SECTION 07 95 13

THERMAL EXPANSION JOINT COVERS

Display hidden notes to specifier. (Don't know how? [Click Here](https://www.arcat.com/sd/display_hidden_notes.shtml))

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\*\* NOTE TO SPECIFIER \*\* Prospec Specialties Inc.; joint covers, entrance floor matting, wall protection.  
This section is based on the products of Prospec Specialties Inc., which is located at:  
26-5250 Satellite Dr.  
Mississauga, ON, Canada L4W 5G5  
Toll Free Tel: 888-749-8456  
Fax: 888-749-8455  
Email: [info@prospecspecialties.com](mailto:info@prospecspecialties.com?subject=RE:ARCAT%20Spec%20Question%20(07950prc):%20%20)  
Web: <https://www.prospecspecialties.com>   
  
 [ [Click Here](https://www.arcat.com/arcatcos/cos51/arc51966.html) ] for additional information.  
  
Prospec Specialties is an Innovator & manufacturing company of Architectural specialty products. Founded in the heart of Canada a decade ago, Prospec has now grown to cover the Middle Eastern as well as the Asia market.  
  
We strive to solve complex as well as simple requirements of the construction industry.  
  
We specialize in products like EXPANSION JOINT SYSTEMS, ENTRANCE MATS & GRATES, STAIR NOSINGS, FLAGPOLES, WALL PROTECTION SYSTEMS & PHOTOLUMINESCENT SAFETY MARKINGS.  
  
At the heart of Prospec's growth and success, lies the story of the Prospec team.  
  
A multi-lingual, multi-cultural cross-section of people bound by the same values and purpose, pursuing a common mission - to create superior value, realize their full potential and steer the company towards a preeminent position.  
  
An achievement-focused and development-oriented ethos embedded in high standards of business ethics supported by sound management practices is the defining characteristic of the Prospec's work culture.  
  
We are a learning organization where motivation runs through the talent pool and skills set from the shop floor to the office desk.  
  
Our well-crafted growth and integration hinges on the three cornerstones of Cost competitiveness, Quality, and Global reach.  
  
We are committed to the triple bottom line accountability of Economic, Environment, and Social factors.  
  
Care for the community around our operating units is best exemplified by our deep-rooted social commitment.

1. GENERAL
   1. SECTION INCLUDES

\*\* NOTE TO SPECIFIER \*\* Delete items below not required for project.

* + 1. Thermal Expansion Joint Covers.
       1. Seismic joints.
       2. Control joint / field limitation joints.
       3. Exterior joints.
       4. Flexible water gutters.
    2. Firestopping/fire barriers.
  1. RELATED SECTIONS

\*\* NOTE TO SPECIFIER \*\* Delete any sections below not relevant to this project; add others as required.

* + 1. Division 03 - Concrete.
    2. Division 04 - Masonry.
    3. Division 05 - Metals.
    4. Section 07 95 13 - Expansion Joint Cover Assemblies
    5. Section 07 95 63 - Bridge Expansion Joint Cover Assemblies
    6. Division 07 - Thermal and Moisture Protection.
    7. Division 09 - Finishes.
  1. REFERENCES

\*\* NOTE TO SPECIFIER \*\* Delete references from the list below that are not actually required by the text of the edited section.

* + 1. ASTM International (ASTM):
       1. ASTM B221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.
       2. ASTM C518 - Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus.
       3. ASTM C881 - Standard Specification for Epoxy-Resin-Base Bonding Systems for Concrete.
       4. ASTM E119 - Standard Test Methods for Fire Tests of Building Construction and Materials.
       5. ASTM E1399 - Standard Test Method for Cyclic Movement and Measuring the Minimum and Maximum Joint Widths of Architectural Joint Systems.
       6. ASTM E1966 - Standard Test Method for Fire-Resistive Joint Systems.
    2. German Institute of Standardization (DIN)
       1. DIN 52271 - Testing Of Mineral Fibre Insulating Materials; Behaviour At Elevated Temperatures.
       2. DIN 4102 - Fire behaviour of building materials and elements for Classification of building materials Requirements and testing
       3. DIM 52615 - Testing of thermal insulating materials; determination of water vapour (moisture) permeability of construction and insulating materials
    3. Underwriters Laboratories (UL):
       1. UL 2079 - Tests for Fire Resistance of Building Joint Systems
  1. SUBMITTALS
     1. Submit under provisions of Section 01 30 00.
     2. Product Data:
        1. Manufacturer's data sheets on each product to be used.
        2. Preparation instructions and recommendations.
        3. Storage and handling requirements and recommendations.
        4. Typical installation methods.

\*\* NOTE TO SPECIFIER \*\* Delete if not applicable to product type.

* + 1. Verification Samples: Two representative units of each type, size, pattern and color.
    2. Shop Drawings: Include details of materials, construction and finish. Include relationship with adjacent construction.
  1. QUALITY ASSURANCE
     1. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with a minimum five years documented experience.
     2. Source Limitations: Provide each type of product from a single manufacturing source to ensure uniformity.

\*\* NOTE TO SPECIFIER \*\* Include mock-up if the project size or quality warrant the expense. The following is one example of how a mock-up on might be specified. When deciding on the extent of the mock-up, consider all the major different types of work on the project.

* + 1. Mock-Up: Construct a mock-up with actual materials in sufficient time for Architect's review and to not delay construction progress. Locate mock-up as acceptable to Architect and provide temporary foundations and support.
       1. Intent of mock-up is to demonstrate quality of workmanship and visual appearance.
       2. If mock-up is not acceptable, rebuild mock-up until satisfactory results are achieved.
       3. Retain mock-up during construction as a standard for comparison with completed work.
       4. Do not alter or remove mock-up until work is completed or removal is authorized.
  1. PRE-INSTALLATION CONFERENCE
     1. Convene a conference approximately two weeks before scheduled commencement of the Work. Attendees shall include Architect, Contractor and trades involved. Agenda shall include schedule, responsibilities, critical path items and approvals.
  2. DELIVERY, STORAGE, AND HANDLING
     1. Store and handle in strict compliance with manufacturer's written instructions and recommendations.
     2. Protect from damage due to weather, excessive temperature, and construction operations.
  3. PROJECT CONDITIONS
     1. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's recommended limits.
  4. WARRANTY
     1. Manufacturer's standard limited warranty unless indicated otherwise.

1. PRODUCTS
   1. MANUFACTURERS
      1. Acceptable Manufacturer: Prospec Specialties Inc., which is located at: 26-5250 Satellite Dr.; Mississauga, ON, Canada L4W 5G5; ASG Toll Free Tel: 888-749-8456; Fax: 888-749-8455; Email: [info@prospecspecialties.com](mailto:info@prospecspecialties.com?subject=RE:ARCAT%20Spec%20Question%20(07950prc):%20%20), [hikma@prospecspecialties.com](mailto:hikma@prospecspecialties.com?subject=RE:ARCAT%20Spec%20Question%20(07950prc):%20%20); Web: <https://www.prospecspecialties.com>

\*\* NOTE TO SPECIFIER \*\* Delete one of the following two paragraphs; coordinate with requirements of Division 1 section on product options and substitutions.

* + 1. Substitutions: Not permitted.
    2. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00.
  1. THERMAL EXPANSION JOINT COVERS
     1. AA and AB Series: Recessed mount, interior. Aluminum frame with continuous elastomeric Santoprene or Neoprene seal. Fasteners, and accessories as required for installation.
        1. AAS: Floor-to-floor. Aluminum: ASTM B221, alloy 6063-T6. Mill finish.
        2. AAC: Floor-to-wall. Aluminum: ASTM B221, alloy 6063-T6. Mill finish.
        3. ABS: Wall-to-wall. Aluminum: ASTM B221, alloy 6063-T6. Mill finish.
        4. ABS: Wall-to-ceiling. Aluminum: ASTM B221, alloy 6063-T6. Mill finish.
        5. Joint Width: 1 to 3 inches (25 to 76 mm).
        6. Movement: Plus or minus 25 percent. Allows narrow shear movement.
        7. Seal: Santoprene or Neoprene. Color: Manufacturer's standard range or custom.
        8. Field assembled components. Special transitions and corner fittings as required.

\*\* NOTE TO SPECIFIER \*\* The following items are optional. Delete options not required.

