

## EXPANSION JOINT SPECIFICATIONS & SELECTION GUIDE

MOVEMENT CAPACITY	TYPE	DESCRIPTION/S	ADVANTAGES
20 to 40	 <b>TENSA - RS TYPE, mageba</b>	<p>The Tensa®Grip expansion joint is a simplified version of modular expansion joints for small movement capacities. The structure of the Tensa®Grip joint is a single gap joint type and consists of two L-shaped edge profiles which are fastened above the reinforcement frame to the concrete structure. The horizontal and vertical forces are carried transmitted through L-shaped edge structures and their anchoring into the adjacent concrete structure</p>	<ol style="list-style-type: none"> <li>1. Simple and effective</li> <li>2. Good for small gap and small movement expansion joint</li> <li>3. Can also accommodate vertical movement</li> <li>4. Sealed and water tight Expansion Joint</li> <li>5. Elastomeric filler is replaceable</li> <li>6. Cost effective</li> <li>7. Can be installed with sinus plates, (finger plates)</li> </ol> <p><b>APPLICATION</b></p> <ol style="list-style-type: none"> <li>7. Applicable for transverse joints</li> <li>8. Applicable for both asphalt and concrete roadway surface</li> </ol>
30 to 50	 <b>Thormajoint</b>	<p>An expansive asphalt joint, Thormajoint is simple yet very effective expansion joint system. The movement is dependent on size volume and has a very good riding surface. Although there are some required maintenance for the joint, it is widely used for very busy traffic that could not allow for closure during maintenance. Since the installation take only hours to complete and can be used within minutes after.</p>	<ol style="list-style-type: none"> <li>1. Simple and cost effective</li> <li>2. Easy to install and maintain</li> <li>3. Completely water tight and has very good riding surface</li> <li>4. Can take variable level variation</li> <li>5. Allows for both transversal and some vertical movement</li> <li>6. Easy to replace and repairable</li> <li>7. Has the same base materials as asphalt wearing course</li> <li>8. Very good skid resistance</li> </ol> <p><b>APPLICATION</b></p> <ol style="list-style-type: none"> <li>1. Applicable for both transverse and longitudinal joint</li> <li>2. Applicable for both asphalt and concrete roadway surface (although not recommended for concrete road surface)</li> </ol>
50 to 200	 <b>OROFLEX</b>	<p>OROFLEX Expansion joint is a rubber type expansion joint. Designed to accommodate movement with very good load bearing capacity. Bolted to deck and levels with road surface, OROFLEX is ideal for expansion joint with upstand and sidewalk application. The EJ is widely used and durable.</p>	<ol style="list-style-type: none"> <li>1. Flexible in all direction, and cost effective</li> <li>2. Easy to install and maintain the joint is replaceable</li> <li>3. Completely water tight and has very good riding surface</li> <li>4. Can take variable level variation</li> <li>5. Allows for both transversal and some vertical movement</li> <li>6. Easy to replace and repairable</li> <li>7. Has the same base materials as asphalt wearing course</li> </ol> <p><b>APPLICATION</b></p> <ol style="list-style-type: none"> <li>1. Applicable for both transverse and longitudinal joint</li> <li>2. Applicable for both asphalt and concrete roadway surface (although not recommended for concrete road surface)</li> </ol>
60 to 260	 <b>TENSA - RSFD, mageba</b>	<p>Swiss company mageba, TENSA-RSFD is a steel finger type expansion joint. Unlike other product of similar type, RSFD has rounded finger plate that is modular and can be replaced without the need to break or hack the concrete base. It is also cantilever type expansion joint thereby allowing transversal and some degree of vertical movement without posing any danger to motorist due to sharp finger joint tip. The finger joint is also tapered down on the tip that gives additional safety to motorist.</p>	<ol style="list-style-type: none"> <li>1. Robust and very durable</li> <li>2. Replaceable finger plates, modular @ 880mm /module</li> <li>3. Water tight and gutter can be connected to drain</li> <li>4. Rounded finger plates, no protruding dangerous steel member</li> <li>5. Allows for both transversal and some vertical movement</li> <li>6. Can carry heavy loads even on gaps upto 200mm</li> <li>6. High corrosion resistance coat</li> <li>7. Has a wide size range of movement accommodation</li> </ol> <p><b>APPLICATION</b></p> <ol style="list-style-type: none"> <li>1. Applicable for both transverse and longitudinal joint</li> <li>2. Applicable for both asphalt and concrete roadway surface (although not recommended for concrete road surface)</li> </ol>
200 and above	 <b>MODULAR EJ, mageba</b>	<p>Swiss compant mageba, TENSA-Modular expansion joint is a state of the art design. It has a wider range of movement accommodation in all direction, transversal, vertical and longitudinal. Ideal for sway bridges and expansion joint application of up to 2.00 meter gap, the design and durability is tested in both actual installation and ISO earthquake simulator test. The movement capacity and performnce is un-matched.</p>	<ol style="list-style-type: none"> <li>1. Large all direction movement accommodation</li> <li>2. Can be used for gaps of more than 2.00 meter</li> <li>3. Water tight joint with drain connection</li> <li>4. Sinus plates can be installed for noise reduction</li> <li>4. Can be installed with skid resistance surface for large EJ</li> <li>5. Can be designed with fuse slide out feature</li> <li>6. Ideal for sway bridges and large movement bridge application</li> <li>7. Very durable and dependable expansion joint</li> <li>7. Has a very good load bearing capacity</li> </ol> <p><b>APPLICATION</b></p> <ol style="list-style-type: none"> <li>1. Applicable for both transverse Expansion joint</li> <li>2. Applicable for both asphalt and concrete roadway surface</li> <li>3. Cabled bridges, large movement bridges</li> </ol>

