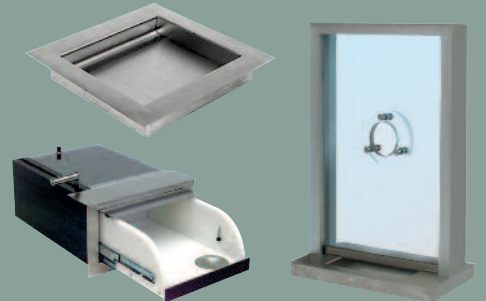# BULLET RESISTANT
TRANSACTION HARDWARE

- **Bullet Resistant Windows and Barrier Systems**
- **Service and Pass-Thru Windows**
- **Ticket and Cashier Windows**
- **Deal Trays and Shelves**
- **Speak-Thrus and Communicators**
- **Mail Slots and Package Receivers**
- **Safety and Security Mirrors**

C.R. LAURENCE COMPANY
Worldwide Manufacturer and Supplier
Glazing, Architectural, Railing, Screen, Construction, Industrial, and Automotive Supplies

US ALUMINUM

crlaurence.com
usalum.com
crl-arch.com

CUSTOM TRANSACTION WINDOWS
MANUFACTURED BY C.R. LAURENCE

STAPLES CENTER / CALIFORNIA
Home of the Los Angeles Lakers, Kings, Clippers and Sparks

Installation by Giroux Glass, Los Angeles, CA.
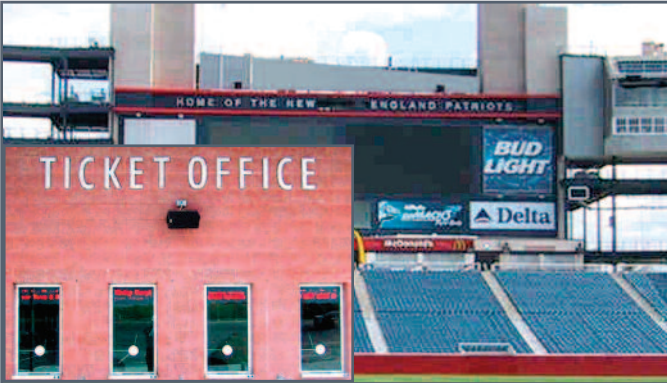
KODAK THEATRE / CALIFORNIA
Home of the Academy Awards

Installation by Model Glass, Anaheim, CA.
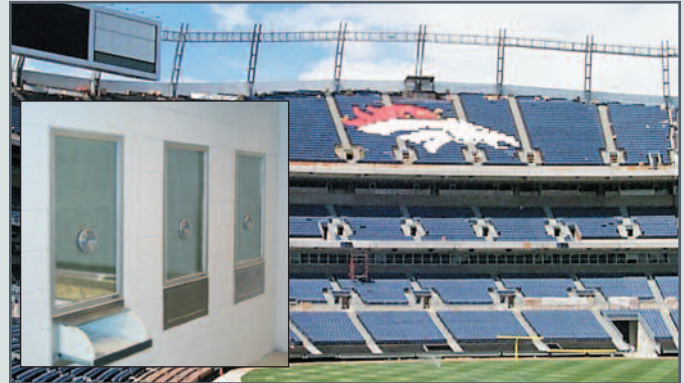
GILLETTE STADIUM / MASSACHUSETTS
Home of the New England Patriots

Installation by Tower Glass Co. Inc., Woburn, MA.

INVESCO FIELD AT MILE HIGH / COLORADO
Home of the Denver Broncos

Installation by A-1 Glass Inc., Englewood, CO.

COMERICA PARK / MICHIGAN
Home of the Detroit Tigers

Installation by Universal Glass and Metal Inc., Detroit, MI.

AT&T PARK / CALIFORNIA
Home of the San Francisco Giants

Installation by Architectural Glass & Aluminum, Oakland, CA.

OTHER VENUES NOT PICTURED: Yankee Stadium, Mets Citi Field, and KC Royals Kaufmann Stadium

PROJECTS BY CRL

MAJOR CORPORATIONS AND OTHER VENUES

- AAMCO
- American Honda Motor Co.
- Amoco
- Best Western
- Brusters
- Burger King
- Charles Schwab
- Chevron
- Circle K
- Coca-Cola
- Comcast Cablevision
- Dairy Queen
- DHL Worldwide
- Disney Red Cat Theatre
- Disneyland
- El Pollo Loco
- General Motors
- Hollywood Bowl
- Jack in the Box
- Kmart
- Knott's Berry Farm
- Kodak Theatre
- Laredo Entertainment Center
- Lexus Corp.
- McDonald's
- Oklahoma City Court House
- Sysco
- Taco Bell
- Wal-Mart
- Wendy's

See CRL's full color catalog, with over 170 pages of Transaction Hardware items including specifications. May be viewed online at **crlaurence.com**

TH10 Transaction and Security Hardware Catalog

SPORTS VENUES

- Adelphia Coliseum, TN
- American Airlines Arena, FL
- Angel Stadium, CA
- Arrowhead Stadium, MO
- AT&T Park, CA
- Beaver Stadium, PA
- Broward County Arena, FL
- Busch Stadium, MO
- Comerica Park, MI
- Crew Stadium, OH
- Devils Arena, NJ
- Dodger Stadium, CA
- Dunkin Donuts Center, RI
- Fifth Third Field, OH
- Ford Field, MI
- Fresno AAA Ballpark, CA
- Giant Center, PA
- Gillette Stadium, MA
- Grizzlies Ballpark, CA
- Heinz Field, PA
- Lexington Ballpark, KY
- Mets Citi Field, NY
- Minute Maid Park, TX
- Nationwide Arena, OH
- New Veterans Memorial Stadium, IA
- Orlando Arena, FL
- Panthers Stadium, FL
- Penn State University, PA
- Petco Park, CA
- PNC Park, PA
- Pocono Raceway, CA
- Qwest Field, WA
- Raley's Ballpark, CA
- RCA Dome, IN
- Reliant Stadium, TX
- Reser Stadium, OR
- Riverfront Stadium, NJ
- Rosenblatt Stadium, NE
- Russ Chandler Stadium, GA
- Ryder Center, FL
- Sovereign Bank Arena, NJ
- Staples Center, CA
- The Crown, OH
- Verizon Arena, NH
- Washington Ballpark, PA
- Yankee Stadium, NY
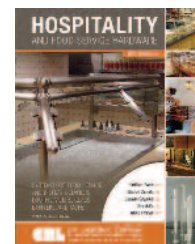
Over 200 full color pages of CRL Sneeze Guards, Partition Posts, Standoffs, Glass Barrier Systems and more. May be viewed online at **crlaurence.com**

HS12 Hospitality and Service Hardware Catalog

SPECIFICATION ASSISTANCE
EXT. 7760

BULLET RESISTANT PROTECTION LEVEL RATINGS

IMPORTANT NOTE!

Regarding UL 752 Protection Levels Assessment

Protection Levels assigned to various products listed as "Bullet Resistant" are based on testing recognized under the standards established by Underwriters' Laboratories (UL) for bullet resisting components. Protection Levels listed for options available for Exchange Windows pertain only to the option itself. A Level 1 option used with a Level 3 option will yield an overall Protection Level 1 for the lowest rated option or component.

Protection Level

PROTECTION LEVEL RATING	UL 752 BALLISTICS DESCRIPTION	TYPICAL BULLET RESISTANT GLAZING MATERIALS
LEVEL 1 M.P.S.A.	**Medium Power Small Arms (9mm)**	3/4" (19 mm) Laminated Polycarbonate 3/4" (19 mm) Glass Clad Polycarbonate* 1-1/4" (32 mm) Acrylic 1-1/4" (32 mm) Acrylic with Abrasion Resistant Coat 1-1/8" (28.5 mm) Laminated Glass 1-5/16" (33 mm) Laminated Glass
LEVEL 2 H.P.S.A.	**High Power Small Arms (.357 Magnum)**	1" (26 mm) Laminated Polycarbonate 1-3/8" (35 mm) Acrylic with Abrasion Resistant Coat 1-3/8" (35 mm) Laminated Glass
LEVEL 3 S.P.S.A.	**Super Power Small Arms (.44 Magnum)**	1-1/4" (32 mm) Laminated Polycarbonate 1-3/16" (30 mm) Glass Clad Polycarbonate ** 1-3/4" (44 mm) Glass Clad Polycarbonate 1-7/8" (48 mm) Laminated Glass
OTHER LEVELS	**(VARIES)**	1-3/16" (30 mm) Glass Clad Polycarbonate Level 4 2-1/4" (57 mm) Laminated Glass Level 4 1-7/16" (36.5 mm) Glass Clad Polycarbonate Level 5 1-7/16" (36.5 mm) Glass Clad Polycarbonate Level 7 2" (51 mm) Glass Clad Polycarbonate Level 8

*3/4" (19 mm) Glass Clad Polycarbonate Tested per HPW-TP-0500.03 (Equivalent to UL752 Level 1)
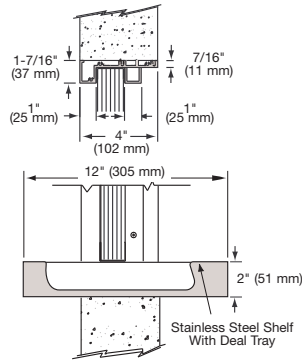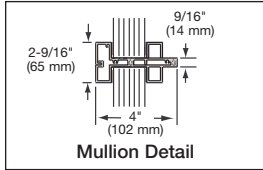**1-3/16"(30 mm) Glass Clad Polycarbonate Tested per NIJ Level IIIa (exceeds UL752 Level 3)
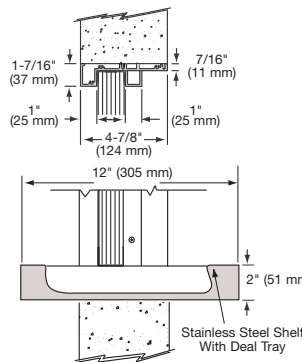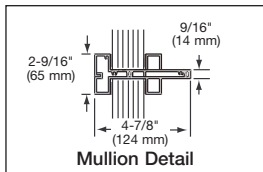
FRAMED UNITS

ALUMINUM 4" INSET FRAME

Extruded 6063 T5 aluminum alloy, for walls with a 4" (102 mm) minimum thickness. Unit easily slides into wall opening and is secured by screws through the perimeter frame. Mullion shown is used in windows with multiple lites. Choose window options from specification chart.

1-7/16" (37 mm) 7/16" (11 mm)
1" (25 mm) 4" (102 mm) 1" (25 mm)

12" (305 mm)
2" (51 mm)
Stainless Steel Shelf With Deal Tray

9/16" (14 mm)
2-9/16" (65 mm)
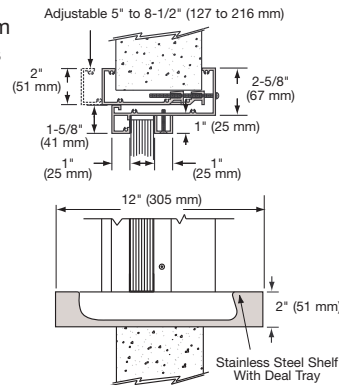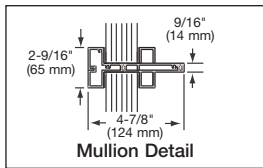4" (102 mm)
Mullion Detail

ALUMINUM 4-7/8" INSET FRAME

Extruded 6063 T5 aluminum alloy, for walls with a 4-7/8" (124 mm) minimum thickness. Unit easily slides into wall opening and is secured by screws through perimeter frame. Mullion shown is used in windows with multiple lites. Choose window options from specification chart.

1-7/16" (37 mm) 7/16" (11 mm)
1" (25 mm) 4-7/8" (124 mm) 1" (25 mm)

12" (305 mm)
2" (51 mm)
Stainless Steel Shelf With Deal Tray

9/16" (14 mm)
2-9/16" (65 mm)
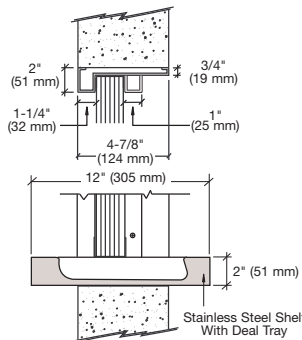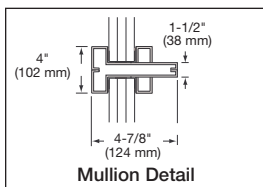4-7/8" (124 mm)
Mullion Detail

ALUMINUM CLAMP-ON FRAME

Extruded 6063 T5 aluminum alloy, for walls from 5" to 8-1/2" (127 to 216 mm) thick. Frame clamps onto wall opening with screws positioned through the inside frame into the threaded section of the outside frame. Mullion shown is used in windows with multiple lites. Choose window options from specification chart.

Adjustable 5" to 8-1/2" (127 to 216 mm)
2" (51 mm) 2-5/8" (67 mm)
1-5/8" (41 mm) 1" (25 mm)
1" (25 mm) 1" (25 mm)

12" (305 mm)
2" (51 mm)
Stainless Steel Shelf With Deal Tray

9/16" (14 mm)
2-9/16" (65 mm)
4-7/8" (124 mm)
Mullion Detail

STAINLESS STEEL 4-7/8" INSET FRAME

Type 304 stainless steel 11 gauge # 4 finish, for walls with a minimum thickness of 4-7/8" (124 mm). Corners are mitered and welded. Mullion shown is used in windows with multiple lites. Choose window options from specification chart.

2" (51 mm) 3/4" (19 mm)
1-1/4" (32 mm) 1" (25 mm)
4-7/8" (124 mm)

12" (305 mm)
2" (51 mm)
Stainless Steel Shelf With Deal Tray

1-1/2" (38 mm)
4" (102 mm)
4-7/8" (124 mm)
Mullion Detail

SPECIFICATIONS

Use This Component Menu to Design the Exchange Window of Your Choice

Window Type:
- Exterior Installation with Speak-Thru
- Interior Installation with Surround Sound
- Solid Vision Window
- Multi-Lite Window

Glazing Material:
- Any Non-Bullet Resistant Glass
- 3/4" (19 mm) Level 1 Bullet Resistant Polycarbonate
- 1-1/4" (32 mm) Level 1 Bullet Resistant Acrylic
- 1-1/4" (32 mm) Level 1 Bullet Resistant Acrylic with SAR Coating
- 1-5/16" (33 mm) Level 1 Bullet Resistant Glass
- 1" (25 mm) Level 2 Bullet Resistant Polycarbonate
- 1-3/8" (35 mm) Level 2 Bullet Resistant Glass
- 1-1/4" (32 mm) Level 3 Bullet Resistant Polycarbonate
- 1-7/8" (48 mm) Level 3 Bullet Resistant Glass
- Glass-Clad Polycarbonates

Speak-Thru Options:
- Standard Non-Bullet Resistant
- Bullet Resistant
- Electronic Non-Bullet Resistant
- Electronic Bullet Resistant
- Surround Sound (Voice through frame)

Aluminum Frames:
- Narrow Inset Type for Walls 4" (102 mm) or Thicker
- Standard Inset Type for Walls 4-7/8" (124 mm) or Thicker
- Clamp-On Type for Walls 5" to 8-1/2" (127 to 216 mm) Thick

Stainless Steel Frame:
- Standard Inset Type for Walls 4-7/8" (124 mm) or Thicker (Brushed #4 Finish)

Aluminum Frame Finishes:
- Satin Anodized
- Duranodic Bronze
- Powder Coat (choice of 184 RAL colors)
- Kynar® Paint (specify color)

Other Options:
- 12" (305 mm) Shelf
- 18" (457 mm) Shelf
- Custom Shelf
- No Shelf (for Vision Window) Separate Deal Tray
- Stainless Steel Shelf with Deal Tray
- Laminated Shelf with Deal Tray
- Drain Holes
- Weather Flap
- Sliding Panels
- Custom Options on Request

Corners and Break Metals Available
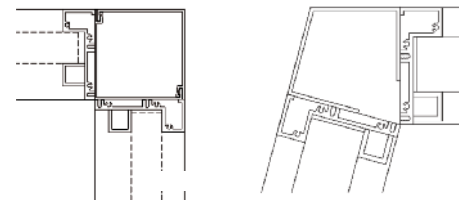
CRL TRANSACTION WINDOWS

Custom Made Per Your Design

Multi-Lite With Drop Down
and Transom

Inset Frame Window
With Plastic Glazing
and Clear View Speak-Thru

Inset Frame Multi-Lite Window
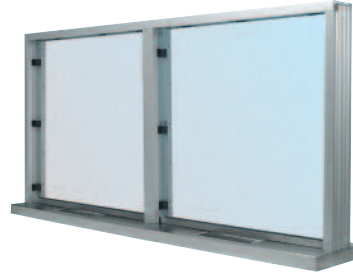With Clear Package Receiver
and Surround Sound

Inset Frame Window With
N666 Steel Speak-Thru,
12" (305 mm) Steel Shelf and Tray

Inset Frame Window Over
TD1724 Transaction Drawer

Three Sided Frame Over
Tray Inset in Counter

Interior Multi-Lite Window
With Surround Sound

Inset Frame Window
With Surround Sound,
18" (457 mm) Steel Shelf

Inset Frame Window With N555
Polished Steel Speak-Thru,
12" (305 mm) Steel Shelf and Tray

Clamp-On Frame Window With N666
Steel Speak-Thru, 12" (305 mm)
Steel Shelf and Tray

Clamp-On Frame Window With
Special Hinged Panel
Through Plastic Glazing

Inset Frame Multi-Lite Window With N666
Steel Speak-Thrus, 12" (305 mm)
Steel Shelf and Deal Trays

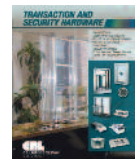# CRL BULLET RESISTANT SLIDING WINDOWS

Interior Window

- Interior Bullet
  Resistant Slider
- OX, XO, OXO,
  XOX Formats
- Can Be Built into
  Larger Barriers
- Available in
  Level 1 or Level 3

Exterior Window

- Exterior Bullet Resistant Slider
- Fully Weatherized
- OX or XO Formats
- Available in
  Level 1 Only

View **TH10** online at
crlaurence.com
for more details.

CRL PRE-ENGINEERED MINI BARRIERS

## • An Elegant Alternative for Reception Security

CRL's pre-engineered Mini Barriers provide an elegant alternative for reception security. Available in bullet resistant levels 1 or 3, Mini Barriers can be used in conjunction with deal trays or transaction drawers. The pictured unit is designed for wall openings 54" wide x 48" high (1372 x 1219 mm). Custom sizes and configurations can also be made to your specifications. Low profile aluminum extrusions and stainless steel clamps hold plastic glazing securely in place, maximizing vision area and air flow without the need for speak-thru devices or bulky hardware. Don't sacrifice aesthetics for security. Contact CRL's Transaction Hardware Department at Extension **7760** for more information on the Mini Barrier alternative.

