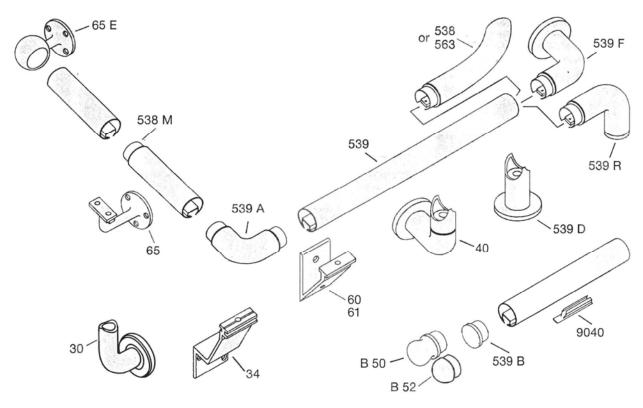
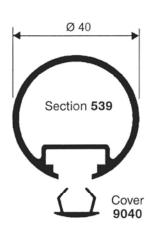
# D. Aluminium skirting, hand railing, Balustrading

- 1. Hand railing, Balustrading and Skirting systems
- 2. Mirror framing system, Hardware, Bed ladders and standard profiles
- 3. Special realizations and color chart





Scale: 1

Ref.	Description	Finishes	Weight Kg
539 9040	Handrail Section in lengths of 6.15 meters (anodized) or 3 meters (coated) Cover in lengths of 4 meters	① Black PVC	0,720/m 0,040/m
40 30 539 D 34 60 61 65	Brackets Adjustable wall bracket Ø 40 Adjustable wall bracket Ø 30 Vertical bracket Standard bracket Bracket type V for reduced space Bracket type V Bracket Ø 14	00000000	0,400 0,260 0,230 0,150 0,140 0,155 0,100
539 B B 50 B 52 539 R 553 563 539 RF 65 E	End conditions End plug Spherical end plug Half spherical end plug 90° return Bent wall return for bracket 60 Bent wall bracket for other bracket 90° return with fixing flange Spherical end plug with fixing flange	000000000	0,060 0,150 0,140 0,200 0,300 0,320 0,300 0,190
539 A 540 C 538 M	Connections 90° angle Bent angle (∞ to specify) Standard connector	① ① Black polyamid	0,160 0,400 0,020

<sup>1)</sup> Aluminium anodized or coated (S

### AND SKIRTING SYSTEMS

#### **Information for specifiers**

The handrailing system 540 N is particularly well adapted to corridors and staircases. The various combinations of the components and finishes allow the use of the system in all kinds of design and budgets.

For staircases, the round brackets 40 and 30 are highly recommended. These references enable a continuous grip on the handrail and a smooth contact of the hand on the bracket.

For narrow corridors, where more space is required for the circulation of passengers, the bracket n° 60, with its reduced gap, is perfectly adapted. Various end conditions with a return to the wall are offering more security. The wall returns with fixing flange allow to spare on additional bracket by the end of the handrail section.



- Engage brackets in the slot of the handrail
- Slide brackets along the rail until they are at required centres (1,200 mm maxi).

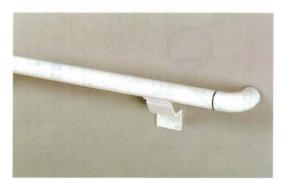
#### **Test reports**

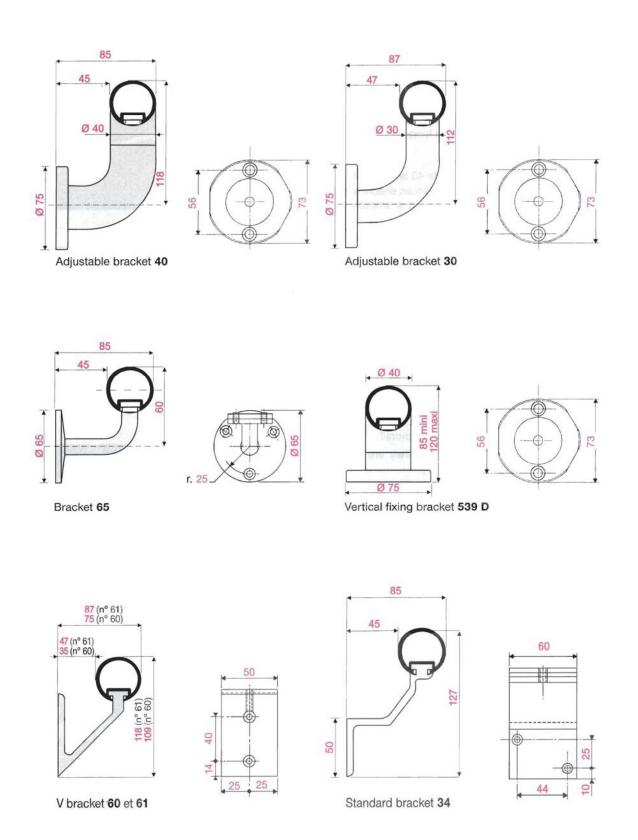
All our handrailing systems have been regulary tested by our quality department in our laboratory. Test results are available on request.





