



A SIKA COMPANY

# PRODUCT DATA Migutan FP 155

**Watertight, Plaza/Podium Deck, & Split Slab Expansion Joint**

## Product Description

- **Migutan** (mig-yoo-tan) consists of heavy-duty extruded aluminum &/or steel retainer rails, thermo-plastic rubber side flashing sheets and sealing insert, and stainless-steel retainer caps.
- The rails are bolted to the structural slab, the flashing sheets are integrated in a sandwich with the deck waterproofing system.
- The sealing insert is installed over the upper end of the flashing sheets and is held in compression by the stain-less-steel retainer caps.
- The net result is a system that integrates the structural slab, deck waterproofing and expansion joint system which is essentially independent of the wear-course components (ex: pavers, asphalt topping, con-crete topping, etc.) while ensuring that movement is properly accommodated.

## Uses and Applications

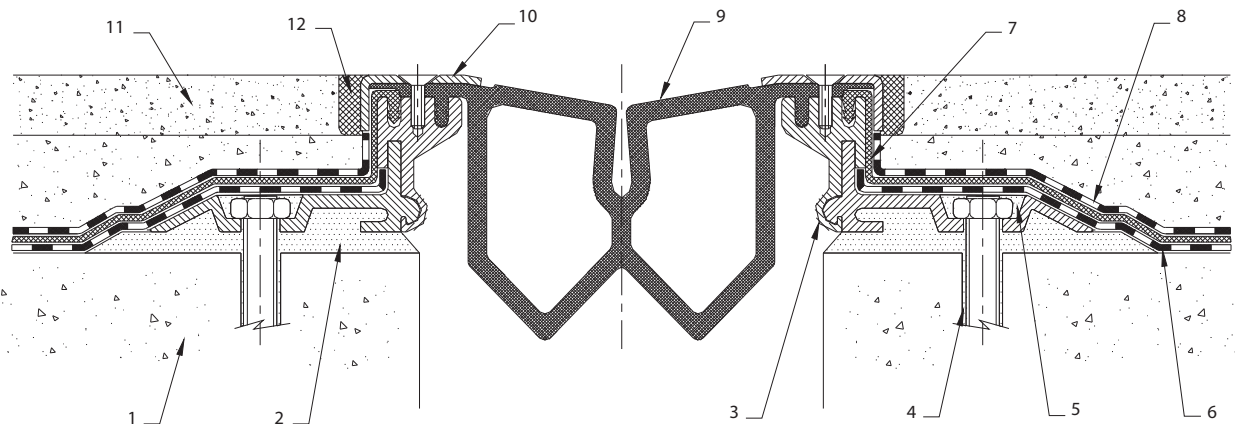
- Plaza Decks
- Split-Slab Parking Decks
- Stadium Concourses
- Roof Decks
- Below-Grade Deck and Wall Joints

## Load Capacity

**Plaza and Parking Decks:** FP 155/45 - FP 155/115 with standard interlocking aluminum legs: Suitable for slow moving vehicles with pneumatic tires such as cars and light trucks up to 16,860 lb.wt. (75 kN) gross.

**Ramps, Loading Docks or other Decks with Continuous Heavy-Duty (Truck, Bus) Vehicular Traffic:** Use heavy-duty steel legs — Consult EMSEAL.

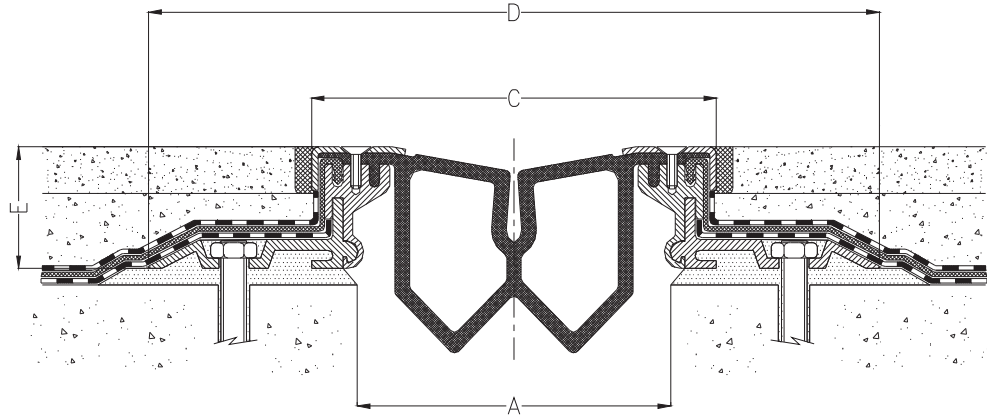
## System Features (in order of installation)



## Key to System Features

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|---|--|
| <ol style="list-style-type: none"> <li>1. Structural slab</li> <li>2. Epoxy levelling bed ensures that retainer legs are fully supported while acting as a dielectric separator</li> <li>3. Two or three piece interlocked retainer legs are free to slide relative to each other to provide positive interlocking of successive joint lengths. (NOTE: Heavy-duty steel leg profiles &amp; FP 155/25 interlocked by means of stainless steel connector pins)</li> <li>4. 5/16" x 4" (8mm x 100mm) epoxy anchors at 12-inch (300mm) centers ensure secure fastening while placing</li> </ol> | <ol style="list-style-type: none"> <li>5. Level-filled anchor channels protect waterproofing from damage</li> <li>6. Deck waterproofing is installed across deck and up Migutan retainer leg</li> <li>7. Heat-weldable, high-nitrile PVC side flashing sheets are fully embedded in, welded to or adhered to upper surface of primary deck waterproofing</li> <li>8. Overlay and deck membranes encapsulate Migutan flashing sheet in watertight sandwich</li> <li>9. Heat-weldable sealing gland allows for watertight heat-welded transitions in direction and plane</li> <li>10. Stainless-steel retaining caps and machine-screws clamp sealing gland and flashing sheet and are removable for seal maintenance</li> <li>11. Pavers, asphalt, fill, or other wear-surface</li> <li>12. Self-levelling, traffic-grade sealant control joint (as needed to suit application — consult EMSEAL)</li> </ol> |
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FP 155/ ... Selection Guide

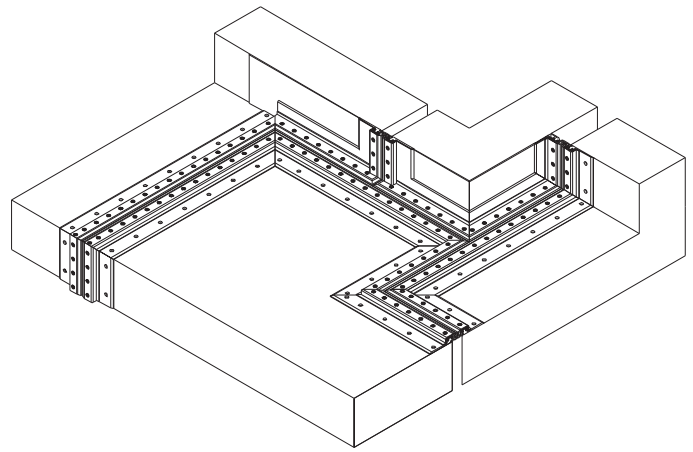


Model No.	A For Mean Temp. Joint Size of up to width of A.	B Total Movement Capability (over total expected temp. ° range)	C Exposed Width (at mid-point of movement range)	D Overall Width (At mid-point of movement range)	E Height
<b>For below-grade joints, roofs, and transitions to the vertical plane:</b>					
FP 155/25	4.00" (101mm)	4.76" (121mm)	6.12" (156mm)	11.00" (280mm)	0.98" (25mm)
<b>For split-slab parking and plaza decks with normal car traffic and occasional truck/bus traffic:</b>					
FP 155/45	4.75" (120mm)	4.76" (121mm)	6.12" (156mm)	11.00" (280mm)	1.81" (46mm)
FP 155/60					2.44" (62mm)
FP 155/80					3.19" (81mm)
FP 155/95					3.81" (97mm)
FP 155/115					4.61" (117mm)
<b>For non-vehicular-traffic plaza decks.</b> Extra-high leg heights accommodate thick overlay systems and topping slabs. These models are supplied with extra-long (double-width) side sheets to ensure proper integration with deck waterproofing.					
FP 155/130	4.75" (120mm)	4.76" (120mm)	6.12" (156mm)	12.25" (311mm)	5.12" (117mm)
FP 155/150					5.90" (150mm)
FP 155/165					6.57" (167mm)
FP 155/185					7.36" (187mm)
FP 155/200					7.95" (202mm)
FP 155/220					8.74" (222mm)
FP 15/235					9.33" (237mm)
FP 155/255					10.12" (257mm)
FP 155/270					10.71" (272mm)
FP 155/290					11.49" (292mm)
FP 155/305					12.09" (307mm)

Note: Steel legs are now available for increased loading capacity for all leg heights from FP 155/80 and larger. Contact EMSEAL for sizing and technical information on product variations

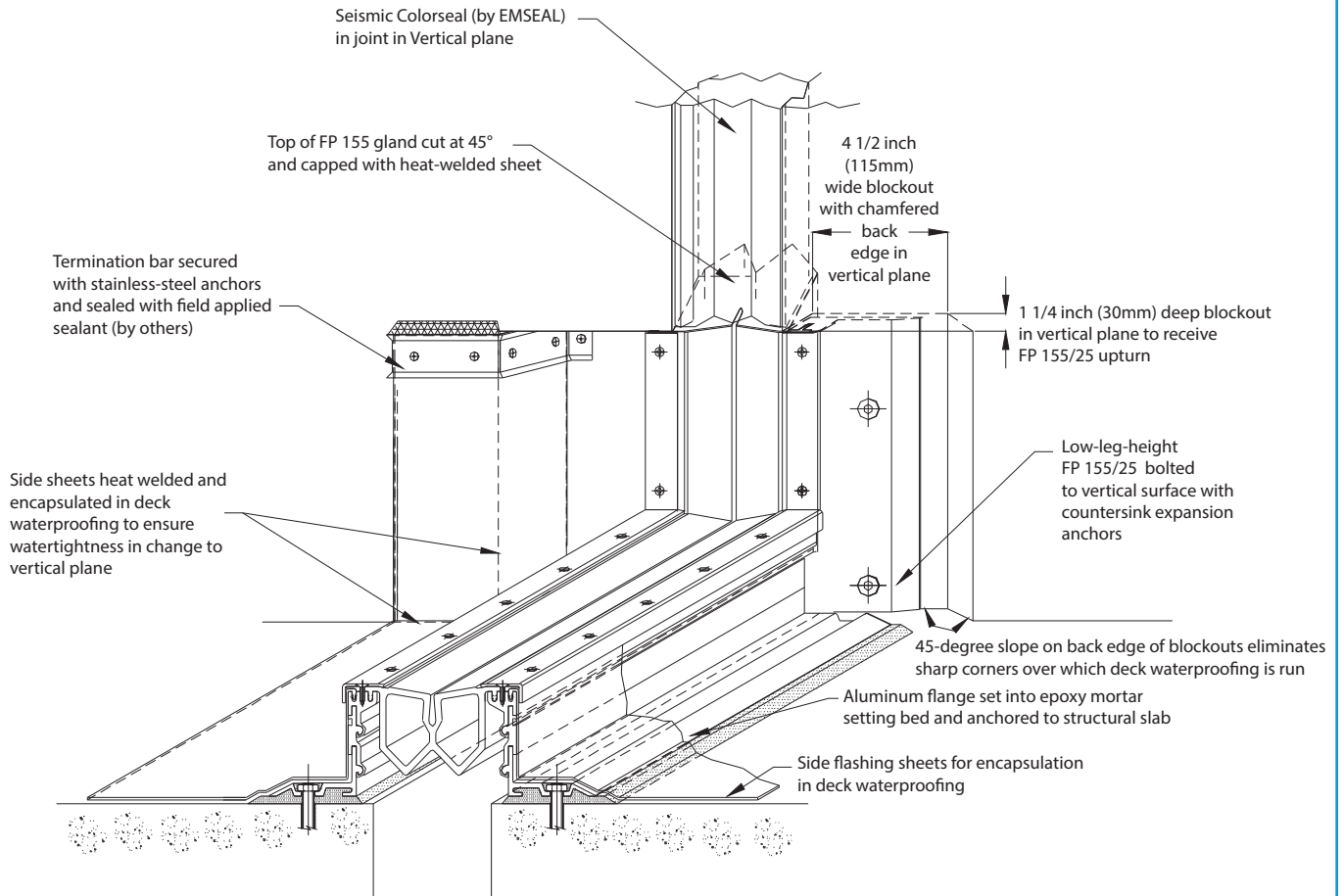
### Watertight Transitions & Terminations

Factory-heat-welded thermoplastic-rubber sealing insert and heat-weldable side sheets as well as factory-welded aluminum components assure watertightness through transitions and terminations. Virtually any kind of transition is both possible and practical.

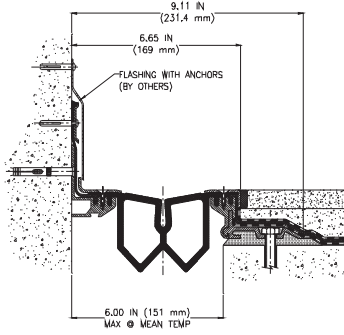


#### Transitions From Horizontal to Vertical Planes

Transitions to the vertical plane are commonly overlooked in design, manufacture and installation. These details are critical to watertightness and can be properly addressed by the Migutan system with transition into other products by EMSEAL for waterproofing the joints in parapets, walls, split columns, etc.

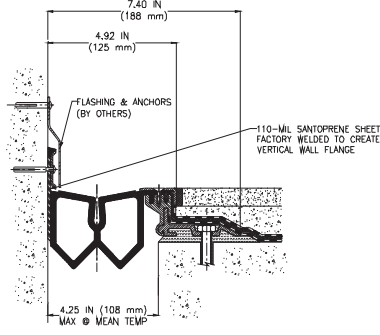


**E-2, E3 & E-8 Deck-to-Wall Options (available for all models)**



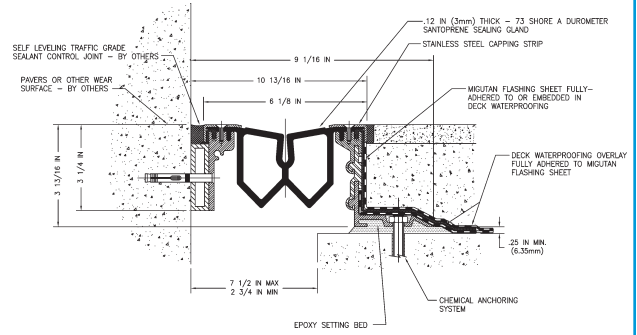
**E-2**

NOTE: Use E-2 where continuous runs of deck-to-wall joint are uninterrupted by columns or other elements adjacent to the run of the joint.



**E-8**

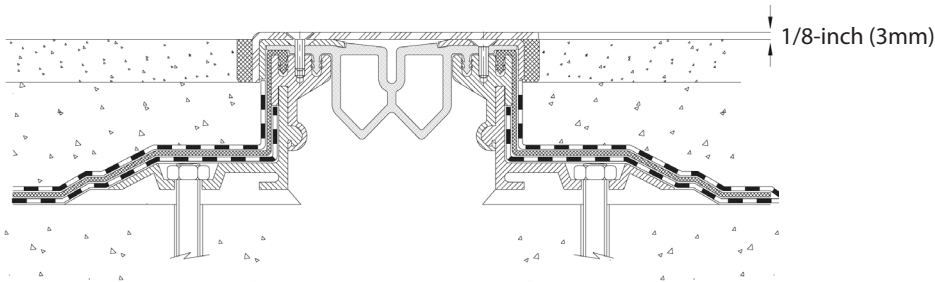
NOTE: Use E-8 where joint-gap alternates from deck-to-deck to deck-to-column or wall at intervals along the joint. The E-8, by removing the metal anchor bracket present in the E-2 version, eliminates the need to dog-leg around columns, walls, etc., that interrupt continuous runs.



**90B E-3**

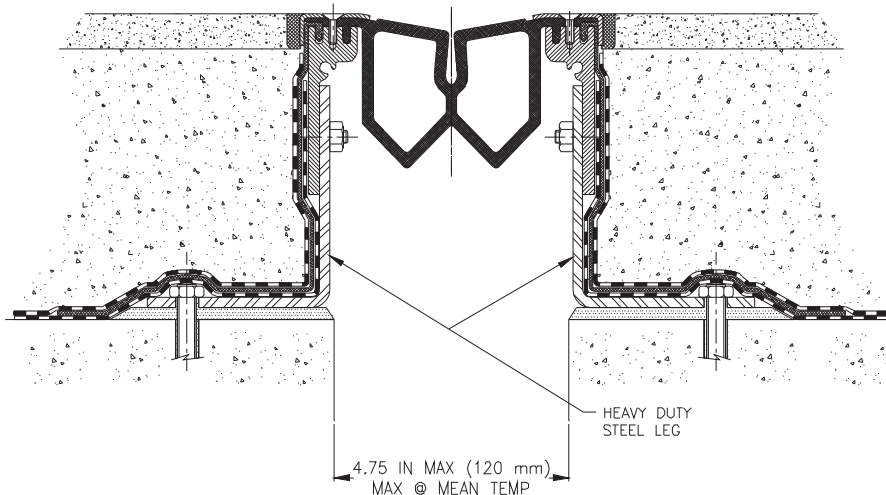
NOTE: E-3 can often be used where deck to wall or deck to deck waterproofing runs on one side and the opposite side has minimal space allotted for leg foundation.

**Optional Stainless Steel Coverplate**



Integral coverplate is available at purchaser's preference as an optional extra. Coverplate can be made non-skid at purchaser's preference through the field-application of an abrasive coating after installation of the joint system.

**FP 155/... with Heavy-Duty Steel Legs**



### ***CAD & Guide Specs***

Guide specifications and CAD details are available online at emseal.com or by contacting EMSEAL.

### ***Warranty***

Standard or project-specific warranties are available from EMSEAL on request.

### ***Availability & Price***

EMSEAL products are available throughout the United States and Canada. Prices are available from local representatives or direct from the manufacturer. The EMSEAL product range is continually being updated. Accordingly, we reserve the right to modify or withdraw any product without prior notice.