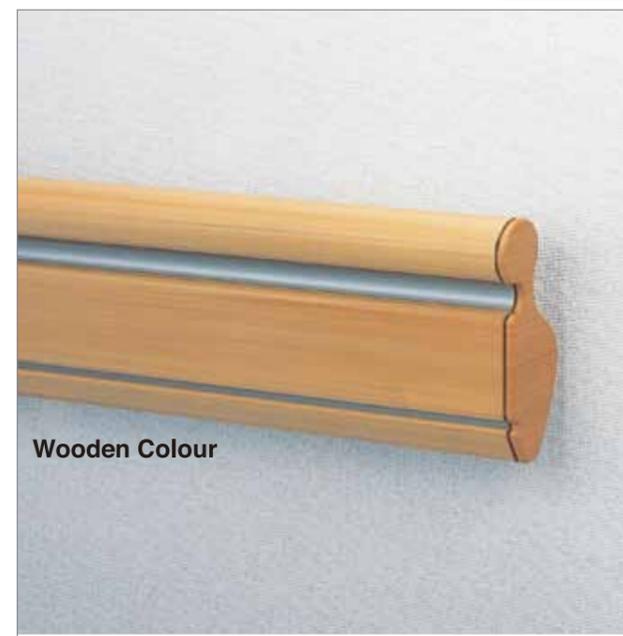
This is a stretcher bearing, made of wood powder, shock-resistant hard PVC, an antimicrobial agent mixed in, with a round shape that is easy to grip, thereby combining design and ease of use as a railing. The top rail holder, made of aluminium, is extremely sturdy.

ASTM E-84  
Class A

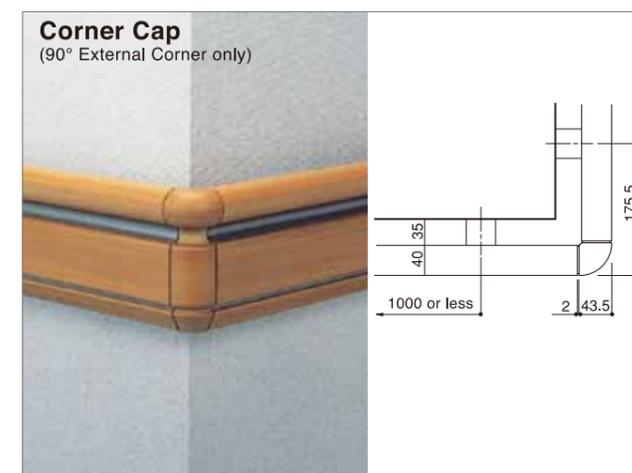
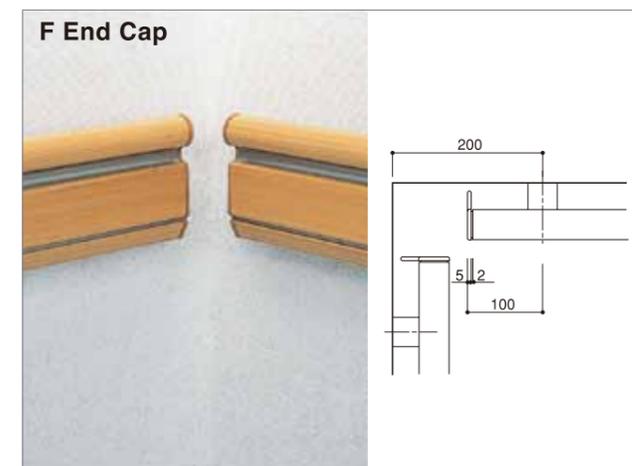
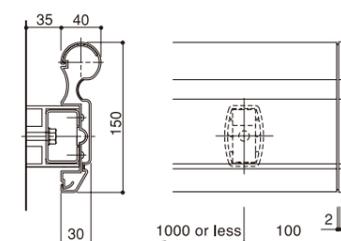


Wooden Colours M	
No.70 Light Oak	●
No.71 Natural	●
No.73 Birch	●
No.72 Cherry	○
No.74 Teak	○
No.75 White Teak	○

● Standard Colours  
○ Non stocked colour  
\* Actual colour sample are available on request.  
\* Please inquire before order to make sure it is available in stock.



