



American Spray Foam

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ASF 0.5B

ARCHITECTURAL SPECIFICATIONS & INSTALLATION INSTRUCTIONS

PART 1 - GENERAL

1.01 SUMMARY

AMERICAN SPRAY FOAM's ASF 0.5B provides building envelopes with seamless insulation which substantially reduces air infiltration. Sealite is applied in studwall cavities, between floor joist, ceiling rafters and roof rafters at the thickness to achieve the desired R value for a total insulation/air barrier package. Air infiltration is substantially reduced due to the sealing characteristics of the spray foam system and eliminates the need for air barrier building wrap. Sealite can be applied to most construction materials including wood, drywall, masonry block, and metal.

1.02 QUALITY ASSURANCE

Sealite must be installed by a qualified spray polyurethane foam applicator who is familiar with the operation and maintenance of his equipment and who is familiar with the properties of the AMERICAN SPRAY FOAM Spray System which is being applied.

1.03 MATERIAL DELIVERY AND STORAGE

- A. Materials shall be delivered in their original, tightly sealed containers.
- B. Store above 35°F. Prior to use, keep the temperature of the chemicals above 70°F for several days. Cold chemicals can cause poor mixing, pump cavitations or other process problems due to higher viscosity at lower temperatures. Storage temperatures should not exceed 85°F. Do not store in direct sunlight. Keep drums tightly closed when not in use and under dry gas pressure of 2-3 psi after they have been opened. Cool storage of the resin extends shelf life. Exposure to temperatures above 85°F will shorten the expected shelf life. Under proper storage conditions, shelf life of AMERICAN SPRAY FOAM Spray System ASF 0.5B used with Sealite is three months.

1.04 SEQUENCE AND SCHEDULING

The spray polyurethane foam used in the ASF 0.5B system is applied after the perimeter wall is in place, windows and doors installed, and rough-in plumbing and electrical inspections are complete.

1.05 VAPOR BARRIER: Install vapor barriers as required by local code.

1.06 SAFETY

HANDLING OF LIQUID COMPONENTS: Use caution in removing bungs from 55- gallon drums. Loosen $\frac{3}{4}$ -inch bung and let gas escape before completely removing. Avoid breathing of vapors. In case of chemical contact with eyes, flush with water for at least 15 minutes and get medical attention. For further information refer to "Working with MDI and Polymeric MDI: What You Should Know," Reference No. AX 205, published by the Center for the Polyurethanes Industry, 1300 Wilson Boulevard, Arlington, VA 22209, www.polyurethane.org.

15-MINUTE THERMAL BARRIER: Federal, state, and local building codes vary. All require that spray-applied polyurethane foam insulation be covered with an approved 15-minute fire rated thermal barrier. One typically approved material is $\frac{1}{2}$ - inch gypsum wallboard (sheetrock) applied over the spray polyurethane foam insulation. However, always check with local officials for recommendations and approvals.

PART 2 - PRODUCTS

2.01 POLYURETHANE FOAM

The polyurethane foam used shall be AMERICAN SPRAY FOAM Chemical System ASF 0.5B. Typical physical properties of foam made with this System are:

Property	AMERICAN SPRAY FOAM ASF 0.5B
Core Density (Nominal)	0.5 lb/ft ³
Permeance at 3 $\frac{1}{2}$ " Thickness	4.4 perms
Thermal Conductivity (k)*	0.27 Btu·in/hr·ft ² ·°F
Flame Spread (4" thick)**	☒ 25
Smoke Developed**	< 450

R* Values

Thickness	R-Value
1"	4.1
2"	7.5
3"	11
3.5"	13
4"	14

Thickness	R-Value
5"	18
6"	22
7"	25
8"	29
12"	43

*As with all insulating materials, the k Factor and R Value will vary with age and use conditions.

**These numerical flame spread ratings and smoke developed numbers are not intended to reflect hazards presented by this or any other material under actual fire conditions. For proper use refer to the appropriate building code.

2.02 ACCESSORIES

A. Joint Filler Foam: Hilti CF 124 Filler Foam or equivalent

B. Caulk: Sikaflex 1a: Single component polyurethane or equivalent

PART 3 - EXECUTION

3.01 SURFACE PREPARATION

All surfaces to be sprayed with AMERICAN SPRAY FOAM polyurethane foam must be dry, clean, and secure. Remove sawdust and other debris from areas to be sprayed by blowing with compressed air or vacuuming with a shop vacuum. Check surfaces with AMERICAN SPRAY FOAM MDP strips to verify dryness. All metal to which foam is to be applied must be free of oil, grease, rust, etc. Primers should be used where necessary.

Mask off all areas not to receive spray foam with masking tape and plastic sheeting. Apply release agent to stud facing to facilitate removal of foam.

3.02 FOAM APPLICATION

ASF 0.5B (AMERICAN SPRAY FOAM Spray System ASF 0.5B) is a fast rise foam system. The foam is applied in one pass to completely fill the stud wall cavity. Additional passes can be applied if necessary to achieve the desired thickness. Use a spray technique whereby the stud faces are thinly sprayed with foam chemicals to assure adhesion to the studs. The resulting foam pass would be “U” shaped with rapid gun sweeps across the stud faces.

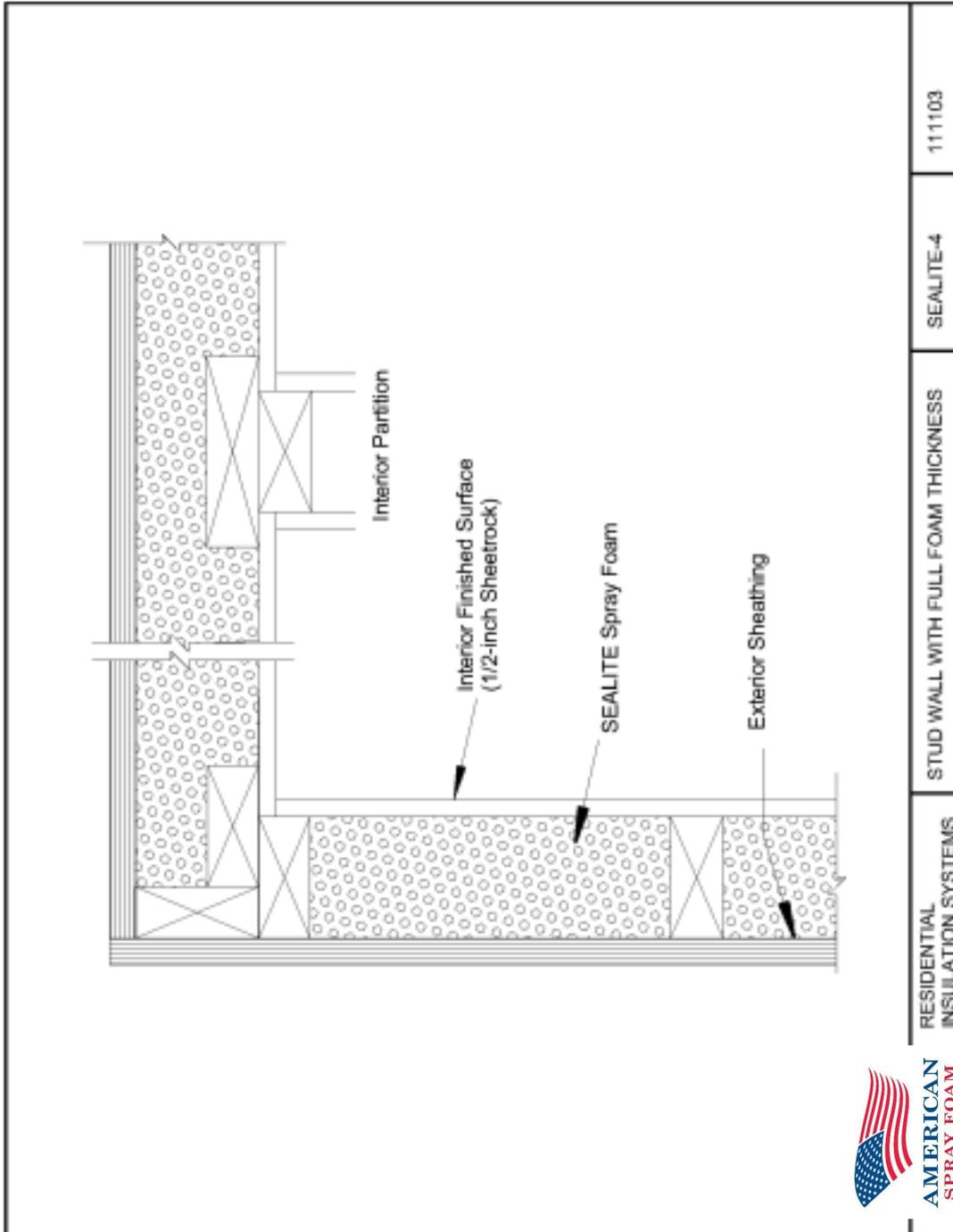
Where Sealite is applied between joists (below a floor or above a ceiling), apply sufficient foam thickness to achieve the desired R-value (the cavity does not need to be completely filled).

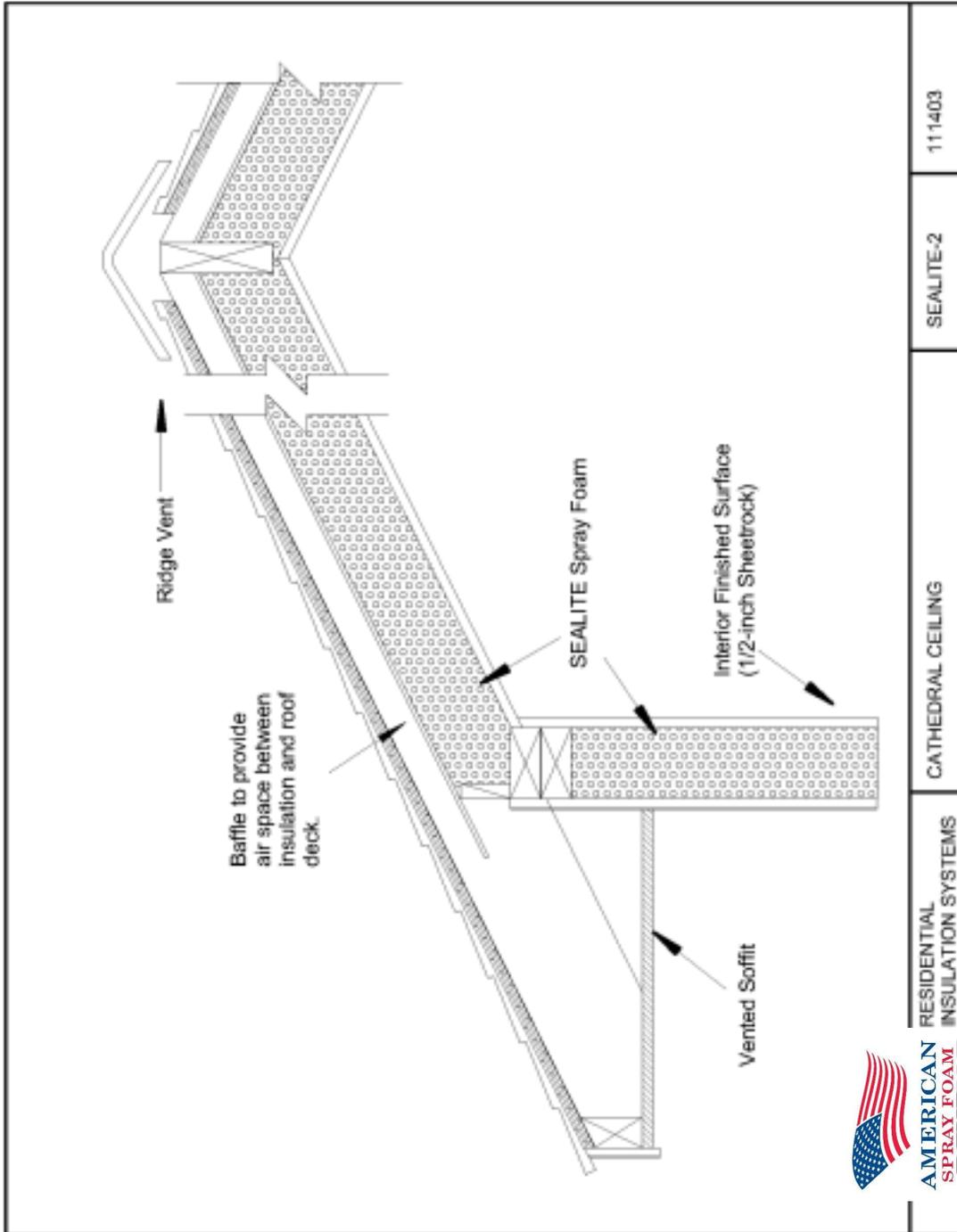
3.03 ACCESSORY APPLICATION

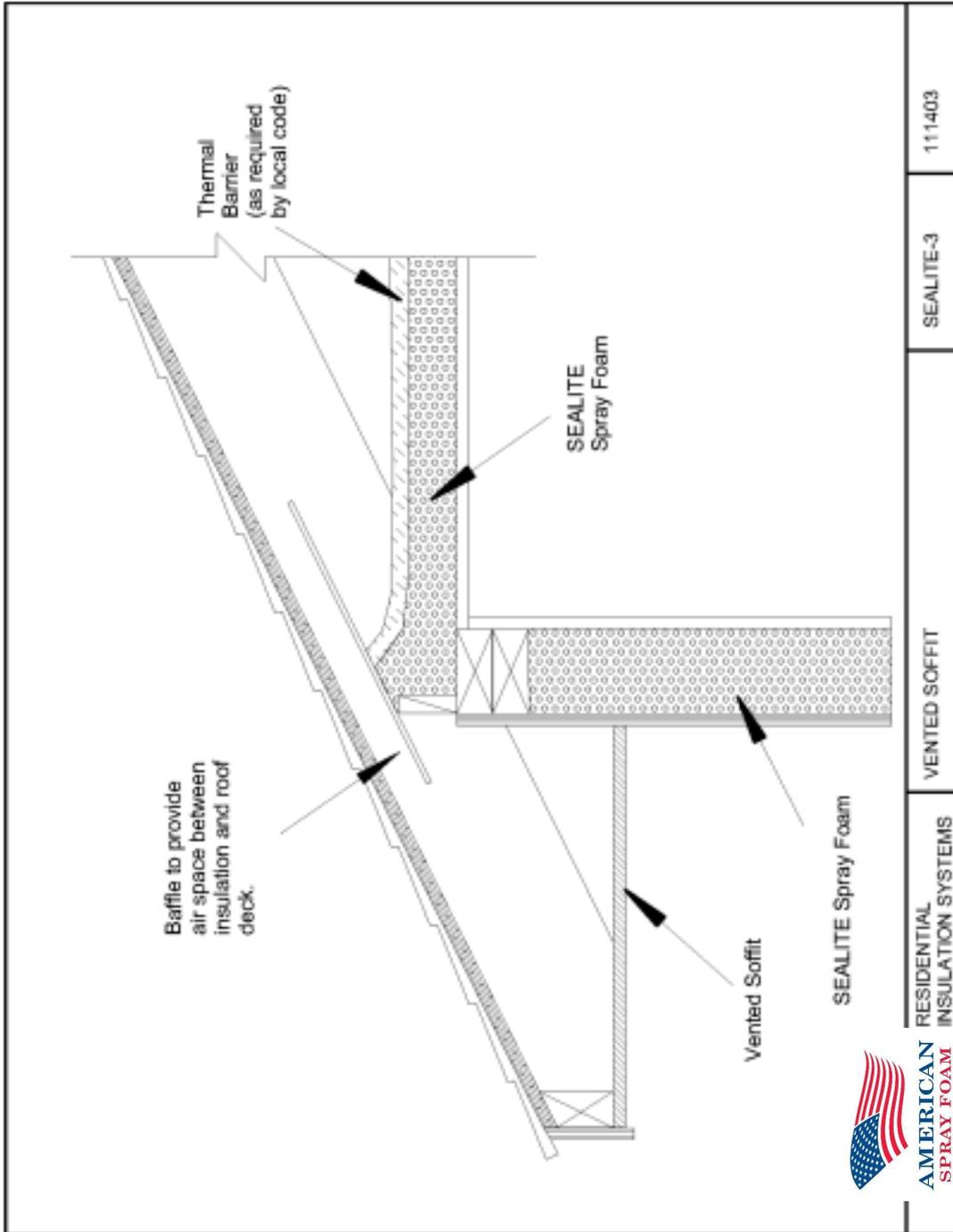
Joint Filler Foam and Caulk: Use joint filler foam and/or caulk to seal around windows, doors, chimneys, electrical raceways, sill plates, multiple studs, etc. **Caution: Joint filler foam can tighten window frames and door jambs to the point that they will not open or close properly. Care must be used in these areas to avoid distortion of these members.**

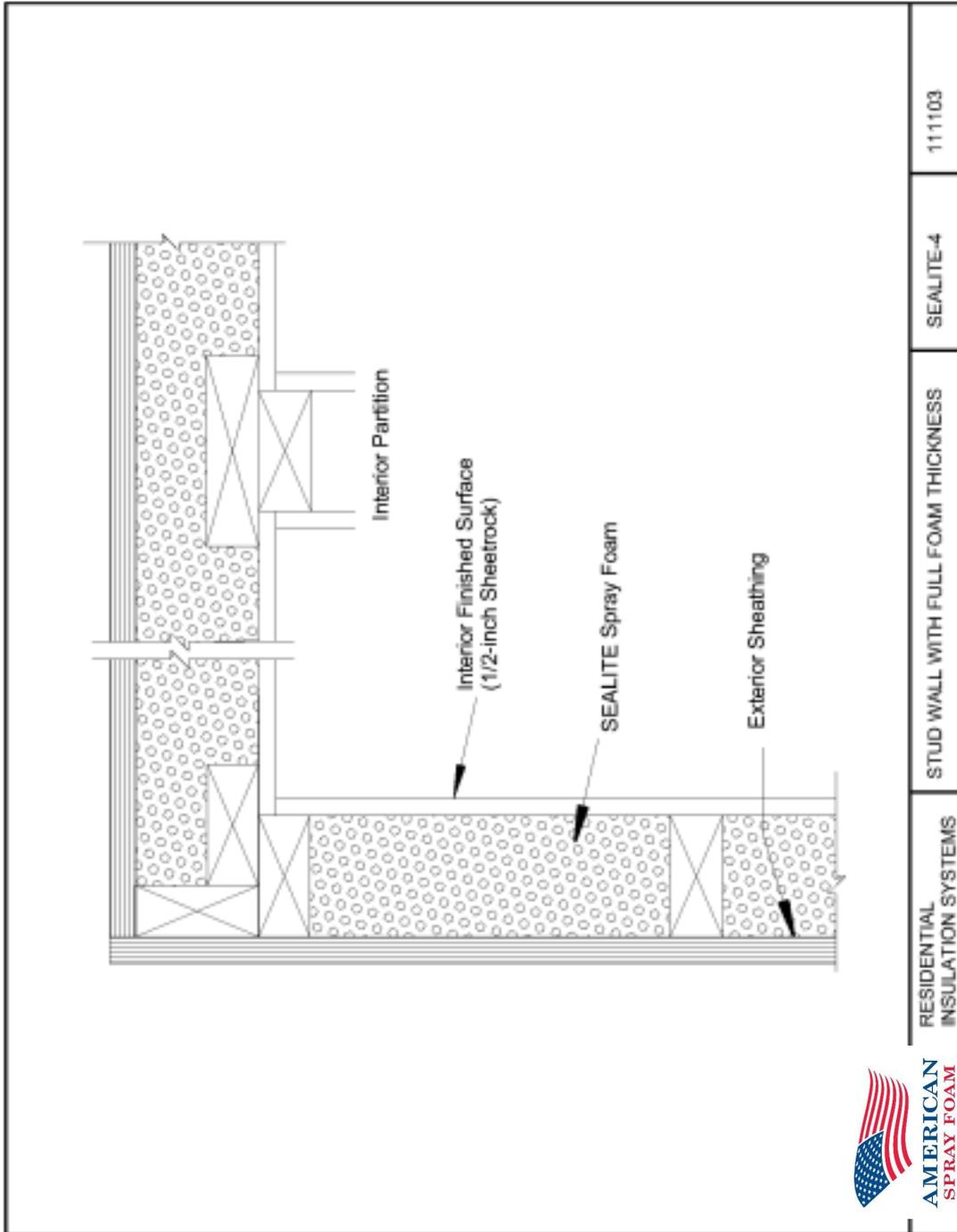
3.04 CLEAN UP

Clean off all overspray and overfill from the interior stud facings. Where stud cavities have been overfilled, shave off the foam face to provide a surface flush with the stud for drywall installation. Remove all masking materials.







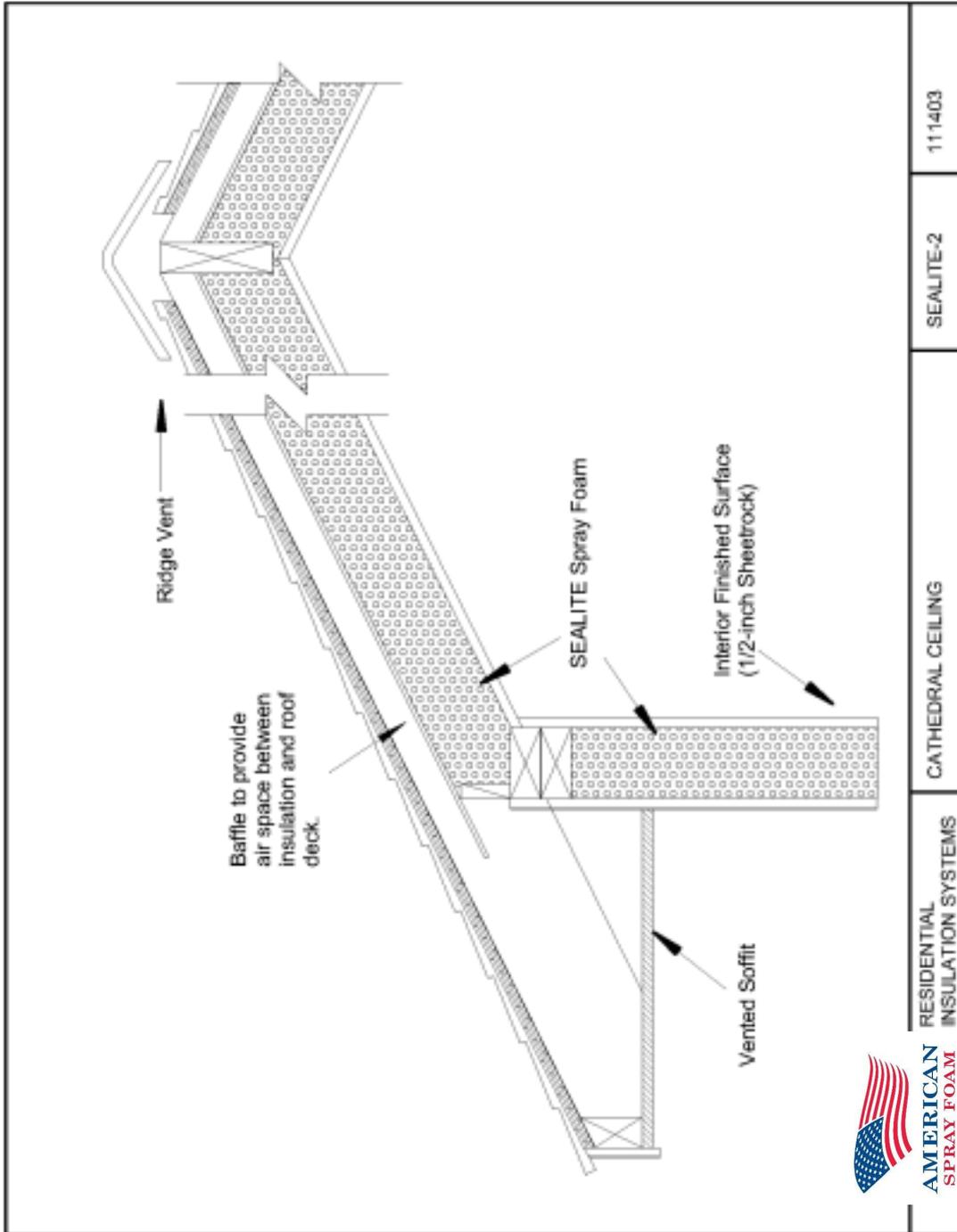


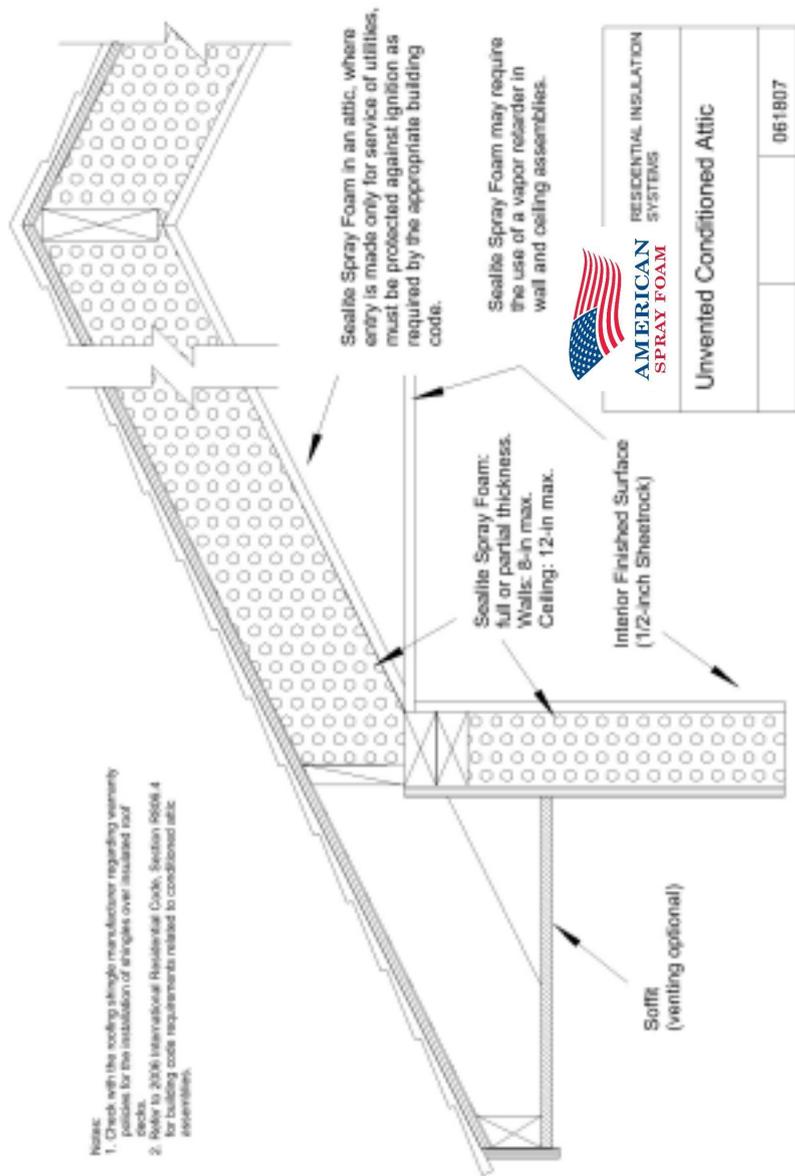
RESIDENTIAL
INSULATION SYSTEMS

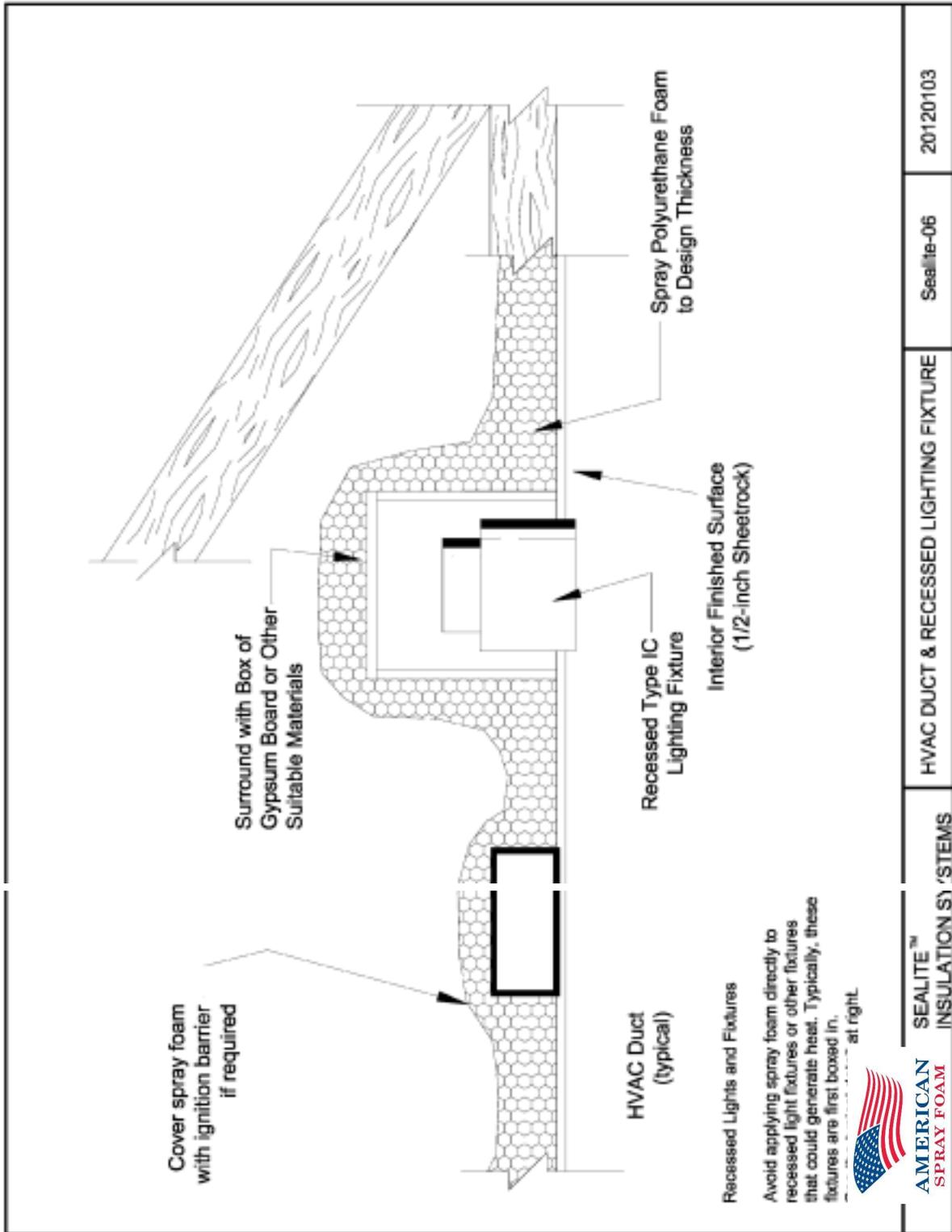
STUD WALL WITH FULL FOAM THICKNESS

SEALITE-4

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20120103	Sealite-06	HVAC DUCT & RECESSED LIGHTING FIXTURE	AMERICAN SPRAY FOAM SEALITE [™] INSULATION SYSTEMS
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