* + - 1. Stainless Steel Caps: SS316.
      2. Brass Caps: CZ108.
      3. Vapor Barrier: 40 mils thick PVC or 30 mils thick EPDM.
      4. Fire Barrier: Blanket or Mineral Wool and Sealant as required for rating.
    1. AC, AD, AE, and AF Series: Surface mount, interior. Aluminum frame with Santoprene gasket for movement tractability without shearing or breaking. Suitable for minor seismic movements.
       1. ACS: Straight: Floor-to-floor. Wall-to-wall. Ceiling-to-ceiling.
       2. ACC: Corner: Floor-to-wall. Wall-to-ceiling.
       3. ADS: Straight. Floor-to-floor. Wall-to-wall. Ceiling-to-ceiling.
       4. ADC: Corner. Floor-to-wall. Wall-to-ceiling.
       5. AES: Straight. Floor-to-floor. Wall-to-wall.
       6. AEC: Corner. Floor-to-wall. Wall-to-wall corner.
       7. AFS: Straight. Floor-to-floor.
       8. AFC: Corner. Floor-to-wall.
       9. For heavy pedestrian traffic and hand trollies. Floor Type: PVC/ VCT/ LVT/ Rubber.

\*\* NOTE TO SPECIFIER \*\* Wider Joint Cover available at request

* + - 1. Joint Width: 1 to 3 inches (25 to 76 mm).
      2. Movement: Plus or minus 25 percent. Allows narrow shear movement.
      3. Aluminum: ASTM B221, alloy 6063-T6.
         1. Floors: Mill Finish

\*\* NOTE TO SPECIFIER \*\* finish below applies to AE Series only.

* + - * 1. Walls: Clear or Custom Color Anodized.
      1. Seal: Santoprene / Neoprene. Color: Manufacturer's standard range or custom.
      2. Field assembled components. Special transitions and corner fittings as required.

\*\* NOTE TO SPECIFIER \*\* The following items are optional. The caps do not apply to AF Series. Delete options not required.

* + - 1. Stainless Steel Caps: SS316.
      2. Brass Caps: CZ108
      3. Vapor Barrier: 40 mils thick PVC or 30 mils thick EPDM.
      4. Fire Barrier: Blanket or Mineral Wool and Sealant as required for rating.
    1. AK and AL Series: Recessed mount, interior. Aluminum frame with EPDM/NEOPRENE Seals for movement tractability and water tightness. Suitable for minor seismic movements. No bump structure is ADA compliant. Resistant to salt and waste water.
       1. AKS: Straight. Floor-to-floor. Stainless Steel: 304 or 316. Mill finish.
       2. AKC: Corner. Floor-to-wall. Stainless Steel: 304 or 316. Mill finish.
       3. ALS: Straight. Floor-to-floor. Aluminum: ASTM B221, alloy 6063-T6. Mill finish.
       4. ALC: Corner. Floor-to-wall. Aluminum: ASTM B221, alloy 6063-T6. Mill finish.
       5. For heavy duty loads. Ideal from bridges and commercial kitchens.
       6. Joint Width: 1 to 4 inches (25 to 102 mm).
       7. Movement: Plus or minus 50 percent.
       8. Operating Temperature Range: Minus 40 to 302 degrees F (Minus 40 to 150 degrees C).
       9. Seals: EPDM / Neoprene seals. Easily replaceable
       10. Field assembled components. Special transitions and corner fittings as required.

\*\* NOTE TO SPECIFIER \*\* Fire barrier is optional. Delete options not required.

* + - 1. Fire Barrier: Blanket or Mineral Wool and Sealant as required for rating.
    1. AM Series: Surface mount, interior. Aluminum frame with Santoprene gasket for movement tractability without shear or breaking. Suitable for minor seismic movements. No bump structure is ADA compliant. For gypsum board drywall partitions.
       1. AMS: Straight. Wall-to-wall. Ceiling-to-ceiling.
       2. AMC: Corner. Wall-to-ceiling.
       3. Joint Width: 1 to 3 inches (25 to 76 mm).
       4. Movement: Plus or minus 25 percent. Allows narrow shear movement.
       5. Aluminum: ASTM B221, alloy 6063-T6. Mill finish.
       6. Seal: Santoprene / Neoprene. Color: Manufacturer's standard range or custom.
       7. Field assembled components. Special transitions and corner fittings as required.

\*\* NOTE TO SPECIFIER \*\* The following items are optional. Delete options not required.

* + - 1. Vapor Barrier: 40 mils thick PVC or 30 mils thick EPDM.
      2. Fire Barrier: Blanket or Mineral Wool and Sealant as required for rating.
    1. AN and AT Series: Recess mount, interior. Aluminum frame with EPDM/NEOPRENE Seals for movement tractability and water tightness. Suitable for minor seismic movements. No bump structure is ADA compliant. Salt and waste water resistant. 5 ton capacity.
       1. ANS: Straight. Floor-to-floor. Aluminum: ASTM B221, alloy 6063-T6. Mill finish.
       2. ANC: Corner. Floor-to-wall. Aluminum: ASTM B221, alloy 6063-T6. Mill finish.
       3. ATS: Straight. Floor-to-floor. Stainless Steel: 304 or 316. Mill finish.
       4. ATC: Corner. Floor-to-wall. Stainless Steel: 304 or 316. Mill finish.
       5. Ideal for bridges and commercial kitchens.
       6. Accommodate sub-floors of variable heights: 2-3/4 inches (70 mm), 3-3/20 inches (80 mm), and 4-3/25 inches (105 mm).
       7. Joint width: 1 to 4 inches (25 to 102 mm).
       8. Movement: Plus or minus 50 percent.
       9. Operating Temperature Range: Minus 40 to 302 degrees F (Minus 40 to 150 degrees C).
       10. Seal: EPDM / Neoprene seals. Easily replaceable.
       11. Field assembled components. Special transitions and corner fittings as required.

\*\* NOTE TO SPECIFIER \*\* Fire barrier and caps are optional. Caps apply to AT series only. Delete options not required.

* + - 1. Stainless Steel Caps: SS316.
      2. Fire Barrier: Blanket or Mineral Wool and Sealant as required for rating.
    1. AO Series: Recess mount, interior. Aluminum frame with EPDM/NEOPRENE Seals for movement tractability and water tightness. Suitable for minor seismic movements. No bump structure is ADA compliant. Salt and waste water resistant. 5 ton capacity.
       1. AOS: Straight. Floor-to-floor. Stainless Steel: 304 or 316. Mill finish.
       2. AOC: Corner. Floor-to-wall. Stainless Steel: 304 or 316. Mill finish.
       3. Ideal from bridges and commercial kitchens.
       4. Joint width: 1 to 4 inches (25 to 102 mm).
       5. Movement: Plus or minus 50 percent.
       6. Operating Temperature Range: Minus 40 to 302 degrees F (Minus 40 to 150 degrees C).
       7. Seal: EPDM / Neoprene seals. Easily replaceable.
       8. Field assembled components. Special transitions and corner fittings as required.

\*\* NOTE TO SPECIFIER \*\* The following items are optional. Delete options not required.

* + - 1. Stainless Steel Caps: SS316.
      2. Aluminum Caps:
      3. Fire Barrier: Blanket or Mineral Wool and Sealant as required for rating.
    1. BU Series: Recess mount, interior. Aluminum frame fixed Santoprene gasket for movement tractability without shearing or breaking. No bump structure is ADA compliant. Suitable for heavy pedestrian traffic, trollies, and minor seismic movements.
       1. BUS: Straight. Floor-to-floor. Stainless Steel: 304 or 316. Mill finish.
       2. BUC: Corner. Floor-to-wall. Stainless Steel: 304 or 316. Mill finish.
       3. Joint Width: 2 to 8 inches (51 to 203 mm).
       4. Movement: Varies with joint width. Allows minor shear movement
       5. Seal: Santoprene / Neoprene. Color: Manufacturer's standard range or custom.
       6. Field assembled components. Special transitions and corner fittings as required.

\*\* NOTE TO SPECIFIER \*\* The following items are optional. Delete options not required.

* + - 1. Vapor Barrier: 40 mils thick PVC or 30 mils thick EPDM.
      2. Fire Barrier: Blanket or Mineral Wool and Sealant as required for rating.
    1. BV Series: Recess mount with glide plate; interior. Aluminum frame fixed Santoprene seal. Flat head center screws. Stainless steel central spring clips with flanges allowing swift shift between positive and negative movements. No bump structure is ADA compliant. Suitable for minor seismic movements, heavy pedestrian and trolley traffic.
       1. Floor Types: PVC, VCT, LVT, and Rubber.
          1. BVC: Corner. Floor-to-wall.
          2. BVS: Straight. Floor-to-floor. Wall-to-wall.
       2. Floor Types: Up-to 10 mm thick Ceramic Tiles, Marble, Granite, Wood, Carpet.
          1. BWC: Corner. Floor-to-wall.
          2. BWS: Straight. Floor-to-floor. Wall-to-wall.
       3. Joint Width: 2 to 8 inches (51 to 203 mm).
       4. Movement: Varies with joint width. Allows minor shear movement
       5. Aluminum: ASTM B221, alloy 6063-T6.
          1. Floors: Mill Finish
          2. Walls: 204-R1 Commercial Clear Anodized, Custom Color Anodized.
       6. Stainless Steel: 304 or 316. Mill finish.
       7. Gasket (Series 300, 304 and 312): Flexible Thermoplastic or equal. Color: Black.
       8. Field assembled components. Special transitions and corner fittings as required.