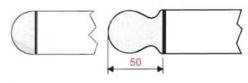






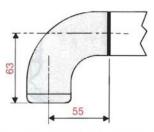


End plug 539 B

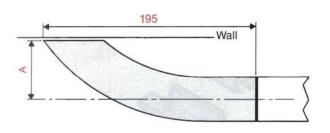


End plug B 52

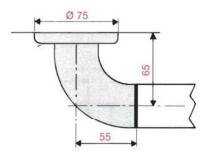
End plug B 50



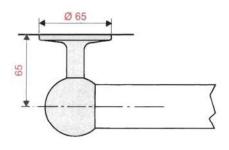
90° return with end plug 539 R



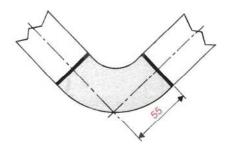
Wall return 553 for bracket 60. A = 55 mm563 for other bracket. A = 65 mm



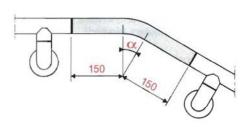
90° return with fixing flange 539 RF



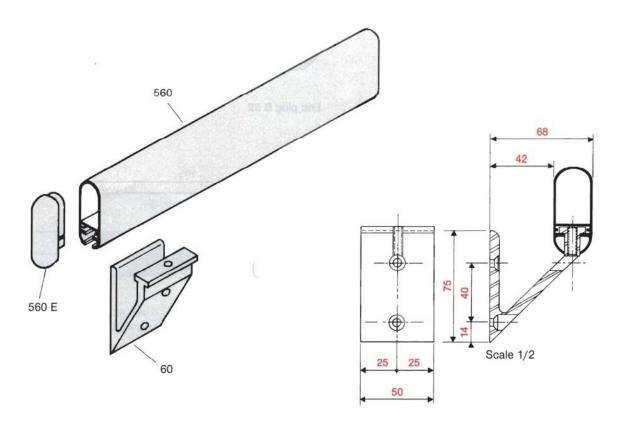
End bracket 65 E



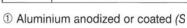
90° angle 539-A

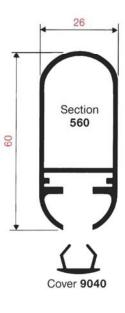


Angle joint **540 C** ( $\alpha$ : to be specified).



Ref.	Description	Finishes	Weight Kg
560	Section in lengths of 6.15 meters (anodized) or 3 meters (coated)	①	0,690/ml
9040	Cover in lengths of 4 meters.	Black PVC	0,040/ml
60	Bracket type V	1	0,140
560 E	End Plug	①	0,040





Scale 1/1

## AND SKIRTING SYSTEMS

#### **Specification**

Oval shaped profile, ref. RI  $\,^{\circ}$  560, in extruded aluminium with PVC sections covering the slot.

Aluminium extruded bracket, ref. RI '60, self tightened by screw in the handrail slot.

Aluminium cast end plug ref. F ' 560 E with fixing screw.

All components are manufactured in robust extruded or cast aluminium and are available as standard in 8 polyester and 6 anodized colours.

#### **Applications**

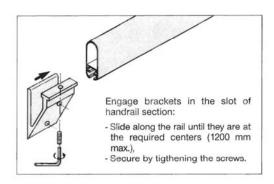
Specially designed for the corridors of the passenger vessels, the handrail 560 combines aesthetiscism and full grip requirements.

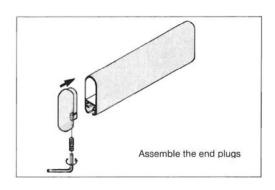
The handrail 560 is particulary well adapted for small corridor lengths between doors.

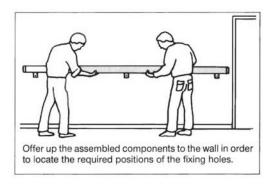
All aluminium anodized or polyester coated finishes match all kinds of interior designs.

