

### BIS Series Expansion Joint

Sizes 400 through 1200  
(Slab-to-Slab)



**MM**  
SYSTEMS

50 MM WAY  
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#### Bolt-In Seismic Expansion Joint

BIS Series (400-1200) / 50% Movement

Drawn by:

JRC

Scale:

NTS

Drawing Number:

SHT. 1 OF 3

Issue Date:






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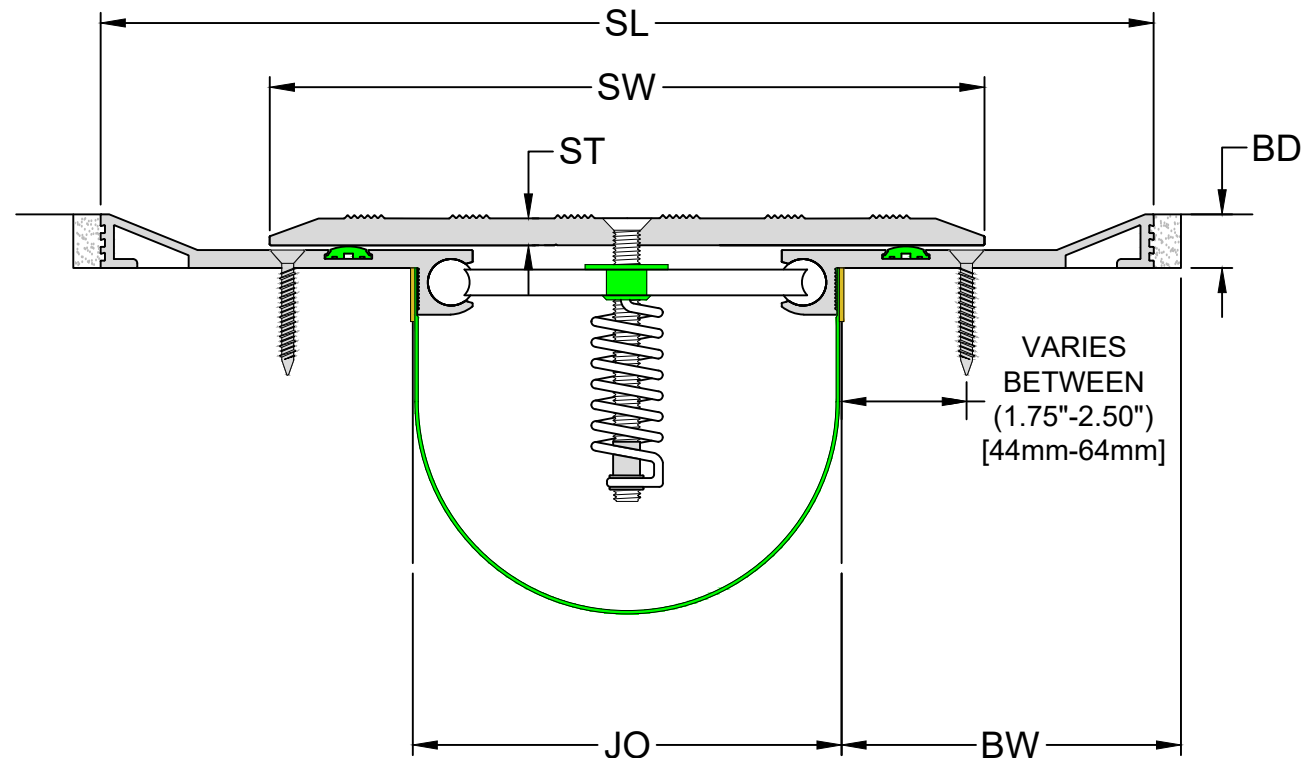
# BIS SERIES EXPANSION JOINT MOVEMENT CHART (400-1200) / 50% MOVEMENT

| Model Number | Joint Opening (JO <sup>N</sup> ) |     | Sight Line (SL <sup>N</sup> ) |     | Thermal Movement (JO <sup>T</sup> ) |     |              |     | Seismic Movement (JO <sup>S</sup> ) |     |              |     | Total (JO <sup>A</sup> ) |     | Slide Plate Thickness (ST) |    | Slide Plate Width (SW) |     | Blockout Width (BW) |     | Blockout Depth (BD) |    |
|--------------|----------------------------------|-----|-------------------------------|-----|-------------------------------------|-----|--------------|-----|-------------------------------------|-----|--------------|-----|--------------------------|-----|----------------------------|----|------------------------|-----|---------------------|-----|---------------------|----|
|              | Nominal                          |     | Nominal                       |     | Minimum                             |     | Maximum      |     | Minimum                             |     | Maximum      |     | Movement                 |     |                            |    |                        |     |                     |     |                     |    |
| BIS-400      | <b>4.00</b>                      | 102 | <b>12.74</b>                  | 324 | <b>2.00</b>                         | 51  | <b>6.00</b>  | 152 | <b>2.00</b>                         | 51  | <b>6.00</b>  | 152 | <b>4.00</b>              | 102 | <b>0.250</b>               | 6  | <b>7.50</b>            | 191 | <b>4.75</b>         | 121 | <b>0.750</b>        | 19 |
| BIS-600      | <b>6.00</b>                      | 152 | <b>14.74</b>                  | 374 | <b>4.00</b>                         | 102 | <b>8.00</b>  | 203 | <b>3.00</b>                         | 76  | <b>9.00</b>  | 229 | <b>6.00</b>              | 152 | <b>0.375</b>               | 10 | <b>10.00</b>           | 254 | <b>4.75</b>         | 121 | <b>0.750</b>        | 19 |
| BIS-800      | <b>8.00</b>                      | 203 | <b>19.74</b>                  | 501 | <b>6.00</b>                         | 152 | <b>10.00</b> | 254 | <b>4.00</b>                         | 102 | <b>12.00</b> | 305 | <b>8.00</b>              | 203 | <b>0.375</b>               | 10 | <b>13.50</b>           | 343 | <b>6.25</b>         | 159 | <b>0.750</b>        | 19 |
| BIS-1000     | <b>10.00</b>                     | 254 | <b>21.74</b>                  | 552 | <b>8.00</b>                         | 203 | <b>12.00</b> | 305 | <b>5.00</b>                         | 127 | <b>15.00</b> | 381 | <b>10.00</b>             | 254 | <b>0.375</b>               | 10 | <b>16.00</b>           | 406 | <b>6.25</b>         | 159 | <b>0.750</b>        | 19 |
| BIS-1200     | <b>12.00</b>                     | 305 | <b>23.74</b>                  | 603 | <b>10.00</b>                        | 254 | <b>14.00</b> | 356 | <b>6.00</b>                         | 152 | <b>18.00</b> | 457 | <b>12.00</b>             | 305 | <b>0.500</b>               | 13 | <b>18.50</b>           | 470 | <b>6.25</b>         | 159 | <b>0.750</b>        | 19 |