\*\* NOTE TO SPECIFIER \*\* The following items are optional. Delete options not required.

* + - 1. Vapor Barrier: 40 mils thick PVC or 30 mils thick EPDM.
      2. Fire Barrier: Blanket or Mineral Wool and Sealant as required for rating.
    1. C Series: Interior Joint Systems for Floors, Walls and Ceilings. Glide plate seismic systems. Aluminum frame with continuous aluminum glide plate.
       1. Recessed mount frame with glide plate:
          1. CAS: Floor-to-floor. Wall-to-wall.
          2. CAC: Floor-to-wall. Wall-to-corner.
       2. Recessed mount frame with single narrow sightline for carpet:
          1. CPS: Floor-to-floor. Wall-to-wall.
          2. CPC: Floor-to-wall. Wall-to-corner.
       3. Recessed mount frame with snap-fit cover and glide plate for 16 mm drywall
          1. CBS: Wall-to-wall. Ceiling-to-ceiling.
          2. CBC: Wall-to-wall. Wall-to-corner.
       4. Aluminum: ASTM B221, alloy 6063-T6.
          1. Floors: Mill Finish
          2. Wall and Ceilings: Anodized, Clear or custom color.
       5. Gasket; Series 300, 304 and 312: Flexible Thermoplastic or equal. Color: Black.
       6. Field assembled components. Special transitions and corner fittings as required.

\*\* NOTE TO SPECIFIER \*\* The following items are optional. Delete options not required.

* + - 1. Stainless Steel Frame Caps and Plates: SS316 or SS304. Mill finish.
      2. Vapor Barrier: 40 mils thick PVC or 30 mils thick EPDM.
      3. Fire Barrier: Blanket or Mineral Wool and Sealant as required for rating.
    1. DA Series: Surface mount, exterior. Aluminum system recommended for harsh weather conditions. Steel central flanges allows swift shift between positive and negative movement. Extra-large sizes available. Suitable for full seismic movements.
       1. DAS: Straight. Roof-to-roof.
       2. DAC: Corner. Roof-to-parapet.
       3. Movement: plus or minus 50 percent

\*\* NOTE TO SPECIFIER \*\* Wider joint cover available upon request..

* + - 1. Joint Width: 2 to 12 inches (51 to 305 mm).
      2. Vapor Barrier: 40 mils thick PVC or 30 mils thick EPDM.
      3. Finish: Powder coat. Any RAL color.
      4. Finish: Anodized. Color: From manufacturer's standard range.

\*\* NOTE TO SPECIFIER \*\* The following items are optional. Delete items not required.

* + - 1. Fire Barrier: Blanket or Mineral Wool and Sealant as required for rating.
      2. Stainless Steel cover plate optionally available
    1. DB Series: Surface mount exterior. Aluminum system. Neoprene weather washers prevent leaking where fasteners penetrate frames and covers. Accommodates uneven expansion joint widths. Central plate allows swift shift between positive and negative movements. Factory formed transitions available. Suitable for full seismic and shear movements.
       1. DBS: Straight. Roof-to-roof. Wall-to-wall.
       2. DBC: Corner. Roof-to-wall.
       3. Movement: Plus or minus 50 percent
       4. Joint Width: 2 to 12 inches (51 to 305 mm)
       5. Vapor Barrier: 40 mils thick PVC or 30 mils thick EPDM.
       6. Finish: Powder coat. Any RAL color.
       7. Finish: Anodized. Color: From manufacturer's standard range.

\*\* NOTE TO SPECIFIER \*\* Fair barrier is optional. Delete if not required.

* + - 1. Fire Barrier: Blanket or Mineral Wool and Sealant as required for rating.
      2. Stainless Steel cover plate optionally available
    1. DC Series: Surface or recess mount, interior seismic. Aluminum frame system glide plate and centering bar System. 5/8 inch (16 mm) recessed frame for drywall installations.
       1. DCS: Straight. Wall-to-wall.
       2. DCC: Corner. Wall-to Ceiling.
       3. Movement: Plus or minus 50 percent
       4. Shear movement: Unlimited

\*\* NOTE TO SPECIFIER \*\* Wider joint cover available upon request.

* + - 1. Joint Width: 2 to 12 inches (51 to 305 mm).
      2. Finish: Mill.
      3. Finish: Powder coat. Any RAL color.
      4. Finish: Anodized. Color: From manufacturer's standard range.

\*\* NOTE TO SPECIFIER \*\* the following items are optional. Delete items not required.

* + - 1. Vapor Barrier: 40 mils thick PVC or 30 mils thick EPDM.
      2. Fire Barrier: Blanket or Mineral Wool and Sealant as required for rating.
      3. Stainless Steel cover plate. Mill finish.
    1. DD and DE Series: Recess mount, interior seismic. Aluminum frame centering bar system. Center plate maintains a smooth transition. Flooring can be inserted under center plate to reduce sight lines. Steel central flanges allows swift shift between positive and negative movements. Spring assembly under central plate provides silent passage to pedestrians and wheels. No bump structure is ADA compliant. Allows full seismic and shear movements. Load rating subject to joint opening. For carpet, vinyl, ceramic tile and other floor finishes.
       1. DDS: Straight. Wall-to-wall. Floor-to-floor. Tapered center plate.
       2. DDC: Corner. Wall-Ceiling. Floor-to-wall. Tapered center plate.
       3. DES: Straight. Floor-to-floor. Wall-to-wall. Curved center plate.
       4. DEC: Corner. Floor-to-wall. Curved center plate.
       5. DFS: Straight. Floor-to-floor. Wall-to-wall. Tapered center plate.
       6. DFC: Corner. Floor-to-wall. Tapered center plate.
       7. Movement: Plus or minus 50 percent
       8. Shear Movement: Unlimited
       9. Joint width : 1 to 8 inches (25 to 203 mm)
       10. Finish: Mill.
       11. Finish: Powder coat. Any RAL color.
       12. Finish: Anodized. Color: From manufacturer's standard range.

\*\* NOTE TO SPECIFIER \*\* Fire and vapor barriers are optional. Delete if not required.

* + - 1. Vapor Barrier: 40 mils thick PVC or 30 mils thick EPDM.
      2. Fire Barrier: Blanket or Mineral Wool and Sealant as required for rating.
      3. Wider Joint Cover available at request
    1. DM Series: Surface mount, interior and exterior. Aluminum frame system glide plate and centering Bar System. Adaptable to many wall finishes, including drywall and tile. Allows full seismic and shear movements.
       1. DMS: Straight. Wall-to-wall. Ceiling-to-ceiling.
       2. DMC: Corner. Wall-to-ceiling.
       3. Movement: Plus or minus 50 percent.
       4. Shear Movement: Unlimited.

\*\* NOTE TO SPECIFIER \*\* Wider joint cover available upon request.

* + - 1. Joint Width: 2 to 12 inches (51 to 305 mm).
      2. Finish: Mill.
      3. Finish: Powder coat. Any RAL color.
      4. Finish: Anodized. Color: From manufacturer's standard range.

\*\* NOTE TO SPECIFIER \*\* Fire and vapor barriers are optional. Delete if not required.

* + - 1. Vapor Barrier: 40 mils thick PVC or 30 mils thick EPDM.
      2. Fire Barrier: Blanket or Mineral Wool and Sealant as required for rating.
    1. DT Series: Surface mount, seismic. Aluminum frame centering bar system. Center plate maintains a smooth transition. Central flanges allow swift shift between positive and negative movements. Spring assembly under central plate provides silent passage to pedestrians and wheels. Allows full seismic and shear movements. Load rating subject to joint opening. Ideal for carpet, vinyl, ceramic tile and other floor finishes.
       1. DTS: Straight. Wall-to-wall. Floor to floor. Curved center plate
       2. DTC: Corner. Floor-to-wall. Curved center plate
       3. DSS: Straight. Wall-to-wall. Floor to floor. Tapered center plate
       4. DSC: Corner. Floor-to-wall. Tapered center plate
       5. Movement: Plus or minus 50 percent
       6. Shear Movement: Unlimited

\*\* NOTE TO SPECIFIER \*\* Wider joint cover available upon request.