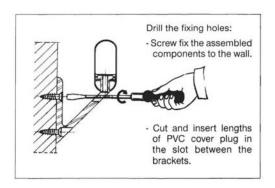


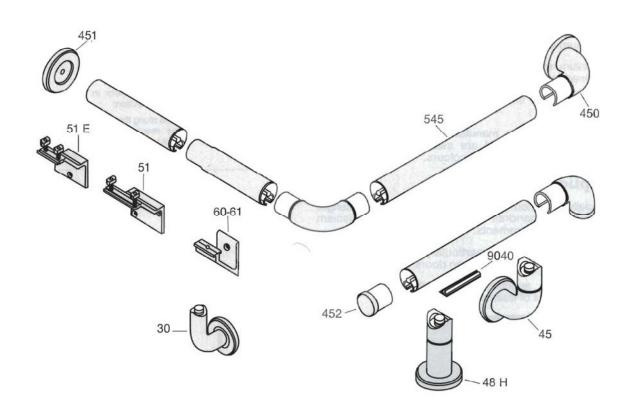
Sovereign of the seas

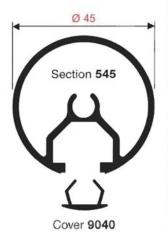












Scale: 1	454 455 760	90° angle Angle joint Standard conne

Ref.	Description	Finishes	Weight Kg
545 9040	Handrail Section in lengths of 6.15 meters (anodized) or 3 meters (coated) Cover in lengths of 4 meters.	① Black PVC	0,950/m 0,040/m
45 30 48 H 51 51 E 60 61	Brackets Adjustable wall bracket Ø 45 Adjustable wall bracket Ø 30 Vertical bracket (118 to 225 mm) Standard bracket 78 mm Standard bracket 50 mm Bracket type V for reduced space Bracket type V	(h)	0,550 0,260 0,500 0,170 0,160 0,140 0,155
450 451 452 453	End conditions 90° return with fixing flange Fixing flange End plug 90° return	① ① ①	0,480 0,150 0,065 0,350
454 455 760	Connections 90° angle Angle joint Standard connector	① ① Black polyamid	0,380 0,520 0,045

① Aluminium anodized or coated (§

## AND SKIRTING SYSTEMS

#### **Information for specifiers**

The handrailing system 545 has been developped not only as an handrailing system but as a comprehensive system for corridors and staircases.

Based on a tubular section of 45 mm, the Handrail 545 complies with full grip requirement.

Round shaped brackets n° 45 and 30 offer maximum clearance for the passage of the hand along the handrail, together with a smooth contact of the hand on the bracket.

This is particulary appreciated in stairways where a continuous grip of handrail is needed.

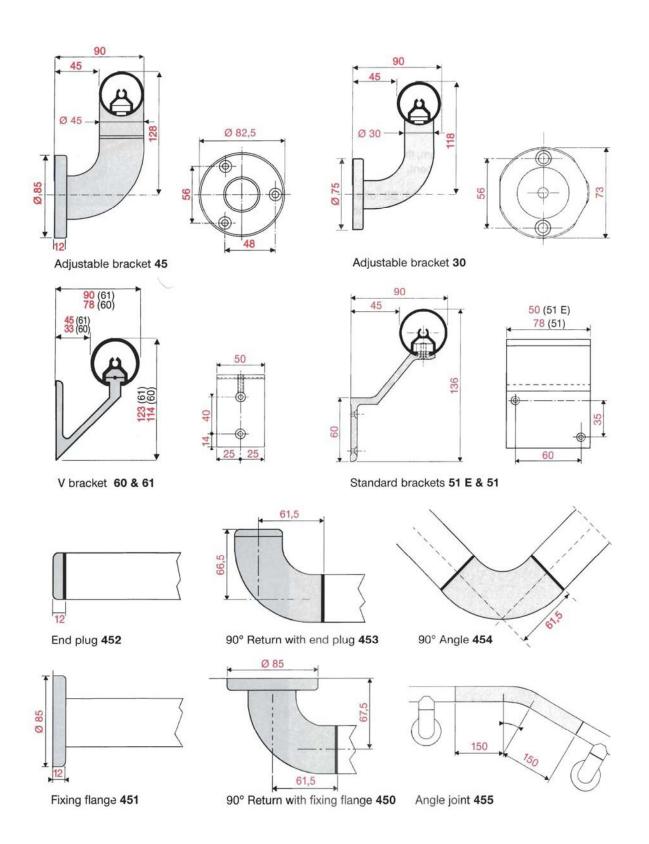
With the same system and design, specifiers can obtain a high quality product as handrail and balustrade in stairways.

Light, flexigle, offering various combinations of brackets and end conditions, available in several anodized, polyester coated or wood veneered finishes, the Handrail 545 can easily be your signature in a corridor or in a staircase.





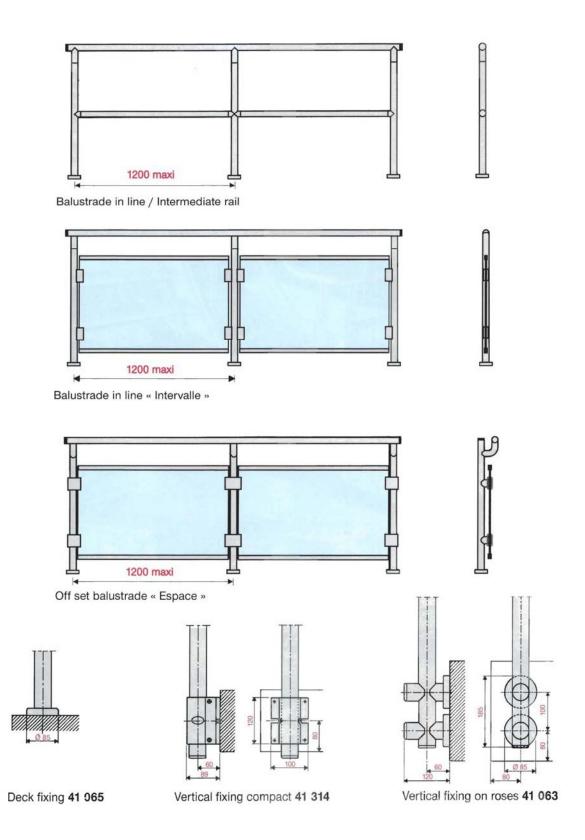






PAGLIA ORBA, SNCM Cruises





## AND SKIRTING SYSTEMS

#### **Information for specifiers**

The 545 Balustrading system offers several advantages.

