

PRODUCT CATALOG

Watertight / Fire-Rated / Sound Dampening
Insulating / Energy Efficient / Seismic / Trafficable



SIKA EXPANSION JOINTS COMMERCIAL AND ARCHITECTURAL SOLUTIONS

Emseal® ■ **Wabo®**

**BUILDING TRUST
CONSTRUIRE LA CONFIANCE**



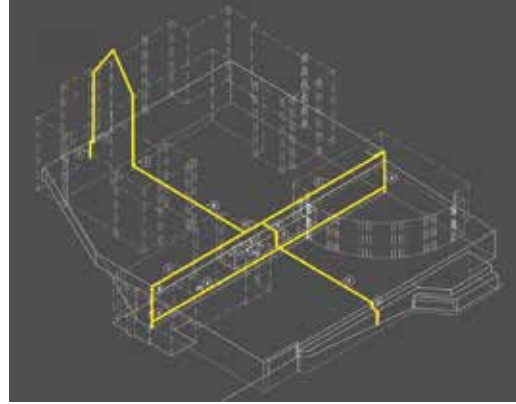
COMMERCIAL EXPANSION JOINTS

Emseal® ■ Wabo®

3D Collaborative Expansion Joint Design

At Sika, we believe that watertight, trouble-free expansion joints start with smart design—and that begins in 3D. Our collaborative, three-dimensional approach to expansion joint design integrates all project stakeholders—architects, engineers, contractors, and fabricators—ensuring full coordination from concept to installation. This comprehensive process results in joint systems that are not only functional but integrated into the building envelope.

A core principle behind every Emseal® solution is *Continuity of Seal*. Our factory-fabricated, precision-engineered transitions ensure the seal remains intact through changes in plane, direction, and material. This approach delivers watertightness throughout the entire joint system—including corners, tees, and complex intersections—minimizing the risk of failure and simplifying installation.



Transitions & Terminations

Sika's Emseal® factory-fabricated expansion joint transition solutions are designed to maintain watertight, airtight, sound-dampened, insulated, and fire-resistance integrity through every change in plane, direction, and condition. Unlike field-fabricated alternatives, these pre-manufactured transitions are created under controlled conditions to ensure consistent quality and performance. By eliminating guesswork and variability on-site, they simplify installation, reduce labour time, and virtually eliminate the risk of leaks at critical connection points such as corners, curbs, and terminations. Central to Emseal®'s Continuity of Seal philosophy, these transitions are essential for delivering reliable, durable joint systems that perform over the life of the structure.

US Patents: 9,850,662 | 10,851,542 | 9,200,437
10,066,387 | 10,422,127 | 10,570,611



Sika Commitment

Sika commitment to 3D design and pre-planned coordination enhances constructability and reduces installation errors. By visualizing and addressing transitions during the design phase, our expansion joint systems deliver long-term performance and reliability.

Specify Emseal® and build with confidence—achieve continuity, achieve performance.

Colour Coordination for Architectural Design

Emseal® offers a comprehensive palette of sealant-coated, precompressed foam expansion joint systems—such as Seismic Colorseal®, Emshield® WFR, and QuietJoint—engineered to blend into architectural finishes. These systems are available in a wide range of factory-applied colours using our standard high-performance silicone sealant, **Sikasil® WS-295** (consult Sika for optional sealant availability and pricing). Dual-sided products (such as Seismic Colorseal-DS or Emshield® WFR2) can be manufactured with different interior and exterior colour faces, providing designers with unmatched flexibility to meet both aesthetic and performance criteria.

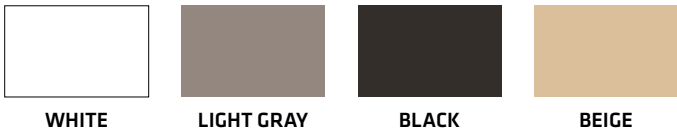
Additionally, Emseal® has a **custom colour program** for the sealant coated systems. Custom colours should be reviewed and approved by Sika before placing an order. All custom colours should be provided by the customer and shipped to our factory for manufacturing.

The **Wabo® interior and exterior systems** that include a rubber sealing gland are offered in the four standard colours shown below.

Precompressed Foam Sealants | Standard Colours - Sikasil® WS-295



Wabo® Gland Seal | Colours



Colours on this sheet are close approximations of actual colours and intended for guidance only. Contact your Emseal® distributor to request physical samples for accurate matching. Users should confirm colour meets their requirements.

For more information on colour options, visit emseal.com

Commercial Expansion Joint Solutions

Exterior Walls

Seismic Colorseal® / Colorseal®-On-A-Reel / SafeReseal® / Backerseal	5
Emshield® WFR / SecuritySeal® SSW / Wabo®FireFlex	6
Wabo®WeatherSeam / Wabo®SeismicCover	7

Deck - Parking

DSM / SJS / Horizontal Colorseal® / DSM-DS	8
Thermaflex / WaboCrete® Membrane Gen II	9
Emshield® DFR / SecuritySeal® SSF / SJS-FR / Wabo®FireFlex	10
Wabo®ElastoFlex / Wabo®SafetyFlex / Wabo®Seismic SafetyFlex / Wabo®SeismicSpan	11

Split-Slab

DSM-FP / SJS-FP	12
DFR-FP / SJS-FP-FR / Migutan-FP / RoofJoint	13

Roofing

RoofJoint / Wabo®RoofCover	14
----------------------------	-----------

Below Grade

BG	15
----	-----------

Hygenic / Chemical Resistant

Chemseal / DSF	16
----------------	-----------

Interior Floors

SJS-FR-NB / SJS-FR-Inlay / SJS-FR	17
Wabo®CorridorWrap / Wabo®FastFloor / Wabo®HingeMount / Wabo®SeisMaxPlus / Wabo®SeismicFloor	18
Wabo®SeismicPan / Migutrans SFS / Migutec FGH	19

Interior Walls

QuietJoint / Wabo®Contour II / Wabo®CorridorWrap / Wabo®SeisMaxPlus	20
Wabo®SeismicCover / Wabo® WeatherSeam	21

Single Source Warranties

Sikalastic® Deck Membranes	22
----------------------------	-----------

Seismic Colorseal®

WATERTIGHT / PRIMARY SEAL
12 - 250 MM (1/2 - 10 IN) JOINT GAPS

Description

Seismic Colorseal® is a silicone-coated, precompressed, primary seal that is used in structural, high-movement joints in virtually any substrate. It is ideally suited for watertightness in vertical structural, seismic and abutment joints in the vertical plane. Available in a dual-sided (Seismic Colorseal®-DS) option for finished seal on both sides of the wall.