* + - 1. Joint width : 2 to 8 inches (51 to 203 mm)
      2. Finish: Mill.
      3. Finish: Powder coat. Any RAL color.
      4. Finish: Anodized. Color: From manufacturer's standard range.

\*\* NOTE TO SPECIFIER \*\* Fire and vapor barriers are optional. Delete if not required.

* + - 1. Vapor Barrier: 40 mils thick PVC or 30 mils thick EPDM.
      2. Fire Barrier: Blanket or Mineral Wool and Sealant as required for rating.
    1. EA Series. Recess floor mount, interior seismic. Pop-up system for high grade marble, granite, limestone and paver floor and wall finishes. "Zero Sight Line" effect. Silicon Sealant system matches grout lines in floor designs. Allows full seismic and shear movement. The Centering Bar/Compression Spring assembly repositions pan after seismic movement, reducing maintenance. Steel central flanges allows swift shift between positive and negative movements. Load rated subject to joint opening. ADA compliant.
       1. EAC: Floor-to-wall.
       2. EAS: Floor-to-floor.
       3. Material: Aluminum, stainless steel or brass.
       4. Movement: Plus or minus 50 or 100 percent.

\*\* NOTE TO SPECIFIER \*\* Wider joint cover available upon request.

* + - 1. Joint Width: 2 to 8 inches (51 to 203 mm).
      2. Shear movement unlimited

\*\* NOTE TO SPECIFIER \*\* the following items are optional. Delete items not required.

* + - 1. Vapor Barrier: 40 mils thick PVC or 30 mils thick EPDM.
      2. Fire Barrier: Blanket or Mineral Wool and Sealant as required for rating.
    1. EB Series: Recess floor mount, interior seismic. Pop-up seismic pan system for high grade marble, granite, limestone and paver floor and wall finishes. Negligible sight lines. Allows full seismic and shear movement. Centering bar and compression spring assembly repositions pan after seismic movement and provides silent passage to pedestrians and wheels. Central flanges allow swift shift between positive and negative movements. Load rating subject to joint opening. ADA compliant.
       1. EBC: Floor-to-wall. Aluminum.
       2. EBS: Floor-to-floor. Aluminum.
       3. ESC: Floor-to-wall. 304 or 316 Stainless steel.
       4. ESS: Floor-to-floor. 304 or 316 Stainless steel.
       5. Material: Aluminum or brass.
       6. Movement: Plus or minus 50 or 100 percent.

\*\* NOTE TO SPECIFIER \*\* Wider joint cover available upon request.

* + - 1. Joint Width: 2 to 8 inches (51 to 203 mm).
      2. Shear movement unlimited.

\*\* NOTE TO SPECIFIER \*\* The following items are optional. Delete items not required.

* + - 1. Vapor Barrier: 40 mils thick PVC or 30 mils thick EPDM.
      2. Fire Barrier: Blanket or Mineral Wool and Sealant as required for rating.
    1. EE Series: Recess floor mount, interior. Aluminum Pop-up seismic pan system for high grade marble, granite, limestone and paver floor and wall finishes. Negligible sight lines. Allows seismic and shear movement. Load rating subject to joint opening. ADA compliant.
       1. EEC: Floor-to-wall.
       2. EES: Floor-to-floor.
       3. Movement: Plus or minus 100 percent.

\*\* NOTE TO SPECIFIER \*\* Wider joint cover available upon request.

* + - 1. Joint Width: 2 to 8 inches (51 to 203 mm).
      2. Shear movement unlimited.

\*\* NOTE TO SPECIFIER \*\* The following items are optional. Delete items not required.

* + - 1. Vapor Barrier: 40 mils thick PVC or 30 mils thick EPDM.
      2. Fire Barrier: Blanket or Mineral Wool and Sealant as required for rating.
    1. EK Series: Recess floor mount, interior. Pop-up seismic pan system for high grade marble, granite, limestone and paver floor and wall finishes. Dual flexible Santoprene seals offer secure fit, retain flexibility, and absorb limited serviceable seismic movement. Centering bar and compression spring assembly repositions pan after seismic movement. Allows full seismic and shear movement. Steel central flanges allow swift shift between positive and negative movements. Load rating subject to joint opening. ADA compliant.
       1. EKC: Floor-to-wall. Aluminum.
       2. EKS: Floor-to-floor. Aluminum.
       3. Movement: Plus or minus 50 or 100 percent.

\*\* NOTE TO SPECIFIER \*\* Wider joint cover available upon request.

* + - 1. Joint Width: 10 inches (254 mm).

\*\* NOTE TO SPECIFIER \*\* The following items are optional. Delete items not required.

* + - 1. Vapor Barrier: 40 mils thick PVC or 30 mils thick EPDM.
      2. Fire Barrier: Blanket or Mineral Wool and Sealant as required for rating.
    1. FA and FB Series: Surface mount, interior seismic. Aluminum frame with Santoprene-vinyl-silicone seal design allowing fluid full seismic movement and tractability without shearing or breaking. For gypsum board dry-walls. Unique seal barbs provide secure engagement in frame. Frame allows for finishing with joint compound or wall covering.
       1. FAS: Wall-to-wall. Ceiling-to-ceiling.
       2. FAC: Wall-to-wall. Wall-to-corner. Wall-to-ceiling.
       3. FBS: Ceiling-to-ceiling. Frame pop rivets to any T-bar profile in suspended ceiling.
       4. FBC: Ceiling-to-wall. Frame pop rivets to any T-bar profile in suspended ceiling.
       5. Movement: Plus or minus 50 percent

\*\* NOTE TO SPECIFIER \*\* Wider joint cover available upon request.

* + - 1. Joint Width: 1 to 6 inches (25 to 152 mm).
      2. Aluminum: ASTM B221, alloy 6063-T6. Mill finish.
      3. Seal: Santoprene / Neoprene. Color: Manufacturer's standard range or custom.
      4. Silicone Seal: Color as selected by architect.
      5. Field assembled components. Special transitions and corner fittings as required.

\*\* NOTE TO SPECIFIER \*\* Item below is optional. Delete if not required.

* + - 1. Fire Barrier: Blanket or Mineral Wool and Sealant as required for rating.
    1. FFS: Recess mount, exterior. Floor to floor, Santoprene/EPDM Seals system installs with high strength adhesive and ideal for movement tractability as well as water tightness. System allows for shear movements. Resistant to dynamic rolling loads and impacts. Cast-in-place installation.
       1. Usage : Floor-to-floor. For roads and bridges.
       2. Movement: Plus or minus 50 percent
       3. Joint width : 1 to 2 inches (25 to 51 mm).
       4. Aluminum: 6061-T6. Mill finish.
    2. FHX: Recess mount, exterior. Floor to floor. For vehicular traffic areas. Beveled edges cover plate for pedestrian safety. Suitable for watertight applications. Allows full seismic movements. Load rated for heavy vehicular traffic.
       1. Usage: Floor-to-floor. 304 or 316 grade, stainless steel.
       2. Movement: Plus or minus 50 percent
       3. Joint width : 1 to 4 inches (25 to 102 mm)

\*\* NOTE TO SPECIFIER \*\* Item below is optional. Delete if not required.

* + - 1. Fire Barrier: Blanket or Mineral Wool and Sealant as required for rating.
    1. FK Series: Recess mount, interior and exterior. A Centering Bar System for extra wide joints. Eliminates need for pantograph. Face of seal resists sagging and remains flat. Available extra-large length Santoprene/Vinyl/Silicon seals provide weather-tight transitions while offering movement tractability without shearing or breaking. Suitable for full seismic movements.
       1. FKC: wall to wall, ceiling to ceiling
       2. FKS: Wall to ceiling.
       3. Movement: Plus or minus 50 percent

\*\* NOTE TO SPECIFIER \*\* Wider joint cover available upon request.

* + - 1. Joint Width: 1 to 24 inches (25 to 610 mm).

\*\* NOTE TO SPECIFIER \*\* Item below is optional. Delete if not required.

* + - 1. Fire Barrier: Blanket or Mineral Wool and Sealant as required for rating.
    1. FUX: Recess mount, exterior. For vehicular traffic areas with beveled edges cover plate for pedestrian safety. This is suitable for watertight applications. Allows full seismic movements. Load rated for heavy vehicular traffic.
       1. Usage: Floor-to-floor. 304 or 316 grade, stainless steel.
       2. Movement: Plus or minus 50 percent
       3. Joint width : 1 to 4 inches (25 to 102 mm)

\*\* NOTE TO SPECIFIER \*\* Item below is optional. Delete if not required.

