

RUBBER IMPACT /  
SOUND DAMPER

LOKCRETE® ELASTOMERIC  
CONCRETE EMBEDDED  
MATERIAL (RECOMMENDED)

BOLT-DOWN BASE FRAME WITH  
ADA COMPLIANT SLOPE

0.25" (6mm) CONCRETE ANCHOR -  
@18" (457mm) O.C. STAGGERED

60 MIL X 3/4"  
MICROWATERSEAL TAPE

\*IMPORTANT DIMENSION -  
ACHIEVE REQUIRED DEPTH  
BY EXACT FORMING,  
GRINDING, MILLING OR  
STRUCTURAL LEVELING BED

\* \* NOMINAL STRUCTURAL JOINT  
WIDTH INCREASED 3 INCHES  
TO ACCOMMODATE FULL  
CLOSURE

SL

SW

ALUMINUM SLIDE PLATE COVER  
WITH BRUSHED FINISH

ST

0.50"  
[13mm]

0.3125" (8mm) X 0.75" (19mm)  
FHMS/SS @18" (457mm) O.C.

BACKER ROD AND CAULK  
(BY OTHERS)

0.25" (6mm) X 1.75" (44mm)  
CONCRETE ANCHOR  
@ 18" O.C.

WALL MOUNT SEISMIC ARM

30 MIL X 2" MICROWATERSEAL TAPE

WALL MOUNT HINGE FRAME  
& SEISMIC ARM

FLEXIBLE FABRIC REINFORCED  
60 mil EPDM RUBBER GUTTER

FLEXIBLE DRAIN TUBE ASSEMBLY  
(AVAILABLE BY REQUEST)

\* BD

2.00"  
[51mm]

BW

JO \*\*

(see chart pg.2)

## BIS-C-Plus Series Expansion Joint

Sizes 800+ through 2000+  
(Slab-to-Wall)



50 MM WAY  
PENDERGRASS, GA. 30567  
706-824-7500 PHONE

[www.mm.systems](http://www.mm.systems)

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### Bolt-In Seismic Expansion Joint

BIS-C-Plus Series (800+ to 2000+) / 100% Movement

Drawn by:

JRC

Scale:

NTS

Drawing Number:

