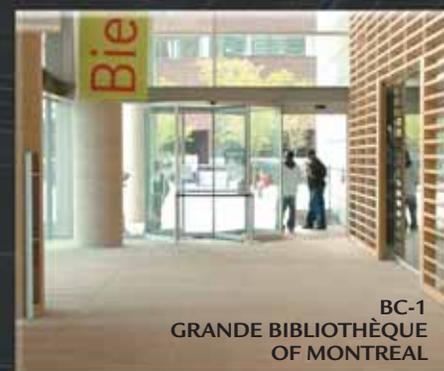
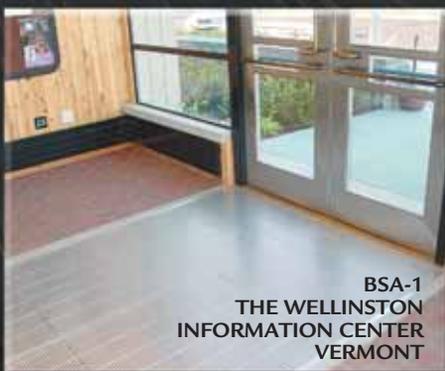


www.BOLAR.com

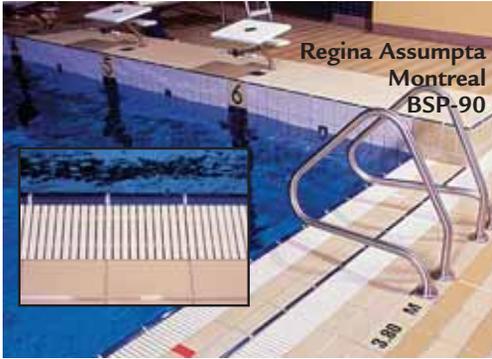
FOOT GRILLE SYSTEMS



5 Years Warranty

SINCE 1946

INDEX



Index 2

General Features 2

Design Line 3

Traditional Line 4-5-6-7-8

Heavy Load Line 8

Isomat Line 9-10

Signature Line 10

Colour Chart for Carpet and Vinyl 10

Technical Specifications of Products 11

GENERAL CHARACTERISTICS

ALL OUR PRODUCTS ARE MANUFACTURED UNDER A PROVEN QUALITY SYSTEM AS REQUIRED BY ALL PROFESSIONALS

FRAMES

- Framing (model and application) aluminum except SSA frame.
- VV Cement floor, terrazzo or ceramic tile
 - TT Wood floor
 - TT Cement floor with carpet
 - TT Existing space in a cement floor, terrazzo or tile floor
 - AD Existing space in cement floor, terrazzo or tile.

ISOMAT products:

- WW For anchoring in concrete
- WWI For anchoring in concrete
- SSA For surface application in aluminum alloys 6063-T6

All our frames, except the SSA models, are offered with an optional anchoring device 100 mm X 7 mm (4" X 5/16") every 600 mm (24"). All of our frames are offered with an optional noise buffering neoprene cushion.

PANS

Recommended is a 1 mm (22 ga.) pan. Other gauges also available. There is a wide variety of materials to choose from for the architect:

- stainless steel
- aluminum
- brass and
- galvanized steel

We recommend stainless steel for long lasting usage.

All our frames, as well as the pans which come into contact with the cement, are given two (2) coats of bituminous paint.

The depth of our pans can also be adjusted upon request.

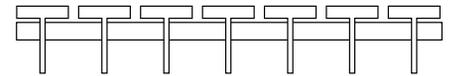
All joints of our frames and pans are sealed with a waterproof epoxy product.

GRILLES

To ensure quality, we have continued our policy of assembling the bars with traverse rods riveted at one end and bolted down at the other.

The traverse rods are covered by a bushing which has a dual function:

- protects the traverse rod against corrosion
- maintains an even spacing between the bars to ensure the stability of the product.



The space required between the bars can vary depending on the need.

We recommend a 4,7 mm (3/16") spacing.

Finishes: Our standard: Natural mill finish.

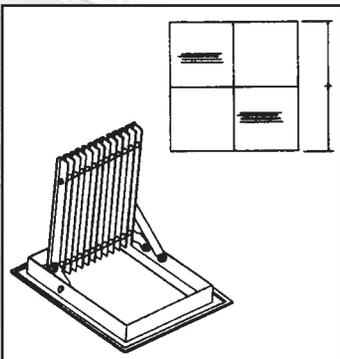
A choice of anodized colors is also available a (.008). Not recommended for the surface of the grilles that come into contact with shoes.

Please note that all models from our **DESIGN LINE** can be interlaced in an irregular manner. These can be fabricated as per your specifications and are available upon request, thus giving you the opportunity to create an exclusive and personalized look for your vestibule, limited only by your imagination.

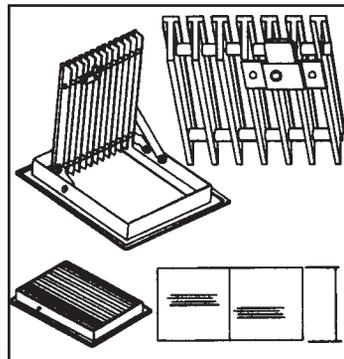
Exemple

- 3 blades of type «A» followed by 2 blades of type «B» Model C033
- 5 blades of type «A» followed by 1 blade of type «B» Model C034
- 4 blades of type «A» followed by 3 blades of type «B» Model C040
- Etc.....

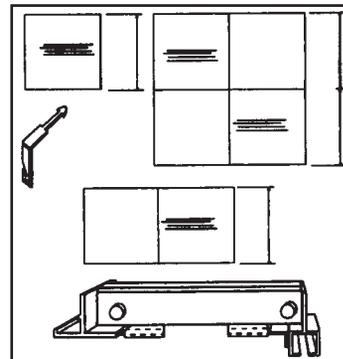
GENERAL OPTIONS: SAFETY FEATURES THAT WILL EXTEND THE PRODUCT'S USEFUL LIFE



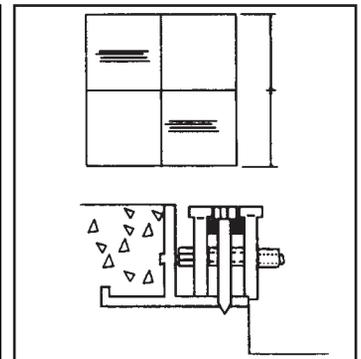
- Option 1: Hinges and lock notch**
- Prevents misplacing of sections
 - Protects wall finishes
 - Facilitates maintenance



- Option 2: Hinges and lock GB-46**
- Prevents grilles vibrations
 - Increases products lifespan
 - Prevents unauthorized access



- Option 3: Lock-set GB-46 only**
- Prevents grilles vibrations
 - Increases products lifespan
 - Prevents unauthorized access



- Option 4: Plates and screws**
- Prevents grilles vibrations
 - Economic way to increase product's lifespan

DESIGN LINE

SPECIFICATIONS AND TECHNICAL DATA

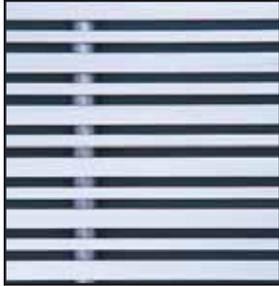
Self cleaning and anti-slip in both direction, these grilles are fabricated using two different types of blades. Assembled in an irregular manner they provide a new design which is both exclusive and modern.

GRILLES

Please note that all models from our **DESIGN LINE** can be interlaced in an irregular manner according to your specific needs. These can be fabricated as per your specifications and are available upon request, thus giving you the opportunity to create an exclusive and personalized look for your vestibule, limited only by your imagination. We recommend that the spacing between each type of blade not exceed 4,7 mm (3/16"). Each module of grille should not exceed 1066 mm (42") (length of blades).

Easy to clean, recommended for all types of building (see test from the CRIQ). Page 11.

CO-37



Section 12 of D.D.N.
SPECIFICATIONS AND
TECHNICAL DATA
(see also on page 11 test from the CRIQ)

Specifications and technical data

Self cleaning grille, anti-slip. Fabricated with two different types of blades and interlaced at an even pace for a modern and exclusive design.