* + - 1. Fire Barrier: Blanket or Mineral Wool and Sealant as required for rating.
    1. FT Series: Flush and Surface mount. exterior. Aluminum frame with Santoprene gasket and integral backseal allows full fluid seismic movement during expansion and contraction and tractability without shearing or breaking. Centering bar system for wider gaps. Seal barbs secure engagement in the frame. Seals for continuous and weather tight installation.
       1. FTS: Wall-to-wall. Ceiling-to-ceiling. Aluminum: ASTM B221, 6063-T6. Mill finish
       2. FTC: Wall-to-wall. Wall-to-ceiling. Aluminum: ASTM B221, 6063-T6. Mill finish.
       3. Seal: Santoprene / Neoprene. Color: Manufacturer's standard range or custom.
       4. Silicone Seal: Color: Manufacturer's standard range.
       5. Movement: Plus or minus 50 percent

\*\* NOTE TO SPECIFIER \*\* Wider joint cover available upon request..

* + - 1. Joint width : 1 to 6 inches (25 to 152 mm)
      2. Field assembled components. Special transitions and corner fittings as required.

\*\* NOTE TO SPECIFIER \*\* Item below is optional. Delete if not required.

* + - 1. Fire Barrier: Blanket or Mineral Wool and Sealant as required for rating.
    1. GA and GB Series: Flush recess mount, interior or exterior, seismic. A high load bearing system for vehicular traffic areas, such as parking garages and warehouses. Heavy Duty System for both pneumatic and solid tires. Steel central flanges allows swift shift between positive and negative movements. Allows full seismic movements
       1. GAS: Floor-to-floor. Wall-to-wall. Aluminum AA-6061 - T 651.
       2. GAC: Floor-to-wall. Aluminum AA-6061 - T 651.
       3. GBS: Floor-to-floor. Wall-to-wall. Marine grade 316-L stainless steel.
       4. GBC: Floor-to-wall. Marine grade 316-L stainless steel.
       5. Movement: Plus or minus 50 percent
       6. Joint width: 2 to 12 inches (51 to 305 mm)
       7. Field assembled components. Special transitions and corner fittings as required.

\*\* NOTE TO SPECIFIER \*\* Item below is optional. Delete if not required.

* + - 1. Fire Barrier: Blanket or Mineral Wool and Sealant as required for rating.
    1. GC and GD Series: Surface recess mount, interior or exterior, seismic. A high load bearing system for vehicular traffic areas, such as parking garages and warehouses. Heavy Duty System for both pneumatic and solid tires. Steel central flanges allows swift shift between positive and negative movements. Allows full seismic movements. Accommodates sub-floors of variable heights.
       1. GCS: Floor-to-floor. Wall-to-wall. Aluminum AA-6061 - T 651.
       2. GCC: Floor-to-wall. Aluminum AA-6061 - T 651.
       3. GDS: Floor-to-floor. Wall-to-wall. Marine grade 316-L stainless steel
       4. GDC: Floor-to-wall. Marine grade 316-L stainless steel.
       5. Movement: Plus or minus 50 percent
       6. Joint width: 2 to 12 inches (51 to 305 mm)
       7. Field assembled components. Special transitions and corner fittings as required.

\*\* NOTE TO SPECIFIER \*\* Item below is optional. Delete if not required.

* + - 1. Vapor Barrier: 40 mils thick PVC or 30 mils thick EPDM.
      2. Fire Barrier: Blanket or Mineral Wool and Sealant as required for rating.
    1. GE, GF, and GG Series: Surface recess mount, interior or exterior, seismic. Cover and base plates. A high load bearing system for vehicular traffic areas, such as parking garages and warehouses. Heavy Duty System for both pneumatic and solid tires. Steel central flanges allows swift shift between positive and negative movements. Allows full seismic movements. Accommodates sub-floors of variable heights.
       1. GES: Floor-to-floor. Wall-to-wall. Aluminum AA-6061 - T 651 cover and base plates.
       2. GEC: Floor-to-wall. Aluminum AA-6061 - T 651 cover and base plates.
       3. GFS: Floor-to-floor. Wall-to-wall. Marine grade 316-L stainless steel.
       4. GFC: Floor-to-wall. Marine grade 316-L stainless steel.
       5. GGS: Floor-to-floor. Wall-to-wall.
          1. Base Plates: Aluminum AA-6061 - T 651.
          2. Cover Plates: Marine grade 316-L stainless steel.
       6. GGC: Floor-to-wall. Aluminum AA-6061 - T 651 cover and base plates.
          1. Base Plates: Aluminum AA-6061 - T 651.
          2. Cover Plates: Marine grade 316-L stainless steel.
       7. Movement: Plus or minus 50 percent.
       8. Joint width: 2 to 12 inches (51 to 305 mm).
       9. Field assembled components. Special transitions and corner fittings as required.

\*\* NOTE TO SPECIFIER \*\* Items below are optional. Delete if not required.

* + - 1. Vapor Barrier: 40 mils thick PVC or 30 mils thick EPDM.
      2. Fire Barrier: Blanket or Mineral Wool and Sealant as required for rating.
    1. GH Series: Surface recess mount, interior or exterior, seismic. Load rated for heavy vehicular traffic. Excellent shear movement and compression recovery. Heavy duty sand blasted cover Plate and waterproof foam seal. Beveled edges for pedestrian safety and pre-drilled counter-sunk holes for installation. Allows full seismic and shear movements.
       1. GHS: Floor-to-floor. Aluminum.
       2. GHC: Floor-to-wall. Aluminum.
       3. Movement: Plus or minus 50 percent.
       4. Joint width: 8 to 20 inches (203 to 508 mm).
       5. Field assembled components. Special transitions and corner fittings as required.

\*\* NOTE TO SPECIFIER \*\* Item below is optional. Delete if not required.

* + - 1. Fire Barrier: Blanket or Mineral Wool and Sealant as required for rating.
    1. GIX: Surface mount, interior or exterior, seismic. Load rated for heavy vehicular traffic. Excellent shear movement and compression recovery. Heavy duty sand blasted cover Plate and waterproof foam seal. Beveled edges for pedestrian safety and pre-drilled counter-sunk holes for installation. Allows full seismic and shear movements.
       1. Usage: Floor-to-floor. 304 or 316 grade, stainless steel.
       2. Movement: Plus or minus 50 percent.
       3. Joint width: 4 to 12 inches (102 to 305 mm).
       4. Field assembled components. Special transitions and corner fittings as required.

\*\* NOTE TO SPECIFIER \*\* Item below is optional. Delete if not required.

* + - 1. Fire Barrier: Blanket or Mineral Wool and Sealant as required for rating.
    1. GT Series: Recess mount, interior, exterior, and seismic. Heavy duty galvanized steel. For heavy traffic ramps and carpark bridges. Allows for full seismic and shear movements
       1. GTS: Floor-to-floor. Heavy duty galvanized steel.
       2. GTC: Floor-to-wall. Heavy duty galvanized steel.
       3. Movement: Plus or minus 50 percent.
       4. Joint width: 2 to 12 inches (51 to 305 mm).
       5. Field assembled components. Special transitions and corner fittings as required.

\*\* NOTE TO SPECIFIER \*\* Item below is optional. Delete if not required.

* + - 1. Fire Barrier: Blanket or Mineral Wool and Sealant as required for rating.
    1. GU Series: Recess mount, interior, exterior and seismic. Steel central flanges allows swift shift between positive and negative movements. Rated for heavy vehicle traffic, parking garages and warehouses. Allows full seismic and shear movements.
       1. GUS: Floor-to-floor. AA 6061-T651; hard aluminum alloy cover and baseplate.
       2. GUC: Floor-to-wall. AA 6061-T651; hard aluminum alloy cover and baseplate.
       3. GWS: Floor-to-floor.
          1. Base Plates: Aluminum AA-6061 - T 651.
          2. Cover Plates: Marine grade 316-L stainless steel.
       4. GWC: Floor-to-wall.
          1. Base Plates: Aluminum AA-6061 - T 651.
          2. Cover Plates: Marine grade 316-L stainless steel.
       5. GYS: Floor-to-floor.
       6. GYC: Floor-to-wall. AA 6061-T651; hard aluminum alloy cover and baseplate.
       7. Movement: Plus or minus 50 percent.
       8. Joint width: 2 to 12 inches (51 to 305 mm).
       9. Field assembled components. Special transitions and corner fittings as required.

\*\* NOTE TO SPECIFIER \*\* Items below are optional. Delete if not required.