The 545 system is made of aluminium components (cast or extruded). The weight is then considerably lowered and the resistance to corrosion is increased.

The 545 system is pre-fabricated in our factory. The machining and surface treatment are carried out with precision and care, offering a perfect finish.

The 545 system is assembled on site by mechanical fixings, a

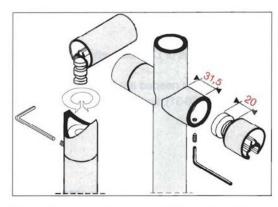
t This ensures a perfect fitting and prevents from the use of toolings on board.

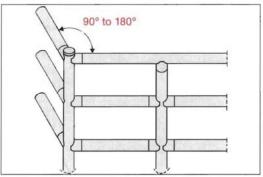
Deck fixing flanges are in corrosion proof treated steel and enable the welding to the deck.

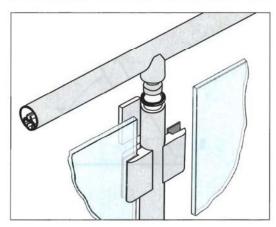
The 545 balustrading system has been succesfully tested according to NORM N.F. P01.013 from Feb. 1985. (Balustrade in public areas). Tests reports are available on request.

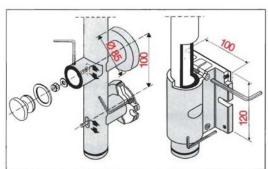
The 545 system has now been adopted for more than 6 years in numerous ferries, freight carriers or military vessels, giving the full satisfaction to shipyards and shipowners.

5



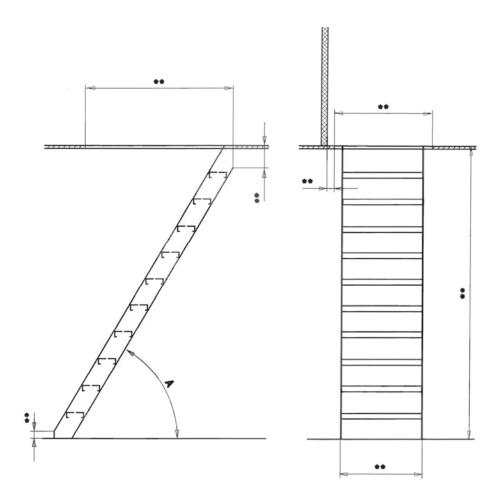






#### How to order

Reliable drawings or DXF disquette of the staircases will be needed to issue the installation drawings.



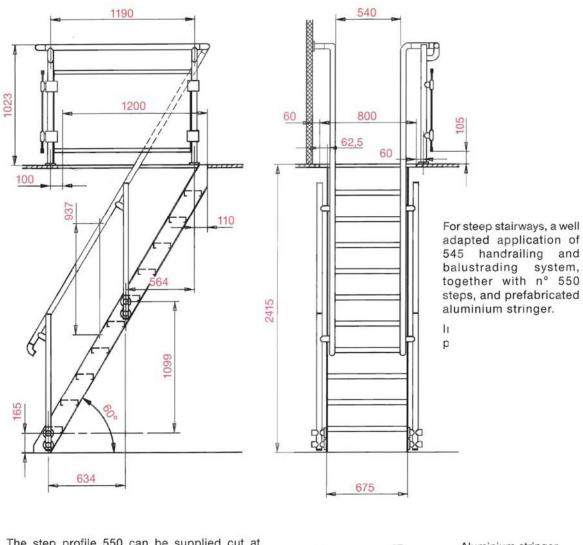
#### **Installation**

f MSP ovides the installation drawings on which all dimensions are specified. R MSP 30 provides the dimensions of the glass panels when necessary.

All the balustrading components are delivered clearly marked as stated in the installation drawing.

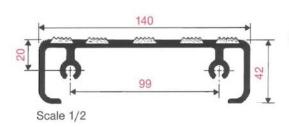
For maximum security, RIV we vays asks for an approval on drawings dimensions prior to manufacturing the balustrade.