Dimensions and alloys

Dimensions for type "A" are:

9,5 mm x 3 mm x 25 mm (3/8 x 1/8 x 1") and are **not striated** on top.

Dimensions for type «B» blades are: **4,7 mm x 3 mm x 25 mm (3/16 x 1/8 x 1")** and are **not striated** on top.

Aluminum Alloy 6061-T6

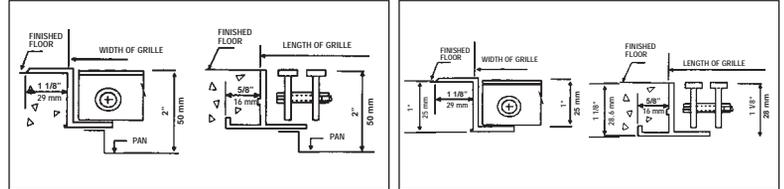
We recommend that the spacing between each blade not exceed: **4,7 mm (3/16")**.

Each grille module should not exceed **1220 mm (4'-0)** (length of blades).

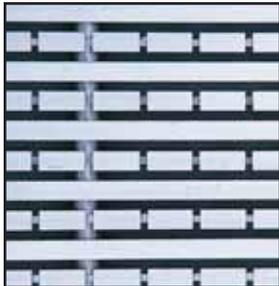
If it should be larger, an intermediary support () will be installed between each module.

Easy maintenance, recommended for all kinds of buildings

TT REGULAR INSTALLATION V V TT LEVEL BASE INSTALLATION V V



CO-34



Section 12 of D.D.N.
SPECIFICATIONS AND
TECHNICAL DATA
(see also on page 11 test from the CRIQ)

DIMENSIONS:

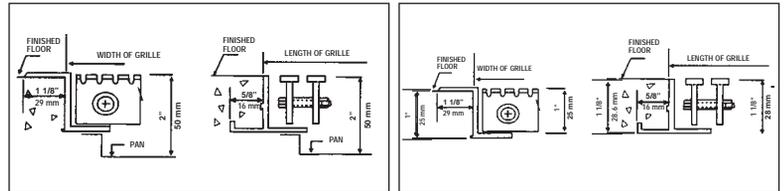
Dimensions of type "A" blades: **9,5 mm x 3 mm x 25 mm (3/8" x 1/8" x 1")** and are **not striated** on top.

Dimensions of type "B" blades: **9,5 mm x 3 mm x 25 mm (3/8" x 1/8" x 1")** and are **striated** every 22 mm (7/8") on top.

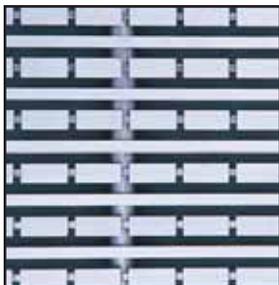
Maintenance of grille is quick and easy.

Recommended for institutional, industrial and commercial buildings.

TT REGULAR INSTALLATION V V TT LEVEL BASE INSTALLATION V V



CO-40



Section 12 of D.D.N.
SPECIFICATIONS AND
TECHNICAL DATA
(see also on page 11 test from the CRIQ)

DIMENSIONS:

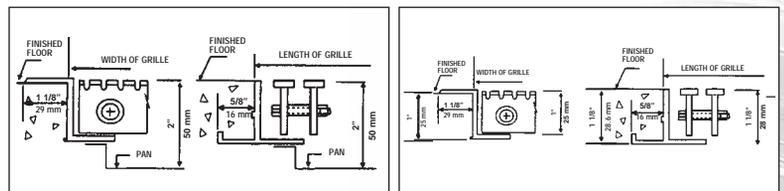
Dimensions for type "A" blades: **4,7 mm x 3 mm x 25 mm (3/16" x 1/8" x 1")** and are **not striated** on top.

Dimensions for type "B" blades: **9,5 mm x 3 mm x 25 mm (3/8" x 1/8" x 1")** and are **striated** on top every 22 mm (7/8").

Maintenance of grille is quick and easy.

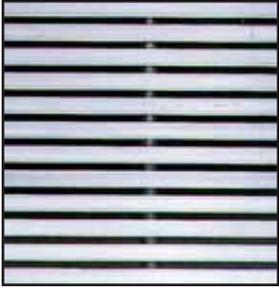
Recommended for institutional, industrial and commercial buildings.

TT REGULAR INSTALLATION V V TT LEVEL BASE INSTALLATION V V



CONVENTIONAL LINE

BA-1



Section 12 of D.D.N.
SPECIFICATIONS AND
TECHNICAL DATA
(see also on page 11 test from the CRIQ)

DIMENSIONS:

9,5 mm x 3 mm x 25 mm
(3/8" x 1/8" x 1")

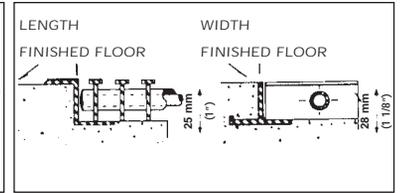
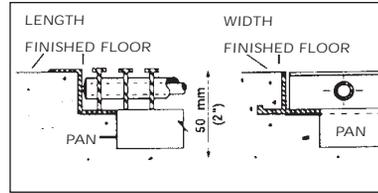
The bars of the grille are T-shaped and made of aluminum 6061-T6.

Suggested base model.

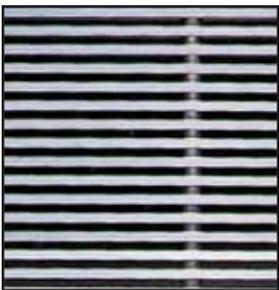
Maintenance of grille is quick and easy.

Recommended for institutional, industrial and commercial buildings.

TT REGULAR INSTALLATION VV TT LEVEL BASE INSTALLATION VV



BA-1-3



Section 12 of D.D.N.
SPECIFICATIONS AND
TECHNICAL DATA
(see also on page 11 test from the CRIQ)

DIMENSIONS:

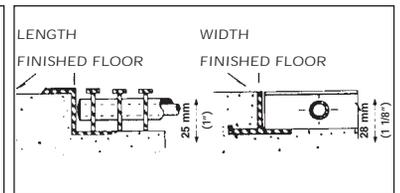
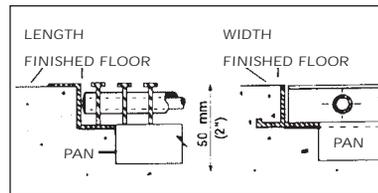
4,7 mm x 3 mm x 25 mm
(3/16" x 1/8" x 1")

The bars of the grille are T-shaped and made of aluminum 6061-T6.

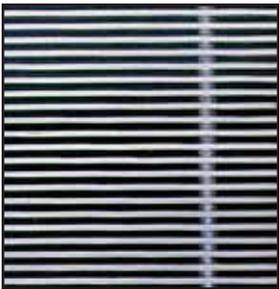
Maintenance of the grille calls for special attention due to the size of the "T" (4,7 mm 3/16").

Recommended for institutional and commercial buildings.

TT REGULAR INSTALLATION VV TT LEVEL BASE INSTALLATION VV



BA-2



Section 12 of D.D.N.
SPECIFICATIONS AND
TECHNICAL DATA
(see also on page 11 test from the CRIQ)

DIMENSIONS:

The bars of the grille are rectangular and made of aluminum 6061-T6, stainless steel or brass. This is the only model available in other materials than aluminum. CRIQ test results are based on model 3 mm x 25 mm (1/8" x 1"). Other dimensions upon request, no limit. The construction of the dirt collecting bars calls for special cleaning techniques and therefore special attention must be given to its care and upkeep by maintenance staff.

Other blades available:

3,0 mm x 19 mm (1/8" x 3/4")

4,7 mm x 38 mm (3/16" x 1-1/2")

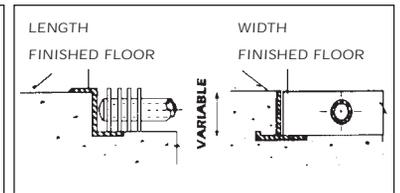
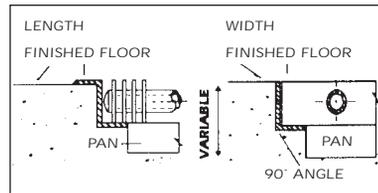
4,7 mm x 25 mm (3/16" x 1")

4,7 mm x 63 mm (3/16" x 2-1/2")

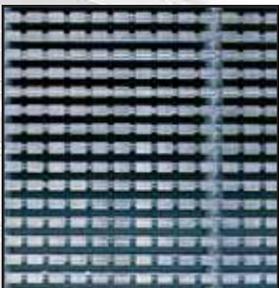
6,4 mm x 25 mm (1/4" x 1")

Recommended for all types of building, institutional commercial, industrial and ventilation.

TT REGULAR INSTALLATION A D TT LEVEL BASE INSTALLATION VV



BSA-1-3



Section 12 of D.D.N.
SPECIFICATIONS AND
TECHNICAL DATA
(see also on page 11 test from the CRIQ)

DIMENSIONS:

4,7 mm x 3 mm x 25 mm (3/16" x 1/8" x 1")

The blades are striated at every 9,5 mm (3/8"). The notch is 3,2 mm (9/64") in width by 4,7 mm (3/16") in depth. We recommend that the spacing between the bars does not exceed 4,7 mm (3/16"). Each grille is supported at 600 mm (24") intervals by an invisible support installed under the grille for grilles that do not exceed 1066 mm (42") in length. For a grille of greater size, an intermediary support must be installed.

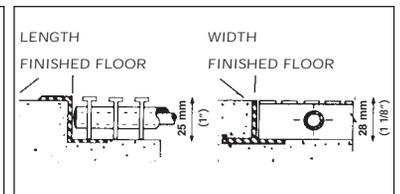
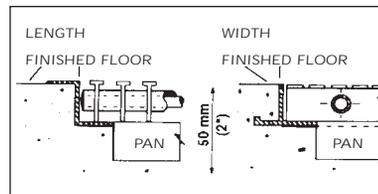
This anti-slip grille is specially designed for 2-way entrances.

The bars of the grille are T-shaped and made of aluminum 6061-T6.

Maintenance of grille is quick and easy.

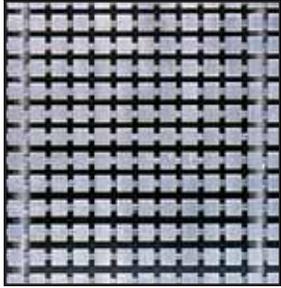
Recommended for all kinds of buildings.

TT REGULAR INSTALLATION VV TT LEVEL BASE INSTALLATION VV



CONVENTIONAL LINE

BSA-1



Section 12 of D.D.N.
SPECIFICATIONS AND
TECHNICAL DATA
(see also on page 11 test from the CRIQ)

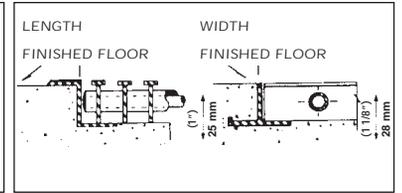
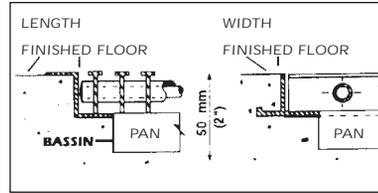
DIMENSIONS:

9,5 mm x 3 mm x 25 mm
(3/8" x 1/8" x 1")

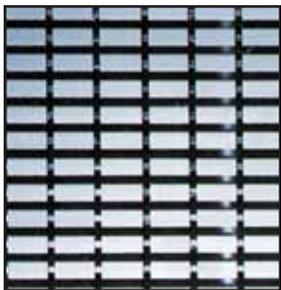
Is also suitable for contouring trees.
One of the most effective ways to protect
your floors. Anti-slip grille is specially
designed for multi-directional entrances.
The bars of the grille are T-shaped and
striated every 9,5 mm (3/8").

Maintenance of grille is quick and easy.
Recommended for all kinds of buildings.

TT REGULAR INSTALLATION VV TT LEVEL BASE INSTALLATION VV



BSA-4



Section 12 of D.D.N.
SPECIFICATIONS AND
TECHNICAL DATA
(see also on page 11 test from the CRIQ)

DIMENSIONS:

9,5 mm x 3 mm x 25 mm
(3/8" x 1/8" x 1")
(Striée à tous les 25mm (1"))

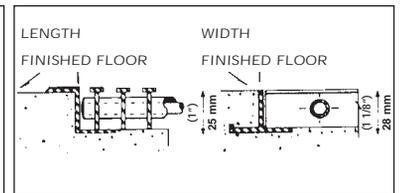
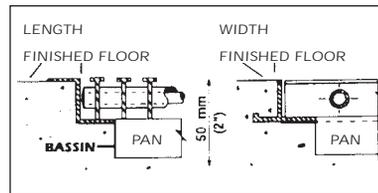
New futuristic design guaranteed.
Anti-slip in both directions. The
blades are in aluminum and are "T"
shaped.

Aluminum alloy 6061-T6.

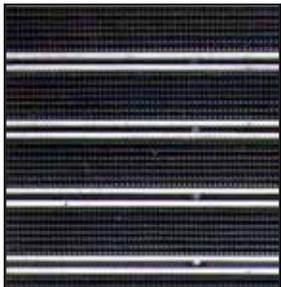
(Striated every 25 mm (1"))

Maintenance of grille is quick and easy.
Recommended for all kinds of buildings.

TT REGULAR INSTALLATION VV TT LEVEL BASE INSTALLATION VV



BSV-3



Section 12 of D.D.N.
SPECIFICATIONS AND
TECHNICAL DATA
(see also on page 11 test from the CRIQ)

DIMENSIONS:

35 mm x 3 mm x 38 mm
(1 5/16" x 1/8" x 1 1/2")
Thickness of vinyl is 4,7 mm (3/16")

The bars of the grille are in aluminum with
striated self-cleaning multi directional vinyl
inserted and locked into place at each
extremity and also interchangeable.

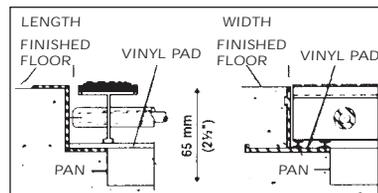
Vinyl durometer 90.

Designed to combine form and fonction, this model is recommended in office complex, commercial, institutional and residential use.

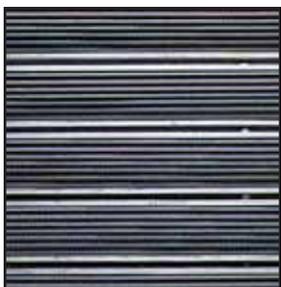
Maintenance of grille is quick and easy.

Choice of contemporary colors (see chart page 10), other colors available upon request with minimum quantity required.

TT REGULAR INSTALLATION VV TT LEVEL BASE INSTALLATION VV



BV-3



Section 12 of D.D.N.
SPECIFICATIONS AND
TECHNICAL DATA
(see also on page 11 test from the CRIQ)

DIMENSIONS:

35 mm x 3 mm x 38 mm
(1 5/16" x 1/8" x 1 1/2")
Thickness of vinyl is 4,7 mm (3/16")

The bars of the mat are in aluminum and
are covered with a rectilinear vinyl inserted
and locked into place at each extremity
and also interchangeable.

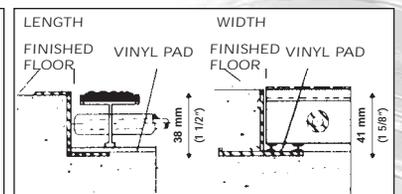
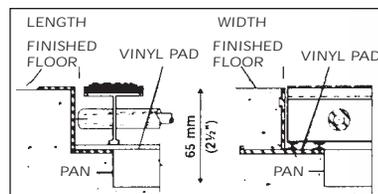
Vinyl durometer 90.

