



# AIR BARRIER CAPABILITIES SYSTEMS AND SOLUTIONS

BUILDING TRUST



# AIR BARRIER CAPABILITIES

## BACKGROUND

- Buildings consume more than 70% of our nation's electricity
- The use of an air barrier can save as much as 40% in a building's energy usage
- Water intrusion and building deterioration remains the #1 concern for designers and building owners

## KEY OBJECTIVES AND CONSIDERATIONS OF AN AIR BARRIER

- Keep water out
- Maintain a comfortable interior environment
- Energy efficiency
- Building Codes now require a continuous air barrier to control air leakage
- Compatibility from one building element and material to the next

## SYSTEM APPROACH

- ABAA listing as an assembly
- A rigorous compatibility test program ensures our products function together, especially at critical transitions and penetrations like roof - air barrier, air barrier - window sealant and flashing



## BUILDING SOLUTIONS

- Much more than an air barrier assembly, Sika offers solutions for the entire building envelope
  - Roofing
  - Exterior Walls & Windows
  - Balconies
  - Interior & Mechanical Spaces
  - Plaza Decks
  - Parking Garages
  - Below Grade



ASTM 2357 Test Panel - Detailing



ASTM 2357 Test Panel - Completed



Application of Sikagard® 535

# SYSTEM SOLUTIONS



## **Sikagard® 535 – LIQUID-APPLIED, ACRYLIC VAPOR PERMEABLE AIR BARRIER**

- Evaluated by the Air Barrier Association of America (ABAA)
- Passes ASTM E 2178 Air Permeance
- Passes ASTM E 2357 System Air Leakage test
- Passes ASTM E 331 Water Penetration Test
- Evaluated for use in NFPA 285 assemblies



## **SikaMembran® 540 – SELF-ADHERED TRANSITION TAPE**

- Copolymer adhesive with conformable polypropylene facer (Sika® Membran 540)
- Transition membrane for details and terminations such as windows, doors, outside corners and penetrations
- Excellent adhesion properties
- Flexible at low temperatures



## **Sika® MultiSeal Plus or Sika® MultiSeal 500 – SELF-ADHERED FLASHING**

- Butyl rubber adhesive with a TPO facer (Sika MultiSeal Plus)
- Rubberized asphalt adhesive with a tough, multi-layer cross laminated film (Sika MultiSeal 500)
- Through-wall and shelf angle flashing



## **Sikaflex® 11 FC – POLYURETHANE, ELASTOMERIC SEAM SEALER**

- Substrate joint treatment and termination mastic
- Very fast tack-free cure (may be coated in 4 – 6 hours)
- Excellent weathering and water resistance

## **WE ARE SIKA**

Sika is a specialty chemicals company with a leading position in the development and production of systems and products for bonding, sealing, damping, reinforcing and protecting in the building sector and the motor vehicle industry. Sika's product lines feature concrete admixtures, mortars, sealants and adhesives, structural strengthening systems, industrial flooring as well as roofing and waterproofing systems.

Our most current General Sales Conditions shall apply. Please consult the Product Data Sheets prior to any use and processing.

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