Advantages

- Thermal insulating
- Acoustic dampening
- Conforms to joint gap irregularities
- Non-invasive anchoring
- Wide range of colours
- +/- 50 % Movement (100 % Total)



Colorseal®-On-A-Reel

WATERTIGHT / PRIMARY SEAL
12 - 30 MM (1/2 - 1 1/4 IN) JOINT GAPS

Description

Colorseal-on-a-Reel® is a watertight silicone-coated, precompressed, primary seal for smaller joints. It's shipped on a reel for rapid installation into 12 - 30 mm (1/2 - 1 1/4 in) wide expansion gaps. Reel-packaging, in contrast to 'stick' packaging, reduces waste, lowers production costs, makes handling easier, and can be installed rapidly. The low installed cost makes this system a price-effective alternate to 'caulk and backer rod'.

Advantages

- Rapid installation
- Ships on 10-foot reels
- Conforms to joint gap irregularities
- Non-invasive anchoring
- Wide range of colours
- +30 % / -50 % Movement (80 % total)



SafeReseal®

WATERTIGHT / PRIMARY RETROFIT SEAL
12 - 30 MM (1/2 - 1 1/4 IN) JOINT GAPS

Description

SafeReseal® is a joint sealing system for EIFS, precast, concrete, and virtually any substrate. It's a safer, grindless, dustless, quiet, primerless, tensionless, paintable, retrofit joint sealant that installs over old sealant residue without the requirement for grinding to completely remove old sealant.

Advantages

- Conforms to joint gap irregularities
- Grindless preparation
- Paintable
- Non-invasive anchoring
- +/- 50 % Movement (100 % Total)



Backerseal®

WATERTIGHT / SECONDARY SEAL
12 - 150 MM (1/2 - 6 IN) JOINT GAPS

Description

Backerseal® is an economical preformed expanding foam sealant that provides watertight secondary sealing in applications behind conventionally installed liquid sealant and backer rod or directly behind field-applied low modulus liquid sealants.

Advantages

- Conforms to joint gap irregularities
- Thermally insulating
- Acoustic dampening
- Non-invasive anchoring
- +/- 25 % Movement (50 % Total)



Emshield® WFR1 / WFR2 / WFR3

1, 2 or 3 HOUR UL/ULC FIRE-RATED / WATERTIGHT
12 – 150 MM (1/2 – 6 IN) JOINT GAPS

US Patents: 10,941,562 | 10,934,704 | 10,934,702

Description

Emshield® WFR1, WFR2 and WFR3 are single-unit, fire-rated expansion joints which provide water protection, sound attenuation, thermal insulation, colour coordination, and accommodate structural joint movement. WFR1 (Wall, Fire-Rated 1-Hour), WFR2 (Wall, Fire-Rated 2-Hours) and WFR3* (Wall, Fire-Rated 3-Hours) continue the line of breakthrough, multi-function, structural expansion joint materials from Emseal®. Certified by Underwriters Laboratories (UL) to the rigours of UL and ULC 2079.

Advantages

- 1, 2, or 3-hour fire rating
- Watertight
- Thermal insulating
- Acoustic dampening
- Conforms to joint gap irregularities
- Non-invasive anchoring
- Wide range of colours
- Up to +/- 50 % Movement (100 % Total)



SecuritySeal® SSW2

PICK-RESISTANT / 2 HOUR UL/ULC FIRE-RATED /
WATERTIGHT 12 – 150 MM (1/2 – 6 IN) JOINT GAP

US Patents: 10,941,562 | 10,934,704 | 10,934,702

Description

Emshield® SecuritySeal® SSW2 is a pick-resistant, watertight, 2-hour fire-rated, expansion joint for vertical applications requiring a hardened tamper-resistant surface. Institutional walls found in prisons, detention centers, mental and psychiatric hospitals, school facilities, and day-care centers are some of the many venues where SecuritySeal® SSW2 is preferred.

Advantages

- Pick-resistant
- 2-hour fire rating
- Watertight
- Thermal insulating
- Acoustic dampening
- Conforms to joint gap irregularities
- Non-invasive anchoring
- +/- 50 % Movement (100 % Total)



Wabo® FireFlex (VFF)

UL FIRE-BARRIER / VERTICAL FIRE BLANKET
12 – 510 MM (1/2 – 20 IN) JOINT GAPS

Description

A seismic fire barrier expansion joint system, Wabo® FireFlex (VFF) is a fire resistive blanket for repair, retrofit, and new installation in wide structural expansion joints and construction joints in vertical plane applications.

Advantages

- Cycle tested to exceed ASTM E1399
- 2-hour fire-rating for joints up to 510 mm (20 in) wide
- No liquid caulk or sealant required for installation
- +/- 50 % Movement (100 % Total)



Emshield® DFR/WFR CE

CE MARKED, EN-1366-4 CERTIFIED / WALL &
DECKS 12 – 100 MM (1/2 – 4 IN) JOINT GAPS

Description

Emshield® DFR / WFR CE is a 4-hour fire resistant movement joint for walls and decks. Tested by CSTB France and certified by European Technical Assessment (ETA) DFR/WFR CE is suitable for European and other markets requiring CE marking.

Advantages

- 4 hour fire-rating
- EN-1366-4 certified
- Watertight
- Thermal insulating
- Acoustic dampening
- Conforms to joint gap irregularities
- Non-invasive anchoring
- +/- 50 % Movement (100 % Total)



Wabo®WeatherSeam (WSW)

WIDE WALL JOINTS 250 – 600 MM (10 – 24 IN)
JOINT GAPS

Description

A seismic building expansion joint system for interior and exterior walls and ceilings, Wabo®WeatherSeam is weather resistant and installed flushed with the finished substrates. Provided for joint widths up to 600 mm (24 in) wide to accommodate seismic joint openings.

Advantages

- Weather-resistant
- Thermal barrier
- Flush-mounted
- Multi-directional / Seismic movement capable
- Range of colours
- Movement of Total 100 % of nominal size



Wabo®Seismic Cover (WFE, WFX)

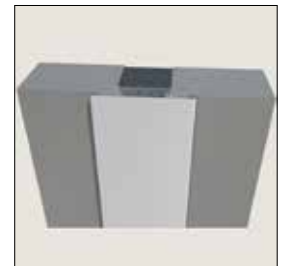
WIDE WALL JOINT COVER 250 – 600 MM (10 – 24 IN)
JOINT GAPS

Description

A seismic wall expansion joint cover, Wabo®SeismicCover is an exterior and interior wall system designed to accommodate both thermal and multi-directional movement. The system is installed on the exterior or interior of a building and provides a simple, attractive and durable solution for areas exposed to the general public and possible vandalism.

