

# Roofing Systems, Uplift Resistance

**COMPANY**

**Amrize Building Envelope LLC dba Duro-Last**  
525 W. Morley Dr.  
Saginaw, MI 48601-9485 United States

**R10128****SINGLE PLY MEMBRANE SYSTEMS****1. Uplift Resistance** — 150 psf.

**Deck:** — Steel, min No. 22 MSG.

**Insulation:** — UL Classified polyisocyanurate, EPS, wood fiber or perlite, any combination, any thickness.

**Membrane:** — "Duro-Last" (PVC) or "Duro-Last X", mechanically fastened with No. 14 self-drilling steel screws through min 2 in. diam plastic plates with pointed underside. Fasteners are located 12 in. OC max along tab of factory weld seam in rows spaced 27 in. OC max.

**2. Uplift Resistance** — 90 psf.

**Deck:** — Steel, min 22 MSG.

**Insulation:** — UL Classified polyisocyanurate, EPS, wood fiber or perlite, any combination, any thickness.

**Membrane:** — "Duro-Last" (PVC) or "Duro-Last X" mechanically fastened with No. 14 self-drilling steel screws through min 2 in. diam plastic plates with pointed underside. Fasteners are located 12 in. OC max along tab of factory weld seam in rows spaced 57 in. OC max.

**3. Uplift Resistance** — 60 psf.

**Deck:** — Steel, min 22 MSG.

**Insulation:** — UL Classified polyisocyanurate, EPS, wood fiber or perlite, any combination, any thickness.

**Membrane:** — "Duro-Last" (PVC) or "Duro-Last X" mechanically fastened with No. 14 self-drilling steel screws through min 2 in. diam plastic plates with pointed underside. Fasteners are located 18 in. OC max along tab of factory weld seam in rows spaced 57 in. OC max.

**4. Uplift Resistance** — 120 psf.

**Deck:** — 22 MSG (min).

**Insulation:** — "ACFoam II", min 2 in. thick.

**Fasteners:** — Tru Fast #15 XHD with Construction Fasteners 2-7/8 in. diam, No. 26 MSG formed galvanized steel hexagonal recessed plates. One fastener every 2 sq ft.

**Membrane:** — "Duro-Last" (PVC), min 40 mil, fully adhered with "Duro-Last SB Adhesive", 65 ft<sup>2</sup>/gal.

**5. Uplift Resistance** — 150 psf.

**Deck:** — 22 MSG (min).

**Insulation:** — "ACFoam II", min 3 in. thick.

**Barrier Board:** — G-P Gysum DensDeck®, 1/4 in. thick minimum.

**Fasteners:** — Tru Fast #15 XHD with Construction Fasteners 2-7/8 in. diam, No. 26 MSG formed galvanized steel hexagonal recessed plates. One fastener every 2 sq ft.

**Membrane:** — "Duro-Last" (PVC), min 40 mil, fully adhered with "Duro-Last SB Adhesive", 65 ft<sup>2</sup>/gal. When Barrier Board is used, "Duro-Last WB Adhesive", 120 ft<sup>2</sup>/gal. may be used.

#### 6. Uplift Resistance — 165 psf.

**Deck:** — 22 MSG (min).

**Air Barrier:** — 6 mil (min) polyethylene.

**Insulation:** — "ACFoam II", min 3 in. thick.

**Barrier Board:** — G-P Gysum DensDeck®, 1/4 in. thick minimum.

**Fasteners:** — Tru Fast #15 XHD with Construction Fasteners 2-7/8 in. diam, No. 26 MSG formed galvanized steel hexagonal recessed plates. One fastener every 2 sq ft.

**Membrane:** — "Duro-Last" (PVC), min 40 mil, fully adhered with "Duro-Last SB Adhesive", 65 ft<sup>2</sup>/gal. When Barrier Board is used, "Duro-Last WB Adhesive", 120 ft<sup>2</sup>/gal. may be used.

#### 7. Uplift Resistance — 165 psf.

**Deck:** — 22 MSG (min).

**Insulation (Optional):** — Any UL Classified, 2 in. max.

**Barrier Board:** — APA Rated OSB sheathing, 7/16 in. thick min.

**Fasteners:** — Tru Fast #15 XHD with Construction Fasteners 2-7/8 in. diam, No. 26 MSG formed galvanized steel hexagonal recessed plates. One fastener every 2 sq ft.

**Membrane:** — "Duro-Last" (PVC), min 40 mil, fully adhered with "Duro-Last SB Adhesive", 65 ft<sup>2</sup>/gal.

#### 8. Uplift Resistance — 210 psf.

**Deck:** — 22 MSG (min).

**Air Barrier:** — 6 mil (min) polyethylene, loose-laid.

**Insulation (Optional):** — Any UL Classified, 2 in. max.

**Barrier Board:** — APA Rated OSB sheathing, 7/16 in. thick min.

**Fasteners:** — Tru Fast #15 XHD with Construction Fasteners 2-7/8 in. diam, No. 26 MSG formed galvanized steel hexagonal recessed plates. One fastener every 2 sq ft.

**Membrane:** — "Duro-Last" (PVC), min 40 mil, fully adhered with "Duro-Last SB Adhesive", 65 ft<sup>2</sup>/gal or "Duro-Last WB Adhesive", 120 ft<sup>2</sup>/gal.

#### 9. Uplift Resistance — 180 psf.

**Deck:** — 22 MSG (min).

**Insulation (Optional):** — Any UL Classified, 2 in. max.

**Barrier Board:** — APA Rated, Grade B-C plywood, 15/32 in. thick min.

**Fasteners:** — Tru Fast #15 XHD with ITW-Buildex 3 in. sq, No. 26 MSG formed galvalume steel recessed plates. One fastener every 2 sq ft.

**Membrane:** — "Duro-Last" (PVC), min 40 mil, fully adhered with "Duro-Last SB Adhesive", 65 ft<sup>2</sup>/gal or "Duro-Last WB Adhesive", 120 ft<sup>2</sup>/gal.

#### 10. Uplift Resistance — 225 psf.

**Deck:** — 22 MSG (min).

**Air Barrier:** — 6 mil (min) polyethylene, loose-laid.

**Insulation (Optional):** — Any UL Classified, 2 in. max.

**Barrier Board:** — APA Rated, Grade B-C plywood, 15/32 in. thick min.

**Fasteners:** — Tru Fast #15 XHD with ITW-Buildex 3 in. sq, No. 26 MSG formed galvalume steel recessed plates. One fastener every 2 sq ft.

**Membrane:** — "Duro-Last" (PVC), min 40 mil, fully adhered with "Duro-Last SB Adhesive", 65 ft<sup>2</sup>/gal or "Duro-Last WB Adhesive", 120 ft<sup>2</sup>/gal.

## 11. Uplift Resistance — 210 psf.

**Deck:** — 22 MSG (min).

**Air Barrier:** — 6 mil (min) polyethylene.

**Insulation (Optional):** — Any type, 2 in. max.

**Barrier Board:** — APA Rated, Grade B-C plywood, 15/32 in. thick min.

**Fasteners:** — Tru Fast #15 XHD with ITW-Buildex 3 in. sq, No. 26 MSG formed galvalume steel recessed plates. One fastener every 1.6 sq ft.

**Membrane:** — "Duro-Last" (PVC), min 40 mil, fully adhered with "Duro-Last SB Adhesive", 65 ft<sup>2</sup>/gal or "Duro-Last WB Adhesive", 120 ft<sup>2</sup>/gal.

### INSULATION ADHESIVE

#### 1. Uplift Resistance — 120 psf.

**Deck:** — Steel, min 22 MSG.

**Barrier Board:** — G-P Gypsum DensDeck®, 1/2 in. thick, adhered to the steel deck with "DURO-GRIP™ CR-20" adhesive, approximately 1/2 gal/sq, applied to every other crest (12 in. OC).

**Insulation:** — One layer Atlas Roofing "ACFoam II", 1-1/2 in. thick, adhered to the DensDeck® with "DURO-GRIP™ CR-20" adhesive, approximately 1/2 gal/sq, applied in ribbons spaced a max of 12 in. OC.

**Insulation:** — Any UL Classified high density wood fiberboard, min 1-1/2 in. thick, adhered to the insulation with "DURO-GRIP™ CR-20" adhesive, approximately 1/2 gal/sq, applied in ribbons spaced a max of 12 in.

**Roof Covering:** — Any UL Classified hot mopped built-up or torch applied modified bitumen membrane system or hot mopped built-up system (See Roofing Systems, TGFU).

### SINGLE PLY MEMBRANE SYSTEMS

#### 1. Uplift Resistance — 105 psf.

**Deck:** — Steel, min 22 MSG.

**Insulation:** — One layer Atlas Roofing "ACFoam II", 1-1/2 in. thick, adhered to the steel deck with "" DURO-GRIP Ô"" adhesive, approximately 1/2 gal/sq, applied to every other crest (12 in. OC).

**Insulation:** — One layer Atlas Roofing "ACFoam II", 1-1/2 in. thick, adhered to the first layer of insulation with "" DURO-GRIP Ô"" adhesive, approximately 1/2 gal/sq, applied in ribbons spaced a max of 12 in.

**Membrane:** — Elevate "Standard RubberGard" EPDM, 45 mil, fully adhered to the insulation with Elevate "BA-2004 Bonding Adhesive", 45-60 sq ft/gal

### SINGLE PLY MEMBRANE SYSTEMS

#### 1. Uplift Resistance — 120 psf.

**Deck:** — 22 MSG (minimum).

**Insulation:** — "ACFoam II", minimum 2 in. thick.

**Fasteners:** — Tru Fast #15 XHD with Construction Fasteners 2-7/8 in. diameter, No. 26 MSG formed galvanized steel hexagonal recessed plates. One fastener every 2 sq ft.

**Membrane:** — "Duro-Last" (PVC), minimum 40 mil, fully adhered with "SB IV Adhesive", 65 ft<sup>2</sup>/gal.

Tradename and/or Trademark:



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