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

| 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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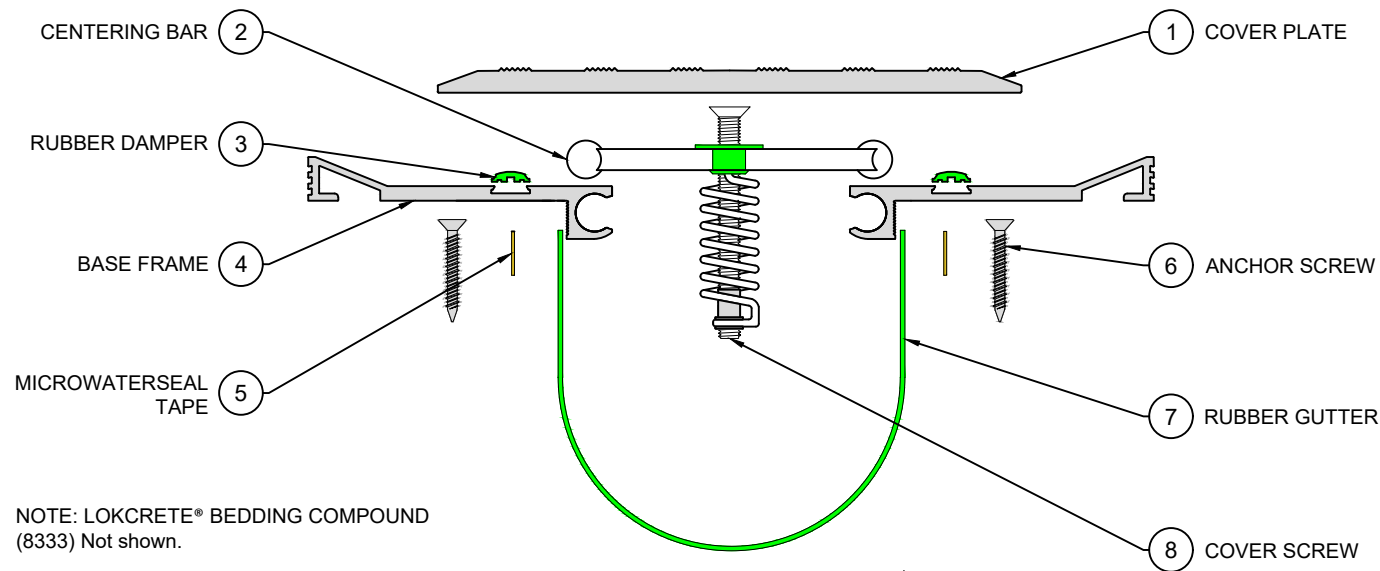
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**EXPLODED VIEW** ▲

**PART NUMBERS** ▼

| Locator | Part Component      | BIS-400                         | BIS-600                         | BIS-800                         | BIS-1000                        | BIS-1200                        |
|---------|---------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| 1       | Cover Plate         | 7146-M-10-02-18                 | 7147-M-10-02-18                 | 7148-M-10-02-18                 | 7149-M-10-02-18-D               | 7150-M-10-02-18                 |
| 2       | Centering Bar       | ASSY-SCD-1000-v2                | ASSY-SCD-1400-v2                | ASSY-SCD-1400-v2                | ASSY-SCD-1700-v2                | ASSY-SCD-2000-S001-v2           |
| 3       | Rubber Damper       | 8461-65                         | 8461-65                         | 8461-65                         | 8461-65                         | 8461-65                         |
| 4       | Base Frame          | ASSY-71397141-M-10-00-18        | ASSY-71397141-M-10-00-18        | ASSY-71387141-M-10-00-18        | ASSY-71387141-M-10-00-18        | ASSY-71387141-M-10-00-18        |
| 5       | Microwaterseal Tape | MICROWATERSEAL60X $\frac{3}{4}$ | MICROWATERSEAL60X $\frac{3}{4}$ | MICROWATERSEAL60X $\frac{3}{4}$ | MICROWATERSEAL60X $\frac{3}{4}$ | MICROWATERSEAL60X $\frac{3}{4}$ |
| 6       | Anchor Screw        | 9406                            | 9406                            | 9406                            | 9406                            | 9406                            |
| 7       | Rubber Gutter       | 9109-14                         | 9109-18                         | 9109-24                         | 9109-26                         | 9109-26                         |
| 8       | Cover Screw         | 9346                            | 9346                            | 9346                            | 9346                            | 9346                            |



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