Advantages

- Weather-resistant
- Surface-mounted
- Fire-rated by adding Emshield® WFR
- Watertight by adding Seismic Colourseal®
- No visible hardware
- Multi-directional / Seismic movement capable



Deck & Parking Solutions

DSM System

WATERTIGHT / TRAFFIC DURABLE
12 – 100 MM (1/2 – 4 IN) JOINT GAPS

Description

A watertight expansion joint, the DSM System is for use in horizontal plane deck applications. Traffic-durable, joint-face adhered and precompressed, DSM System is a primary seal for deck expansion joints. DSM's toughness and resilience come from its modified-acrylic impregnation and tensionless highway-grade silicone bellows coating.

Advantages

- Watertight
- Rapid installation
- Conforms to joint gap irregularities
- Non-invasive anchoring
- ADA compliant
- Movement of +/- 50 % (Total 100 %) of nominal size



SJS Seismic Joint System

WATERTIGHT / TRAFFIC DURABLE
50 – 400 MM (2 – 16 IN) JOINT GAPS

Description

SJS is a watertight, high-movement, sound-dampened cover plate system for large and seismic expansion joint gaps. SJS is constructed from two horizontal joints preassembled in parallel adjacent to a heavy-duty spline. The system contains no metal embeds, self-centring bars, or other unnecessary metal components. The spline acts as a receptor for attaching the surface-mounted traffic plates that bear vehicle and other loads.

Advantages

- Watertight
- Eliminates need for gutters
- Easy installation
- Non-invasive anchoring
- Available for wide joints
- Movement of +/- 50 % (Total 100 %) of nominal size



Horizontal Colorseal®

WATERTIGHT / NON-TRAFFIC APPLICATIONS
12 – 200 MM (1/2 – 8 IN) JOINT GAPS

Description

Horizontal Colorseal® is a high-movement silicone bellows system for deck applications used as a primary seal typically without a cover plate in non-traffic areas such as perimeters in decks or roofs. It can be used under a cover plate when pedestrian or vehicular traffic is expected.

Advantages

- Watertight
- Rapid installation
- Conforms to joint gap irregularities
- Non-invasive anchoring
- New or retrofit construction
- Movement of +/- 50 % (Total 100 %) of nominal size



DSM-DS

WATERTIGHT / DUAL-SIDED SILICONE BELLOWS
12 – 100 MM (1/2 – 4 IN) JOINT GAPS

Description

DSM-DS is a highly resilient, double-sided, silicone-faced, precompressed sealant that has proved over the years the ability to solve difficult joint sealing problems where other systems have failed or are not suitable. It is ideal for new installations as well as expansion joint repair or retrofit jobs.

Advantages

- Watertight
- Rapid installation from positive or negative side
- Conforms to joint gap irregularities
- Non-invasive anchoring
- New or retrofit construction
- +/- 50 % Movement (Total 100 %)



Thermaflex®

WATERTIGHT / WING JOINT
25 - 140 MM (1- 5 1/2 IN) JOINT GAPS

Description

Thermaflex® is a blockout-mounted wing joint system consisting of heat-weldable thermoplastic rubber sealing glands with punched flanges embedded in a high-strength, flexible, impact-absorbing elastomeric concrete nosing material. Available in TM (dual cell) and TCR (multi-cell) gland configurations. Ideally suited for parking decks.

Advantages

- Watertight
- Blockout-mounted
- Impact-absorbing nosing
- Non-invasive anchoring
- ADA compliant
- Up to or in excess of +/- 50 % Movement (Total 100 %)



WaboCrete® Membrane Gen II

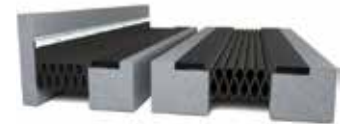
WATERTIGHT / WING JOINT
25 - 140 MM (1- 5 1/2 IN) JOINT GAPS

Description

WaboCrete® ME Gen II is a high-movement capable blockout mounted wing joint system with heat-weldable thermoplastic-rubber sealing glands with punched flanges embedded in a high-strength, flexible, impact-absorbing elastomeric concrete nosing material. Ideally suited for parking decks with high structural movement.

Advantages

- Watertight
- Blockout-mounted
- Impact-absorbing nosing
- Non-invasive anchoring
- ADA compliant
- Up to or in excess of +/- 50 % Movement (Total 100 %)



Wabo®ElastoFlex (EF)

HEAVY-DUTY / BLOCKOUT-MOUNTED
25 - 150 MM (1 -6 IN) JOINT GAPS

Description

A parking garage expansion joint system for concrete decks, Wabo®ElastoFlex (EF) provides a continuous membrane combined with heavy-duty, steel-reinforced EPDM rubber blocks. The system is designed for heavy-duty applications in parking decks, loading docks, elevated roadways, convention centres, stadiums and other vehicles and forklift traffic conditions.

Advantages

- Watertight
- Steel-reinforced flanges
- New or retrofit construction
- Available in deck-to-wall models
- Fire-rated by adding Emshield® DFR
- Movement of up to 100 %



Emshield® DFR2 / DFR3

WATERTIGHT / TRAFFIC DURABLE / 2 or 3-HOUR
UL/ULC FIRE-RATED 12 - 100 MM (1/2 - 4 IN) JOINT
GAPS

US Patents: 10,941,562 | 10,934,704 | 10,934,702

Description

Emshield® DFR2 and DFR3 are single unit, fire-rated, traffic durable, high movement and watertight expansion joints. They provide a watertight, clean handling, UV stable, non-staining, low-temperature-flexible, high-temperature stable, traffic durable and fire-rated joint seal in a single installation.

Advantages

- 2 or 3-hour fire rating
- Watertight
- Acoustic dampening
- Non-invasive anchoring
- Easy installation
- Up to +/- 50 % Movement (100 % Total)



Emshield® SecuritySeal® SSF2 / SSF3

PICK-RESISTANT / WATERTIGHT / 2 or 3-HOUR
UL/ULC FIRE-RATED 12 - 100 MM (1/2 - 4 IN)
JOINT GAPS

US Patents: 10,941,562 | 10,934,704 | 10,934,702

Description

Emshield® SecuritySeal® SSF2 and SecuritySeal® SSF3 are pick resistant, watertight, 2-hour (SSF2) and 3-hour (SSF3) fire-rated expansion joints for horizontal applications requiring a hardened tamper-resistant surface.