* + - 1. Vapor Barrier: 40 mils thick PVC or 30 mils thick EPDM.
      2. Fire Barrier: Blanket or Mineral Wool and Sealant as required for rating.
    1. HA Series: Surface mount, interior, exterior, and seismic. A Cover Plate. Offering beveled edges for pedestrian safety. Pre-drilled counter-sunk holes for easy installation. Available in stainless steel and other custom finishes. Installs over finishes. Allows full seismic movements.
       1. HAS: Floor-to-floor. Wall-to-wall.
       2. HAC: Floor-to-wall. Wall-to-ceiling.
       3. Material: Aluminum AA-6061 - T 651.
       4. Material: Marine grade 316-L stainless steel.
       5. Material: Brass.
       6. Movement: Plus or minus 50 percent.
       7. Joint width: 1 to 12 inches (25 to 305 mm).
       8. Field assembled components. Special transitions and corner fittings as required.

\*\* NOTE TO SPECIFIER \*\* Item below is optional. Delete if not required.

* + - 1. Fire Barrier: Blanket or Mineral Wool and Sealant as required for rating.
    1. HD Series: Surface mount, interior and exterior. Cover plate with stainless steel spring clip. This Cover Plate is available in Anodized, Powder Coat or Mill Finish. Installs over finishes. Allows for minor seismic movements and shear movements.
       1. HDS: Floor-to-floor. Wall-to-wall. Ceiling-to-ceiling.
       2. HDC: Floor-to-wall. Wall-to-wall. Wall-to-ceiling.
       3. Material: Marine grade 316-L stainless steel.
       4. Material: Brass.
       5. Material: Aluminum AA-6061 - T 651.
          1. Finish: Mill.
          2. Finish: Powder coat. Any RAL color.
          3. Finish: Anodized. Color: From manufacturer's standard range.
       6. Movement: Plus or minus 50 percent.
       7. Joint width: 1 to 6 inches (25 to 152 mm).
       8. Field assembled components. Special transitions and corner fittings as required.

\*\* NOTE TO SPECIFIER \*\* Item below is optional. Delete if not required.

* + - 1. Fire Barrier: Blanket or Mineral Wool and Sealant as required for rating.
    1. HF Series: Surface mount, interior, exterior, and seismic. Hinged cover plate for uneven slab conditions. Pre-drilled, counter sunk holes for installation. Cover plate has beveled edges and is serrated providing traction for pedestrian traffic. Installs over finishes. Allows for minor seismic movements and shear movements. Recommended for light vehicular traffic Allows for minor seismic movements and shear movements.
       1. HFS: Floor-to-floor. Aluminum AA-6061 - T 651. Mill finish.
       2. HFC: Floor-to-wall. Aluminum AA-6061 - T 651. Mill finish.
       3. Movement: Plus or minus 50 percent.
       4. Joint width: 2 to 8 inches (51 to 203 mm).
       5. Field assembled components. Special transitions and corner fittings as required.

\*\* NOTE TO SPECIFIER \*\* Item below is optional. Delete if not required.

* + - 1. Fire Barrier: Blanket or Mineral Wool and Sealant as required for rating.
    1. HI Series: Surface mount, interior, exterior, and seismic. Kinked cover plate and beveled edges for pedestrian safety. Heavy duty covers for car parks available. Compression seal with silicone sealant for water tightness. Installs over finishes. Allows full seismic movements
       1. HIS: Floor-to-floor. Wall-to-wall. Ceiling-to-ceiling.
       2. HIC: Floor-to-wall. Wall-to-wall. Wall-to-ceiling.

\*\* NOTE TO SPECIFIER \*\* Custom finishes are available.

* + - 1. Material: Marine grade 316-L stainless steel.
      2. Material: Brass.
      3. Material: Aluminum AA-6061 - T 651.
         1. Finish: Mill.
         2. Finish: Powder coat. Any RAL color.
         3. Finish: Anodized. Color: From manufacturer's standard range.
      4. Movement: Plus or minus 50 percent.
      5. Joint width: 2 to 12 inches (51 to 305 mm).
      6. Field assembled components. Special transitions and corner fittings as required.

\*\* NOTE TO SPECIFIER \*\* Item below is optional. Delete if not required.

* + - 1. Fire Barrier: Blanket or Mineral Wool and Sealant as required for rating.
    1. HK Series: Surface mount, interior, exterior, and seismic. Installs over finishes. Snap-fit. Allows minor seismic movements.
       1. HKS: Wall-to-wall.
       2. HKC: Wall-to-wall. Wall-to-ceiling.
       3. Material: Aluminum AA-6061 - T 651.
          1. Finish: Mill.
          2. Finish: Powder coat. Any RAL color.
          3. Finish: Anodized. Color: From manufacturer's standard range.
       4. Movement: Plus or minus 50 percent.
       5. Joint width: 1 to 4 inches (25 to 102 mm).
       6. Field assembled components. Special transitions and corner fittings as required.

\*\* NOTE TO SPECIFIER \*\* Item below is optional. Delete if not required.

* + - 1. Fire Barrier: Blanket or Mineral Wool and Sealant as required for rating.
    1. IAS: Flush mount, interior, exterior , and seismic. For parking and bridge decks. A level top surface for pedestrian traffic. Watertight and waterproof. Safe for potable water. Seamless installation in curves. Allows full seismic and shear movements.
       1. Material: Impermeable closed-cell, low density, resilient, non-extrudeable, nitrogen blown polyethylene foam. Carbon black added as U.V. stabilizer. High heat resistant.
       2. Adhesive: 2 component 100 percent solids epoxy. moisture insensitive modified epoxy adhesive which meets ASTM C881, Type I and II Grade 2 Class B and C.
       3. Application: Floor-to-floor. Floor-to-wall. Wall-to-wall. Wall-to-corner.
       4. Joint width: 1 to 8 inches (25 to 203 mm)
       5. Movement: Plus or minus 75 percent.
       6. Field assembled components. Special transitions and corner fittings as required.

\*\* NOTE TO SPECIFIER \*\* Item below is optional. Delete if not required.

* + - 1. Fire Barrier: Blanket or Mineral Wool and Sealant as required for rating.
    1. IBS: Flush mount, interior, exterior , and seismic. Excellent shear movement, featuring self-expanding open cell foam for excellent compression recovery. Seamless installation in curves. Supplied pre-compressed for easy installation. 100 percent water tight. Allows full seismic and shear movements. UV stabilized. Allows full seismic and shear movements. Meets acoustic requirements range up to 72 STC.
       1. Material: Polyurethane foam impregnated with cured acrylic pressure sensitive adhesive bonded to a fully cured silicone sealant.
          1. Color: As determined by the Architect from Manufacturer's standard range.
          2. Meets acoustic requirements range up to 72 STC

\*\* NOTE TO SPECIFIER \*\* fire rating is option. Delete if not required.

* + - * 1. Fire Rating: 2 hour conforming to UL 2079 hose stream test and ASTM C518.
      1. Application: Floor-to-floor. Floor-to-wall. Wall-to-wall. Wall-to-corner.
      2. Joint width: 1 to 8 inches (25 to 203 mm)
      3. Movement: Plus or minus 75 percent.
      4. Field assembled components. Special transitions and corner fittings as required.
    1. KAS: Flush mount, interior, exterior , and seismic. For parking and bridge decks. A level top surface for pedestrian traffic.
       1. Exterior: Installs with high strength epoxy adhesive.
       2. Interior: Installs with lubricant adhesive.
       3. Material: Neoprene. Adhesive: Sikadur-31 CF Slow
       4. Application: Floor-to-floor. Floor-to-wall. Wall-to-wall.
       5. Joint width: 1 to 6 inches (25 to 152 mm)
       6. Movement: Plus or minus 25 percent.
       7. Field assembled components. Special transitions and corner fittings as required.

\*\* NOTE TO SPECIFIER \*\* Item below is optional. Delete if not required.

* + - 1. Fire Barrier: Blanket or Mineral Wool and Sealant as required for rating.
    1. KE Series: Surface mount, interior and exterior. Heavy duty for carpark and bridge decks. Santoprene or EPDM seals with surface mount frame. No need for block outs. For watertight applications. Allows for good seismic and shear movements.
       1. KES: Floor-to-floor. Aluminum AA-6061 - T 651.
       2. KEC: Floor-to wall. Aluminum AA-6061 - T 651.
       3. Joint width: 1 to 4 inches (25 to 102 mm)
       4. Movement: Plus or minus 50 percent.
       5. Field assembled components. Special transitions and corner fittings as required.

\*\* NOTE TO SPECIFIER \*\* Item below is optional. Delete if not required.

* + - 1. Fire Barrier: Blanket or Mineral Wool and Sealant as required for rating.
    1. KF Series: Recess mount, interior and exterior. For Parking Decks. This Santoprene, Neoprene, or EPDM seal system installs with high strength epoxy adhesive and provides a level top surface ideal for pedestrian traffic. This is suitable for watertight applications. Seamless installation in curves. UV stabilized. Allows full seismic and shear movements.
       1. KFS: Floor-to-floor.
       2. KFC: Floor-to-wall.
       3. Joint width: 1 to 4 inches (25 to 102 mm)
       4. Movement: Plus or minus 50 percent.
       5. Field assembled components. Special transitions and corner fittings as required.