## AND SKIRTING SYSTEMS

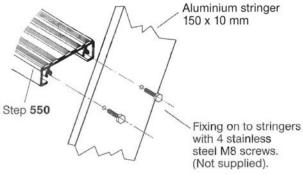


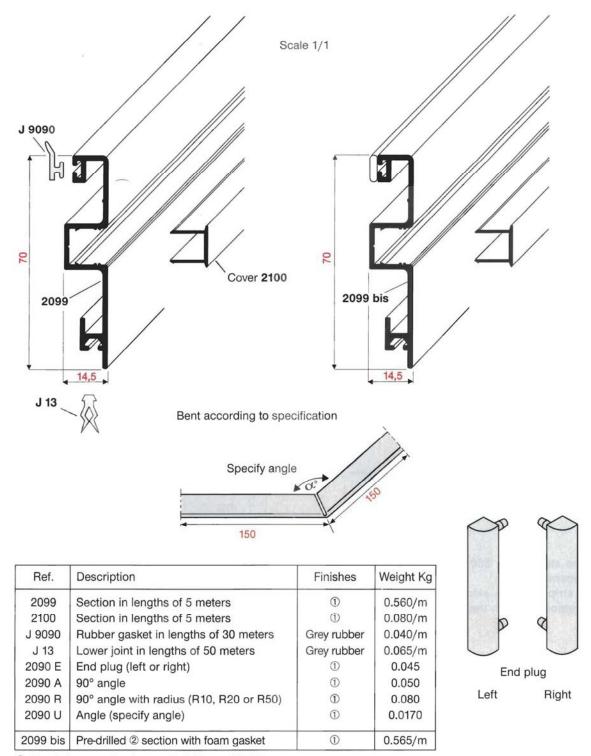
The step profile 550 can be supplied cut at dimension.

5 strips of non skid rubber Réf. 9020 are premounted with the step profile.



Step profile 550

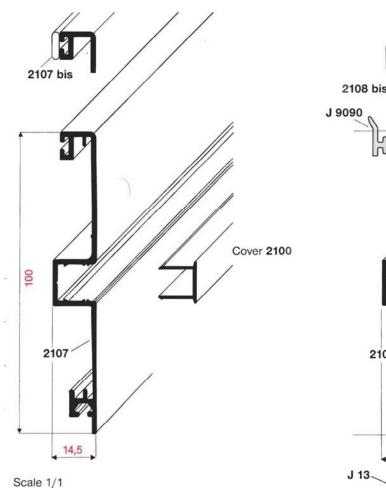


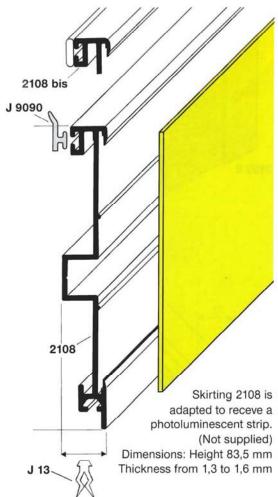


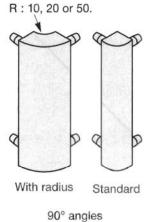
① Aluminium anodized or coated (See p. 30-31).

<sup>2</sup> Fixing holes Ø 5 mm.

## **AND SKIRTING SYSTEMS**





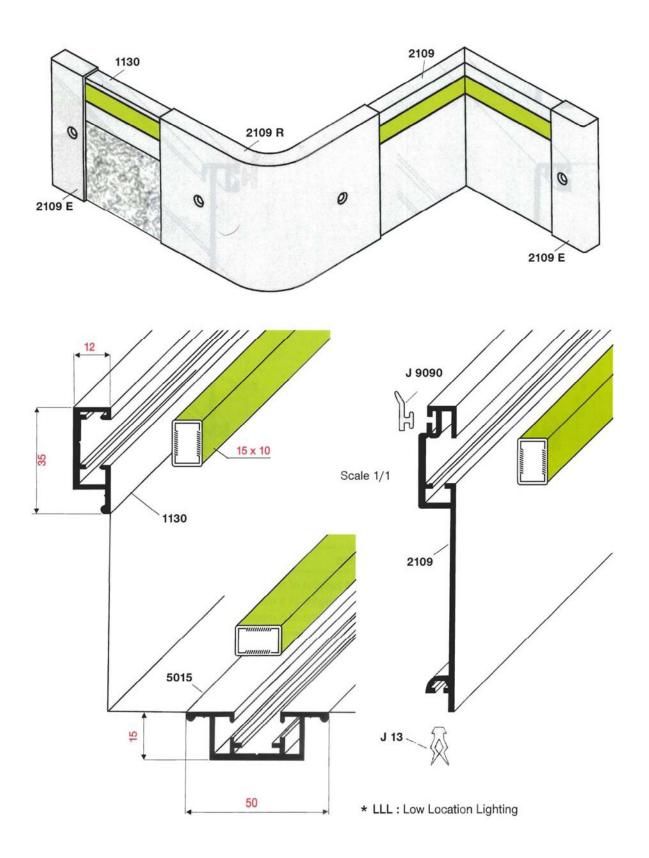


Radius: 10, 20 & 50 mm other radius upon request.

Ref.	Description	Finishes	Weight Kg
2107	Section in lengths of 5 meters	1	0.705/m
2108	Section in lengths of 5 meters	1	0.695/m
2100	Section in lengths of 5 meters	1	0.080/m
J 9090	Rubber gasket in lengths of 30 meters	Grey rubber	0.040/m
J 13	Lower joint in lengths of 50 meters	Grey rubber	0.065/m
2107 E	End plug (left or right)	1	0.055
2107 A	90° angle	①	0.060
2107 R	90° angle with radius (R10, R20 or R50)	1	0.080
2107 U	Angle 2107 (specify angle)	1	0.210
2108 U	Angle 2108 (specify angle)	1	0.210
2107 bis	Pre-drilled ② section with foam gasket	1	0.710/m
2108 bis	Pre-drilled @ section with foam gasket	①	0.700/m

- ① Aluminium anodized (See p. 30-31).
- 2 Fixing holes Ø 5 mm.