SHT. 1 OF 3

Issue Date:  
12/21/23

30250-04B

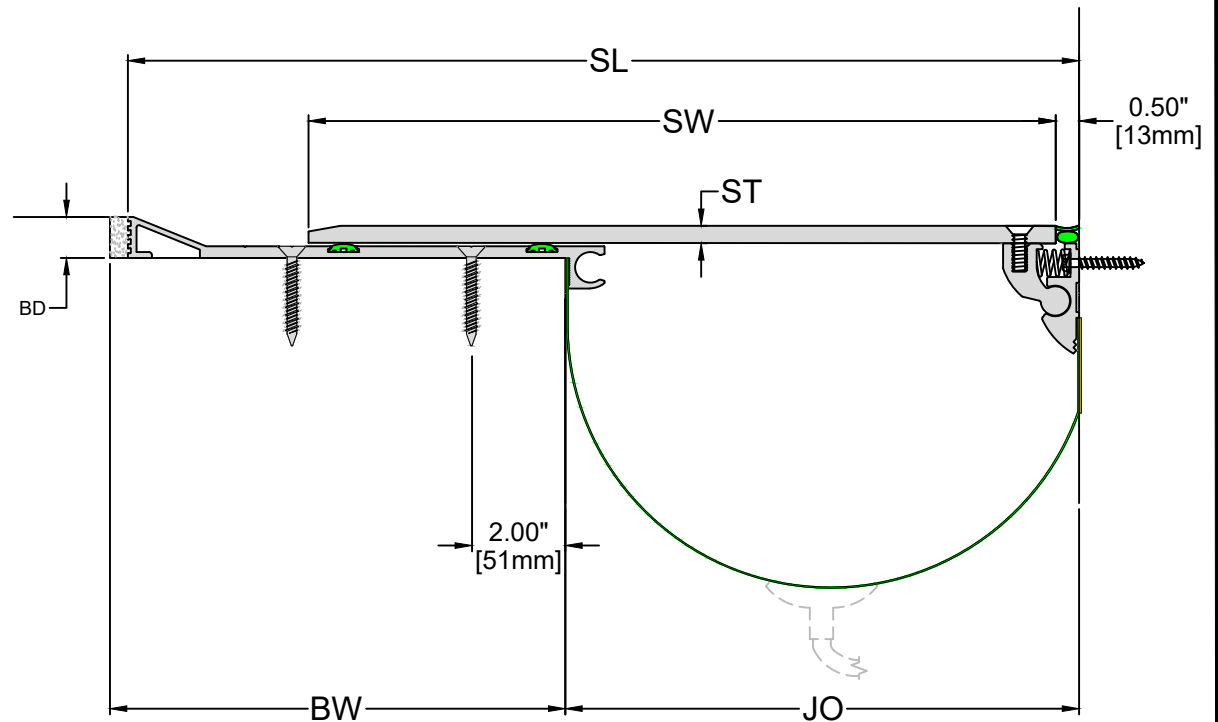
| BIS-C-PLUS SERIES EXPANSION JOINT MOVEMENT CHART (800-2000) / 100% MOVEMENT |                                    |     |                                 |     |                                       |     |         |     |                                       |     |         |     |                            |     |                            |    |                        |     |                     |     |                     |    |
|-----------------------------------------------------------------------------|------------------------------------|-----|---------------------------------|-----|---------------------------------------|-----|---------|-----|---------------------------------------|-----|---------|-----|----------------------------|-----|----------------------------|----|------------------------|-----|---------------------|-----|---------------------|----|
| Model Number                                                                | Joint Opening (JO <sup>(b)</sup> ) |     | Sight Line (SL <sup>(b)</sup> ) |     | Thermal Movement (JO <sup>(t)</sup> ) |     |         |     | Seismic Movement (JO <sup>(s)</sup> ) |     |         |     | Total (JO <sup>(t)</sup> ) |     | Slide Plate Thickness (ST) |    | Slide Plate Width (SW) |     | Blockout Width (BW) |     | Blockout Depth (BD) |    |
|                                                                             | Nominal**                          |     | Nominal                         |     | Minimum                               |     | Maximum |     | Minimum                               |     | Maximum |     | Movement                   |     |                            |    |                        |     |                     |     |                     |    |
| BIS-C-800+                                                                  | 11.00                              | 279 | 20.37                           | 517 | 10.00                                 | 254 | 12.00   | 305 | 7.00                                  | 178 | 15.00   | 381 | 8.00                       | 203 | 0.375                      | 10 | 16.00                  | 406 | 9.75                | 248 | 0.875               | 22 |
| BIS-C-1000+                                                                 | 13.00                              | 330 | 22.37                           | 568 | 12.00                                 | 305 | 14.00   | 356 | 8.00                                  | 203 | 18.00   | 457 | 10.00                      | 254 | 0.500                      | 13 | 18.00                  | 457 | 9.75                | 248 | 0.875               | 22 |
| BIS-C-1200+                                                                 | 15.00                              | 381 | 24.37                           | 619 | 14.00                                 | 356 | 16.00   | 406 | 9.00                                  | 229 | 21.00   | 533 | 12.00                      | 305 | 0.500                      | 13 | 21.00                  | 533 | 9.75                | 248 | 0.875               | 22 |
| BIS-C-1400+                                                                 | 17.00                              | 432 | 27.37                           | 695 | 16.00                                 | 406 | 18.00   | 457 | 10.00                                 | 254 | 24.00   | 610 | 14.00                      | 356 | 0.500                      | 13 | 24.00                  | 610 | 10.75               | 273 | 0.875               | 22 |
| BIS-C-1600+                                                                 | 19.00                              | 483 | 30.37                           | 771 | 18.00                                 | 457 | 20.00   | 508 | 11.00                                 | 279 | 27.00   | 686 | 16.00                      | 406 | 0.625                      | 16 | 27.00                  | 686 | 11.75               | 298 | 0.875               | 22 |
| BIS-C-1800+                                                                 | 21.00                              | 533 | 33.37                           | 848 | 20.00                                 | 508 | 22.00   | 559 | 12.00                                 | 305 | 30.00   | 762 | 18.00                      | 457 | 0.625                      | 16 | 30.00                  | 762 | 12.75               | 324 | 1.000               | 25 |
| BIS-C-2000+                                                                 | 23.00                              | 584 | 36.37                           | 924 | 22.00                                 | 559 | 24.00   | 610 | 13.00                                 | 330 | 33.00   | 838 | 20.00                      | 508 | 0.625                      | 16 | 33.00                  | 838 | 13.75               | 349 | 1.000               | 25 |

Dimension shown in **inches** (bold) and millimeters. Refer to the BIS-Plus AutoCAD file for individual system drawings.

\*\*\*Nominal structural joint width increased 3 inches to accommodate full closure.

| LOAD TABLE                                                                         |                         |
|------------------------------------------------------------------------------------|-------------------------|
|   | Auto (Low Speed)        |
|   | Maintenance Cart        |
|   | Bus (Low Speed)         |
|   | AASHTO HS20 (Low Speed) |
|  | Safe Walking Surface    |

Note: The BIS loading capabilities shown above are based upon average vehicular and equipment weights, wheel types and sizes. For project-specific loading capabilities, contact MM Systems with technical data related to wheel type, contact area (footprint), distributed load per wheel, and speed of traffic.



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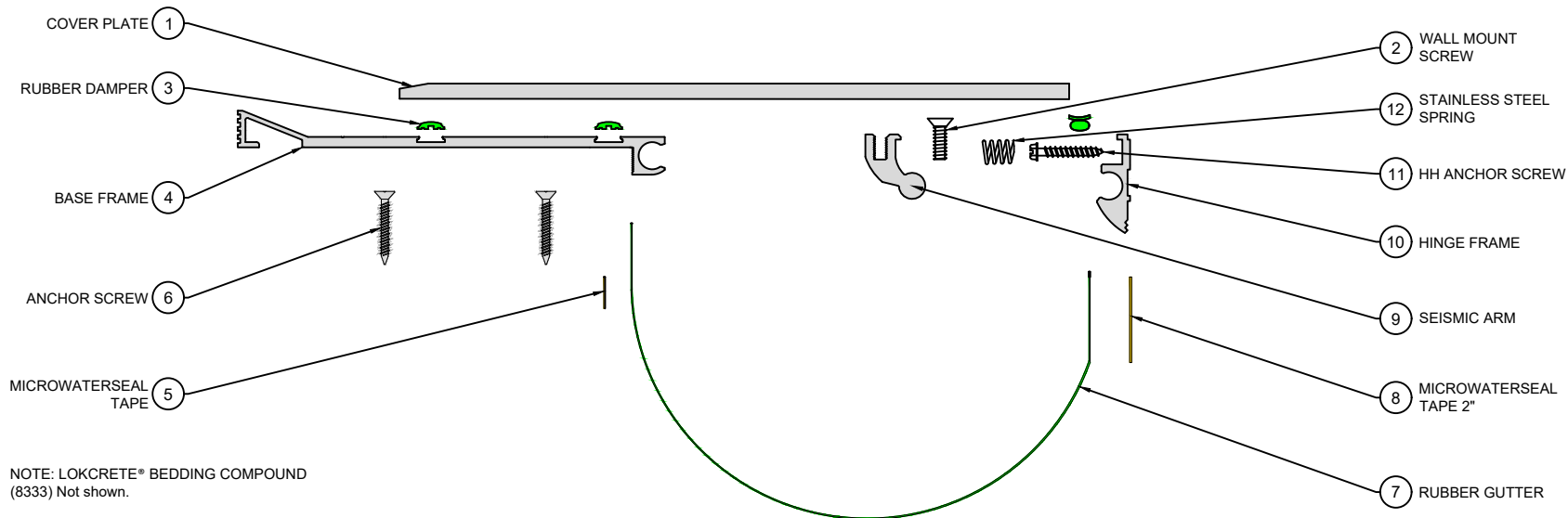
SHT. 2 OF 3

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**EXPLODED VIEW ▲**

**PART NUMBERS ▼**

| Locator | Part Component         | BIS-C-800+                      | BIS-C-1000+                     | BIS-C-1200+                     | BIS-C-1400+                     | BIS-C-1600+                     | BIS-C-1800+                     | BIS-C-2000+                     |
|---------|------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| 1       | Cover Plate            | CPHE-AT-10-1600-01-18           | CPHF-AT-10-1800-01-18           | CPHF-AT-10-2100-01-18           | CPHF-AT-10-2400-01-18           | CPHG-AT-05-2700-01-12           | CPHG-AT-05-3000-01-12           | CPHG-AT-05-3300-01-12           |
| 2       | Wall Mount Screw       | 9349                            | 9349                            | 9349                            | 9349                            | 9349                            | 9349                            | 9349                            |
| 3       | Rubber Damper          | 8461-65                         | 8461-65                         | 8461-65                         | 8461-65                         | 8461-65                         | 8461-65                         | 8461-65                         |
| 4       | Base Frame             | ASSY-71377140-M-10-00-18        | ASSY-71377140-M-10-00-18        | ASSY-71377140-M-10-00-18        | ASSY-713771447140-M-10-00-18    | ASSY-713771447140-M-10-00-18    | ASSY-713771447140-M-10-00-18    | ASSY-713771447140-M-10-00-18    |
| 5       | Microwaterseal Tape    | MICROWATERSEAL60X $\frac{3}{4}$ | MICROWATERSEAL60X $\frac{3}{4}$ | MICROWATERSEAL60X $\frac{3}{4}$ | MICROWATERSEAL60X $\frac{3}{4}$ | MICROWATERSEAL60X $\frac{3}{4}$ | MICROWATERSEAL60X $\frac{3}{4}$ | MICROWATERSEAL60X $\frac{3}{4}$ |
| 6       | Anchor Screw           | 9406                            | 9406                            | 9406                            | 9406                            | 9406                            | 9406                            | 9406                            |
| 7       | Rubber Gutter          | 9109-30                         | 9109-33                         | 9109-35                         | 9109-40                         | 9109-43                         | 9109-47                         | 9109-51                         |
| 8       | Microwaterseal Tape    | Microwaterseal30X2              | Microwaterseal30X2              | Microwaterseal30X2              | Microwaterseal30X2              | Microwaterseal30X2              | Microwaterseal30X2              | Microwaterseal30X2              |
| 9       | Seismic Arm            | 8357                            | 8357                            | 8357                            | 8357                            | 8357                            | 8357                            | 8357                            |
| 10      | Hinge Frame            | 8358                            | 8358                            | 8358                            | 8358                            | 8358                            | 8358                            | 8358                            |
| 11      | HH Anchor Screw        | 9397                            | 9397                            | 9397                            | 9397                            | 9397                            | 9397                            | 9397                            |
| 12      | Stainless Steel Spring | 8317                            | 8317                            | 8317                            | 8317                            | 8317                            | 8317                            | 8317                            |



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