Advantages

- Hardened pick-resistant surface
- 2 or 3-hour fire-rating
- Watertight
- Acoustic dampening
- Conforms to joint gap irregularities
- Non-invasive anchoring
- Easy installation



SJS-FR

WATERTIGHT / TRAFFIC DURABLE / FIRE-RATED
50 - 250 MM (2 - 10 IN) JOINT GAPS

US Patents: 8,341,908 | 10,787,805 | 10,787,806

Description

SJS-FR1 and SJS-FR2 are fire-rated, watertight, high-movement, sound-dampened systems for large and seismic expansion joint gaps. Designed for use in fire-rated concrete decks/floors, interior or open-air slabs, treads and risers, in both new or retrofit construction. Featuring surface-mounted traffic plates that bear vehicle and other loads.

Advantages

- 1 or 2-hour fire-rating with UL/ULC listings
- Watertight
- Eliminates need for gutters or blankets
- Non-invasive anchoring
- Available for wide joints
- Easy installation
- +/- 50 % Movement (Total 100 %)



Emshield® DFR/WFR CE

CE MARKED, EN-1366-4 CERTIFIED / WALL &
DECKS 12 - 100 MM (1/2 - 4 IN) JOINT GAPS

Description

Emshield® DFR / WFR CE is a 4-hour fire resistant movement joint for walls and decks. Tested by CSTB France and certified by European Technical Assessment (ETA) DFR/WFR CE is suitable for European and other markets requiring CE marking.

Advantages

- 4-hour fire-rated, EN-1366-4 certified
- Watertight
- Thermal insulating
- Acoustic dampening
- Non-invasive anchoring
- +/- 50 % Movement (100 % Total)



Wabo®SafetyFlex (SFP)

SOUND DAMPENING / SLIP-RESISTANT / HINGED COVER PLATE 12 – 785 MM (1/2 – 31 IN) JOINT GAPS

Description

A hinged expansion joint cover plate, Wabo®SafetyFlex (SFP) is ideal for pedestrian walkway areas as well as in low-speed vehicular traffic areas in parking garages. Load-bearing, independent metal plates integral to the moulded EPDM rubber cover allows the system to flex in response to changes in vertical displacement between opposing slabs. Used in both recessed and surface mount applications.

Advantages

- Hinged design
- ADA-compliant, slip resistant design
- Flexible
- Fire-rated by adding Emshield® DFR
- Watertight by adding DSM system
- Multi-directional / Seismic movement capable



Wabo®SeismicSafetyFlex (SSF)

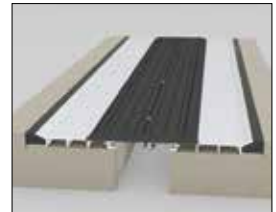
SEISMIC / SOUND DAMPENING / SLIP-RESISTANT / HINGED 50 – 610 MM (2 – 24 IN) JOINT GAPS

Description

A seismic hinged expansion joint cover, Wabo®Seismic Safety-Flex (SSF) utilizes an elastomeric molded cover plate system recommended for wider joint openings that are routinely exposed to heavy loading or when design considerations call for the ability to accommodate multi-directional seismic movement. Independent metal plates integral to the rubber cover allows the system to flex in response to changes in vertical displacement between opposing sides of the expansion joint.

Advantages

- Hinged design
- Recessed-mounted
- Flexible
- Fire-rated by adding Emshield® DFR
- Watertight by adding DSM system
- Multi-directional / Seismic movement capable



Wabo®SeismicSpan (APS, APX)

HEAVY LOADING EXPANSION JOINT COVER 35 – 675 MM (1 3/8 – 18 IN) JOINT GAPS

Description

An exterior floor seismic expansion joint cover, Wabo®SeismicSpan (APS, APX) system is for wider joints exposed to heavy loading or when design considerations call for the ability to accommodate multi-directional seismic movement in car parks, parking garages, stadiums, and floors.

Advantages

- Multi-directional / Seismic movement capable
- Integrated moisture barrier
- Heavy loading capacity
- Surface / Recessed mounting options
- Fire-rated by adding Emshield® DFR
- Watertight by adding DSM system



Wabo®StripSeal (SSS)

HEAVY-DUTY SYSTEM CAPABLE OF ACCOMMODATING MULTI-DIRECTIONAL SEISMIC MOVEMENT

Description

Elastomeric seals lock into the steel extrusion cavity for a watertight connection. A variety of elastomeric seals, steel and aluminum profiles, steel angles, plates and channels allow for engineered solutions to unique project conditions in parking decks, elevated roadways, entrance ramps and other structures.

Advantages

- Multi-directional / Seismic movement capable
- Integrated moisture barrier
- Heavy loading capacity
- Surface / Recessed mounting options
- Fire-rated by adding Emshield® DFR
- Watertight by adding DSM system



Plaza Deck & Split-Slab Solutions

DSM-FP

WATERTIGHT / TRAFFIC DURABLE
12 - 100 MM (1/2 - 4 IN) JOINT GAPS

Description

DSM-FP is a trafficable joint system for plaza decks & split slabs designed to straddle joint gaps up to 4 in (100 mm). DSM-FP expands the use of the DSM System to waterproofed split-slab deck designs through the use of side flashing sheets that integrate with the deck waterproofing membrane.

Advantages

- Watertight
- Traffic durable
- Handles heavy pedestrian loads
- Steel side legs available in many heights
- Integrated side flashing sheets
- +/- 50 % Movement (Total 100 %)



SJS-FP

WATERTIGHT / COVER PLATE SYSTEM
50 - 400 MM (2 - 16 IN) JOINT GAPS

Description

SJS-FP expands the use of the SJS System to waterproofed split-slab deck designs through the use of side flashing sheets that integrate with the deck waterproofing membrane. The system is made up of two sub-assemblies which include the structural-slab mounted supporting legs with integral waterproofing side sheets and the joint sealing and cover plate assembly.

Advantages

- Watertight
- Available for wide joints
- Traffic durable
- Handles heavy pedestrian/vehicular loads
- Integrated side flashing sheets
- +/- 50 % Movement (Total 100 %)



Migutan-FP

WATERTIGHT / FACTORY-FABRICATED TRANSITIONS
12 - 120 MM (1/2 - 3/4 IN) JOINT GAPS

Description

Migutan FP110 and FP155 are unique designs incorporating side flashing membrane sheets which integrate with the deck waterproofing system to form a continuous, completely watertight system.

Advantages

- Watertight
- Factory-fabricated transitions
- Heavy-duty positive interlocking side rails
- Integrated side flashing sheets
- Up to +/- 50 % Movement (Total 100 %)



RoofJoint

WATERTIGHT / ROOF AND SPLIT-SLAB EXPANSION
JOINT 50 - 225 MM (2 - 9 IN) JOINT GAPS

Description

RoofJoint is a patented dual-seal, double-flanged, extruded thermoplastic rubber system for sealing expansion joints in roofs, plaza assemblies, green and vegetative roofs. Watertightness is achieved through positive integration with the waterproofing membrane and a purpose-designed system for transitioning between the joint in a split-slab and wall joint interface.

Advantages

- High movement
- Redundant sealing
- Factory-fabricated transitions
- Heat-weldable
- Achieves watertight wall joint to split-slab interface



DFR-FP

WATERTIGHT / FIRE-RATED
12 - 100 MM (1/2 - 4 IN) JOINT GAPS

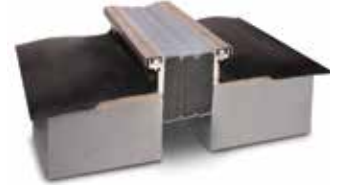
US Patents: 10,941,562 | 10,934,704 | 10,934,702

Description

Emshield® DFR-FP is a single unit fire-rated trafficable joint system for plaza decks & split slabs designed to straddle joint gaps up to 100 mm (4 in). DFR-FP expands the use of Emshield® DFR to waterproofed split-slab deck designs through the use of side flashing sheets that integrate with the deck waterproofing membrane. Emshield® DFR-FP has been certified by Underwriters Laboratories (UL) to the rigours of UL/ULC 2079.

Advantages

- Watertight
- 2-hour fire rating
- Traffic durable
- Handles heavy pedestrian loads
- Integrated side flashing sheets
- +/- 50 % Movement (Total 100 %)



SJS-FP-FR

WATERTIGHT / FIRE-RATED / COVER PLATE
SYSTEM 50 - 250 MM (2 - 10 IN) JOINT GAPS

US Patents: 8,341,908 | 10,787,805 | 10,787,806

Description

The SJS-FP-FR System is designed to provide a UL/ULC-certified fire-rated, watertight, trafficable joint system for use in seismic and large joint openings in decks of split-slab design. SJS-FP-FR expands the use of the SJS-FR System through side flashing sheets that integrate with the deck waterproofing membrane.

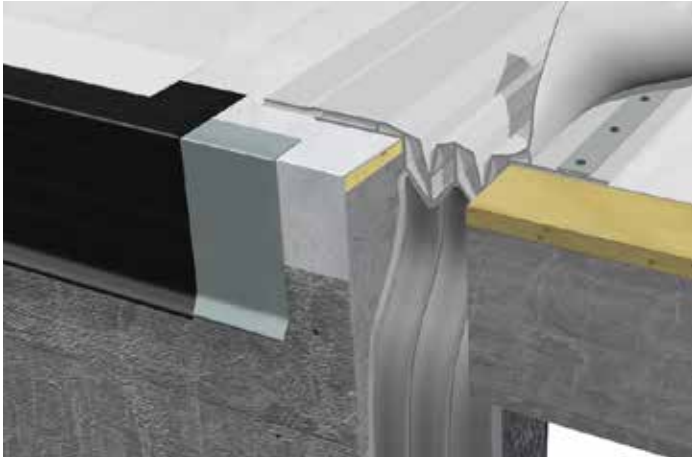
Advantages

- Watertight
- 2-hour fire rating with UL/ULC listings
- Traffic durable
- Non-invasive cover plate
- Handles high point loads
- Integrated side flashing sheets
- +/- 50 % Movement (Total 100 %)



Roofing Solutions

Emseal®'s Roof Expansion Joint products are engineered to deliver watertight, durable, and movement-capable solutions for the most demanding roofing applications. These systems integrate with various roofing assemblies and building envelopes, providing continuity across roof-to-wall transitions, parapets, and other complex interfaces. Utilizing factory-fabricated components, pre-compressed foam sealants, and optional fire-rated solutions, Sika ensures that roof expansion joints perform reliably under thermal, seismic, and structural movement—while maintaining aesthetics, energy efficiency, and long-term durability.



Engineered Redundancy

A key strength of the Roofjoint System lies in its built-in redundancy, featuring patented dual-level integration flanges, dual-level joint sealing, and dual-method mechanical fastening, and long-term durability. This multi-tiered approach ensures superior watertight performance, even under the dynamic conditions of thermal movement, structural loading, and extreme weather exposure.

Roofjoint

WATERTIGHT / ROOF EXPANSION JOINT
50 – 225 MM (2 – 9 IN) JOINT GAPS

US Patents: 9,850,662 | 10,851,542

Description

Roofjoint is a patented dual seal, double-flanged, extruded thermoplastic rubber system for sealing expansion joints in roofs, plaza assemblies, green and vegetative roofs. Watertightness is achieved through positive integration with the roofing membrane and a purpose-designed system for transitioning between the joint in the roof and joints in walls. Available in either a Nitrile PVC or TPV thermoplastic rubber.

Advantages

- High movement
- Redundant sealing
- Factory-fabricated transitions
- Heat-weldable
- Achieves wall joint to roof joint interface
- TPV & NPVC membranes available in black or reflective white colour



Wabo®RoofCover

LARGE GAP ROOF EXPANSION JOINT
250 – 600 MM (10 – 24 IN) JOINT GAPS

Description

Wabo®RoofCover (RFC) is an aluminum cover plate system engineered for flat and sloped roofs that are subject to thermal and seismic movement. The integral weather seal and bellows moisture barrier keep outside elements from penetrating the structural opening and interior space below the joint. The aluminum cover protects expansion joint from ice/snow loads, UV rays, and occasional foot traffic.

Advantages

- Water-resistant
- Durable aluminum cover
- Handles snow and ice loading
- Protects joint from occasional foot traffic
- Multi-directional
- Seismic movement capable



Below Grade Solutions

Emseal®'s BG (Below Grade) System is a high-performance expansion joint solution specifically designed for below-grade waterproofing in both backfilled and blindside construction applications. Engineered to handle structural movement while maintaining watertight integrity, the BG System integrates with foundation walls and waterproofing membranes. Most notably, the system supports factory-fabricated, watertight transitions to above-grade expansion joints, ensuring a continuous, durable seal from foundation to façade—critical for comprehensive building envelope protection.



BG System

WATERTIGHT / BELOW-GRADE EXPANSION JOINT
50 - 175 MM (2 - 7 IN) JOINT GAPS

US Patents: 9,850,662 | 10,851,542

Description

The BG System is a heavy-duty, double-celled, extruded, heat-weldable rubber gland flanked by integral side flashin sheets. The side flashing sheets are field-integrated into the waterproofing membrane. The BG System is the only expansion joint system designed for both backfilled and blind side construction. Factory fabricated transitions are provided for continuity of seal.

Advantages

- Walls and under-slab seal
- Backfilled and blind side compatible
- Transitions to above-grade expansion joints
- High movement capability
- Redundant sealing to waterproofing through mechanical, heat, and/or chemical integration



Hygenic/Chemical Resistant Solutions

Chemseal

WATERTIGHT / CHEMICAL-TOLERANT EXPANSION
JOINT 12 – 100 MM (1/2 – 4 IN) JOINT GAPS

Description

A chemical resistant sealant and expansion joint. Chemseal is a precompressed, primary seal for retrofit and new structural expansion joints and construction joints where contact with harsh chemicals and chemical dilutions is expected.

Advantages

- Watertight
- Widest range of chemical tolerance
- Rapid installation
- Non-invasive anchoring
- +/- 25 % Movement (50 % Total)



DSF System

WATERTIGHT / NSF/ANSI-COMPLIANT EXPANSION
JOINT 12 – 100 MM (1/2 – 4 IN) JOINT GAPS

Description

An NSF compliant joint sealant, DSF System provides a lasting solution to joint sealing applications and will not pose a contamination risk to liquids or solids which may be ingested. The silicone coating is compliant to NSF/ANSI Standard 61 for contact with potable drinking water. It also is in compliance with FDA Regulation CFR 177.2600 for indirect contact with food.

Advantages

- Watertight
- Resistant to chlorinated water (up to 5 ppm)
- Resistant to saline water
- Rapid installation
- Non-invasive anchoring
- NSF/ANSI STANDARD 61 compliant
- +/- 25 % Movement (50 % Total)



Interior Floor Solutions

SJS-FR-NB

FIRE-RATED / "BUMPLESS" COVERPLATE EXPANSION JOINT 50 - 250 MM (2 - 10 IN) JOINT GAPS

US Patents: 8,341,908 | 10,787,805 | 10,787,806

Description

SJS-FR-NB features a flush-mounted trafficable cover plate. The system is watertight, fire-rated, sound-dampening, and trafficable for large and seismic expansion joint gaps. SJS-FR-NB is constructed from two horizontal joints pre-assembled in parallel adjacent to a heavy-duty spline. The system contains no metal embeds or unnecessary metal components.

Advantages

- Watertight
- 1 or 2-hour fire-rating
- Flush-mounted trafficable cover plate
- Easy installation
- Non-invasive anchoring
- Available for wide joints
- High movement capable



SJS-FR-Inlay

FIRE-RATED / FLOORING INTEGRATED COVERPLATE EXPANSION JOINT 50 - 250 MM (2 - 10 IN) JOINT GAPS

US Patents: 8,341,908 | 10,787,805 | 10,787,806

Description

SJS-FR-Inlay is an interior expansion joint which features an aluminum cover plate that is designed to incorporate the aesthetics of the flooring surface adjacent to the cover plate edges. The system is watertight, fire-rated, high-movement, sound-dampening, and trafficable for large and seismic expansion joint gaps. SJS-FR-Inlay is constructed from two horizontal joints pre-assembled in parallel adjacent to a heavy-duty spline. The system contains no metal embeds or unnecessary metal components.

Advantages

- Watertight
- 1 or 2-hour fire-rating
- Milled coverplate for flooring integration
- Easy installation
- Non-invasive anchoring
- Available for wide joints
- +/- 50 % Movement (100 % Total)



SJS-FR

WATERTIGHT / TRAFFIC DURABLE / FIRE-RATED 100 - 250 MM (2 - 10 IN) JOINT GAPS

US Patents: 8,341,908 | 10,787,805 | 10,787,806

Description

SJS-FR1 and SJS-FR2 are fire-rated, watertight, high-movement, sound-dampened systems for large interior expansion joint gaps. Designed for use in fire-rated concrete decks/floors, interior or open-air slabs, in both new or retrofit construction. The cover plates handle pedestrian and high point loads.

Advantages

- Watertight
- 1 or 2-hour fire rating with UL/ULC listings
- Eliminates need for gutters
- Easy installation
- Non-invasive anchoring
- Available for wide joints
- +/- 50 % Movement (100 % Total)



Wabo®CorridorWrap (Floor)

INTERIOR EXPANSION JOINT COVER
25 – 75 MM (1 – 3 IN) JOINT GAPS

Description

An interior expansion joint cover for floors, Wabo®CorridorWrap is an aesthetic joint system with narrow sightlines that offers a choice of models, each of which consists of a variety of elastomeric seals and edge retainers. This variety provides for floor applications and permits selection of a system appropriate for the expected movement and project conditions including compliance with ADA guidelines.

Advantages

- Load capacity: normal interior use
- Flush inserts
- ADA compliant
- Aesthetic continuity with floor, wall, and ceiling options



Wabo®FastFloor

FLOOR EXPANSION JOINT COVER PLATE
25 – 150 MM (1 – 6 IN) JOINT GAPS

Description

Wabo®FastFloor (FJF, FJS) is a blockout-free series of durable and reliable floor joint systems capable of accommodating thermal and multi-directional seismic movement. The systems are surface mounted directly to the concrete floor slab and do not require the use of traditional preformed blockouts.

Advantages

- Load capacity: normal interior use
- Blockout-free installation
- ADA compliant
- Flooring compatibility with carpet, tile, etc.



Wabo®HingeMount

HINGED COVER PLATE 50 – 150 MM (2 – 10 IN)
JOINT GAPS

Description

Wabo® HingeMount (HDH) is an interior floor hinged expansion joint cover plate system. Surface-mounted and ideal for uneven floors and decks. Quickly and easily installs in retrofit repair projects.

Advantages

- Load capacity: normal interior use
- Blockout-free installation
- ADA compliant
- Hinged design for uneven floors



Wabo®SeisMaxPlus (Floor)

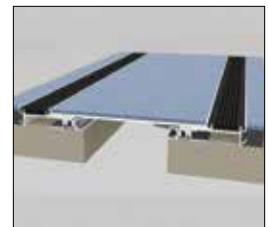
SEISMIC INTERIOR FLUSH EXPANSION JOINT
50 – 600 MM (2 – 24 IN) JOINT GAPS

Description

Wabo®SeisMaxPlus for floors (NBS) sits flush with the finished flooring level for optimal trafficability. The recessed inlay allows for installation of rigid flooring surfaces up to 6 mm (1/4 in) thick and helps blend the coverplate into the finished flooring. Elastomeric seals on either side of the system allow for thermal movement without buckling or bulging.

Advantages

- Recessed flush mounted
- No visible hardware
- Emergency egress capable
- Multi-directional movement capable



Wabo®SeismicFloor

INTERIOR SEISMIC FLOOR COVER PLATE
50 – 600 MM (2 – 24 IN) JOINT GAPS

Description

Wabo®SeismicFloor (FNB, FXE) is designed with an inverted bevel cover plate thus reducing gaps between the cover and extension plate and is flush with finished floor. It is a durable and reliable interior floor system capable of accommodating thermal and multi-directional seismic movement.

Advantages

- Multi-directional movement capable
- Recessed or surface-mounted options
- ADA compliant
- Flooring compatibility with carpet, tile, etc



Wabo®SeismicPan

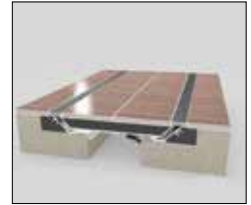
SEISMIC FLOOR EXPANSION JOINT PAN COVER
50 – 450 MM (2 – 8 IN) JOINT GAPS

Description

Wabo®SeismicPan (SP) is a pan style floor system with minimal interruption of the tile, terrazzo, carpet, concrete or other deck or flooring material.

Advantages

- Blends in aesthetically with flooring finish
- ADA compliant
- Recessed-mounted



Migutrans SFS

HEAVY DUTY INTERIOR EXPANSION JOINT COVER
10 – 100 MM (3/8 – 4 IN) JOINT GAPS

Description

A heavy-duty interior floor expansion joint cover system, Migutrans SFS is installed flush with the flooring surface ideally suited for high point load traffic and ADA compliance.

Advantages

- Extremely durable
- All-metal profile (aluminum)
- Rapid Installation
- ADA compliant
- Smooth, impact-free traffic surface at any opening state of the joint



Migutec FG2 65/30

HIGH AESTHETIC / HYGIENIC REQUIRED EXPANSION
JOINT PROFILE 20 – 50 MM (3/16 – 2 IN) JOINT GAPS

Description

Ultra-smooth insert for residue-free cleaning for optimal sterility and physiological safety. Seamless, symmetrical visible surface hard-wear special insert for smoother, low-noise transit.

Advantages

- Standard load capacity
- Low profile
- High movement capabilities
- ADA compliant
- Floor-to-wall versions available



Interior Wall Covers and Fillers

QuietJoint®

ACOUSTIC JOINT FILLER AND PARTITION CLOSURE
25 – 150 MM (1 – 6 IN) WALL SEPARATIONS

Description

An acoustic joint filler, QuietJoint® is a mass-loaded sound, draft, heat, cold, and dust blocking acoustic partition closure and joint filler for interior, non-moving joints and gaps. It's a non-mechanical, high-STC (Sound Transmission Class), non-invasively anchored closure that quickly and easily mates partitions to windows, mullions, or stud walls.

Advantages

- Quick, easy installation
- Thermally insulating
- Non-invasive anchoring
- Size switching accommodates gap variations
- Wide range of colours
- Won't suffer from compression



Wabo®Contour II

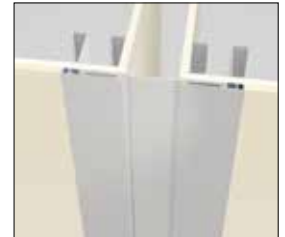
INTERIOR ALUMINUM WALL EXPANSION JOINT
COVER 25 – 150 MM (1 – 6 IN) JOINT GAPS

Description

An interior wall and ceiling expansion joint cover plate system, Wabo®Contour II (CTR) is capable of accommodating thermal and seismic movement and integrates with a variety of wall and ceiling surface treatments. The aluminum coverplate is recessed into the wall finish for a flush installation.

Advantages

- Multi-directional movement capable
- No visible hardware
- Corner conditions
- Surface/Flush mounting options
- Movement of +/- 50 % (Total 100 %) of nominal size



Wabo®CorridorWrap (Wall/Ceiling)

INTERIOR EXPANSION JOINT COVER FOR WALLS
AND CEILINGS 25 – 150 MM (1 – 6 IN) JOINT GAPS

Description

An interior expansion joint cover for walls and ceilings, Wabo®CorridorWrap is an aesthetic joint system with narrow sightlines that offers a choice of models, each of which consists of a variety of elastomeric seals and edge retainers. This variety provides a wide range of attachment solutions for wall, drywall, and ceilings, and permits selection of a system appropriate for the expected movement and project conditions.

Advantages

- Flush inserts
- Corner wall versions
- Aesthetic continuity with wall and ceiling options
- Low-profile
- Ultra-smooth inserts for residue-free cleaning



Wabo®SeisMaxPlus (Wall/Ceiling)

SEISMIC INTERIOR WALL AND CEILING EXPANSION
JOINT 100 – 610 MM (4 – 24 IN) JOINT GAPS

Description

SeisMaxPlus for walls and ceilings (NBW) sits flush with the finished wall/ceiling surface for limited interruption of the desired aesthetic. The recessed inlay allows for multiple wall surface types to be integrated into the expansion joint cover. Elastomeric seals on either side of the system allow for thermal movement without buckling or bulging.

Advantages

- Recessed flush mounted
- No visible hardware
- Emergency egress capable
- Multi-directional movement capable
- Corner / floor-to-wall conditions



Wabo®SeismicCover

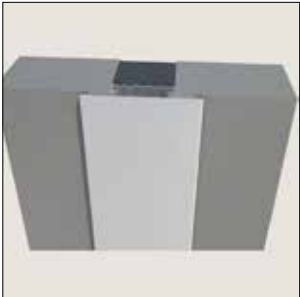
SEISMIC WALL EXPANSION JOINT COVER FOR DRYWALL 50 – 610 MM (2 – 24 IN) JOINT GAPS

Description

A seismic wall expansion joint cover, Wabo®SeismicCover is an exterior and interior wall system designed to accommodate both thermal and multi-directional movement. The system is installed on the exterior or interior of a building and provides a simple, attractive and durable solution. or interior applications, SeismicCover WFI/WFT is surface mounted over the ceiling, soffit, or wall expansion joint opening.