Designed to combine form and fonction, this model is recommended in office complex, commercial, institutional and residential use.

Maintenance of grille is quick and easy.

Choice of contemporary colors (see chart page 10), other colors available upon request with minimum quantity required.

TT REGULAR INSTALLATION VV TT LEVEL BASE INSTALLATION VV



CONVENTIONAL LINE

BLA-1



Section 12 of D.D.N. SPECIFICATIONS AND TECHNICAL DATA (see also on page 11 test from the CRIQ)

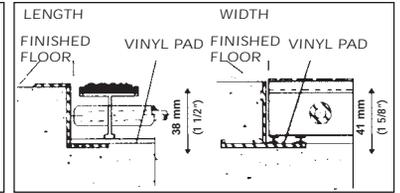
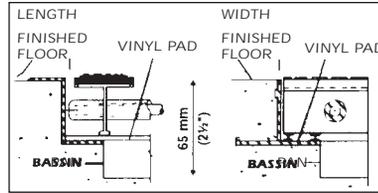
DIMENSIONS:

35 mm x 3 mm x 38 mm
(1 5/16" x 1/8" x 1 1/2")

The bars of the grille are made of aluminum alloy 6061-T6 and large T-shaped with a serrated surface.

Easy to clean, at a low price and recommended for all types of building.

- TT REGULAR INSTALLATION VV TT LEVEL BASE INSTALLATION VV



BA-3/4



Section 12 of D.D.N. SPECIFICATIONS AND TECHNICAL DATA (see also on page 11 test from the CRIQ)

DIMENSIONS:

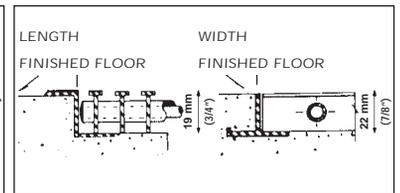
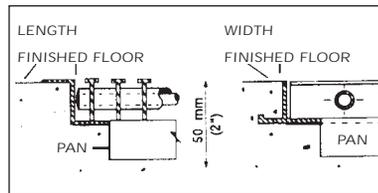
9,5 mm x 3 mm x 19 mm
(3/8" x 1/8" x 3/4")

The bars of the grille are T-shaped and made of aluminum 6061-T6.

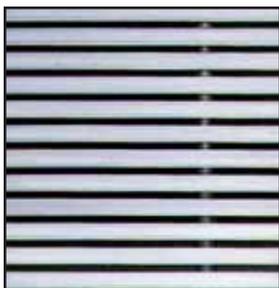
Specifically designed for floors with limited thickness (less than 25 mm (1")) and is built economically. Each grille is supported at 600 mm (24") intervals by an invisible support installed under the grille for grilles that do not exceed 915 mm (36") in length. For a grille of greater size, an intermediary support must be installed for regular installation.

Maintenance of grille is quick and easy.
Recommended for all kinds of buildings.

- TT REGULAR INSTALLATION VV TT LEVEL BASE INSTALLATION VV



BA-125



Section 12 of D.D.N. SPECIFICATIONS AND TECHNICAL DATA (see also on page 11 test from the CRIQ)

DIMENSIONS:

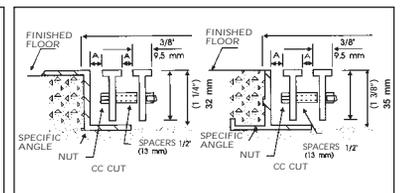
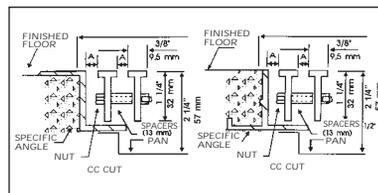
9,5 mm x 3 mm x 32 mm
(3/8" x 1/8" x 1 1/4")

The bars of the grille are T-shaped and made of aluminum 6061-T6.

Maintenance of grille is quick and easy.
Recommended for many types of building such as commercial, institutional and industrial.

This model can also be striated as models BSA-1 and BSA-4 on page 5, add necessary text, depending on choosen model and code the model BSA-125 for BSA-1 or BSA-1254 for (BSA-4).

- TT REGULAR INSTALLATION VV TT LEVEL BASE INSTALLATION VV



BV-7



Section 12 of D.D.N. SPECIFICATIONS AND TECHNICAL DATA (see also on page 11 test from the CRIQ)

DIMENSIONS:

19mm X 3mm X 38mm
(3/4" X 1/8" X 1 1/2")
The thickness of the vinyl is 6.4mm
(1/4") **Durometer 90**

The bars are made of aluminum and are covered with a **rectilinear vinyl**. Wrap around the surface of the blade and locked at each end, the vinyl surface can be interchanged or replaced.

CRIQ test result are based on model 19mm x 3mm x 38mm (3/4" X 1/8" X 1 1/2").

Designed to combine form and function, this model is used in office complex, commercial, institutional and residential buildings.

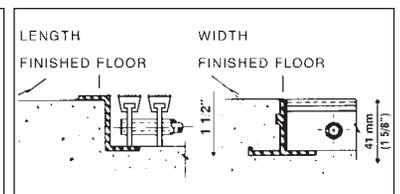
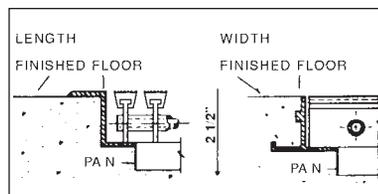
Other blades available :

BV-5 = 19mm x 3mm x 25.40mm (3/4" x 1/8" x 1") BV-6 = 19mm x 3mm x 31.75mm (3/4" x 1/8" x 1 1/4") BV-8-HL = 19mm x 3mm x 57.15mm (3/4" x 1/8" x 2 1/4")

Maintenance of grille is quick and easy. A choice of contemporary colors is available.

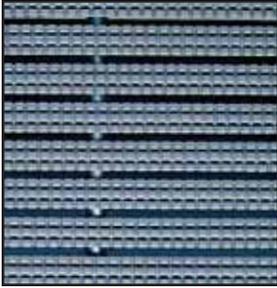
(see color chart on page 10) Other colors available upon request with minimum quantity required.

- TT REGULAR INSTALLATION VV TT LEVEL BASE INSTALLATION VV



CONVENTIONAL LINE

BSV-7



Section 12 of D.D.N. SPECIFICATIONS AND TECHNICAL DATA (see also on page 11 test from the CRIQ)

DIMENSIONS:

19mm X 3mm X 38mm
(3/4" X 1/8" X 1 1/2")
The thickness of the vinyl is 6.4mm (1/4") Durometer 90

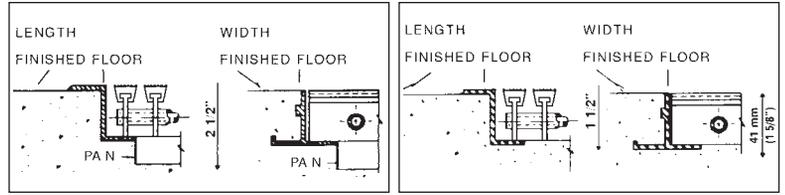
The bars are made of aluminum and are covered with a self cleaning, anti-slip vinyl. Wraparound the surface of the blade and locked at each end, the vinyl surface can be interchanged or replaced.

CRIQ test result are based on model 19mm x 3mm x 38mm (3/4" X 1/8" X 1 1/2"). Designed to combine form and function, this model is used in office complex, commercial, institutional and residential buildings.

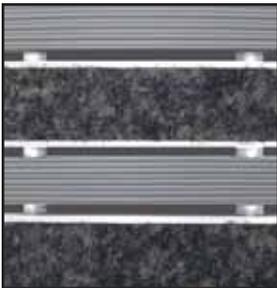
Other blades availables :

BSV-5 = 19mm x 3mm x 25.40mm (3/4" x 1/8" x 1") BSV-6 = 19mm x 3mm x 31.75mm (3/4" x 1/8" x 1 1/4") BSV-8-HL = 19mm x 3mm x 57.15mm (3/4" x 1/8" x 2 1/4") Maintenance of grille is quick and easy. A choice of contemporary colors is available. (see color chart on page 10). Other colors available upon request with minimum quantity required.

TT REGULAR INSTALLATION VV TT LEVEL BASE INSTALLATION VV



BCH-4



Section 12 of D.D.N. SPECIFICATIONS AND TECHNICAL DATA (see also on page 11 test from the CRIQ)

DIMENSIONS:

With carpet inserts: 35 mm x 3 mm x 38 mm (1-5/16" x 1/8" x 1-1/2")
With vinyl insertion: 19 mm x 3 mm x 38 mm (11/16" x 1/8" x 1-1/2")

New design, guaranteed efficiency. The blades are in aluminum and have a vinyl insertion alternating with a carpet inserts. Both are interchangeable and can be replaced or changed to renovate.

Possible blades combinations: BC-1 and BSV-7 or BV-7. See specific model for specifications and colors.

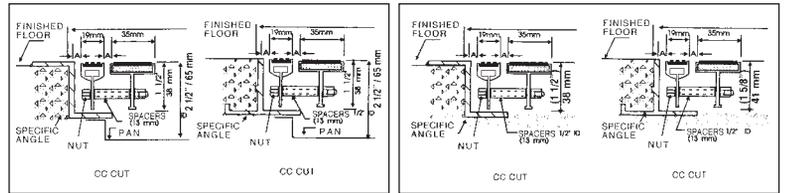
Carpet series: Mannington (short pile finish is recommended).

Vinyl: Durometer 90.

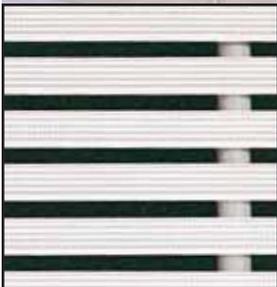
Aluminum: 6061-T6 alloy. Colors (see chart page 10).

Maintenance of grille is quick and easy.

TT REGULAR INSTALLATION VV TT LEVEL BASE INSTALLATION VV



BSP-90



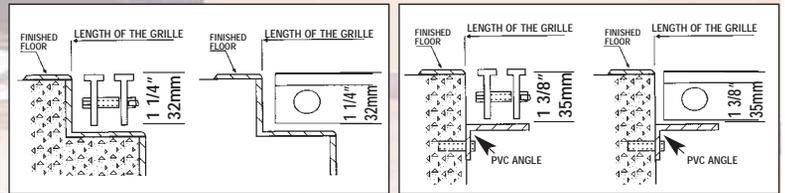
Section 12 of D.D.N. SPECIFICATIONS AND TECHNICAL DATA (see also on page 11 test from the CRIQ)

THE ONLY ONE MADE IN NORTH AMERICA

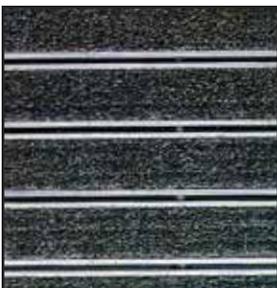
Specifically designed for overflow drain around swimming pools, this model can also be used for many applications as well as shower and sauna floor or hydro electric stations not being power conductive.

All made of P.V.C. (duro vinyl 90). **Dimensions: 19 mm x 6.4 mm x 32 mm (3/4" x 1/4" x 1 1/4")**

The bars of our model BSP-90 are assembly with P.V.C. holding rods and are 12.5 mm (1/2") of external diameter in a P.V.C. ring permitting a permanent and regular space between each others (recommend space is 9.5 mm (3/8"). Standard colors are white or Turquoise. Other colors available upon conditional request.



BC-1 / BC-7



Section 12 of D.D.N. SPECIFICATIONS AND TECHNICAL DATA (see also on page 11 test from the CRIQ)

BC-1: High quality Mannington Series

BC-7: Phoenix Series

DIMENSIONS:

35 mm x 3 mm x 38 mm
(1-5/16" x 1/8" x 1-1/2")

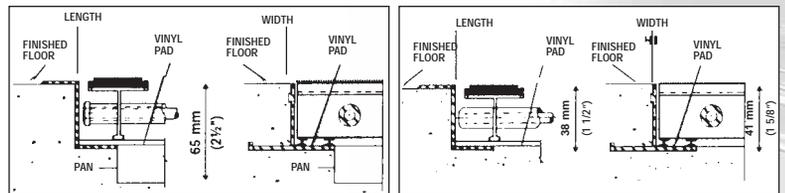
The bars of the grille are in aluminum with carpet inserts, locked into place at each extremity and are interchangeable.

Aluminum alloy 6061-T6.

Designed to combine esthetic and the efficiency in your lobby. Recommended for institutions, commercial and residential. **Maintenance is quick and easy.** See colors chart (page 10).

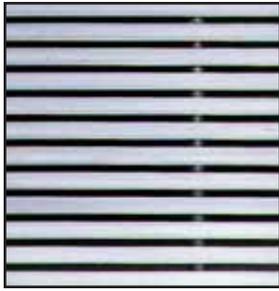
We can also personalize your entrance with a logo on this model.

TT REGULAR INSTALLATION VV TT LEVEL BASE INSTALLATION VV



EXCESSIVE LOAD LINE

BA-12



Section 12 of D.D.N. SPECIFICATIONS AND TECHNICAL DATA (see also on page 11 test from the CRIQ)

DIMENSIONS:

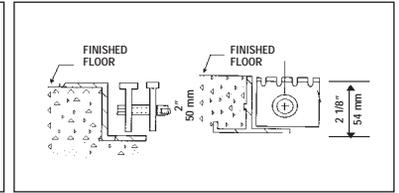
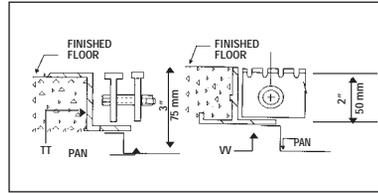
9,5 mm x 3 mm x 50 mm (3/8" x 1/8" x 2")

The bars of the grille are made of aluminum alloy 6061-T6 and T shaped.

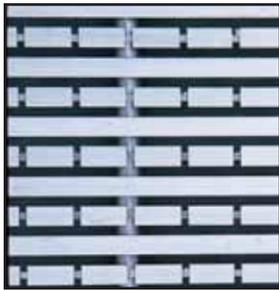
Easy to clean. Recommended for many types of buildings that have heavy pedestrian traffic like subway and train stations.

This model can also be striated as models BSA-1 and BSA-4 on page 5, add necessary text, depending on chosen model and code the model BSA-12 for (BSA-1) or BSA-124 for (BSA-4).

- TT REGULAR INSTALLATION VV TT LEVEL BASE INSTALLATION VV



CO-234



Section 12 of D.D.N. SPECIFICATIONS AND TECHNICAL DATA (see also on page 11 test from the CRIQ)

DIMENSIONS:

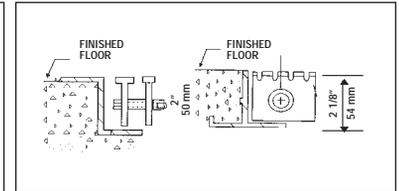
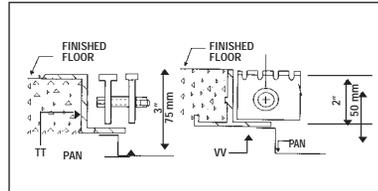
The dimensions of model A are 9,5 mm x 3 mm x 50 mm (3/8" x 1/8" x 2") and the bars are not striated on top face.

The dimension of model B are 9,5 mm x 3 mm x 50 mm (3/8" x 1/8" x 2") and the bars are striated every 22 mm (7/8") on top face.

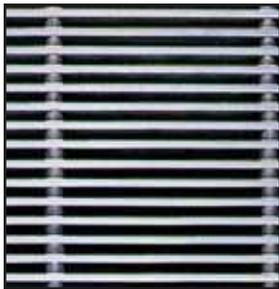
The bars of the grille are T-shaped and made of aluminum alloy 6061-T6.

Easy to clean. Recommended for many types of buildings that have heavy pedestrian traffic like subway and train stations.

- TT REGULAR INSTALLATION VV TT LEVEL BASE INSTALLATION VV



BA-1-3-HL



Section 12 of D.D.N. SPECIFICATIONS AND TECHNICAL DATA (see also on page 11 test from the CRIQ)

DIMENSIONS:

4,7 mm x 3 mm x 65 mm (3/16" x 1/8" x 2-1/2")

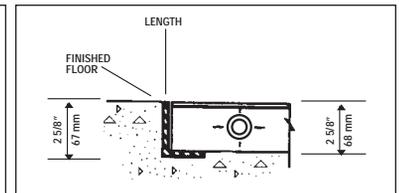
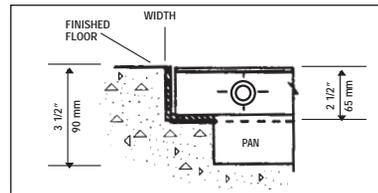
The bars of the grille are T-shaped and made of aluminum 6061-T6.

Recommended and designed for a car dealerships, all kinds of manufacturers who have excessive load requirements, lift-truck, trucks, etc.

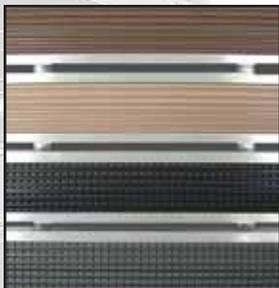
Regular cleaning is required because of the shape of the bars.

- REGULAR INSTALLATION A D

- LEVEL BASE INSTALLATION A D



BSV-3-HL



Section 12 of D.D.N. SPECIFICATIONS AND TECHNICAL DATA (see also on page 11 test from the CRIQ)

DIMENSIONS:

42mm x 4.7mm x 38mm (1 5/8" x 3/16" x 1 1/2")

Thickness of vinyl is 4.7mm (3/16")
The bars of the grille are in aluminum with striated self-cleaning multi directional vinyl inserted and locked into place at each extremity and also interchangeable.

Vinyl durometer 90.

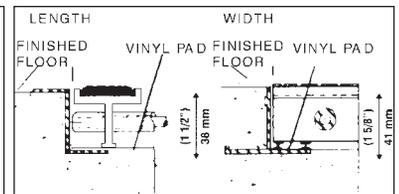
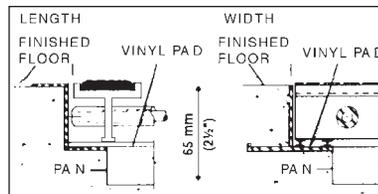
Designed to combine form and fonction, this model is recommended in office complex, commercial, institutional where there is heavy load traffic.

Also available with rectilinear vinyl inserts (BV-3-HL) & with carpet inserts Mannington serie (BC-1-HL) or Phoenix serie (BC-7-HL) upon request.

Maintenance of grille is quick and easy.

Choice of contemporary colors (see color chart on page 10), other colors available upon request with minimum quantity required.

- TT REGULAR INSTALLATION VV TT LEVEL BASE INSTALLATION VV



ISOMAT

BA-5



Section 12 of D.D.N.
SPECIFICATIONS AND
TECHNICAL DATA
(see also on page 11 test from the CRIQ)

DIMENSIONS:

27 mm x 13 mm en aluminium (1 1/16" x 1/2")

The blades of the BA-5 matting are grooved and made from aluminum alloy 6063-T5. The grooves ensure that it is slip resistant. The blades are joined together by a flexible vinyl hinge which allows the matting to be rolled during maintenance. This same vinyl link protects floor finishes against scratches and ensures that the product makes no noise when people walk on it. Option # 1 is available on request to clip the vinyl link every 300 mm (12 in.) to allow water to drip into the drain when necessary. Designed for a vestibule with medium traffic, it is very economical.

Method of Installation:

SSA type frame: To install on top of an existing floor, made from 2" wide aluminum (50 mm), bevel finished.

WWI type frame: to embed in an existing or new floor, frame made in an inverted "L" shape, from 16 mm x 16 mm x 3 mm aluminum (5/8 x 5/8 x 1/8).

WW type frame: To embed in a new floor, made in an inverted "L" shape, from 13 mm x 13 mm x 3 mm aluminum (1/2 x 1/2 x 1/8).

See drawing and model BC-2 on page 9.

Same cross sectional view for models BA-5, BC-5, and BC-6.

BC-5



Section 12 of D.D.N.
SPECIFICATIONS AND
TECHNICAL DATA
(see also on page 11 test from the CRIQ)

DIMENSIONS:

Blade "A" with carpet inserts 35 mm x 13 mm (1 5/16" x 1/2") Blade "B", aluminum, measuring 27 mm x 13 mm (1 1/16" x 1/2")

The blades of the matting are assembled in a regular pattern: a type "A" blade is followed by a type "B" blade and so on. The type "A" blade is grooved and made from aluminum alloy 6063-T5 with a carpet insertion from the Phoenix series. The grooves ensure that it is slip resistant. The blades are joined together by a flexible vinyl hinge which allows the matting to be rolled during maintenance handling. Option # 1 is available on request to clip the vinyl link every 300 mm (12 in.) to allow water to drip into the drain when necessary. This link protects the mat well or the floor finish from scratches and suppresses noise when people walk across the matting.

Off the Phoenix shelf carpet: see website: www.bolar.com

Designed for a vestibule with medium traffic, easy to care for, classic and, above all, especially very economical.

Method of Installation:

SSA type frame: To install on top of an existing floor, made from 2" wide aluminum (50 mm), bevel finished.

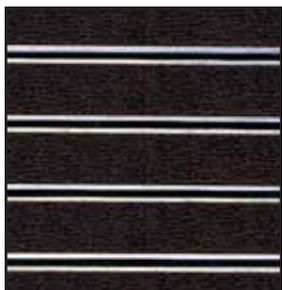
WWI type frame: To embed in an existing or new floor, frame made in an inverted "L" shape, from 16 mm x 16 mm x 3 mm aluminum (5/8 x 5/8 x 1/8).

WW type frame: To embed in a new floor, made in an inverted "L" shape, from 13 mm x 13 mm x 3 mm aluminum (1/2 x 1/2 x 1/8).

See drawing and model BC-2 on page 9.

Same cross sectional view for models BA-5, BC-5, and BC-6.

BC-6



Section 12 of D.D.N.
SPECIFICATIONS AND
TECHNICAL DATA
(see also on page 11 test from the CRIQ)

DIMENSIONS:

35mm x 13mm (1 5/16" x 1/2")

The blades of the matting are assembled with carpet inserts from the Phoenix series. The blades are joined together by a flexible vinyl hinge which allows the matting to be rolled during maintenance handling. Option # 1 is available on request to clip the vinyl link every 300 mm (12 in.) to allow water to drip into the drain when necessary. This link protects the mat well or the floor finish from scratches and suppresses noise when people walk across the matting.

Off the Phoenix shelf carpet: see website: www.bolar.com

Designed for a vestibule with medium traffic, easy to care for, classic and, above all, especially very economical.

For a choice of Mannington carpets, see model BC-2.

Method of Installation:

SSA type frame: To install on top of an existing floor, made from 2" wide aluminum (50 mm), bevel finished.

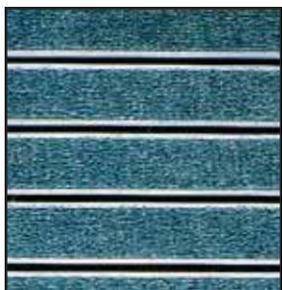
WWI type frame: To embed in an existing or new floor, frame made in an inverted "L" shape, from 16 mm x 16 mm x 3 mm aluminum (5/8 x 5/8 x 1/8).

WW type frame: To embed in a new floor, made in an inverted "L" shape, from 13 mm x 13 mm x 3 mm aluminum (1/2 x 1/2 x 1/8).

See drawing and model BC-2 on page 9.

Same cross sectional view for models BA-5, BC-5, and BC-6.

BC-2



Section 12 of D.D.N.
SPECIFICATIONS AND
TECHNICAL DATA
(see also on page 11 test from the CRIQ)

DIMENSIONS:

35 mm x 13 mm (1-5/16" x 1/2")

The bars of the mat are in aluminum with carpet inserts, locked into place at each extremity and are interchangeable.

Carpet series: **Mannington tiling system** (short pile finish is recommended).

Designed for vestibules, shower areas and residential garage areas.

Choice of 30 colors. See website: www.bolar.com

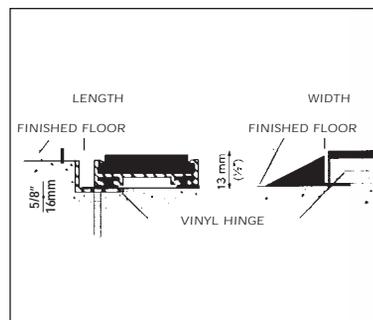
This model offers the greatest variety of colors and can best match the existing decor. It will add a touch of luxury to your home.

For the office logos can be incorporated into the carpet insert.

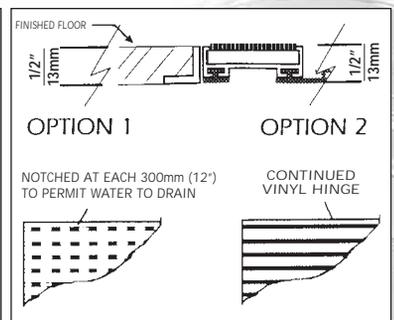
Maintenance is quick and easy.

We can also personalize your entrance with a logo on this model.

WWI INSTALLATION SSA

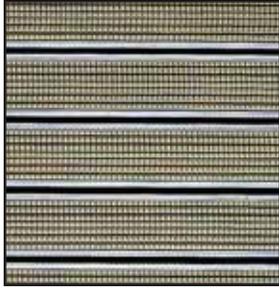


WW INSTALLATION



ISOMAT

BSV-2



Section 12 of D.D.N. SPECIFICATIONS AND TECHNICAL DATA (see also on page 11 test from the CRIQ)

DIMENSIONS:

35 mm x 13 mm (1-5/16" x 1/2")
 Thickness of vinyl is 4,7 mm (3/16"),
 durometer 90.

The bars of the mat are in aluminum with serrated **self-cleaning multi-directional vinyl** inserted and locked into place at each extremity and also interchangeable.

Choice of nine (9) colors.

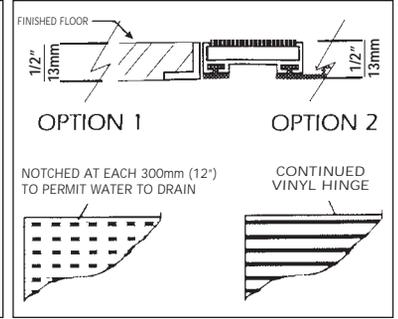
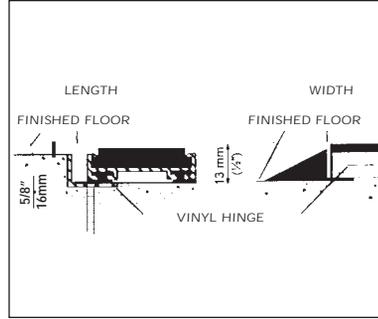
Customer colors on request. Minimum quantity required. See colors chart (page 10).

For lobbies with restricted traffic and residential use.

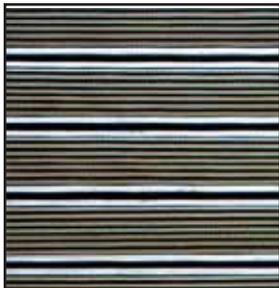
Maintenance is quick and easy.

WWI INSTALLATION SSA

WW INSTALLATION



BV-2



Section 12 of D.D.N. SPECIFICATIONS AND TECHNICAL DATA (see also on page 11 test from the CRIQ)

DIMENSIONS:

35 mm x 13 mm (1-5/16" x 1/2")
 Thickness of vinyl is 4,7 mm (3/16"),
 durometer 90.

The bars of the mat are in aluminum with a **rectilinear vinyl** inserted and locked into place at each extremity. The inserts are interchangeable or replaceable.

Choice of nine (9) colors.

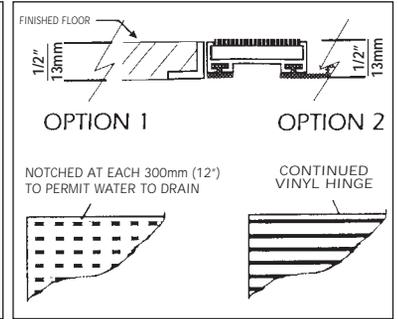
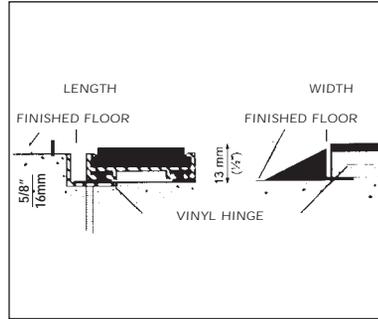
Customer colors on request. Minimum quantity required. See colors chart (page 10).

For lobbies with restricted traffic and residential use.

Maintenance is quick and easy.

WWI INSTALLATION SSA

WW INSTALLATION



At last, customized entrances!

We can now apply to your aluminum foot grilles system:

- Your company name • Your logo • Your signature • Your address
- Your telephone number • Your products and services ... anything you can imagine!

But how? Our highly sophisticated software allows us to reproduce, with the use of a digitizer, the data required for your choice of inscription, which will enhance the appearance of the mats in your lobby or in any other area. This advanced technology can be applied on several of our basic products such as: BA-1, BA-125, BA-12, BA-3/4.

Maximum height is 36" (904 mm) and there is practically no limit on length.

Bolar Signature

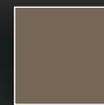


VINYL COLOR SELECTION

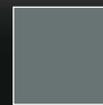
THIS COLOR CHART IS FOR REFERENCE PURPOSES ONLY



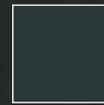
Beige



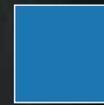
Brown



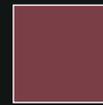
Grey



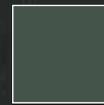
Black



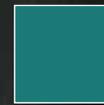
Light Blue



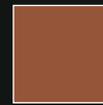
Burgundy



Khaki (Green)



Forest Green



Burned Orange

CARPET COLOR SELECTION

Mannington & Phoenix Visit our website to see our last carpet color series

PLEASE VISIT OUR WEBSITE AT:

www.bolar.com

A box of samples available upon request.

TECHNICAL SPECIFICATIONS

BOLAR is always looking for ways to offer it's customers with a higher quality of service; that is why we created a working tool to better suit your needs. It is a technical specification handbook including all of our products and a copy of all tests done by the C.R.I.Q. All this is available on CD Rom. An installation procedure drawing is included in Autocad format.



| Design Line | MODELS | FRICTION COEFFICIENT | CLEANING EFFICIENCY | DEFLECTION UNDER LIVE LOAD | | DISTORTION UNDER LATERAL LOAD | DISTORTION UNDER RESIDUAL LOAD | PLASTIC ENERGETIC DEFICIENCY | SALT FOG | PERCENTAGE OF OPENING | ALLOY OF ALUMINIUM | VINYL DUROMETER | CARPET | | |
|-------------------|--------------------|----------------------|---------------------------|----------------------------|--------------------|-------------------------------|--------------------------------|------------------------------|----------|-----------------------|--------------------|-----------------|-----------|---------|-------------|
| | | | | SPAN 610 mm (2'0") | SPAN 810 mm (2'8") | | | | | | | | MANINGTON | PHOENIX | VINYL S.R.* |
| Design Line | CO34 | 1,18 | 53 | 3535 | 2397 | 10 | 13,2 | 54,3 | 1000 HRS | 38 | 6061-T6 | | | | |
| | CO37 | 1,23 | 50 | 4110 | 2815 | 12,5 | 12,5 | 48,4 | 1000 HRS | 46 | 6061-T6 | | | | |
| | CO40 | 1,15 | 55 | 3685 | 2532 | 11,5 | 13,5 | 56,1 | 1000 HRS | 48 | 6061-T6 | | | | |
| | CO234 | 1,18 | 53 | 5486 | 3723 | 10 | 11,5 | 55,2 | 1000 HRS | 38 | 6061-T6 | | | | |
| Conventional Line | BSA-1 | ,94 | 69 | 2260 | 1550 | 8 | 16,4 | 69,4 | 1000 HRS | 53 | 6061-T6 | | | | |
| | BSA-1-3 | 1,19 | 57 | 2270 | 1560 | 10 | 13,1 | 48,2 | 1000 HRS | 58 | 6061-T6 | | | | |
| | BSA-4 | 1,10 | 59 | 3110 | 2115 | 9 | 14,2 | 62,1 | 1000 HRS | 40 | 6061-T6 | | | | |
| | BA-1 | 1,10 | 48 | 3960 | 2680 | 11 | 12,2 | 46,6 | 1000 HRS | 37 | 6061-T6 | | | | |
| | BA-1-3 | 1,19 | 51 | 4260 | 2950 | 14 | 12,8 | 50,2 | 1000 HRS | 56 | 6061-T6 | | | | |
| | BA-1-3-HL | 1,19 | 51 | 7300 | 4900 | 16 | 10,1 | 38,8 | 1000 HRS | 56 | 6061-T6 | | | | |
| | BA-125 | 1,26 | 48 | 4554 | 3082 | 11 | 10,2 | 35,4 | 1000 HRS | 37 | 6061-T6 | | | | |
| | BA-3/4 | 1,22 | 49 | 1980 | 1310 | 8 | 18,6 | 76,8 | 1000 HRS | 40 | 6061-T6 | | | | |
| | BA-2 | ,92 | 49 | 4340 | 3210 | 13 | 11,7 | 54,0 | 1000 HRS | 62 | 6061-T6 | | | | |
| | BC-1 | ,92 | 77 | 1790 | 1390 | 8 | 19,5 | 86,1 | 1000 HRS | 9 | 6061-T6 | | | X | |
| | BC-7 | ,92 | 47 | 1790 | 1390 | 8 | 19,5 | 86,1 | 1000 HRS | 9 | 6061-T6 | | | | X |
| | BLA-1 | ,92 | 77 | 1790 | 1390 | 8 | 18,5 | 87 | 1000 HRS | 9 | 6061-T6 | | | | |
| | BCH-4 | 1,21 | 71 | 4260 | 2950 | 8 | 17,5 | 84,1 | 1000 HRS | 18 | 6061-T6 | 90-65 | X | | |
| | BSV-7 | ,76 | 38 | 4510 | 3500 | 11 | 12 | 65 | 1000 HRS | 27 | 6061-T6 | 90 | | | X |
| | BV-7 | 1,00 | 47 | 4510 | 3500 | 11 | 12 | 65 | 1000 HRS | 27 | 6061-T6 | 90 | | | X |
| | BSV-3-HL | 0,8 | 38 | 9300 | 7500 | 7 | 11,4 | 86,1 | 1000 HRS | 8 | 6061-T6 | 90 | | | X |
| BSV-3 | ,82 | 38 | 1790 | 1390 | 8 | 19,5 | 86,1 | 1000 HRS | 9 | 6061-T6 | 90 | | | X | |
| BV-3 | ,78 | 40 | 1790 | 1390 | 8 | 19,5 | 86,1 | 1000 HRS | 9 | 6061-T6 | 90 | | | X | |
| BA-12 | 1,26 | 48 | 6336 | 4288 | 11 | 10,6 | 36,2 | 1000 HRS | 37 | 6061-T6 | | | | | |
| Isomat | BA-5 | ,95 | 45 | 120 | 75 | - | - | - | 1000 HRS | 9 | 6063-T5 | | | X | |
| | BC-2 | ,92 | 76 | 120 | 75 | - | - | - | 1000 HRS | 9 | 6063-T5 | | | X | |
| | BC-5 | ,85 | 50 | 120 | 75 | - | - | - | 1000 HRS | 9 | 6063-T5 | | | | X |
| | BC-6 | ,92 | 76 | 120 | 75 | - | - | - | 1000 HRS | 9 | 6063-T5 | | | | X |
| | BSV-2 | ,82 | 40 | 120 | 75 | - | - | - | 1000 HRS | 9 | 6063-T5 | 90 | | | X |
| | BV-2 | ,78 | 41 | 120 | 75 | - | - | - | 1000 HRS | 9 | 6063-T5 | 90 | | | X |
| BSP-90 | ,76 | 38 | 1680 | 1280 | 13 | 15,9 | - | 1000 HRS | 32 | - | 90 | | | | X |
| ESTIMATE MODE | DYNAMIC AND STATIC | % | NEWTON (Nm) ÷ 4,448 = IMP | | VISUAL 1 TO 20 | mm | NEWTON (Nm) | ASTM B117 | | | | | | | |

* Vinyl S.R. = Semi rigid vinyl



SIGN GRILLE



BSA-1-3
THE FLETCHER ALLEN
HEALTHCARE
FLANINE VERMONT



BA-12
IKEA
MONTREAL



BSA-1
FTQ COMPLEX
MONTREAL



BSA-1
MATHER'S COMPLEX
ST-EUSTACHE

OTHER BOLAR PRODUCTS

- ROOF HATCHES
- DRAINAGE UNITS
- GRATING IN ALUMINUM OR STAINLESS STEEL
- WALKWAYS AND STAIRWAYS
- CIRCULAR GRILLES FOR REVOLVING DOORS
- VENTILATION AND HEATING GRILLES
- DECORATIVE UNITS
- WALL GRILLE
- SPECIAL GRILLES UPON REQUEST
- DESIGN FURNITURE
- TECHNICAL SPECIFICATIONS ARE AVAILABLE UPON REQUEST
- CETTE BROCHURE EST AUSSI DISPONIBLE EN FRANÇAIS SUR DEMANDE



SPECIAL GRILLES
UPON REQUEST

BACKGROUND

Already more than half a century! Founded in 1946, **BOLAR** has 57 years of history and still counting. It's founder would be proud.

The foot grille system as it is known today, is the result of many transformations brought about by the users over time.

At the beginning of the century, all buildings were heated by one or many furnaces which were installed in the basement.

At the time, a ventilation grille was installed, in the floor, on top of each heating unit to facilitate hot air circulation.

In 1946, our founder had the brilliant idea to change the vocation of these ventilation units, which were obsolete with the arrival of new heating technologies. He transformed them into a foot grilles system to clean and maintain vestibules. With the precious help of the architects of the time, the system was refined. It rapidly became very efficient and was adopted by most.

From that point on, **BOLAR** had its work cut out to promote its innovative product. Fifty years later, what a success! Practically all buildings, commercial, institutional and industrial, have their foot grilles system.

Historically, the task was great and still is: to maintain a steady increase in our sales while providing the end user with the best possible products. In order to achieve this goal, **BOLAR** has put its efforts on SERVICE, QUALITY, EFFICIENCY, INNOVATION and DESIGN.

- SERVICE: Our customer service is the best in the industry.
- QUALITY: Our products are manufactured under a proven quality system.
- INNOVATION: Has made **BOLAR** what it is today and will shape our future.
- DESIGN: Our design team is constantly improving our product line.

Finally, thanks to all our customers, the architects, designers, contractors, distributors and friends, for without all of you, we would not be where we are, half a century later.

This is a privilege, we owe all of you.

GRILLAGE BOLAR (CANADA) INC.

50 Omer de Serres, Blainville, Quebec, Canada J7C 5H2

Fax: 001 (450) 435-3600 • Phone: 001 (450) 435-7385

Visit our web site: www.bolar.com

E-Mail: webmaster@bolar.com

TOLL FREE:

PHONE: 1-800-552-6527

FAX: 1-800-667-3660

Distributor: