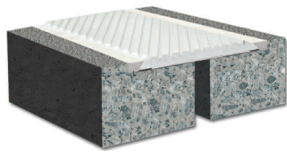


ES-Series



Description

The ES-Series Molded Urethane Expansion Joint system consists of premolded urethane seals

produced under factory controlled climatic conditions. Materials required for installation (nosing, primers, bedding and bond breakers) are provided with the system.

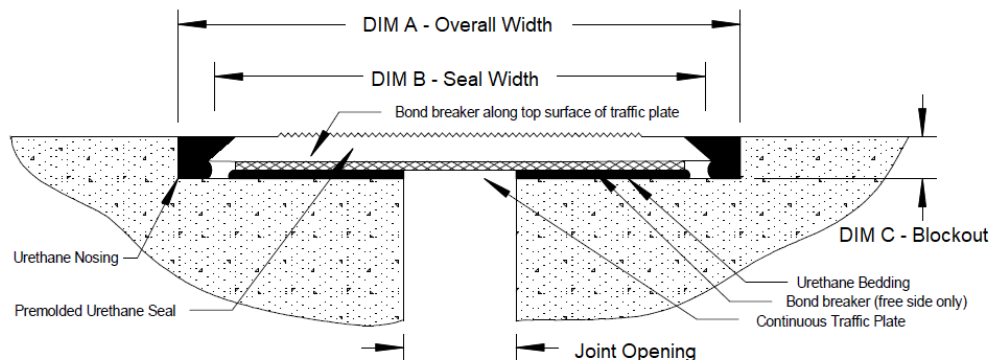
The ES-Series expansion system is designed for use where watertight structural expansion joint performance is required. Systems for wheel and foot traffic or non-traffic installations are available. Parking structures, stadiums, plazas, sewage and water treatment facilities, concrete roof decks, and bridges are all typical applications for the system.

Physical Properties

The physical properties for the molded seal and polymeric nosing material are provided in Table 1 and Table 2.

| Property | ASTM Test Method | Requirement |
|---------------------------------------|------------------|----------------|
| Tensile strength, min. | D412 | 250 psi |
| Ultimate Elongation | D412 | 700% |
| Hardness (Shore A) | C661 | 30 +/-5 |
| Movement Capability | C719 | +/-16% |
| Low Temperature (Flexibility @ -40°F) | D1790 | Pass |
| Service Temperature Range | ----- | -40°F to 150°F |

| Property | ASTM Test Method | Requirement |
|---------------------------------------|------------------|---------------------------|
| Tensile strength, min. | D412 | 1000 psi |
| Ultimate Elongation | D412 | 200% |
| Hardness (Shore A) | C661 | 55 +/-5 |
| Movement Capability | C719 | +/-12.5% |
| Low Temperature (Flexibility @ -40°F) | D1790 | Pass |
| Service Temperature Range | ----- | -40°F to 150°F |
| Weight Loss, Heat Aging | C792 | <5% |
| Peel Adhesion - Concrete | C794 | 50 lbs |
| Pot Life @ 70°F | ----- | 30 min |
| Shelf Life @ 70°F | ----- | 6 mos in sealed container |
| Cure Time @ 75°F | C920 | 24 hrs |



| PRODUCT | MAX JOINT OPENING IN (MM) | EXPECTED MOVEMENT IN (MM) | DIM. A: IN (MM) | DIM. B IN (MM) | DIM. C: IN (MM) | PLATE SIZE (IN) |
|---------|---------------------------|---------------------------|-----------------|----------------|-----------------|------------------|
| ES-30 | 0.75" (19) | 0.50" (13) | 4.00" (102) | 3.00" (76) | 0.63" (16) | 2.25" x .06 |
| ES-40 | 1.00" (25) | 0.75" (19) | 5.00" (127) | 4.00" (102) | 0.63" (16) | 3.5" x .06 |
| ES-60 | 1.50" (38) | 1.00" (25) | 7.00" (178) | 6.00" (152) | 0.63" (16) | 5" x .09 |
| ES-80 | 2.25" (57) | 1.50" (38) | 9.00" (229) | 8.00" (203) | 0.63" (16) | 6.5" x .09 |
| ES-100 | 3.00" (76) | 2.00" (51) | 11.00" (279) | 10.00" (254) | 0.75" (19) | 8" x .125 |
| ES-120 | 3.00" (76) | 2.50" (64) | 13.00" (330) | 12.00" (305) | 0.75" (19) | 8" x .125 |