\*\* NOTE TO SPECIFIER \*\* Item below is optional. Delete if not required.

* + - 1. Fire Barrier: Blanket or Mineral Wool and Sealant as required for rating.
    1. KBS: Flush mount, interior and exterior. For parking and bridge decks. A level top surface for pedestrian traffic. Neoprene or EPDM seal and epoxy adhesive. Provides excellent impermeability. Seamless installation in curves and radius. UV stabilized. Allows limited seismic movements.
       1. Application: Floor-to-floor. Floor-to-wall. Wall-to-wall.
       2. Joint width: 1 to 4 inches (25 to 102 mm)
       3. Movement: Plus or minus 25 percent.
       4. Field assembled components. Special transitions and corner fittings as required.

\*\* NOTE TO SPECIFIER \*\* Item below is optional. Delete if not required.

* + - 1. Fire Barrier: Blanket or Mineral Wool and Sealant as required for rating.
    1. KC Series: Recess mount, interior and exterior. For carpark and bridge decks. Neoprene or Santoprene seal system with high strength epoxy adhesive. For heavy bridge deck traffic. Suitable for watertight applications. Allows good seismic and shear movements. UV stabilized.
       1. KCS: Floor-to-floor.
       2. KCC: Floor-to-wall.
       3. Acoustic requirements range up to 72 STC
       4. Joint width: 1 to 6 inches (25 to 152 mm)
       5. Movement: Plus or minus 25 percent.
       6. Field assembled components. Special transitions and corner fittings as required.

\*\* NOTE TO SPECIFIER \*\* Item below is optional. Delete if not required.

* + - 1. Fire Barrier: Blanket or Mineral Wool and Sealant as required for rating.
    1. KDX: Recess mount, interior and exterior. For parking decks and heavy bridge deck traffic. Neoprene and EPDM seal system. High strength epoxy adhesive. Suitable for watertight applications. UV stabilized. Allows shear movements
       1. Application: Floor-to-floor.
       2. Joint width: 0.4 to 4 inches ( mm)
       3. Movement: Plus or minus 50 percent.

\*\* NOTE TO SPECIFIER \*\* Item below is optional. Delete if not required.

* + - 1. Fire Barrier: Blanket or Mineral Wool and Sealant as required for rating. From 1 to 4 inches (24 to 102 mm).
    1. KJS: Surface mount, exterior and seismic. Waterproof and Watertight and accommodates full seismic movement. EPDM seal system suitable for external applications.
       1. Application: Roof-to-roof.
       2. Joint width: 2 to 4 inches (51 to 102 mm)
       3. Movement: Plus or minus 50 percent.

\*\* NOTE TO SPECIFIER \*\* Item below is optional. Delete if not required.

* + - 1. Fire Barrier: Blanket or Mineral Wool and Sealant as required for rating.
    1. LAX: Recess mount, exterior and seismic. Finger joint for bridge deck application. Aluminum and steel anchors. Withstands dynamic heavy rolling loads and impacts.
       1. Application: Bridge deck.
       2. Joint width: 2 to 8 inches (51 to 203 mm)
       3. Movement: Plus or minus 50 percent.
       4. Material: Aluminum, construction grade 6063-T6.
       5. Field assembled components. Special transitions as required.

\*\* NOTE TO SPECIFIER \*\* Item below is optional. Delete if not required.

* + - 1. Fire Barrier: Blanket or Mineral Wool and Sealant as required for rating.
    1. LGX: Recess mount, exterior and seismic. Heavy-duty moulded. Natural or SBR rubber. Steel reinforcment for very heavy duty applications. UV, acid, and alkali resistant. Resistant to high levels of impact and abrasion from road and highway traffic. Joint modules interlock with added sealant ensuring water-tight fit and smooth transit for wheeled vehicles. Directional changes are available. Allows minor seismic movements.
       1. Application: Bridges, decks, multilevel car parks and ports.
       2. Joint width: 1 to 10 inch (25 to 254 mm).
       3. Movement: Plus or minus 25 percent.

\*\* NOTE TO SPECIFIER \*\* Items below are optional. Delete if not required.

* + - 1. Vapor Barrier: 40 mils thick PVC or 30 mils thick EPDM.
      2. Fire Barrier: Blanket or Mineral Wool and Sealant as required for rating.
    1. LTX: Recess mount, exterior. Heavy-duty moulded. Natural or SBR rubber. Steel reinforcment for very heavy duty applications. UV, acid, and alkali resistant. Resistant to high levels of impact and abrasion from road and highway traffic. Joint modules interlock with added sealant ensuring water-tight fit and smooth transit for wheeled vehicles. Directional changes are available. Allows minor seismic movements.
       1. Application: Bridges, decks, multilevel car parks and ports.
       2. Joint width: 1 to 10 inch (25 to 254 mm).
       3. Movement: Plus or minus 25 percent.

\*\* NOTE TO SPECIFIER \*\* Items below are optional. Delete if not required.

* + - 1. Fire Barrier: Blanket or Mineral Wool and Sealant as required for rating.
    1. MA Series: Recess mount, interior, exterior, and seismic. Heavy-duty joint cover. High load bearing system for vehicular traffic, parking garages and warehouses. For both pneumatic and solid tires.
       1. MAS: Floor-to-floor.
       2. MAC: Floor-to-wall.
       3. Joint width: 1 to 4 inch (25 to 102 mm).
       4. Movement: Plus or minus 25 percent.

\*\* NOTE TO SPECIFIER \*\* Items below are optional. Delete if not required.

* + - 1. Vapor Barrier: 40 mils thick PVC or 30 mils thick EPDM.
      2. Fire Barrier: Blanket or Mineral Wool and Sealant as required for rating.
    1. MB Series: Recess mount, interior, exterior, and seismic. Heavy-duty joint cover. High load bearing system for vehicular traffic, parking garages and warehouses. For both pneumatic and solid tires. Allows minor seismic and shear movements
       1. MBS: Floor-to-floor.
       2. MBC: Floor-to-wall.
       3. Joint width: 1 to 4 inch (25 to 102 mm).
       4. Movement: Plus or minus 20 percent.

\*\* NOTE TO SPECIFIER \*\* Items below are optional. Delete if not required.

* + - 1. Vapor Barrier: 40 mils thick PVC or 30 mils thick EPDM.
      2. Fire Barrier: Blanket or Mineral Wool and Sealant as required for rating.
    1. MC Series: Surface mount, interior, exterior, and seismic. High load bearing for vehicular traffic areas, parking garages, and warehouses. For both pneumatic and solid tires. Allows minor seismic and shear movements.
       1. MCS: Floor-to-floor.
       2. MCC: Floor-to-wall.
       3. Joint width: 1 to 4 inch (25 to 102 mm).
       4. Movement: Plus or minus 15 percent.

\*\* NOTE TO SPECIFIER \*\* Items below are optional. Delete if not required.

* + - 1. Vapor Barrier: 40 mils thick PVC or 30 mils thick EPDM.
      2. Fire Barrier: Blanket or Mineral Wool and Sealant as required for rating.
    1. MR Series: Recess mount, interior, exterior, and seismic. High load bearing system for vehicular traffic areas, parking garages and warehouses. For both pneumatic and solid tires. Allows minor seismic and shear movements.
       1. MRS: Floor-to-floor.
       2. MRC: Floor-to-wall.
       3. Joint width: 1 to 4 inch (25 to 102 mm).
       4. Movement: Plus or minus 20 percent.

\*\* NOTE TO SPECIFIER \*\* Items below are optional. Delete if not required.

* + - 1. Vapor Barrier: 40 mils thick PVC or 30 mils thick EPDM.
      2. Fire Barrier: Blanket or Mineral Wool and Sealant as required for rating.
    1. U Series: Recess mount, interior. Field limitation joint. UV resistant. Very minimal sightline. Absorbs ceramic tile movements.
       1. UAS: Floor-to-floor. Aluminum profile
       2. UBS: Floor-to-floor. Brass profile.
       3. USS: Floor-to-floor. Stainless steel profile.
       4. Joint width: inch (5 mm).
       5. Movement: Limited.
    2. SA and SB Series: Surface mount, exterior and seismic. EPDM bellows with metal flanges. To remain watertight during severe seismic movement.
       1. SAS: Roof-to-roof. Curb flange.
       2. SAC: Roof-to-wall.
       3. SBS: Roof-to-roof. Curb flange.
       4. SBC: Roof-to-wall.
       5. Joint Width: 2 to 8 inch (51 to 203 mm).
       6. Movement: Plus or minus 50 percent.
       7. Flange Material: Galvanized iron.
       8. Flange Material: Stainless steel.
       9. Flange Material: Copper.
       10. Flange Material: Aluminum.
       11. Field assembled components. Special transitions and splicing kits as required.

