### Standard & Custom Hollow Metal Doors and Frames

- **Design Flexibility**
- **Long Term Strength & Durability**
- **Maximum Corrosion Resistance**
- **Life Safety & Security**

ASSA ABLOY, the global leader in door opening solutions
STANDARD DOOR FEATURES
• Welded Seamless Edges
• Hot Dipped Galvanized Face Sheets
• UL Rated up to 3 Hours
• Baked on Prime Paint
• 3/16” Hinge Reinforcement
• 12 Gauge Closer Reinforcement
• Available in 18, 16, 14 & 12 Gauge
• Flush Top Channels at Exteriors
• Baked Enamel Finish Available

DOOR CORES
- Steel Stiffened
- Polystyrene
- Honeycomb

DOOR ELEVATIONS
- F: Flush
- FL: Louver
- FVI: Narrow Vision
- FV: Vision Lite
- FG: Half Glass
- IG: Full Glass
- FD: Dutch Door
- IL: Full Louver
- FG4: Half Glass with 4 Lites
- FRV: Round Vision
- FHR: Half Round Vision
- FL2: Louver Top & Bottom

SOUND AND STAINLESS STEEL DOORS
STC ASSEMBLY
• Door assemblies up to STC 53
• Window assemblies up to STC 57

ALL OPENINGS INCLUDE:
• 14 Gauge Welded Frames
• 16 Gauge Welded Doors
• Compression Seals
• Magnetic Seals
• Gravity Glide Cam-Lift Hinges
• Door Bottoms
• Thresholds
• Prime Painting
• Crating for Shipment

AVAILABLE OPTIONS:
• 1-1/2 Hour UL Fire Rating
• Vision Panel Gasketing System
• Pairs with Double Acoustical Astragals
• Oversized Swinging Sound Doors
• Stainless Steel Available on All Models

STAINLESS STEEL
ALL OPENINGS INCLUDE:
• Frames Available in 16 & 14 Gauge
• Doors Available in 16 & 14 Gauge
• Stainless Steel Face Sheets
• Polystyrene Core
STANDARD FRAME FEATURES

- Pre-assembled Welded Frames
- Galvanized Steel
- Door Frames Rated up to 3 Hours
- Window Frames Rated up to 1 Hour
- 12 Gauge Reinforcement for Surface Applied Hardware
- 16, 14 & 12 Gauge Available
- Baked on Prime Paint
- 3/16” Hinge Reinforcement
- Anchors for All Wall Types & Conditions

FRAME WELDING

STANDARD WELD TYPE 1A

TYPE 1
- Standard Welded Corner Sections

Weld
- Tabs, Soffit

Continuous Fillet Weld
- Trim Faces

Finish Face Weld

TYPE A
- Standard Face of Mullion Intersections

Finish Face Welds

CUSTOM WELD TYPE 2B

TYPE 2
- Full Welded Corner Sections

Continuous Fillet Weld
- Trim Faces, Rabbets, Soffit and Tabs

Finish Face Weld

TYPE B
- Full Welded Exteriors Only

Continuous Welds
- Exterior Frames to have all Horizontal Sections Continuous Welded to Vertical Sections, including Stop Faces and Rabbets on Exterior Side

WEATHERPROOF WELDING AT EXTERIOR WINDOW FRAMES IS TO BE DONE BY THE FRAME MANUFACTURER WHEN SPECIFIED AT ADDITIONAL COST

TYPICAL FRAME PROFILES

Double Rabbet  Single Rabbet  Cased Opening  Standard Mullion  Center Glazed  Standard Glazing  Double Egress  STC Compression Seal Assembly

TYPICAL FRAME ELEVATIONS

Acoustic Window

STC Available Up to 57

4 Bay Window

Full Height Side Lite

Full Height Side Lite Either Side w/ Horizontal Mullion

Transom

Radius Frame

Single Swing

Pair Swing

Side Lite

Side Lite Either Side

Full Height Side Lite

STC Compression Seal Assembly
### ARENAS
- Staples Center - Los Angeles, CA
- L.A. Coliseum - Los Angeles, CA
- Redskins National Football League Stadium - Landover, MD
- MCI Center - Washington, DC
- Pepsi Center Arena - Denver, CO
- Pac Bell Ballpark - San Francisco, CA
- Patriots Stadium - Foxboro, MA
- Safeco Field - Seattle, WA

### HOSPITALS
- Shriners Hospital for Crippled Children - Sacramento, CA
- Natividad Medical Center - Salinas, CA
- Huntington Memorial Hospital - Pasadena, CA
- New Children's Hospital - Omaha, NE
- Del E. Webb Memorial Hospital - Sun City West, AZ
- Phoenix Children's Hospital - Phoenix, AZ
- Oklahoma Heart Hospital, Oklahoma City, OK

### MILITARY INSTALLATIONS
- The Pentagon, Renovation - Arlington, VA
- Barracks Bldgs. S20440, S20442 & S20420 - Camp Pendleton, CA
- Grissom Air Force Base - Grissom, IN
- Control Tower/Aircraft Maintenance Hangers - Miramar, CA
- Fort Hood Enlisted Barracks Complex I & II - Ft. Hood, TX
- Alter Base Civil Engineering Facility, McConnell AFB, KS
- Reception Barracks - Ft. Leonardwood, MO
- Fairchild Hall, Air Force Academy - Colorado Springs, CO

### HIGH PROFILE OWNERS
- Sony Pictures Stage #11 - Culver City, CA
- Motorola Cellular Subscriber Group - Harvard, IL
- CBS/Studio Center - Studio City, CA
- Disneyland - Anaheim, CA
- Exxon Headquarters - Houston, TX
- Legoland - Carlsbad, CA
- Polygram Records - Miami, FL
- Sun Micro Systems - San Diego, CA
- Warner Bros. Technical Operations - Glendale, CA
- Federal Express - San Francisco, CA
- Lucent Technologies - Murray Hills, NJ
- Universal Studios Hollywood - Universal City, CA
- Callaway Golf - Carlsbad, CA
- Nokia Building - San Diego, CA
- E! Entertainment Television - Los Angeles, CA
- USA Today - McLean, VA
- Sprint PCS - Kansas City, KS
- Ford Motor Corporation - Detroit, MI
- General Motors Electric Motor Testing - La Grange, IL
- Paramount Studio - Gardena, CA
- State Farm Insurance - Greeley, CO
- Aigen - Phase 2 - Thousand Oaks, CA
- TRW - Huntsville, AL
- Turner Entertainment - Atlanta, GA
- Boeing - Bldg 203 - Anaheim, CA
- Cox Communications Studio - Phoenix, AZ

### K-12 SCHOOLS
- Diamond Ranch High School - Pomona, CA
- Golden Valley High School - Bakersfield, CA
- Lynwood High School - Lynwood, CA
- New Sunnyvale High School Campus - Fresno, CA
- Palm Springs High School - 10 Buildings - Palm Springs, CA
- McDowell Mountain Elementary School - Scottsdale, AZ
- Vail Ranch Middle School - Temecula, CA

### UNIVERSITIES (CALIFORNIA)
- Physics/Astronomy Building - UC Los Angeles
- College 9 & 10 Residence/Dining hall - UC Santa Cruz
- Physical Science Building - UC Santa Barbara
- Ocean Atmosphere Research/Vaughn Hall - UC San Diego
- Oviatt Library Wings Rebuild - CSU Northridge
- Lucas School of Cinema - Performing Arts Center - USC Los Angeles

### INTERNATIONAL PROJECTS
- IMAX Theater - Mexico City, Mexico
- Jin Mao Building - 93 Story Tower - Shanghai, China
- Concert Hall - Taipei, Taiwan
- Centro Multidisciplinario - San Jose, Costa Rica
- Al Ain Etisalat Building - Dubai, UAE
- Sanyo - Tijuana B.C., Mexico
- Mitsubishi - Tijuana B.C., Mexico

### CONVENTION CENTERS
- San Diego Convention Center Expansion - San Diego, CA
- Anaheim Convention Center Enhancement - Anaheim, CA
- Moscone Civic Center - San Francisco, CA
- Convention Center South Expansion - Las Vegas, NV
- Minneapolis Convention Center - Minneapolis, MN
- Boston Convention Center - Boston, MA

### AIRPORTS
- Midway Airport - Chicago, IL
- Denver International Airport - Denver, CO
- Will Rogers World Airport Phase 2 - Oklahoma City, OK
- George Bush Intercontinental Airport - Houston, TX
- Dulles Airport - Bethesda, MD
- Airport Traffic Control Tower - Los Angeles, CA
- McCarran Airport - Las Vegas, NV
- S.F. International Airport Terminal - San Francisco, CA

### HOTELS
- TropWorld Expansion - Atlantic City, NJ
- Hyatt - McCormick Place Hotel - Chicago, IL
- Logan Airport Hilton - Boston, MA
- Ritz Carlton Hotel - Detroit, MI
- Renaissance Hotel - Oklahoma City, OK
- Marriott LAX - Los Angeles, CA
- Desert Ridge Marriott - Phoenix, AZ
- Intercontinental Hotel - Houston, TX
- Disney’s Grand Californian Hotel - Anaheim, CA