▼ CONSTRUCTION DRAWINGS

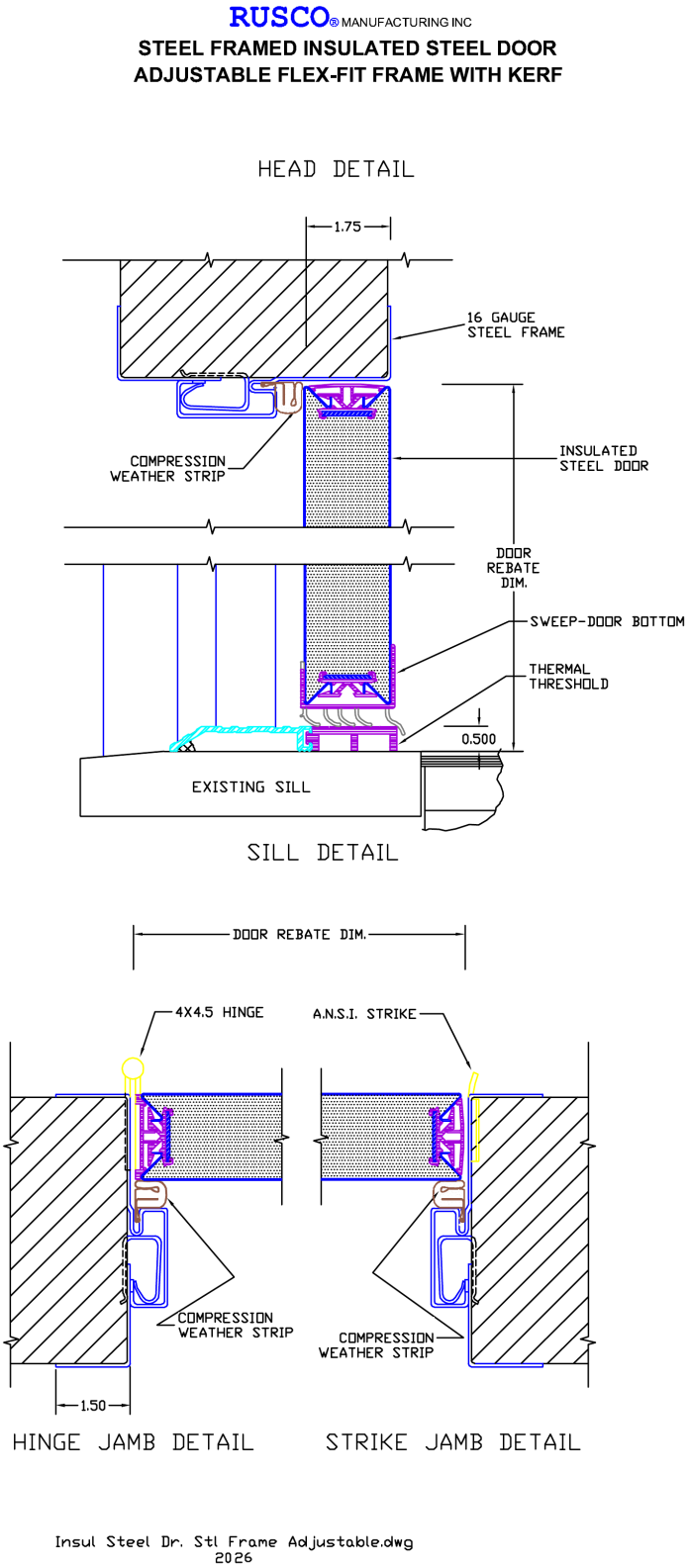


Fig. 1: Steel-framed insulated steel door, adjustable Flex-Fit frame with kerf. Head, sill, hinge jamb and strike jamb details

▼ DOOR CONSTRUCTION

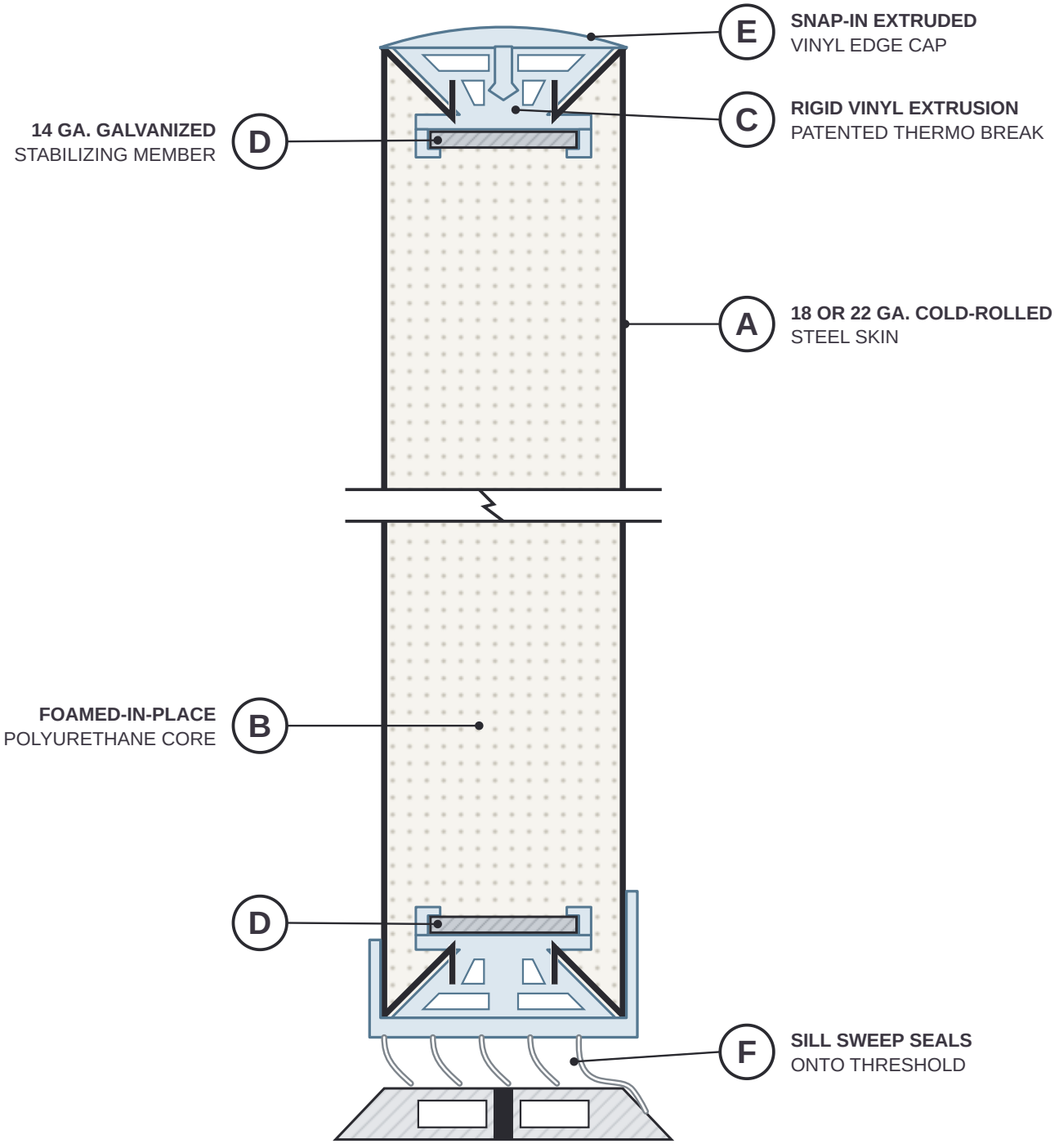


Fig. 2: Insulated steel door section, components A to F (not to scale)

THERMO BREAK SYSTEM | R-13.5 CORE

The Rusco insulated steel door delivers all three marks of peak steel door performance: energy efficiency, security and durability. Two 18 or 22 gauge steel skins are locked together by a vinyl V-groove interlock around a rigid polyurethane core, so the skins never touch and there is no glue to fail. Hung in a 16 gauge galvanized adjustable Flex-Fit frame with a kerf for compression weatherstripping, it adjusts to fit the existing opening for a tight, secure and efficient replacement.

✓ Adjustable steel frame fits the existing opening, with a separate adjustable stop for a precise, tight seal

✓ R-13.5 foamed-in-place polyurethane core; U-rating of .12 (slab only)

✓ Patented Thermo Break System stops conducted heat loss through the door

✓ 9 gauge hinge reinforcing plates, with hinge screws locked into steel at frame and door

AT A GLANCE	
Door Skins	18 or 22 ga. cold-rolled steel, zinc-coated, primed
Core	Foamed-in-place polyurethane, 2.3 to 2.7 lb/ft³
Insulation	R-13.5; U-rating .12 (slab only)
Thermal Break	Patented vinyl V-groove interlock
Frame	16 ga. galvanized steel, adjustable Flex-Fit with kerf
Hinges	1½ pair 4" x 4½" steel, 26D

1 ENERGY EFFICIENCY

- Steel conducts heat and cold, so conventional insulated steel doors still lose heat through the skin. The Patented Thermo Break System stops conducted heat loss
- Two steel skins locked together by a vinyl V-groove interlocking system for a positive thermal break; the skins never come in direct contact
- Foamed-in-place polyurethane core, 2.3 to 2.7 lb/ft³ density, bonded to all inside facings, R-factor 13.5
- U-rating of the slab only is .12; U-rating of a non-thermally broken hollow metal frame is .21, tested and certified by NCTL for Energy Star

2 SECURITY

- Outer skins: 18 or 22 gauge cold-rolled steel for flatness and stability
- 14 gauge galvanized steel stabilizing member around the complete door perimeter, surrounded by the vinyl thermal break extrusion
- Hinge locations reinforced with 9 gauge steel plates; reinforcing plates at lock and deadbolt locations
- Hinge screws lock into steel at both frame and door; with a deadbolt lock, virtually burglarproof

3 DURABILITY

- Most steel doors simply glue the metal outer skins to a thin interior frame; Rusco skins are locked in place by the V-groove interlock, with no glue to delaminate
- Guaranteed not to come apart under normal use

4 CONSTRUCTION (SEE FIG. 2)

A. Door skins of 18 or 22 gauge cold-rolled steel, zinc-coated and primed over the entire outer surface

B. Rigid insulating core of foamed-in-place polyurethane, bonded to all inside facings

C. Returned facing panels locked into place with a rigid vinyl extrusion, providing a positive thermal break (Patented Thermo Break System)

D. 14 gauge galvanized steel stabilizing member around the complete door perimeter

E. Snap-in extruded vinyl edge cap

F. Adjustable vinyl sill sweep with extended inner leg seals onto the thermally broken aluminum threshold

5 HARDWARE & ACCESSORIES

- 1½ pair 4" x 4½" steel hinges, 26D, fastened to steel stabilizing members and steel frame reinforcing plates
- 3" x 18" wood lock block
- Prepared for standard locksets
- Compression-type weatherstripping on all sides, with kerf for weatherstrip
- Completely thermally broken aluminum threshold
- Adjustable vinyl sill sweeps with extended inner leg for a tight seal
- Complete installation materials in steel frame kit
- **Note:** locking hardware not included

6 ADJUSTABLE FLEX-FIT FRAME WITH KERF

- 16 gauge galvanized primed steel adjustable Flex-Fit frame with kerf
- 9 gauge steel reinforcing plates at all hinge locations
- Reinforcing plate at lock and deadbolt locations
- Option: hollow metal frame with kerf, adjustable encapsulating frame or replacement steel R-Frame with steel kerf stops

7 FINISH COAT

- Door skins painted with polyester powder paint, electrostatically applied and baked for 20 minutes at 350°F
- Paint colours selected from manufacturer's standard range; special orders available for architectural requirements

8 OPTIONS

- 4" x 4" steel hinges available for wood frames and replacement steel frames
- ADA sills

9 WARRANTY

- The entire door is guaranteed for one (1) year from the date of delivery to the site. The guarantee covers the entire door against defects in design, material and workmanship
- The contractor agrees to furnish, free of charge, F.O.B. ordering agency, any part or parts, which must be of a design that permits ready installation without special tools
- The contractor agrees to furnish, free of charge, F.O.B. ordering agency, a complete replacement door when the defective part or parts cannot be readily installed without the use of special tools
- All replacements are made by the contractor, and the ordering agency will not negotiate with any party other than the contractor to obtain replacements
- Exceptions: normal wear and tear; uniform fading of colour; improper maintenance; abuse and carelessness

10 CLEANING & CARE

- Wash door and steel frame with a mild, non-abrasive soap and a soft cloth
- Rinse door and frame with water and dry with a chamois, making sure there are no water spots
- Apply a good car wax as directed by the wax manufacturer, no more than twice per year