\*\* NOTE TO SPECIFIER \*\* Item below is optional. Delete if not required.

* + - 1. Fire Barrier: Blanket or Mineral Wool and Sealant as required for rating.
    1. V Series: Transition joint strip made up of a single profile. A very minimal sightline.
       1. VAS: Floor-to-floor. Aluminum profile.
       2. VBS: Floor-to-floor. Brass profile.
       3. VSS: Floor-to-floor. Stainless steel profile.
       4. Joint Width: 1/8 inch (3 mm).
    2. W Series: Field limitation joint. Metal profiles with durable and UV resistant Santoprene and anchoring steel. Very minimal sightline. Absorbs ceramic tile movements.
       1. WAS: Floor-to-floor. Aluminum profile.
       2. WBS: Floor-to-floor. Brass profile.
       3. WSS: Floor-to-floor. Stainless steel profile.
       4. Joint Width: inch (9 mm).
       5. Movement: Plus or minus 15 percent.
    3. WGS Series: Recess mount, seismic. Flexible water gutter. EPDM membrane designed to accommodate thermal and seismic movements. A removable plug to block or create water outlet going through flexible water hose.
       1. Usage : Floor and blockout
       2. Joint width : 2 to 12 inches (51 to 305 mm).
       3. Installation Type: Floor.
       4. Installation Type: Under slab.
    4. Y, W, and X Series: Field Limitation Recessed Joint Systems: Interior Floor Joint Systems. Aluminum profiles with durable and UV resistant Santoprene. Minimal sightline and designed to absorb ceramic tile movements.
       1. Recessed mounted frames with integrated seal:
          1. YAS: Straight. Floor-to-floor. Aluminum. Mill Finish
          2. YBS: Straight. Floor-to-floor. Brass. Mill Finish
          3. YSS: Straight. Floor-to-floor. Stainless steel. Mill Finish
       2. Recessed mounted plates with hooks and integrated seal:
          1. WAS: Straight. Floor to floor. Aluminum. Mill Finish
          2. WBS: Straight. Floor-to-floor. Brass. Mill Finish
          3. WSS: Straight. Floor-to-floor. Stainless steel. Mill Finish
       3. Recessed mounted plates with integrated seal:
          1. XAS: Straight. Floor to floor. Aluminum. Mill Finish
          2. XBS: Straight. Floor-to-floor. Brass. Mill Finish
          3. XSS: Straight. Floor-to-floor. Stainless steel. Mill Finish
       4. Materials:
          1. Aluminum: ASTM B221, alloy 6063-T6.
          2. Stainless Steel: SS316 or SS304.
          3. Brass: CZ108
       5. Seal: Santoprene / Neoprene. Color: Manufacturer's standard range or custom.
  1. FIRESTOPPING
     1. ZAS Series: Fire-Rated watertight system covers both sides of joint opening that meets 2 or 3 hour fire rating in accordance with UL 2079 hose stream test and ASTM E1399, ASTM E1966 and ASTM E119.
        1. Additional firestopping systems like mineral wool, fire rated sealant and ceramic fire blanket are not required.
        2. Meets acoustic requirements range up to 72 STC.
        3. High-temperature and UV stabilized.
        4. Usage : Floor-to floor. Wall-to-wall.
        5. Movement: Plus or minus 50 percent.
        6. Joint width: 1 to 6 inches (25 to 152 mm).
        7. Material: Open-cell foam pre coated with silicon, pre-formed, pre-compressed, self-expanding, 2 hours fire-rated, seal system. Comprised of the following components:
        8. Fire retardant: Impregnated foam seal precoated at the outer layers with waterproof silicone,
        9. Field applied epoxy adhesive primer,
        10. Field injectable silicone sealant bands.
     2. ZBS Series: Flush mount, interior. Made up of rockwool with a fire sealant on top. Accommodate thermal movement meeting 2 hour fire ratings complying under UL 2079 hose stream test and ASTM E1399. Allows limited shear movements. Compatible with most of our expansion joints product range.
        1. Fire Rated Sealant: Slumping and non-slumping single component water based sealant.
        2. Usage : Floor-to floor. Wall-to-wall.
        3. Movement: Plus or minus 50 percent.
        4. Joint width: 1 to 6 inches (25 to 152 mm).
        5. Fabrication: Not Required.

\*\* NOTE TO SPECIFIER \*\* ZCS may be used independently or in combination with silicon or polyurethane sealant, expansion or compression joint seals, clip fixed joint covers or any other mechanical protection or waterproofing system. For applications such as structural movement joints in floors, walls and ceilings, precast panels joints, protection between horizontal concrete slabs and curtain walls, head of walls, etc..

* + - 1. Delete if not required.
    1. ZCS: Fire Barrier: For floor and wall applications. Compressible, noncombustible mineral fibers over bound with glass fiber yarn. A highly flexible, moisture and fungus resistant, cylindrical joint filler. 4 hour efficient protection against fire and hot gases. Easy to install by hand. Allows shear movements.
       1. Joint Width: 1 to 5 inches (25 to 127 mm)
       2. Available Diameter Range: 1-9/16 to 6-11/16 inch (40 to 170 mm).
       3. Service Temperature: Less than 14,072 degrees F (7,800 degrees C) per DIN 52271.
       4. Melting Temperature: 21,632 degrees F (12,000 degrees C) per DIN 4102 / T17.
       5. Unaffected by water and humidity per DIN 52615.
       6. Resistant to microorganisms, moisture and fungus.
       7. Resistant to wide range of aggressive agents except hydrochloric acid and concentrated alkalis.
       8. Free of asbestos and ceramics.
       9. Complies with European guideline 97/69/CE and is not hazardous for human health.
    2. ZFS: Fire blanket system. Accommodates thermal and seismic movements and meets 2 hour fire ratings. Fire tested for use with cover plates. Adapts to variability in construction, and compensates for surface imperfections that could otherwise affect product effectiveness. Class IV movement rating, effective even when fatigued over time. Chase wall covers are also available.
       1. Cover Plates: 22 gauge, 1/32 inch, (0.79 mm) and thicker or virtually any extruded metal shape.
       2. Nominal Joint Widths: 1 to 20 inch (25 to 508 mm).
       3. Seismic Movement: 50 percent

\*\* NOTE TO SPECIFIER \*\* 3 and 4 hour fire ratings available.

* + - 1. Fire Rating: 2 hours. Meets UL-2079, ASTM E-1399, ASTM E-1966.
      2. Installs with retaining flanges.
      3. Meets "Hose Stream Test" for vertical wall applications.
      4. Tested and approved to globally recognized standards.
      5. Material: Preformed, fully flexible, non-combustible mineral fibers bound with glass fiber yarn, highly flexible, moisture and fungus resistant, Supplied in jumbo rolls for creating a continuous barrier against fire.
         1. Encapsulated with stainless steel flexible foil and stainless steel shear screen. Use single package system to 12 inch (305 mm) nominal joint width and double package system for wider joints.
      6. Fabrication: not required.
         1. May be field-cut, spliced and transitioned according to manufacturer's recommendations.
      7. Galvanized Mounting Flanges : Galvanized flanges 20 to 28 gauge as recommended by manufacturer, supplied separately for 6 inch (152 mm) nominal joints and smaller.
         1. May be field-cut and spliced according to manufacturer's instructions.

1. EXECUTION
   1. EXAMINATION
      1. Do not begin installation until substrates have been properly constructed and prepared.
      2. If substrate preparation is the responsibility of another installer, notify Architect in writing of unsatisfactory preparation before proceeding.
   2. PREPARATION
      1. Clean surfaces thoroughly prior to installation.
      2. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
   3. INSTALLATION
      1. Install in accordance with manufacturer's instructions, approved submittals, and in proper relationship with adjacent construction.
   4. FIELD QUALITY CONTROL
      1. Field Inspection: Coordinate field inspection in accordance with appropriate sections in Division 01.

\*\* NOTE TO SPECIFIER \*\* Include if manufacturer provides field quality control with onsite personnel for instruction or supervision of product installation, application, erection or construction. Delete if not required.

* + 1. Manufacturer's Services: Coordinate manufacturer's services in accordance with appropriate sections in Division 01.
  1. CLEANING AND PROTECTION
     1. Clean products in accordance with the manufacturers recommendations.
     2. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION