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PAVER TRAY

April 2023

STRENGTH, SUPPORT, AND SAFETY

BISON PAVER TRAY

Ideal for use with Bison Pedestals, the Bison Paver Tray offers a simple and lightweight paver backing to enhance the impact resistance and provide additional strength to paver surface materials for outdoor areas.

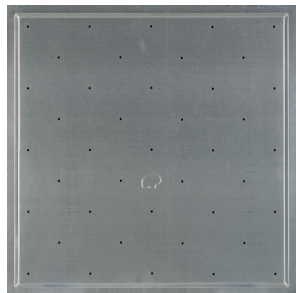
- Weather resistant galvanized steel tray
- Can be adhered to the desired surface pavers on site before or during installation
- Exclusive Bison FS-12 Fastening Kit and continuous Paver Tray channel allow for easy paver attachment, removal, and replacement
- Standard 24" x 24" modular size fits 595-603 x 595-603 mm pavers
- Recommended for use on Bison Pedestals 1/8" to 36" in height
- Meets ASTM E136 testing requirements as a non-combustible surface material



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Covered by one or more patents or pending patents.

Bison Paver Trays

- Paver Trays can be combined to accommodate larger format pavers. See the Bison Paver Tray Assembly and Installation Guide for recommended configurations.
- Requires 3/16" (4.5 mm) tab size for pedestals.
- Prior to installation and during assembly, limit exposure to moisture, direct sunlight, and temperatures outside of 40°F to 100°F (5°C to 37°C).
- Do not submerge Paver Trays in water. Accelerated corrosion can occur when used in tidal areas or in direct contact with highly chlorinated or salt water.



Model No.	Description	Dimensions (L x W x H)
PT-TRAY-2424-4		23.43" x 23.43" x 0.35" (595 x 595 x 9 mm) Fits 595-603 x 595-603 mm Pavers
PT-TRAY-1818-4		17.52" x 17.52" x 0.35" (445 x 445 x 9 mm) Fits 445-453 x 445-453 mm Pavers
PT-TRAY-2020-4	Paver Support Tray with Adhesive	19.49" x 19.49" x 0.35" (495 x 495 x 9 mm) Fits 495-503 x 495-503 mm Pavers
PT-TRAY-2412-4		23.43" x 11.61" x 0.35" (595 x 295 x 9 mm) Fits 595-603 x 295-303 mm Pavers
PT-TRAY-2416-4		23.43" x 15.55" x 0.35" (595 x 395 x 9 mm) Fits 595-603 x 395-403 mm Pavers
PT-TRAY-2418-4		23.43" x 17.52" x 0.35" (595 x 445 x 9 mm) Fits 595-603 x 445-453 mm Pavers



FS-12

Fastens Bison Paver Trays to
Bison Adjustable Pedestals with
long screw, and HD50 or HD75 Fixed
Height Pedestals with short screw

12" (305 mm) Spline
3/16" (4.5 mm) Tab

Testing

The Bison Paver Tray and 2CM Paver System meet or exceed these standards.*

Note: Customer to verify acceptable uses for each project according to the presiding building code authority. All products to be installed per the most recent Bison Paver Tray Specifications and Details at the time of installation.

Description	Test	Results/Requirements
Class A Fire Rated Surface on Versadjust Pedestals	UL TGFU R38623	Over Class A, B, or C roof systems
Non-Combustible Surface	ASTM E108 ASTM E136	Class A Pass
Impact/Foot Traffic on Versadjust Pedestals	ASTM E661-03	Resists 75 ft-lbs & 400 lbs (102 J & 181 kg) Proof Load per ASTM E661
Concentrated Static Load on Versadjust Pedestals	ASTM E661-03	Resists 550 lbs (249 kg) Proof Load per ASTM E661
Uniform Load on Versadjust Pedestals	ASTM E2322-03/CISCA	148 psf (723 kg/m ²) Allowable Load L/360 *L = Span of Paver 340 psf (1,660 kg/m ²) FoS:3 Ultimate Load
Bond Tensile Strength	ASTM C297-61 ASTM C297-61 & ASTM D1183-70	9.19 psi (0.646 kg/cm ²) 12.74 psi (0.896 kg/cm ²) Post Accelerated Age
Bond Shear Strength	ASTM D905-89 ASTM D905-89 & ASTM D1183-70	13.33 psi (0.937 kg/cm ²) 15.19 psi (1.068 kg/cm ²) Post Accelerated Age

*Not tested for use with other thicknesses of pavers or other surface materials.

Bison 2CM & Paver Tray Care & Maintenance Recommendations

NOTE: For more information, please reference current Bison Specifications and Details, which can be found online at www.bisonip.com.

Cleaning: If desired, the Bison 2CM & Paver Tray system may be periodically cleaned. All spills should be cleaned as quickly as possible. Before handling stain removing chemicals, remember to use personal protective equipment such as safety glasses, respirators, and gloves as recommended per manufacturer safety data sheet (SDS). Prior to application of any cleaners, sweep thoroughly and mop with a clean damp mop using a PH-balanced mild household detergent such as diluted dish soap to gently remove dirt, debris, or light stains. Always check with the manufacturer of your roof membrane and drainage system to ensure that any cleaning solution or by-product will not compromise or damage the waterproofing or drainage systems, taking into consideration any and all environmental impact. Always refer to product manufacturer's SDS for more information on chemical components, safe handling practices, and disposal considerations for local, state, and federal laws. Bison recommends first testing on an inconspicuous area of 2CM paver before applying to the entire deck surface. Bison recommends using ZEP ALL-IN-1 Premium Pressure Wash concentrate (Dilution ratio 1:20 per manufacturer recommendation) for periodic cleaning and maintenance followed by thorough rinsing. Pressure washers may be used on 2CM pavers at a suggested maximum of 1200 PSI. Test an inconspicuous area first, and be careful to clean the entire deck to avoid lap marks. Avoid direct pressure stream on bonding adhesive. Rinse thoroughly with clean, clear water to remove any concentrates or solutions. Rinsing is a critical step in the maintenance procedure to prevent chemical deposit buildup. After rinsing, removing any standing water with a squeegee will help to prevent dirt or chemical deposits from drying on the surface.

Deep Cleaning: When necessary, scrub with cotton mop, cloth, sponge, or non-metallic brush. DO NOT use abrasive cleaners, brushes with hard or metal bristles, scouring pads, steel wool, or sandpaper. DO NOT use scouring powders, as these products contain abrasives that may scratch the surface of the paver. DO NOT use vinegar or any cleaners containing acids, alcohols, or strong alkaline agents. Products with high acid or ammonia content are not recommended. Acid washing is not recommended. Acids, like orange extract and vinegar (including any substance with a PH lower than 7) can damage the glazed surface of the paver, and alkaline solutions like ammonia or bleach (including any substance with a PH higher than 7) can discolor pavers and degrade adhesive bond. DO NOT use ammonia, alcohols, calcium hypochlorite, methylene chloride, potassium permanganate, liquid chlorine, or any other strong oxidizing agents. Commercial floor scrubbers and floor buffing machines are not recommended due to their potential to damage the deck system. After referencing the roofing and drainage systems' safety data sheets to ensure chemical and environmental stability of materials, follow the steps from the cleaning section above. The following cleaners are available for specific stain types:

- 30 Seconds Outdoor Cleaner (1:1), or Simple Green Concrete and Driveway Cleaner (1:20) for dirt, grease, grime, mold, mildew, and algae
- FILA CLEANALL (1:30), or FILA PS87 (1:5) for food, drink, dyes, oils, and organic stains
- FILA DETERDEK (1:5), or Simple Green Lime Scale Remover (1:5) for rust or lime scale stains

When deep cleaning pavers, try to focus on small areas to avoid contact with the underlying tray and adhesive, as they may be adversely affected by chemicals in these cleaners.

Sealing: Applying sealer or wax to 2CM Pavers is not recommended.

Water and Snow Removal: Always rinse pavers thoroughly after any application of ice-melt to avoid the buildup of salt crystals. After rinsing, squeegee pavers dry.

Visual Observation: Check for rocking pavers, and adjust or shim immediately if needed. Failure to do so could cause a tripping hazard. Periodically check spacer tabs and immediately replace broken tabs to limit deck movement. Make sure the edge restraint stays intact and structurally sound.