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**Terrace Doors**  
 • Series 900

**SECTION A7**

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Project: Private Condominium Complex, Los Angeles, CA

Due to the diversity in state/provincial, local, and federal laws and codes that govern the design and application of architectural products, it is the responsibility of the individual architect, owner, and installer to ensure that products selected for use on projects comply with all applicable building codes and laws. U.S. Aluminum exercises no control over the use or application of its products, glazing materials, and operating hardware, and assumes no responsibility thereof.

The rapidly changing technology within the architectural aluminum products industry demands that U.S. Aluminum reserve the right to revise, discontinue or change any product line, specification or electronic media without prior written notice.

**NOTE:** Dimensions in parentheses ( ) are millimeters unless otherwise noted.

Other metric units shown in this publication are:  
 m - meter                      Kg - kilogram  
 Pa - pascal                      KPa - kilopascal  
 MPa - megapascal

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# ENTRANCES

## Specifications

## Terrace Doors • Series 900

### SECTION 08 11 16 ALUMINUM DOORS AND FRAMES

#### I. GENERAL DESCRIPTION

Work Included: The glazing contractor shall furnish all necessary materials, labor, and equipment for the complete installation of aluminum terrace doors and framing as detailed on the drawings and specified herein.

Work Not Included: A structural support of the framing system, wood framing, structural steel, masonry, and interior trim.

#### QUALITY ASSURANCE

For purposes of designating type and quality for work in this section, drawings and specifications are based on U.S. Aluminum Series 900 Terrace Door, 3-3/4" (95.3) vertical face dimension, 2-1/4" (57.2) depth and 1" x 4-1/2" (25 x 114.3) frame for moderate traffic applications. When substitute products are to be considered, supporting technical literature, samples, and drawings must be submitted 10 days prior to bid date in order to make a valid comparison of the products involved.

#### PERFORMANCE

Door rating shall be no less than HC40 as tested in accordance with AAMA 101/CSA-A440-05.

**Air Infiltration:** Out-Swing and In-Swing Doors: When closed and locked, the test specimen shall be tested in accordance with ASTM E 283 and shall not exceed 0.30cfm/sq. ft. at a test pressure differential of 6.24 psf.

**Water Resistance:** For Out-Swing Doors: When closed and locked, the test specimen shall be tested in accordance with ASTM E 331 and ASTM E 547. There shall be no uncontrolled leakage as defined in the test method at a static air pressure differential of 12 psf. (single and pairs)

For In-Swing Doors: When closed and locked, the test specimen shall be tested in accordance with ASTM E 331 and ASTM E 547. There shall be no uncontrolled leakage as defined in the test method at a static air pressure differential of 6.24 psf. (single and pairs).

**Uniform Design Load Test:** When closed and locked, the test specimen shall be tested in accordance with ASTM E 330 at a minimum static air design pressure of 40 psf applied in a positive and negative direction.

**Uniform Load Structural Test:** When

closed and locked, the test specimen shall be tested in accordance with ASTM E 330 at a minimum static air design pressure of 60 psf (one and a half times design load) applied in a positive and negative direction.

**Thermal Resistance Test:** When tested in accordance with AAMA 1503, the conductive thermal transmittance (U-factor) shall not be more than .59 BTU/hrs/sf/°F (Out-Swing) .60 BTU/hrs/sf/°F (In-Swing).

**Condensation Resistance Test (CRF):** When tested in accordance with AAMA 1503, the condensation resistance factor (CRF) shall not be less than 61 (Out-Swing Door and frame) or 63 (In-Swing Door and frame).

**Acoustical Performance:** When tested to AAMA Specification 1801 and in accordance with ASTM E 90 the STC (Sound Transmission Class). Rating shall be no less than 34.

AAMA HC40 Rating  
Testing Procedures -  
AAMA/DWMA/CSA 101/I.S.2/  
A440-0.8 - Laboratory Performance  
Testing.  
AAMA 502-08 - Newly Installed  
Fenestration Products.  
AAMA 511-08 - Installed Fenestration  
Products After 6 Months.

#### II. PRODUCT MATERIALS

Door members shall be extruded architectural aluminum 6063-T5 alloy and temper. Major portions of all door sections, except glazing beads, shall be nominal .125" (3.2). Wall thickness of frame members shall be nominal .125" (3.2). Screws, nuts, washers, bolts, rivets, and other fastening devices shall be aluminum, stainless steel or other non-corrosive materials.

#### DOOR AND FRAME CONSTRUCTION

Door stiles, rails, and frame members shall be tubular sections joined by two polyamide glass reinforced nylon 6/6 struts mechanically crimped in raceways in exterior and interior extrusions. Door corners are to be accurately joined at corners with corner keys and crimped. The weather seals shall be open cell, urethane foam core, bonded to a U.V. stabilized polyurethane liner. Doors shall have snap-in glass stops with E.P.D.M.

glazing gasket on one side, and Tremco Polyshim II glazing tape or equal on the other. No exposed screws shall be permitted except for anchoring.

#### HARDWARE \*

Multi-point locking hardware shall be as recommended by manufacturer (*Specify finish*). There are 3 styles available to choose from: Estate, Heritage, and Manor. Door leaves shall have 1-1/2 pairs (minimum) of mortised 4-1/4" (108) long butt hinges with non-removable stainless steel pins, painted to match door finish. If hardware is to be furnished by others, templates and physical hardware must be submitted prior to any fabrication being started.

#### FINISH

All exposed framing surfaces shall be free of scratches and other serious blemishes. Aluminum extrusions shall be given a caustic etch followed by an anodic oxide treatment to obtain. (*Specify one of the following*)...

- \_\_\_ #11 Clear anodic coating
- \_\_\_ #22 Dark Bronze anodic coating
- \_\_\_ #33 Black anodic coating

A Fluoropolymer paint coating conforming with the requirements of AAMA 2605. Color shall be: (*Specify a U.S. Aluminum standard color*).

#### III. EXECUTION INSTALLATION

All items under this heading shall be set in their correct locations as shown in the details and shall be level, square, plumb, and at proper elevation and in alignment with other work in accordance with the manufacturer's installation instructions and approved shop drawings. All joints between entrance framing and the building structure shall be sealed in order to secure a watertight installation.

#### PROTECTION AND CLEANING

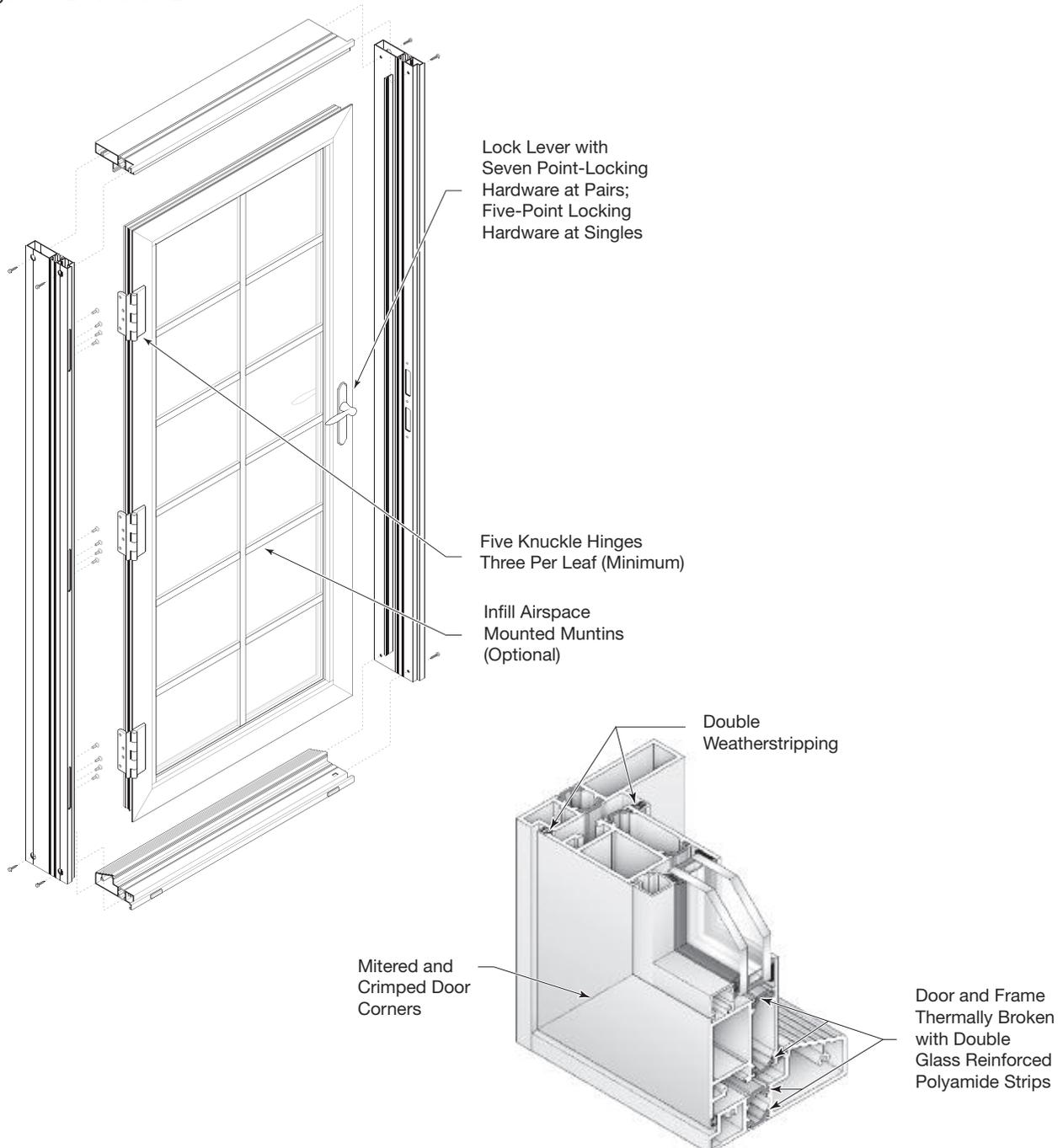
After installation the General Contractor shall adequately protect exposed portions of the aluminum entrance work from damage by grinding and polishing compounds, plaster, lime, acid, cement or other contaminants. The General Contractor shall be responsible for final cleaning.

\* Performance criteria is based on standard hardware configurations as supplied by U.S. Aluminum.

**Technical Data**

**Terrace Doors**  
 • Series 900

The Series 900 is a High Performance Terrace Door for use in condominiums, lofts, hotels, and high-rise apartments with all the benefits you are looking for in a French Door look. The Series 900 Terrace Door will withstand heavy traffic and the worst of weather conditions while maintaining it's elegant styling. The 2-1/4" (57.2) thick door with a 1" x 4-1/2" (25 x 114.3) frame features double polyamide glass strips providing superior interior to exterior thermal separation. For maximum security, the Series 900 Terrace Door includes a Seven-Point Locking Device for pairs and Five-Point Device for singles. Three each, Five Knuckle Butt Hinges with non-removable stainless steel pins per leaf complete the sturdy look and feel of the Series 900 Terrace Door. For information about our Hurricane Resistant Balcony/Terrace Doors please see pages 01-E4 thru 05-E4.

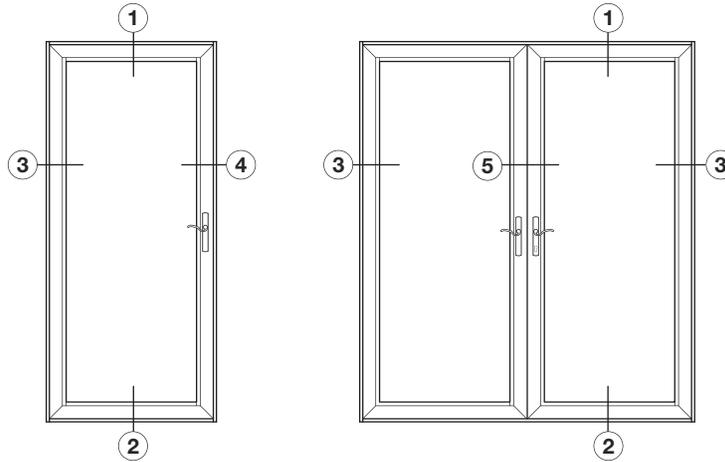


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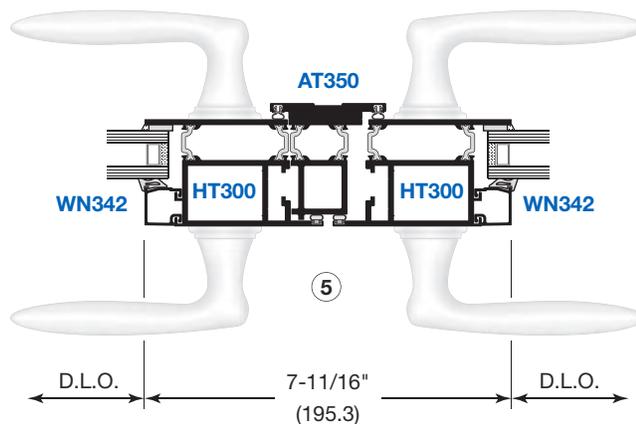
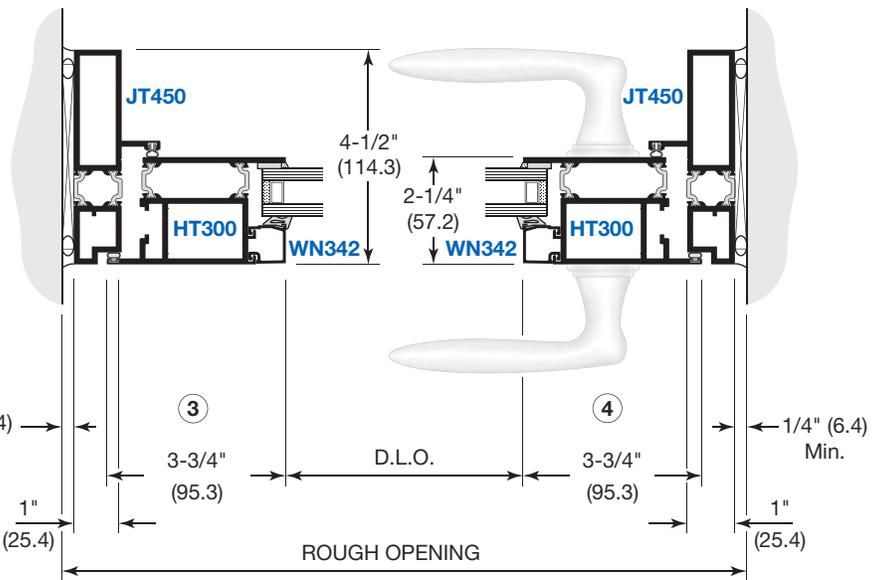
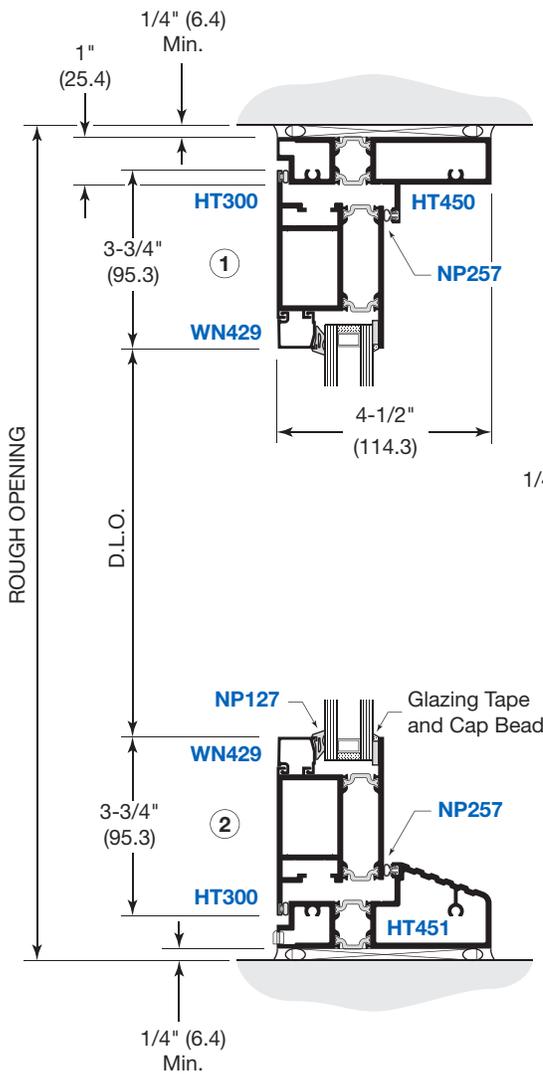
# ENTRANCES

## Typical Details

### Terrace Doors • Series 900



OUT-SWING DOOR ELEVATIONS

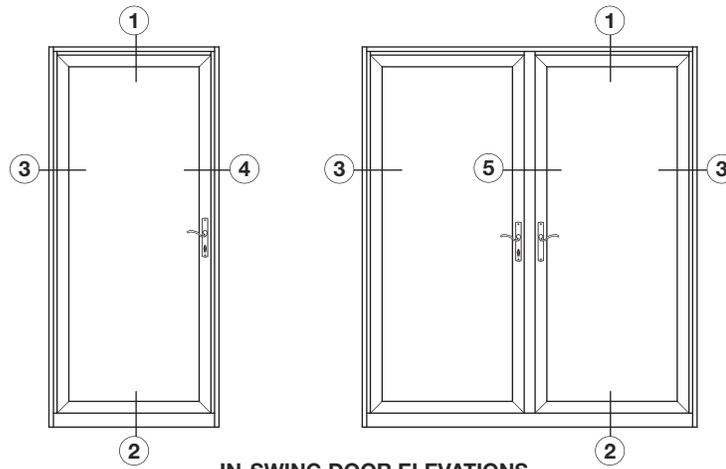


NOT TO SCALE

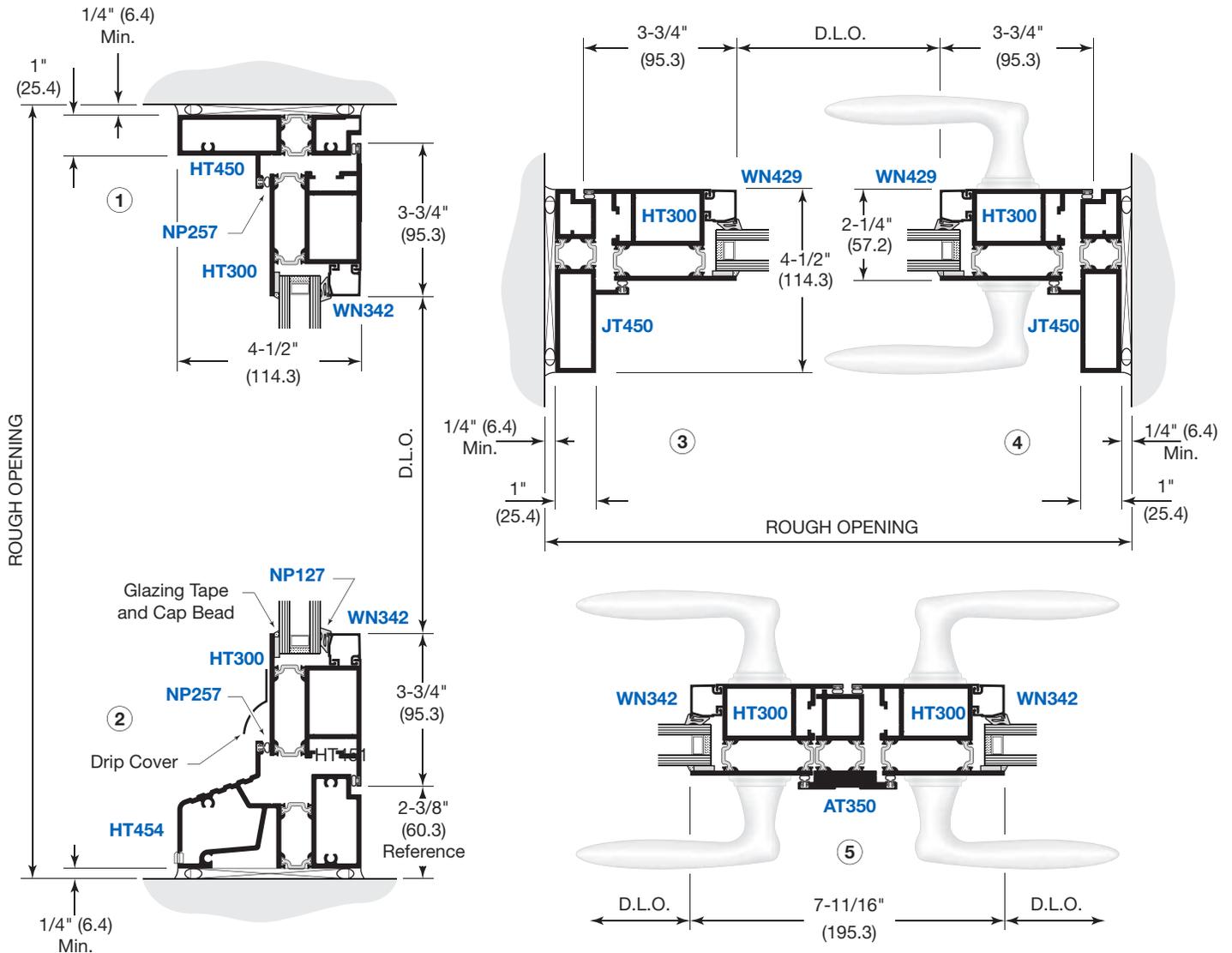
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**Typical Details**

**Terrace Doors**  
• Series 900



**IN-SWING DOOR ELEVATIONS**



NOT TO SCALE

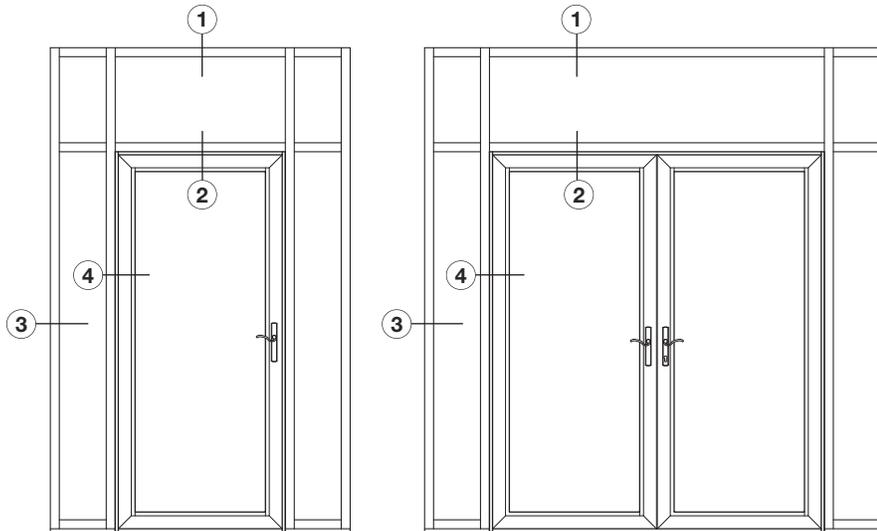
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# ENTRANCES

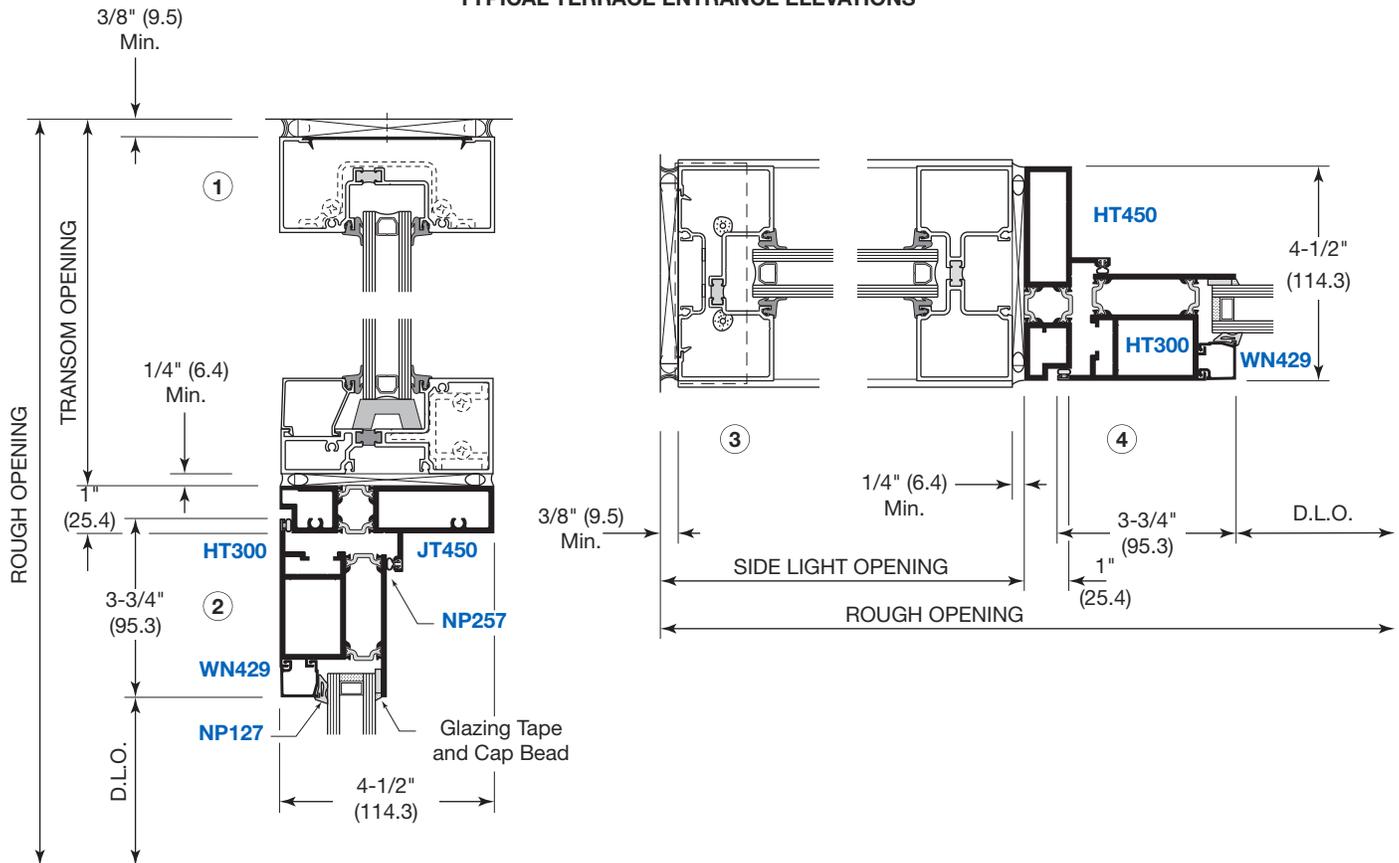
## Typical Details

### Terrace Doors • Series 900

Out-Swing Door Shown in Series IT451 Center Glaze Storefront



TYPICAL TERRACE ENTRANCE ELEVATIONS



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**Hardware**

**Terrace Doors**  
• Series 900

**LEVER HANDLE OPTIONS**



**MANOR**



**HERITAGE**



**ESTATE**

**FINISH OPTIONS**

Style	Polished Brass	Antique Brass	Polished Chrome	Satin Nickel	Antique Nickel	Polished Chrome	Oil Rubbed	Rustic Umber	White	Matte Black	Polished Chrome/Brushed Stainless	Polished Brass/Brushed Brass
MANOR	●	●	●	●	●	●	●	●	●	●		
HERITAGE	●			●							●	●
ESTATE	●	●	●	●	●	●	●	●	●	●		

**CYLINDER OPTIONS**

EXTERIOR	INTERIOR
None	None
None	Thumb Turn
None	Keyed
Keyed	None
Keyed	Thumb Turn
Keyed	Keyed

Please specify when ordering.



Key Cylinder



Thumb Turn

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