

Potential LEED Credits For projects using BaseGrille

- v4 MRp2: Material and Resources – Construction and demolition waste management planning:
 - The tiles or planks reduce waste from the installation process, reducing waste in landfills.
 - Made from recyclable material and / or is a reusable product, reducing waste in landfills.
- v4 MRc1: Material and Resources – Building life-cycle impact reduction:
 - Option 3. Building and material reuse. This product can be reused or salvaged from off-site or on-site as a percentage of the surface area. Note: Materials contributing toward this credit may not contribute toward MRc3.
- v4 MRc3: Material and Resources – Building product disclosure and optimization, sourcing of raw materials:
 - Option 2. Sourcing of raw materials.
 - Materials reuse. Reuse includes salvaged, refurbished, or reused products.
 - Recycled content. Recycled content is 80% preconsumer.
- v4 EQc1: Indoor Environmental Quality – Enhanced indoor air quality strategies:
 - Option 1. Enhanced IAQ strategies. Installed with at least 10 feet (3 meters) in length in the primary direction and maintained on a weekly basis.
- v4 EQc2: Indoor Environmental Quality – Low emitting materials:
 - Option 1 (Flooring). General emissions evaluation. BaseGrille is made of stainless steel, which is an inherently nonemitting source and doe

Note: After downloading this spec, the Specifier must choose the correct Finish, Insert and Frame options and delete all other options to produce an accurate specification.

BaseGrille SS-800 Series

MASTER SPECIFICATION

SECTION 12 48 13 FURNISHINGS – BASEGRILLE ENTRANCE SYSTEMS

PART 1 - GENERAL

1.01 SUMMARY

- A. Section includes: [Entrance matting systems, including stainless steel floor grilles and frames.]
- B. Related Sections: The following sections contain requirements related to this section:
 - 1. Section 03 30 00, "Cast-in-Place Concrete" and Section 03 60 00, "Grouting" for concrete floor slab recess, and grouting frames into recess.
 - 2. Section 07 11 00, "Damp-proofing."
 - 3. Section 15 15 00, "Sanitary Waste and Vent Piping," for floor drain if applicable.

1.02 REFERENCES

- A. American Society for Testing and Materials (ASTM)
 - 1. ASTM B 221-93 Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Shapes and Tubes
 - 2. ASTM A 276-92 Standard Specification for Stainless and Heat-Resisting Steel Bars and Shapes
- B. American Architectural Manufacturers Association (AAMA)
 - 1. AAMA 606.1 Voluntary Guide Specifications and Inspection Methods for Integral Color Anodic Finishes for Architectural Aluminum
 - 2. AAMA 607.1 Voluntary Guide Specifications and Inspection Methods for Clear Anodic Finishes for Architectural Aluminum

1.03 SUBMITTALS

- A. Product Data: Manufacturer's Product Specifications, Installation and Maintenance Instructions.
- B. Shop Drawings: Show layout and types of grilles and frames not less than half-scale sections of typical installations, details of patterns or designs, anchors, accessories, and field measurements of slab recess to receive framed grates (if applicable).
- C. Samples for Selection Purposes: Actual sections of grate and frame material in a convenient but representative size showing full range of colors, textures, finishes and patterns available for each type of floor grate and frame specified.

- D. Samples for Verification Purposes: Not less than six-inch square sections of grille materials and six-inch (152 mm) length of frame material in selected colors and finishes for each type of grate and frame specified.
- E. Installation, Operations and Maintenance data.
- F. Sustainable Design Submittals: Product Data for Credit IEQ 5: Indoor Chemical and Pollutant Source Control: Employ permanent entryway systems at least 10 feet long in the primary direction of travel to capture dirt and particulates entering the building at regularly used exterior entrance.

1.04 QUALITY ASSURANCE

- A. Single Source Responsibility: Obtain floor grilles and frames from one source and from a single manufacturer.

Rolling Load: 1000 lbs. (453.6 kg) per wheel.

1.05 SUBSTITUTIONS

- A. Proposals for substitution products shall be accepted only from bidding contractors and not less than 10 working days before bid due date. Contractor guarantees that proposed substitution shall meet the performance and quality standards of this specification.

1.06 PROJECT CONDITIONS

- A. If product is to be recessed, coordinate with concrete work so that products are available for placing integrally with floor slabs.

1.07 WARRANTY

- A. Floor mats and frames shall be fabricated free of defects in materials and workmanship in accordance with the General Conditions, and the manufacturer shall offer a five-year warranty against defects in materials and workmanship. Manufacturer's warranty applies in all cases.

PART TWO – PRODUCTS

2.01 ACCEPTABLE MANUFACTURERS

Base Specialties, Inc.
525 First Street
Farmington, MN 55124

(866) 391-6216 (TOLL FREE)
(651)463-2273
(651-463-2320 (FAX)
info@base-spec.com
www.base-spec.com

2.02 MATERIALS

- A. Stainless steel – Type [304 or 316] stainless steel for surface wires and support bars.

2.03 ENTRANCE SYSTEM FLOOR GRILLE – 800 SERIES

- A. Model and Description: Stainless Steel Grilles. Type [304 or 316] stainless steel per ASTM A 276 available in depths of **[3/8" (9.52 mm) SS-838], [5/8" (15.9 mm) SS-858], [1-1/8" (28.6 mm) SS-898]**. (*Specifier to select one depth and delete others*).
 - 1. Construction: Surface Wires: .090" (2.4 mm) by 0.156" (4 mm) wire with 0.070" (1.8 mm) support bars spaced 1" (24 mm) O.C. Spacing between wires shall be 0.233" (5.9 mm) O.C.
 - 2. Lockdowns: BaseGrille SS-858 and SS-898 models utilize a pre-assembled hidden lockdown consisting of a stainless steel keyhole clip complete with a screw retaining strap, #10 bolt retainer, 10-24 x 1-1/4" stainless steel machine screw and 10-24 threaded lead anchor. BaseGrille SS-838 model lockdown is a 15/16" x 15/16" x 3/16" type 304 stainless steel hold-down plate. The plate is pre-welded flush to the surface of the grille panel and is pre-drilled and countersunk to receive a stainless steel 1/4-20 x 1" Flathead Phillips machine screw and 1/4-20 threaded lead anchor. EZ-loc, Surface Block, or Slot Tab holdowns provided upon request.
 - 3. Tread wires shall be resistance welded at each joint.
 - 4. Fasteners: Non-corrosive screws and anchors for securing frames together and to floors.
 - 5. Finish shall be Satin #4.
 - 6. Unit must meet rolling load of 1000 lbs (453 kg) per wheel.

2.04 ENTRANCE SYSTEM GRATE FRAME (*Specifier to select one below and delete others*)

- A. Model SAF-838: Stainless steel frame, Type 304 stainless steel banding 0.070", welded to grille panel. Finish: #4 Satin.
- B. Model SAF-858: Stainless steel angle frame, Type 304 stainless steel; 1/8" (3.2 mm) profile; 3/4" (19.05 mm) depth. Finish: #4 Satin.
- C. Model SAF-898: Stainless steel angle frame, Type 304 stainless steel; 1/8" (3.2 mm) profile; 1-1/4" (31.75 mm) depth. Finish: #4 Satin.

PART 3 – EXECUTION

3.01 EXAMINATION

- A. Products must be placed on a flat and level substrate. Substrate shall meet tolerance of 1/8" (3.2 mm) over 10 feet (3.28 M) in accordance with ACI 302.
- B. Examine the substrates and conditions under which the work is to be performed, and notify the contractor in writing of conditions detrimental to the proper and timely completion of the work. Do not proceed with the installation until unsatisfactory conditions have been corrected.

3.02 INSTALLATION

- A. Install products in accordance with manufacturer's instructions, at locations shown and with top of products level with adjoining finished flooring where applicable.
- B. Coordinate top of product surfaces with swinging doors to provide under-door clearance.
 - 1. Provide necessary spacers and anchorages for proper location and secure attachment of frames to concrete.
 - 2. For installation in terrazzo flooring, contact manufacturer.

3.03 PROTECTION

- A. Upon completion of frame installations, provide temporary filler of plywood or fiberboard in grille recesses, and cover frames with plywood protective flooring. Maintain protection until construction traffic has ended and project is near time of substantial completion.
- B. Install product when no further wheeled construction traffic will occur and wet type of operations including painting and decorating are complete.

END OF SECTION

Note: After downloading this spec, the Specifier must choose the correct Finish, Insert and Frame options and delete all other options to produce an accurate specification.

BaseGrille SS-900 Series

MASTER SPECIFICATION

SECTION 12 48 13 FURNISHINGS – BASEGRILLE ENTRANCE SYSTEMS

PART 1 - GENERAL

1.01 SUMMARY

- A. Section includes: [Entrance matting systems, including stainless steel floor grilles and frames.]
- B. Related Sections: The following sections contain requirements related to this section:
 - 1. Section 03 30 00, "Cast-in-Place Concrete" and Section 03 60 00, "Grouting" for concrete floor slab recess, and grouting frames into recess.
 - 2. Section 07 11 00, "Damp-proofing."
 - 3. Section 15 15 00, "Sanitary Waste and Vent Piping," for floor drain if applicable.

1.02 REFERENCES

- A. American Society for Testing and Materials (ASTM)
 - 1. ASTM B 221-93 Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Shapes and Tubes
 - 2. ASTM A 276-92 Standard Specification for Stainless and Heat-Resisting Steel Bars and Shapes
- B. American Architectural Manufacturers Association (AAMA)
 - 1. AAMA 606.1 Voluntary Guide Specifications and Inspection Methods for Integral Color Anodic Finishes for Architectural Aluminum
 - 2. AAMA 607.1 Voluntary Guide Specifications and Inspection Methods for Clear Anodic Finishes for Architectural Aluminum

1.03 SUBMITTALS

- A. Product Data: Manufacturer's Product Specifications, Installation and Maintenance Instructions.
- B. Shop Drawings: Show layout and types of grilles and frames not less than half-scale sections of typical installations, details of patterns or designs, anchors, accessories, and field measurements of slab recess to receive framed grates (if applicable).
- C. Samples for Selection Purposes: Actual sections of grate and frame material in a convenient but representative size showing full range of colors, textures, finishes and patterns available for each type of floor grate and frame specified.

- D. Samples for Verification Purposes: Not less than six-inch square sections of grille materials and six-inch (152 mm) length of frame material in selected colors and finishes for each type of grate and frame specified.
- E. Installation, Operations and Maintenance data.
- F. Sustainable Design Submittals: Product Data for Credit IEQ 5: Indoor Chemical and Pollutant Source Control: Employ permanent entryway systems at least 10 feet long in the primary direction of travel to capture dirt and particulates entering the building at regularly used exterior entrance.

1.04 QUALITY ASSURANCE

- A. Single Source Responsibility: Obtain floor grilles and frames from one source and from a single manufacturer.

Rolling Load: 500 lbs. (453.6 kg) per wheel.

1.05 SUBSTITUTIONS

- A. Proposals for substitution products shall be accepted only from bidding contractors and not less than 10 working days before bid due date. Contractor guarantees that proposed substitution shall meet the performance and quality standards of this specification.

1.06 PROJECT CONDITIONS

- A. If product is to be recessed, coordinate with concrete work so that products are available for placing integrally with floor slabs.

1.07 WARRANTY

- A. Floor mats and frames shall be fabricated free of defects in materials and workmanship in accordance with the General Conditions, and the manufacturer shall offer a five-year warranty against defects in materials and workmanship. Manufacturer's warranty applies in all cases.

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2.02 MATERIALS

- A. Stainless steel – Type [304 or 316] stainless steel for surface wires and support bars.

2.03 ENTRANCE SYSTEM FLOOR GRILLE – 900 SERIES

- A. Model and Description: Stainless Steel Grilles. Type [304 or 316] stainless steel per ASTM A 276 available in depths of **[SS-958 5/8" (15.9 mm), SS-934 3/4" (19.1 mm), SS-998 1-1/8" (28.6 mm)]**. (*Specifier to select one depth and delete others*).
1. Construction: Floor Panels shall consist of precision spaced, mechanically interlocked profile wires and U-clip supports from Type 304 or 316 stainless steel. The traffic surface shall be of smooth performance bar shape with inwardly enlarging openings to minimize the likelihood of debris entrapment. The surface bars shall be Base Specialties, Inc. No. [SS-900, SS-900C, SS-900R]. The tread surface opening shall be [.140", .187"] inches. The open area for this opening shall be XX %. Opening size shall be controlled and continuously monitored during manufacture. The maximum opening between the wires is 3/16". The direction of walking or flow must be perpendicular to the wire direction. The wires or supports may not line up over XX number of feet.
 2. Lockdowns: (a) Hidden Slot Tabs with slotted holes type 304 stainless steel to secure screen to concrete surface. (b) Surface mounted hold downs. (c) EZ loc mounting tabs.
 3. Tread bars to be XXX and mechanically interlocked using a U-clip support structure and spaced [.140" (3.56mm), .187" (4.75mm)] apart.
 4. Inserts:
 - a. **MonoScape™ HD Carpet Inserts** shall meet the Carpet and Rug Institute's standard for good indoor air quality. Fibers shall include a minimum of 100, 12 mil monofilament fibers per square inch and colorfast, solution dyed nylon. Available in one of 12 standard colors as offered by Manufacturer. Each polybrush carpet fiber and monofilament shall be fusion-bonded to a rigid two-ply backing to prevent fraying and supplied in continuous splice-free lengths. Carpet weight shall be 33 oz./sq. yd.
 - b. **Polybrush Inserts** shall be solution-dyed polypropylene fibers with 4,500 total denier, available in one of three standard colors as offered by the Manufacturer. The textured fibers have ultraviolet blockers and color as an integral part of the filament. Each carpet fiber and monofilament shall be fusion-bonded to a rigid two-ply backing to prevent fraying and supplied in continuous splice-free lengths. Carpet weight shall be 33 oz./sq. yd.
 - c. **Vinyl Inserts** shall include a flexible dual durometer vinyl insert in any one of three colors as offered by Manufacturer.
 - d. **SN- SlipNot** metallic coating applied directly to surface of wire or to alternating strips of 1" stainless steel inserted between surface wires.
 5. Fasteners: Non-corrosive screws and anchors for securing frames together and to floors.
 6. Finish shall be Satin #4.
 7. Loading: The screen panels shall be designed for Ultimate Load of 300 psf.

2.04 ENTRANCE SYSTEM FRAME *(Specifier to select one below and delete others)*

- A. Model SAF-958: Stainless steel angle frame, Type [304 or 316] stainless steel; 1/8" (3.2 mm) profile; 3/4" (19.05 mm) depth. Finish: #4 Satin.
- B. Model SAF-934: Stainless steel angle frame, Type [304 or 316] stainless steel; 1/8" (3.2 mm) profile; 7/8" (22.2 mm) depth. Finish: #4 Satin.
- C. Model SAF-998: Stainless steel angle frame, Type [304 or 316] stainless steel; 1/8" (3.2 mm) profile; 1-1/4" (31.75 mm) depth. Finish: #4 Satin.

PART 3 – EXECUTION

3.01 EXAMINATION

- A. Products must be placed on a flat and level substrate. Substrate shall meet tolerance of 1/8" (3.2 mm) over 10 feet (3.28 M) in accordance with ACI 302.
- B. Examine the substrates and conditions under which the work is to be performed, and notify the contractor in writing of conditions detrimental to the proper and timely completion of the work. Do not proceed with the installation until unsatisfactory conditions have been corrected.

3.02 INSTALLATION

- A. Install products in accordance with manufacturer's instructions, at locations shown and with top of products level with adjoining finished flooring where applicable.
- B. Coordinate top of product surfaces with swinging doors to provide under-door clearance.
 - 1. Provide necessary spacers and anchorages for proper location and secure attachment of frames to concrete.
 - 2. For installation in terrazzo flooring, contact manufacturer.

3.03 PROTECTION

- A. Upon completion of frame installations, provide temporary filler of plywood or fiberboard in grille recesses, and cover frames with plywood protective flooring. Maintain protection until construction traffic has ended and project is near time of substantial completion.
- B. Install product when no further wheeled construction traffic will occur and wet type of operations including painting and decorating are complete.

Cleaning and Maintenance Instructions

Recessed Aluminum Floor Mats

The following cleaning and maintenance instructions are for Base Specialties products BaseMat Series, BaseTread Series, and BaseGrid Series. Exceptions to this and instructions for BaseGrille products are noted separately below.

General:

- During the winter season, remove product and clean rails once per week. During other seasons, once per month should be sufficient.
- Debris between the rails should be removed during the cleaning process. Each time the rails are cleaned, make sure there is no debris underneath in the recess; this will prevent product from warping due to an uneven substrate and prevent long-term problems. (Vacuuming is the most effective method for this cleaning.)
- If the units are above a drain, ensure that nothing is blocking the water flow to the drain.
- Never apply wax or other polishing products to the surface of the units; this would create a potential hazard.

Specifics:

- Clean aluminum surfaces with soap and hot water, then allow mat to dry.
- If applicable, periodically clean carpet and scraping inserts with a hot water extraction machine to remove soil and restore pile.

Exceptions (in addition to above):

- When cleaning products manufactured with rubber hinges (BaseTread GB-200 Series, BaseTread GB-500 Series, and BaseMat MB-400 Series), inspect the hinges and locking mechanism to ensure that all parts are securely attached and are functioning properly. Any parts not functioning properly should be replaced to avoid further problems.
- A stainless-steel cleaner can be utilized, if desired, to maintain surface shine on BaseGrille products (stainless steel); Simple Green or Sheila Shine are good options. Just follow the manufacturer's directions on whatever cleaner is chosen.

Replacement inserts are available via our website, www.base-spec.com, or phone 1-866-391-6216 for your local representative contact information.