### SECTION DETAIL



### Specifications

- Top Rail / Hard Shock-resistant Plastic (Contains Antimicrobial Agent) (Line Colour: Silver Metallic)  
Standard Length 3,000 mm
- \* Wooden Colour with ultrafine wood powder compound
- \* R processing not possible
- Top Rail Bearer / Extruded Aluminium A6063S-T5 Aluminium Processing  
Length 3,000mm
- F End Cap / ABS Plastic
- Corner Cap / ABS Plastic
- Bracket / (Cover) ABS Plastic (Colour: Ivory White only)  
(Metal Fittings and Fixtures) Steel

# SAFETY LINE SOFT

## Stretcher Bearing (Soft Type)

### FW TYPE

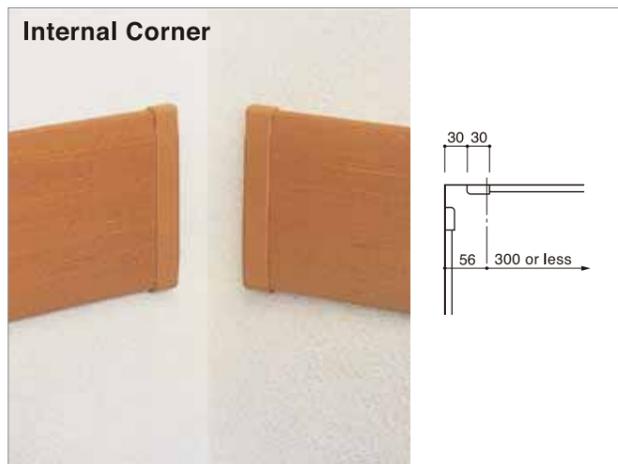
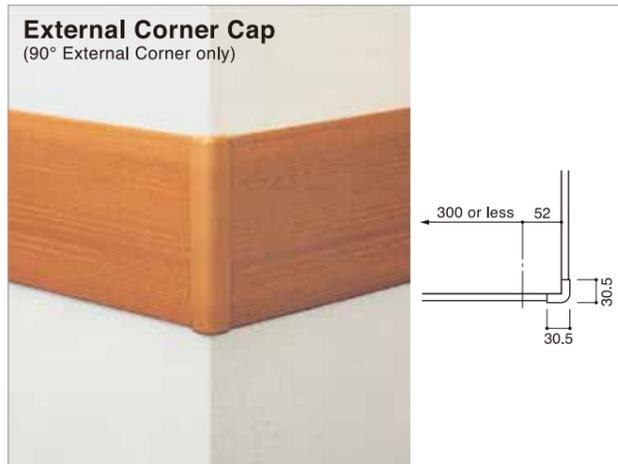
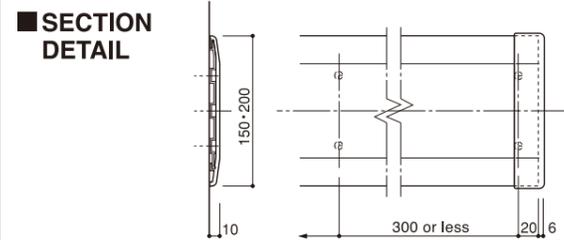
FW-150V·200V (Plain Colour)

FW-150M·200M (Wooden Colour)

This is a flat panel stretcher holder, made from soft pvc, which is adapted to a wall. Processing by bending is also possible with top rail bearing made of aluminium. The top rail remains permanently sanitary owing to the W effect from the photocatalyst and antimicrobial agents.

Plain Colours V	No.11 Ivory White	●	Wooden Colours M	No.71 Natural	●
	No.12 Light Beige	●		No.73 Birch	●
	No.13 Beige	●		No.74 Teak	●
	No.02 Grey	○		No.70 Light Oak	○
	No.23 Chocolate	○		No.72 Cherry	○
	No.22 Light Brown	○		No.75 White Teak	○

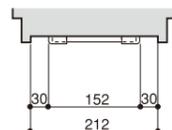
● Standard Colours  
○ Non stocked colour  
\* Actual colour sample are available on request.  
\* Please inquire before order to make sure it is available in stock.



#### Specifications

- Top Rail / Soft PVC (Contains Antimicrobial Agent+Photocatalyst) PVC Length 15 m
  - \* Wooden Colour with ultrafine wood powder compound
  - \* Available install for curved wall (Min. R is 300mm)
- Top Rail Bearer / Extruded Aluminium A6063S-T5 Length 3,000mm
- End Cap / ABS Plastic
- Corner Cap / ABS Plastic

#### Minimum Installation Length Dimensions



## Stretcher Bearing also used as Railing (Soft Type)

### FWR TYPE

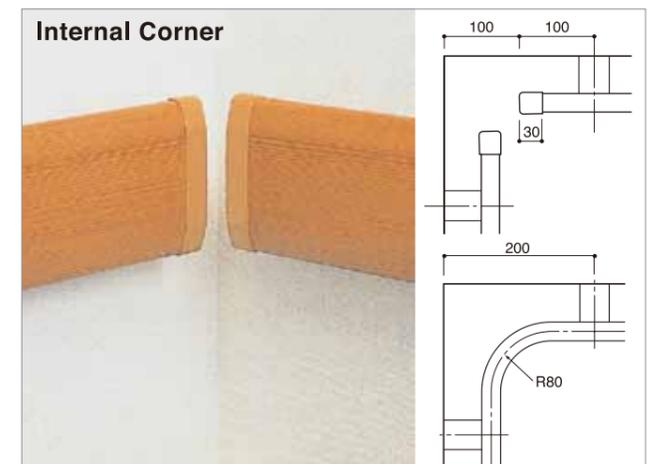
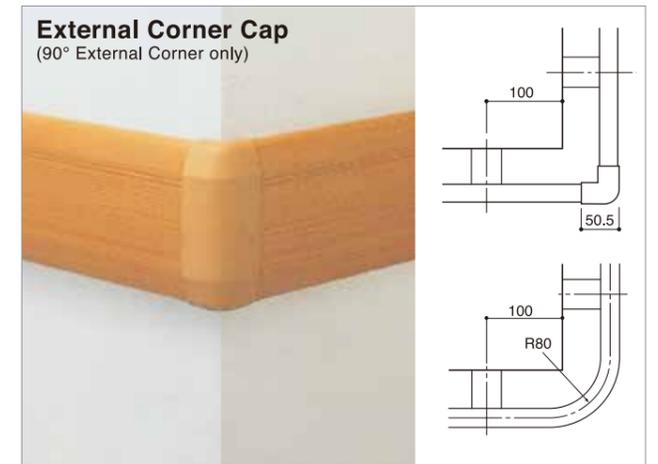
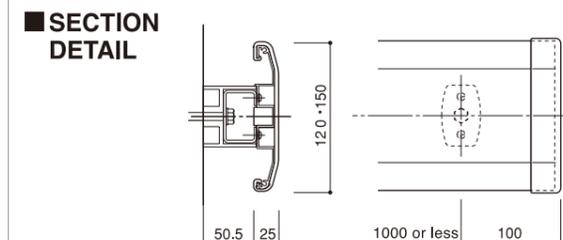
FWR-120V·150V (Plain Colour)

FWR-150M·200M (Wooden Colour)

Also possesses the function of a railing. This is a stretcher holder made of soft resin. This is an aluminium top rail retainer, and it can be processed by bending for curved wall. The top rail remains permanently sanitary owing to the W effect from the photocatalyst and antimicrobial agents.

Plain Colours V	No.11 Ivory White	●	Wooden Colours M	No.71 Natural	●
	No.12 Light Beige	●		No.73 Birch	●
	No.13 Beige	●		No.74 Teak	●
	No.02 Grey	○		No.70 Light Oak	○
	No.23 Chocolate	○		No.72 Cherry	○
	No.22 Light Brown	○		No.75 White Teak	○

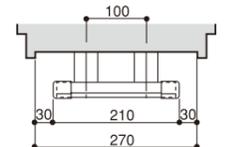
● Standard Colours  
○ Non stocked colour  
\* Actual colour sample are available on request.  
\* Please inquire before order to make sure it is available in stock.



#### Specifications

- Top Rail / Soft PVC (Contains Antimicrobial Agent+Photocatalyst) PVC Length 15 m
  - \* Wooden Colour with ultrafine wood powder compound
  - \* Available install for curved wall, External and Internal corner. R80mm Elsewhere, MIN. R300mm.
- Top Rail Bearer / Extruded Aluminium A6063S-T5 Length 3,000mm
- End Cap / ABS Plastic
- Corner Cap / ABS Plastic
- Bracket / (Cover) ABS Plastic (Colour: Ivory White only)
- (Metal Fittings and Fixtures) Steel

#### Minimum Installation Length Dimensions



# SAFETY CORNER

## Corner Protection Material

### NS TYPE

NS-50V·76V (Plain Colour)

NS-50M·76M (Wooden Colour)

This is corner protection material made of hard plastic strongly resistant to shock. It possesses a hollow structure for the 90° corner. The cap piece is permanently sanitary with antimicrobial agents.

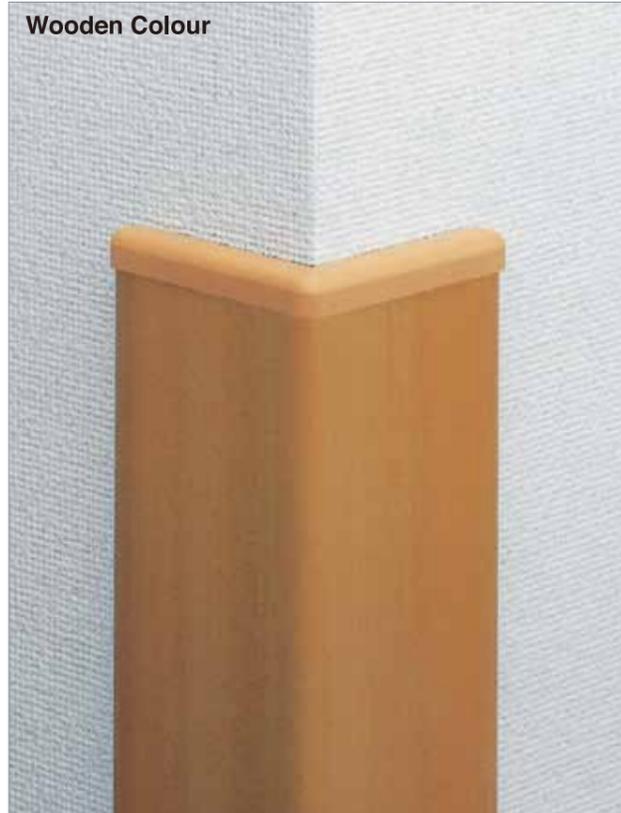
ASTM E-84  
Class A



Plain Colours V		Wooden Colours M	
No.11 Ivory White	●	No.71 Natural	●
No.12 Light Beige	●	No.73 Birch	●
No.13 Beige	●	No.74 Teak	●
No.02 Grey	○	No.70 Light Oak	○
No.23 Chocolate	○	No.72 Cherry	○
No.22 Light Brown	○	No.75 White Teak	○

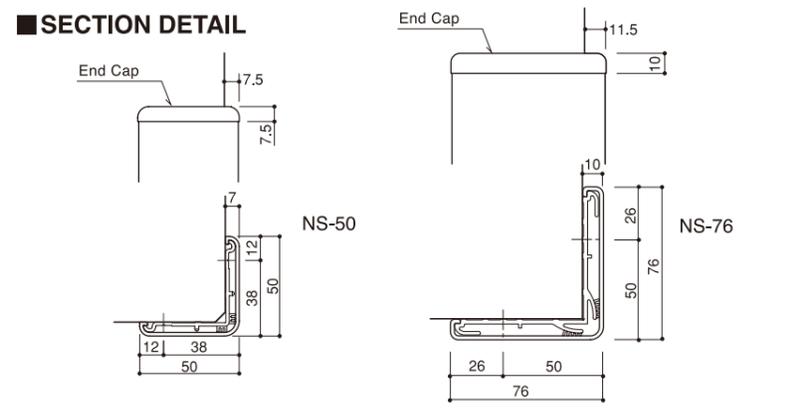
● Standard Colours  
○ Non stocked colour

※ Actual colour sample are available on request.  
※ Please inquire before order to make sure it is available in stock.



#### Specifications

Top Rail / Shock-resistant Hard Plastic  
(Contains Antimicrobial Agent)  
Embossed finishing  
Lenght 2,500mm · 3,000 mm  
※ Wooden Colour with ultrafine  
wood powder compound  
Top Rail Bearer / Shock-resistant Hard Plastic  
End Cap / ABS Plastic



### NKS TYPE Adjustable Angle

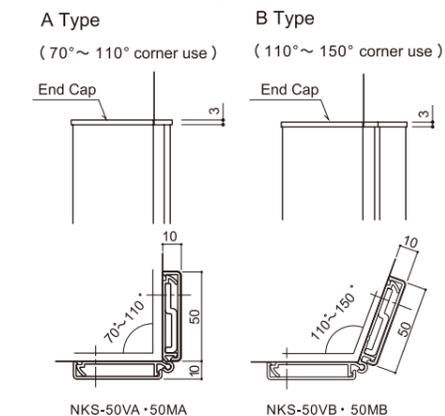
抗菌剂

#### [ MODEL ]

NKS-50VA · NKS-50VB (Plain)  
NKS-50MA · NKS-50MB (Wooden)



#### [ SECTION DETAIL ]



#### [ Specifications ]

Top Cover / Shock-resistant Hard Plastic  
Standard Size / L=2500mm  
Retainer / Extruded Aluminium A6063-T5  
End Cap / ABS Plastic

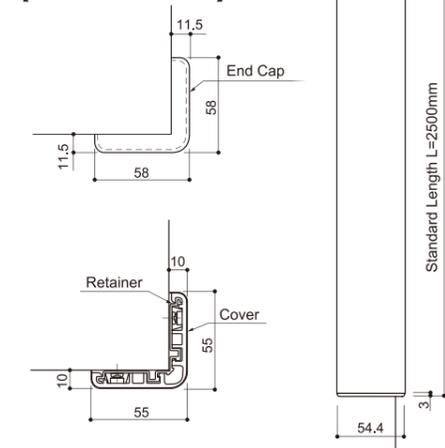
### SFT TYPE Soft PVC Corner Guard

#### [ MODEL ]

SFT-55V (Plain)  
SFT-55M (Wooden)



#### [ SECTION DETAIL ]



#### [ Specifications ]

Top Cover / Shock-resistant Hard Plastic  
Standard Size / L=2500mm  
Retainer / Extruded Aluminium A6063-T5  
End Cap / ABS Plastic

### NT TYPE Fix Angle

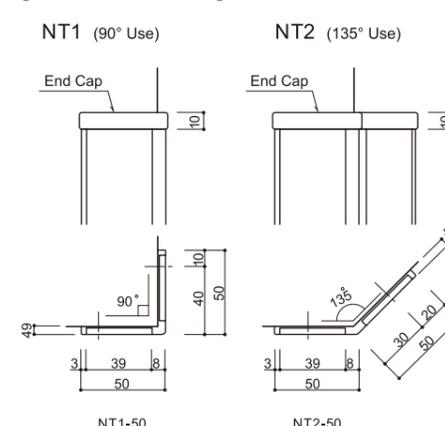
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#### [ MODEL ]

NT1-50V · NT2-50V (Plain)  
NT1-50M · NT2-50M (Wooden)



#### [ SECTION DETAIL ]



#### [ Specifications ]

Top Cover / Shock-resistant Hard Plastic  
Standard Size / L=2500mm  
Retainer / Extruded Aluminium A6063-T5  
End Cap / ABS Plastic

# Wall · Column Protection Material 「Corner Guard」 CORNER GUARD



NPC type



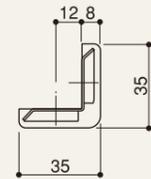
## Specifications

Main Body / Soft Vinyl Chloride  
Installation and Foundation Material / Aluminium A6063S-T5

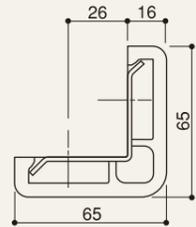
## Colour



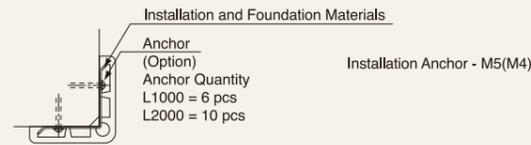
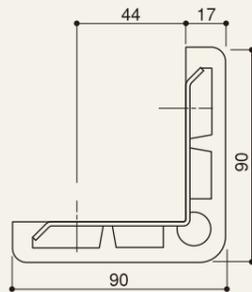
NPC-3535V



NPC-6565V



NPC-9090V S=1/3



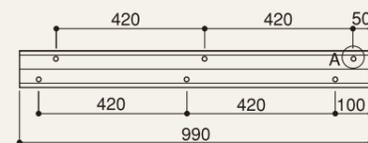
Unit : mm

Model No.	Length L (mm)	Installation and Foundation Dimensions			
		a	b	c	Board thickness
NPC-3535V	1,000	14	37	6	1.2
	2,000				
NPC-6565V	1,000	27	71	10	1.2
	2,000				
NPC-9090V	1,000	41	102	12	1.6
	2,000				

( ) dimensions show 3535V

## Installation and Foundation Material

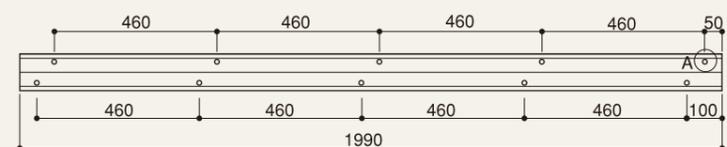
● L=1,000mm



● Detailed Drawing of Section A



● L=2,000mm



# Shock Absorption Material 「Car Stopper」 CAR STOPPER

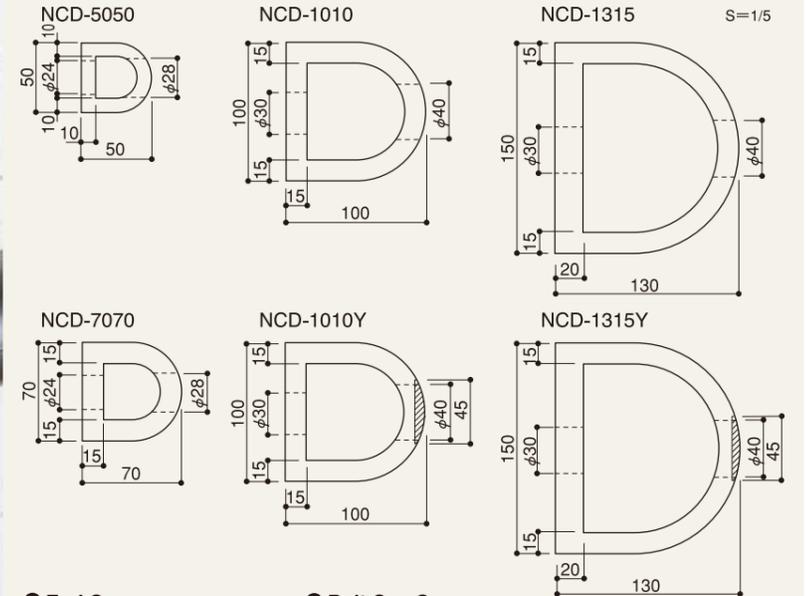
NCD type



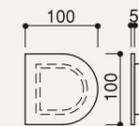
## Specifications

Main Body / Synthetic Rubber  
Installation and Foundation Material / Steel

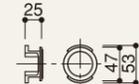
## Colour



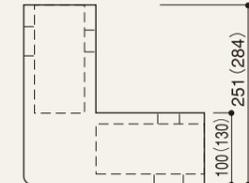
● End Cap S=1/10  
(Option / For NCD-1010 only)



● Bolt Cap Cover S=1/10  
(Option / For NCD1010 - 1315)



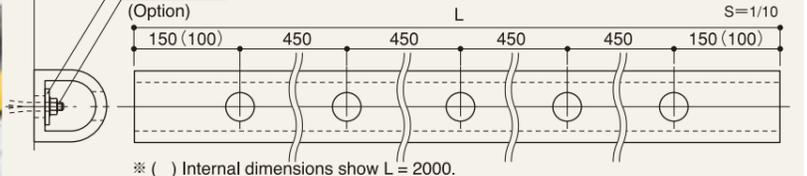
● External Corner S=1/10  
(Option / For NCD1010 - 1315)



Unit : mm

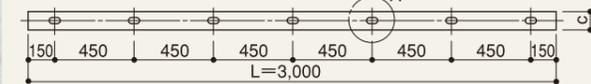
Model No.	Length L (mm)	Installation and Foundation Dimensions			
		a	b	c	Board thickness
NCD-5050	3,000	10	20	30	3
NCD-7070	3,000	10	20	40	3
NCD-1010 (NCD-1010Y) *	3,000	18	30	50	4.5
NCD-1315 (NCD-1315Y) *	2,000	18	30	50	4.5

\* indicates inclusion of yellow line

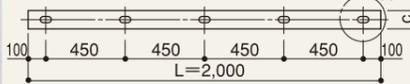


## Installation and Foundation Material S=1/40

● L=3,000mm



● L=2,000mm



● Detailed Drawing of Section A



Installation Anchors  
NCD-5050·7070 M8  
NCD-1010·1315 M12

3000N  
SERIES

## LOADING 3000N CALCIUM SILICATE FLOOR PANEL SYSTEM

### AC3000-DK H70-300

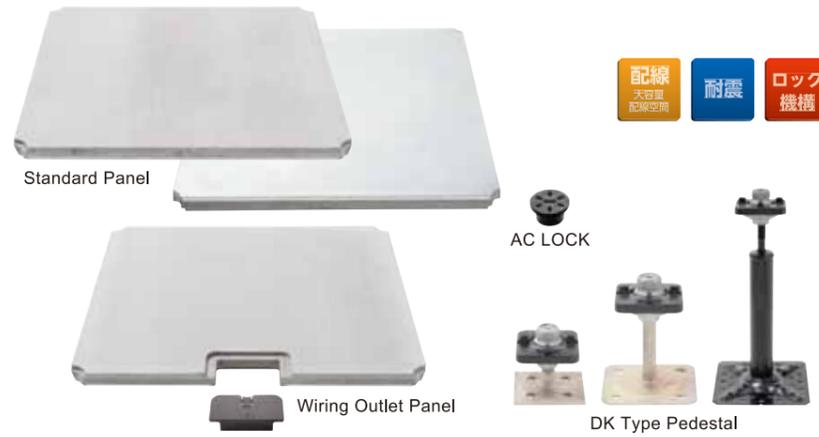
Standard panel and wiring outlet panel for choice.  
The panel lock system provided high earthquake resistance and comfortable walk way.

#### Specification

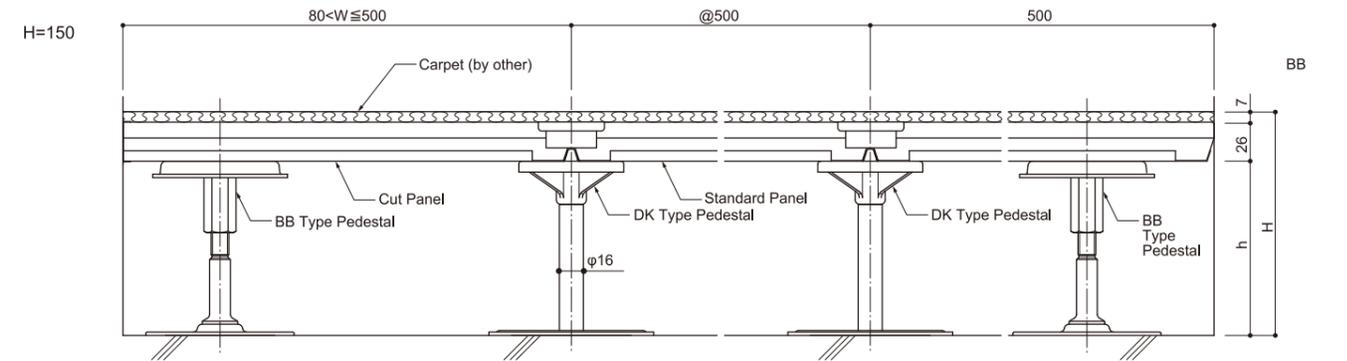
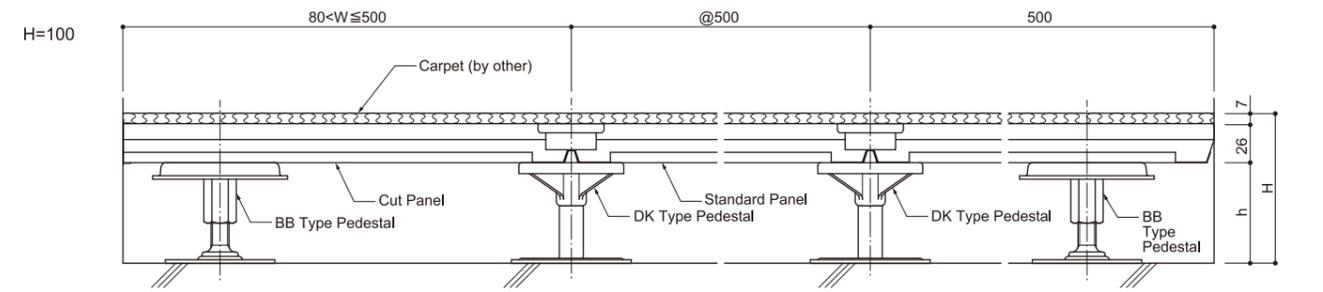
System Weight	Concentrated Load at Panel Centre	Earthquake Performance
H=100mm Type	Apply 3000N (300kgf) Panel Deflection : Less than 5.0mm Permanet Deflection : Less than 3.0mm	1G Clear (Apply 350kg distribution load on system)

#### Adaptation floor height (Unit : mm)

	70	80	100	120	150	200	250	300
Adjustable Range	+10 -10	+21 -10	+15 -15	+15 -15	+15 -15	+15 -15	+15 -15	+15 -15
Wiring Cavity	37	47	67	87	117	167	217	267



#### SECTION DETAIL



5000N  
SERIES

## LOADING 5000N CALCIUM SILICATE FLOOR PANEL SYSTEM

### AC5000-DK H70-300

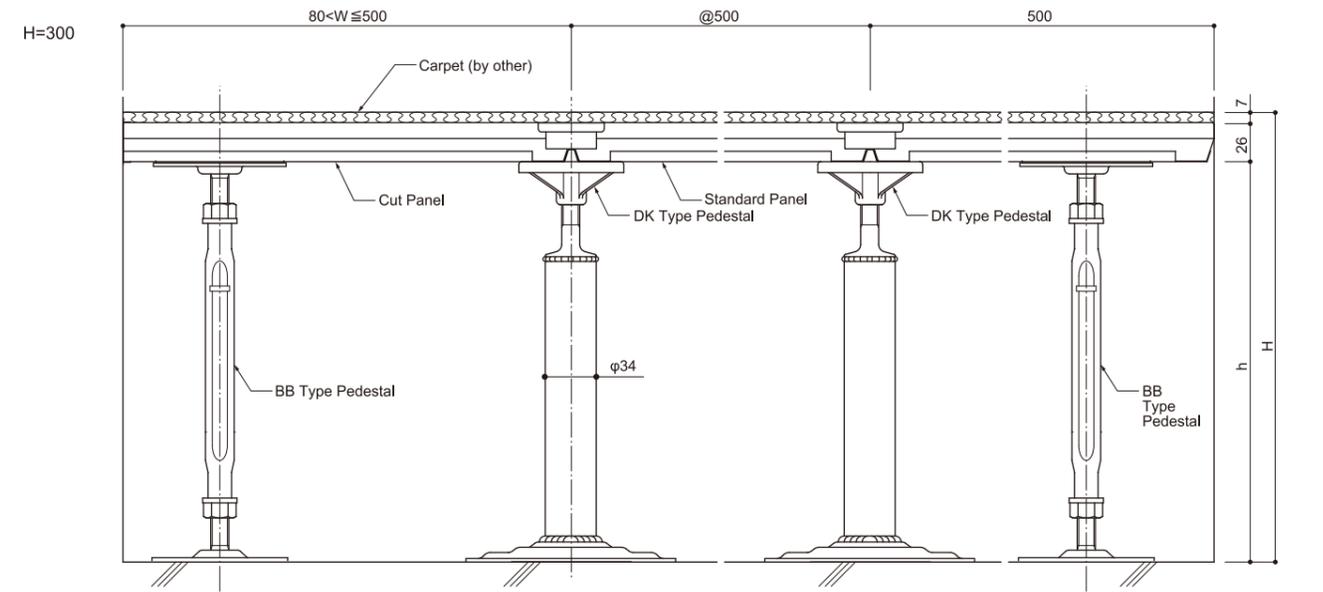
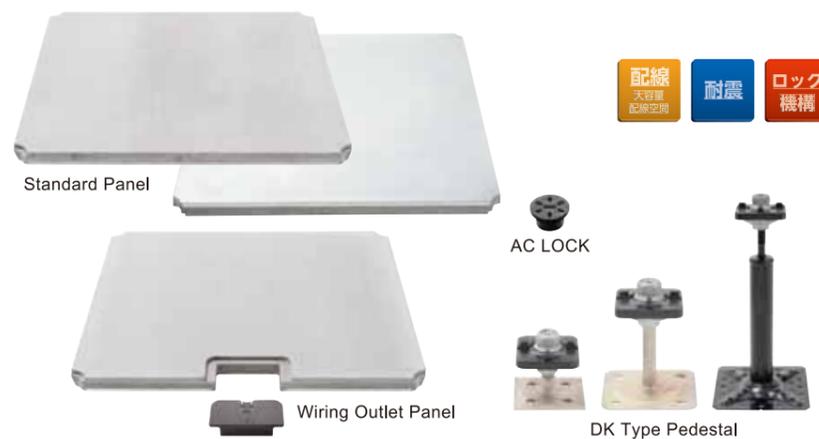
Standard panel and wiring outlet panel for choice.  
The panel lock system provided high earthquake resistance and comfortable walk way.

#### Specification

System Weight	Concentrated Load at Panel Centre	Earthquake Performance
H=100mm Type	Apply 5000N (500kgf) Panel Deflection : Less than 5.0mm Permanet Deflection : Less than 3,0mm	1G Clear (Apply 350kg distribution load on system)

#### Adaptation floor height (Unit : mm)

	70	80	100	120	150	200	250	300
Adjustable Range	+10 -10	+21 -10	+15 -15	+15 -15	+15 -15	+15 -15	+15 -15	+15 -15
Wiring Cavity	37	47	67	87	117	167	217	267



# Construction Reference



**HANDRAIL  
GRA HAN  
0-40G**

Po Leung Kuk  
Eldery Home



**HANDRAIL  
VINI LANE  
0-40V WITH  
BALUSTER**

Omron Factory  
Guangzhou

**HANDRAIL  
VINI LANE  
0-40V**



Po Leung Kuk  
Eldery Home

**SAFETY  
CORNER  
NS-76M**



Po Leung Kuk  
Intergrated  
Centre



**STAIR  
NOSING  
NAP-40CK**

Nan Fung Tower  
Central



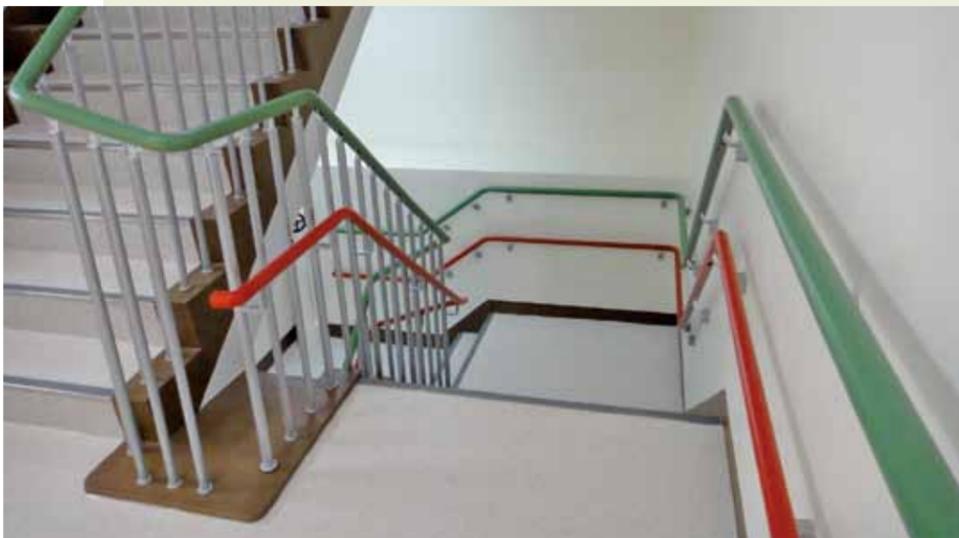
**CORNER  
GUARD  
NPC-9090V**

The Westminster  
Terrace

# Construction Reference



**HANDRAIL  
NEOWOOD  
O-34M**



**HANDRAIL  
VINILANE  
O-40V**

HONG KONG  
YAKULT FACTORY

**DANCING  
ROOM  
HANDRAIL  
O-40M**



**SAFETY  
GRAB BAR  
AI-NO-TE**



**SAFETYLINE  
WALL GUARD  
NS-200V**

MEGA BOX



**BABY ITEM**