Advantages

- Rapid installation
- Surface-mounted
- No visible hardware
- Multi-directional / Seismic movement capable



Wabo®WeatherSeam

SEISMIC WALL EXPANSION JOINT COVER FOR WIDE WALL JOINTS 50 – 610 MM (2 – 24 IN) JOINT GAPS

Description

A seismic building expansion joint system for interior and exterior walls and ceilings, Wabo®WeatherSeam is weather resistant and installed flushed with the finished substrates. Provided in joint widths up to 24 in wide to accommodate seismic joint openings.

Advantages

- Rapid installation
- Surface-mounted
- No visible hardware
- Weather-resistant
- Multi-directional / Seismic movement capable



Integrated Warranty Solutions

Sika offers robust, single-source warranties that pair our proven expansion joint systems with top-tier waterproofing and concrete repair and protection systems. These warranties deliver watertight integration, redundant sealing, and long-term performance assurance—all backed by one trusted manufacturer.

Deck Membranes

For traffic-bearing deck applications—such as parking structures and stadiums – **Sikalastic® Deck Membranes** can be paired with industry-leading horizontal Wabo® and Emseal® expansion joint systems, including **DSM, DFR, SJS, Wabocrete®** and **Thermaflox®**. This combination delivers a high-performance, durable, and watertight system under a single-source warranty package, covering both the deck membrane and the expansion joints.

This sole-source approach eliminates the risks associated with multi-manufacturer assemblies by offering coordinated details backed by a single warranty provider. It ensures that all critical components—from the movement joints to the waterproofing membrane—work in unison to accommodate structural movement, withstand vehicular and pedestrian traffic, and resist long-term exposure to UV, deicing salts, and thermal cycling.

With over a century of combined expertise in structural joint sealing and waterproof coating technologies, Sika provides contractors, designers, and owners peace of mind through proven system performance, local technical support, and streamlined quality assurance.



COMMERCIAL EXPANSION JOINTS CHECKLIST

Emseal® ■ Wabo®

BUILDING TRUST
CONSTRUIRE LA CONFIANCE



Name _____ Company _____ Date _____

Phone _____ Fax _____ Email _____

Job Name _____ Job Location (City & Prov) _____

INSTALLATION LOCATION

<input type="checkbox"/> Interior <input type="checkbox"/> Exterior	<input type="checkbox"/> Wall <input type="checkbox"/> Floor/Deck <input type="checkbox"/> Roof	<input type="checkbox"/> Above Grade <input type="checkbox"/> Below Grade <input type="checkbox"/> Submerged
1	2	3

CONSTRUCTION TYPE

<input type="checkbox"/> New Construction <input type="checkbox"/> Retrofit Construction
4

FIRE RATING

<input type="checkbox"/> No Fire Rating Fire Rating: <input type="checkbox"/> 1-hr <input type="checkbox"/> 2-hr <input type="checkbox"/> 3-hr
5

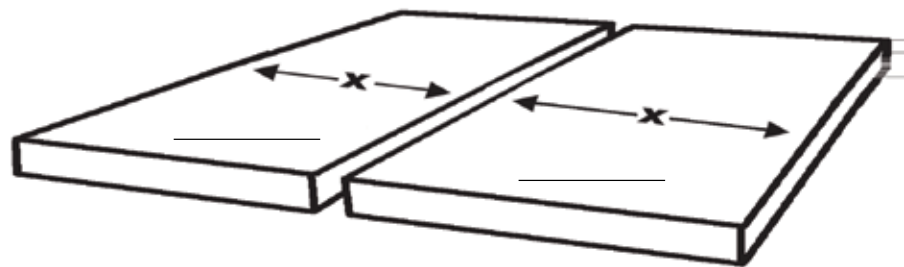
EXPANSION GAP INFORMATION

Joint Gap Width(s): _____ Varies from: _____ to _____ (over its length)	Joint Substrate Depth: _____	Total Footage (ft or m): _____
6	7	8
Have Gap Dimensions Been Field Measured? <input type="checkbox"/> Yes / <input type="checkbox"/> No Substrate Surface Temp. _____ Ambient Temp. _____	Substrate Composition: _____ (e.g., concrete, brick, metal, etc.) Membrane Tie-in?: <input type="checkbox"/> Yes / <input type="checkbox"/> No Type _____ Metal Pour Stops?: <input type="checkbox"/> Yes / <input type="checkbox"/> No	
9	10	
Movement (if known): _____ (e.g., ± thermal; ± shear, etc.)	Joint is: <input type="checkbox"/> Primary Seal <input type="checkbox"/> Secondary Seal	Joint Will Seal Out: <input type="checkbox"/> Rain/Water <input type="checkbox"/> Cold/Heat <input type="checkbox"/> Sound <input type="checkbox"/> Air <input type="checkbox"/> Vermin <input type="checkbox"/> Other _____
11	12	13
Are There Transitions? <input type="checkbox"/> Yes (explain) / <input type="checkbox"/> No _____	How Does the Joint Terminate? _____	
14	15	

FOR HORIZONTAL DECK/FLOOR and ROOF JOINTS (ONLY)

DECK CONSTRUCTION

Is this a Solid Slab Condition? <input type="checkbox"/> Yes / <input type="checkbox"/> No	
Is this a Split Slab Condition? <input type="checkbox"/> Yes / <input type="checkbox"/> No	
Topping slab thickness: _____	
Does the Joint have Blockouts? <input type="checkbox"/> Yes / <input type="checkbox"/> No	
16	
Traffic Types (check all that apply): <input type="checkbox"/> Car <input type="checkbox"/> Bus <input type="checkbox"/> Pedestrian <input type="checkbox"/> None Other _____	
17	



Please fill in the slab width dimensions at each "x". If one substrate of your joint is a wall instead of a slab, please denote that "x" as "Wall" instead of giving a dimension. If more than one joint occurs within the same immediate area, please draw them and the appropriate dimensions. Attach additional drawings as needed.

Please include any relevant details when submitting checklist to Sika.

Architect: _____ Engineer: _____ Contractor: _____ Owner/Developer: _____

Please FAX or Email to Sika Fax: (508) 836-0281 / Email: techinfo@emseal.com / Phone: (508) 836-0280

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COMMERCIAL EXPANSION JOINTS

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www.emseal.com

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*Our most current General Sales Conditions shall apply.
Please consult the most current local Product Data Sheet prior to any use.*

SIKA CANADA INC.

Head Office
601 Delmar Avenue
Pointe-Claire, Quebec
H9R 4A9

Other locations
Boisbriand (QC)
Brantford; Cambridge; Sudbury; Toronto (ON)
Edmonton (AB); Surrey (BC)

1-800-933-7452
sika.ca

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