\* LLL: Low Location Lighting



### AND SKIRTING SYSTEMS

#### Information

All skirtings have been designed to receive a 15 X 10 mm Low Location Lighting System (Existalite - Glamox).

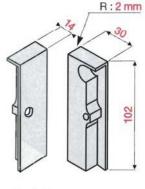
The Skirtings are delivered pre-drilled.

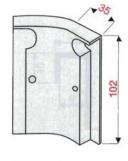
End plugs and corner pieces ar made of solid aluminium for maximum resistance against chocks.

End plugs and corner pieces enable the passage of electrical wires.

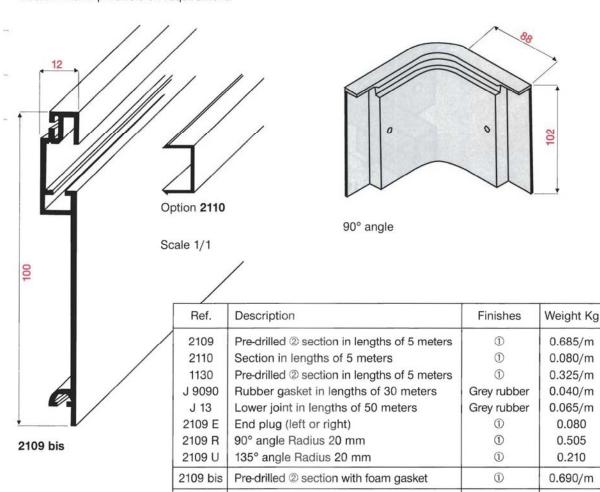
An aluminium cover ref. 2110 is also available for parts without lighting systems.

Custom made products on requirement.





End plug 135° angle



① Aluminium anodized (See p. 30-31).

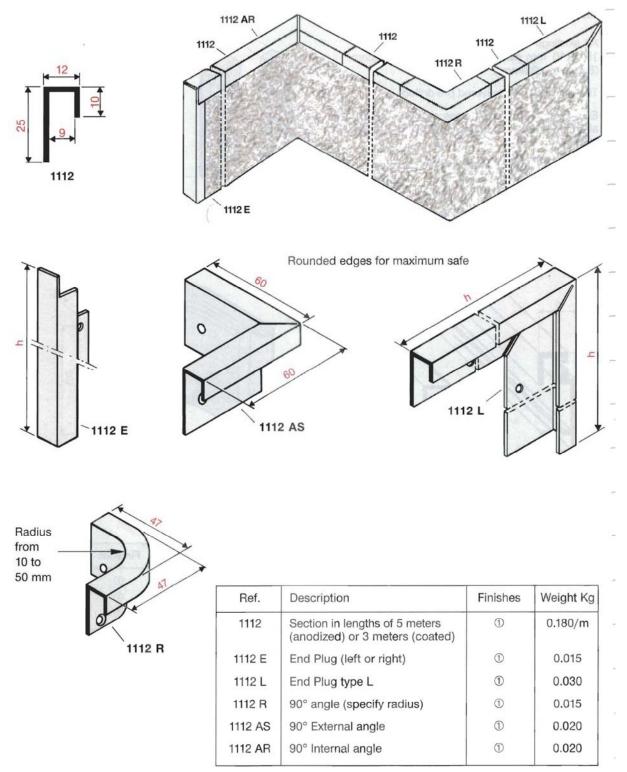
5015

\* LLL: Low Location Lighting

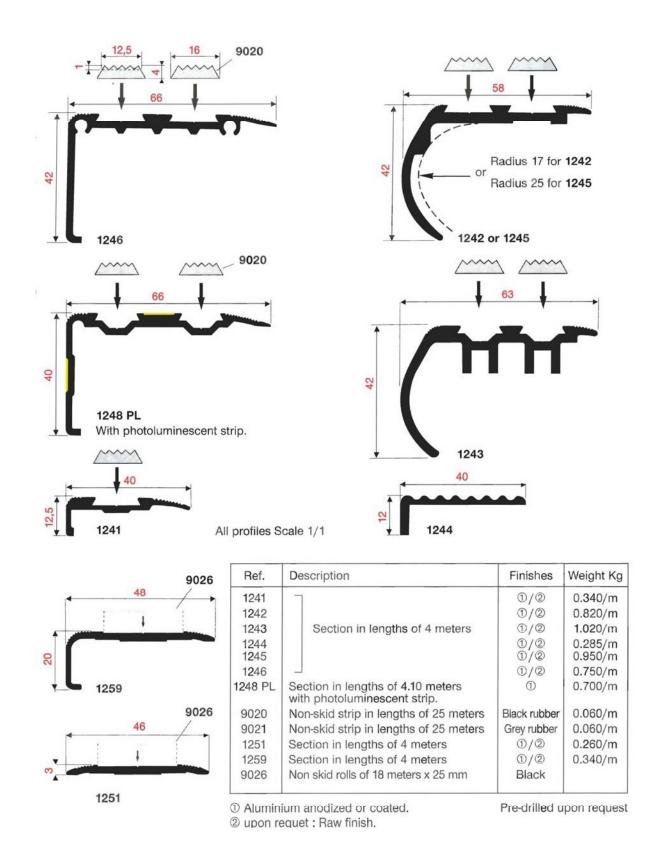
0.470/m

Section in lengths of 5 meters

<sup>2</sup> Fixing holes Ø 5 mm, half-countersunk.

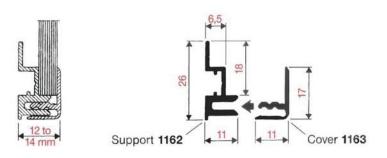


<sup>1</sup> Aluminium anodized or coated.



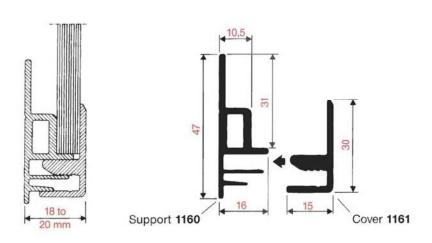
## 2. MIRROR FRAMING SYSTEM

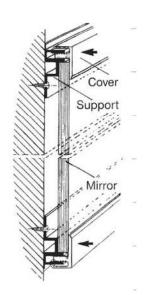
#### HARDWARE, BED LADDERS AND STANDARD PROFILES



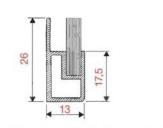


SYSTEM 146. FOR MIRROR FROM 4 TO 6 MM.





SYSTEM 168. FOR MIRROR FROM 6 TO 8 MM.



SECTION 1164. MIRROR 4 TO 6 MM.

Ref.	Description	Finishes	Weight Kg
<u>146</u> 1162		①	0.220/m
1163		0	0.220/m
T 34	Section in lengths of 4 meters (anodized)	Steel	0.005
168	or 2 meters (coated)		
1160		1	0.495/m
1161		①	0.365/m
1164		1	0.260/m

① Aluminium anodized or coated (See p. 30-31). Upon request : realisation of frame to your dimensions.

All profiles Scale 1/1

MSP, 155 South Miami Avenue, Suite 210 / Miami, Florida 33130 – USA

## MIRROR FRAMING SYSTEM

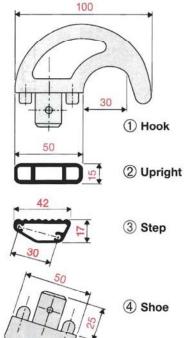
### HARDWARE, BED LADDERS AND STANDARD PROFILES



## **MIRROR FRAMING SYSTEM**

#### HARDWARE, BED LADDERS AND STANDARD PROFILES





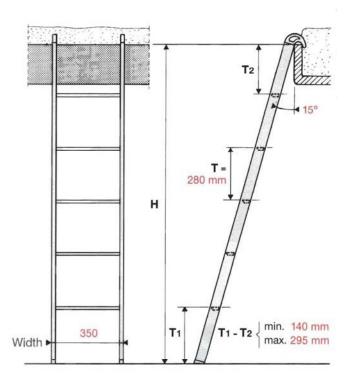
### **Description / Spécification**

- 1 Aluminium epoxy coated hook fixed by rivets onto the upright section.
- Edge rounded upright in extruded aluminium, high resistance.
- 3 Non skid shaped step in aluminium extruded tubular section.
- Metal cast shoe, non skid shape, fixed by rivets onto the upright section.

MSP ad-ladder 910 is manufactured in robust solid aluminium and combines lightness and high resistance. The bed ladder 910 can be stored either at wall on support 910 S or layed on the bed.

Quality tests have been carried out in our laboratories according to European Norm EN 131.2 § 4.

Quality reports are available on requirement.



#### How to order

The ladders are ready to install:

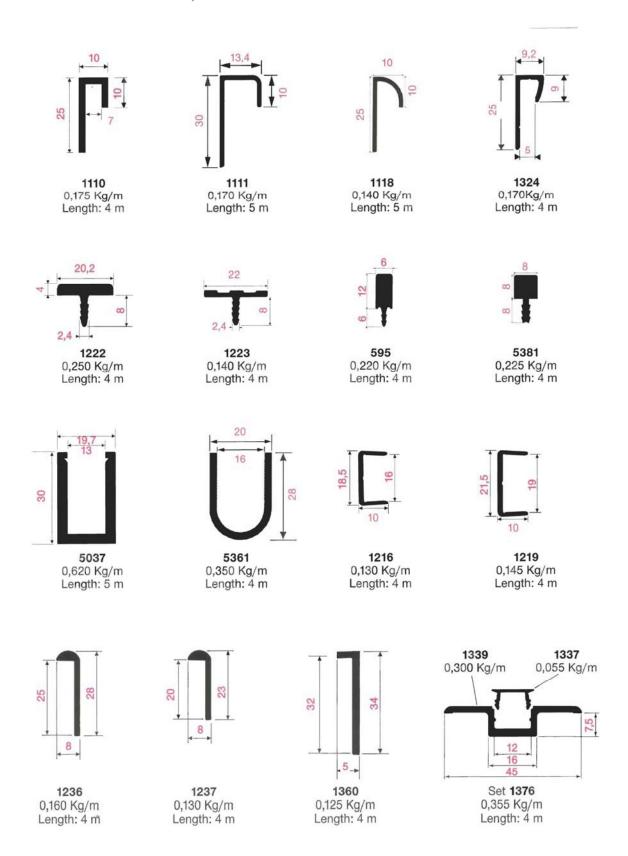
- standard width: 350 mm.
- standard interval between steps: T = 280 mm
- height: according to cabin requirement.

#### Please indicate:

- H: Straight height between upper edge of the bed and floor.
- T1 : Straight height between upper edge of the first step and floor.
- T2: Straight height between upper edge of the last step and upper edge of the bed.

## MIRROR FRAMING SYSTEM

#### HARDWARE, BED LADDERS AND STANDARD PROFILES



## 3. SPECIAL REALIZATIONS AND COLOR CHART



SUN PRINCESS PRINCESS CRUISES

Hand railing and wall protection.



#### PAGLIA ORBA

SNCM

Α

B

Balustrading & Handrailing : System 545, polished gold anodized.

## SPECIAL REALIZATIONS AND COLOR CHART



LEGEND OF THE SEAS RCCL

Carpet skirting system for Low Location Lighting.



LEGEND OF THE SEAS RCCL

40 mm Handrail on wall bracket 65 and 65 E. Carpet skirting 1130 for Low LocationLighting

## SPECIAL REALIZATIONS AND COLOR CHART

#### Anodised finishes and colorations

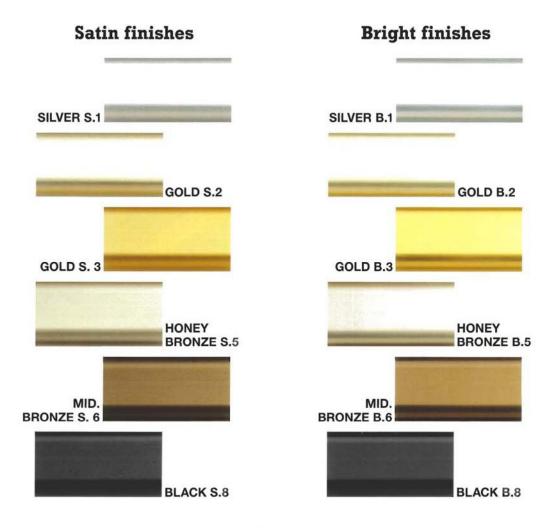
MSP uminium products are available in following finishes and colours. Surface treatment is carried out in our factory, using the finest decorative quality materials.

Colours: Six anodised colours are available:

- SILVER: Natural colour of the aluminium
- CHAMPAGNE: Light gold coloration (Gold 2)
- GOLD: Gold coloration (Gold 3)
- HONEY BRONZE : Light bronze coloration
- MID BRONZE : Medium bronze coloration
- BLACK: Black coloration

#### Finishes: Two finishes are available

- The SATIN aspect which is obtained by a chemical treatment, giving the aluminium a regular satin surface.
- The BRIGHT aspect which is obtained by polishing the material, giving the aluminium a glossy surface.



#### All colorations are available in satin or bright finish

**Maintenance:** Aluminium is maintenance free. Clean with water or soap with water. Do not use any abrasive cleaner.

## HAND RAILING, BALUSTRADING, SKIRTING

### CRUISE VESSEL REFERENCES

**ROYAL CARIBBEAN CRUISES** 

SOVEREIGN OF THE SEAS

NORDIC EMPRESS

MONARCH OF THE SEAS

MAJESTY OF THE SEAS

LEGEND OF THE SEAS

BRILLIANCE OF THE SEAS

**CELEBRITY CRUISES** 

ZENITH

**HORIZON** 

MILLENIUM

INFINITY

**SUMMIT** 

CONSTELLATION

**CENTURY** 

**HOLLAND AMERICA** 

NOORDAM MAASDAM

NIEUW AMSTERDAM

RYNDAM

STATENDAM

WESTERDAM

**SNCM** 

PAGLIA ORBA

RADISSON SEVEN SEAS CRUISES

SEVEN SEAS MARINER

**FESTIVAL SHIPPING** 

MISTRAL

EUROPEAN VISION

**EUROPEAN STARS** 

**CRYSTAL CRUISES** 

CRYSTAL SYMPHONY

**NORWEGIAN CRUISE LINE** 

**NORWAY** 

NORWEGIAN DREAM

NORWEGIAN WIND

**PRINCESS CRUISES** 

CORAL PRINCESS

ISLAND PRINCESS

STAR PRINCESS REGAL PRINCESS

OCEAN PRINCESS

GRAND PRINCESS

SEA PRINCESS

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- > Technical expertise for your refurbishing projects
- Service oriented, quality minded



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Fx: +33 - 251 - 109 - 995 Web: WWW.MSP.WS E-mail: sales@msp.ws