"Natural Voice Transmission" Protective Barrier System
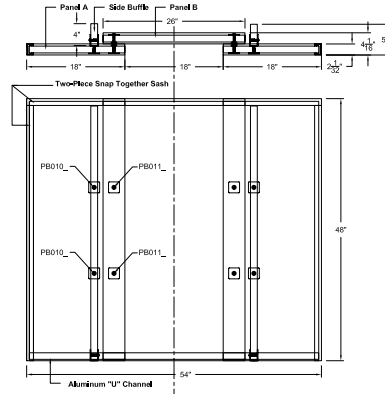
CRL TRANSPARENT BULLET RESISTANT BARRIER SYSTEMS

- • **Banks**
- • **Casino Cages**
- • **Check Cashing**
- • **Convenience Stores**
- • **Government Offices**
- • **Motels**
- • **Pharmacies**
- • **Police Stations**
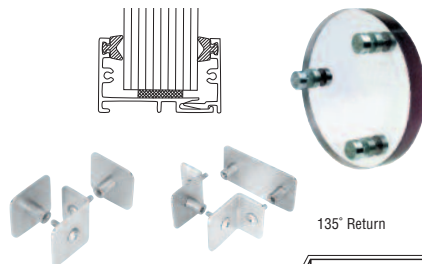
CRL engineers and fabricates complete Barrier Systems to your specifications. See CRL's TH10 Catalog for the special clamps, channels, and sash employed. Available in Acrylic (UL 752 Level 1), Polycarbonate (UL 752 Level 3), and other plastic glazing materials. Call CRL for design assistance at **(800) 421-6144** in the U.S., **(877) 421-6144** from Canada, or **(323) 588-1281** International, and ask for Ext. **7760**.
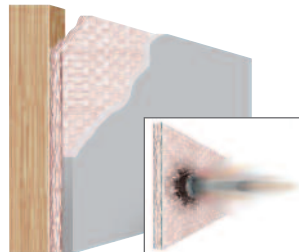
Support Buttress

Security Baffles

Security Baffles

135˚ Return

CAD101 Speak-Thru

CRL BULLET RESISTANT DOORS

- • **Stock and Custom Sizes Available With or Without Vision Lite**
- • **All UL 752 Protection Levels Available**
- • **Interior or Exterior**

Bullet Resistant Doors are fabricated from prime quality cold rolled steel, and include a baked-on rust inhibitive oxide primer. Standard components include: continuous geared aluminum hinge; surface mounted door closer; keyed cylinder lock; standard lever handles. Custom sizes and options are available on special order.

CRL BULLET RESISTANT FIBERGLASS PANELS

- • **Protective Panels for Lining Doors and Walls Surrounding Security Enclosures**
- • **Available to Protection Level 3 (.44 Magnum S.P.S.A.) and Above**
- • **Typical Applications: Bank Teller Counters, Ticket Booths, Judge's Benches, Security Enclosures, and More**

Panels Absorb Impact of Projectiles

Specifications:
Material: Fiberglass - Reinforced Structural Polyester Laminate with Fiberglass Scrim.
Finish: Panels may be covered with drywall, or clad with plastic laminate if desired.
Cutting: Can be accomplished with a Circular Saw, Table Saw, Panel Saw or Saber Saw. We recommend the use of a carbide "Grit Edge" blade for ease of cutting.
Drilling: High Speed Steel Drill Bits at a low speed.

| CAT. NO.	PROTECTION LEVEL*	PANEL THICKNESS	WEIGHT PER 96" X 48" PANEL	IMPACT VELOCITIES
BRF100	1 M.P.S.A.	1/4"	84 Lb	1250 Ft./Sec.
BRF200	2 H.P.S.A.	3/8"	110 Lb	1395 Ft./Sec.
BRF300	3 S.P.S.A.	7/16"	138 Lb	1470 Ft./Sec.

* Levels per UL 752 Ballistic Performance Requirements.

CRL BULLET RESISTANT SPEAK-THRUS

Round Speak-Thru
(Exterior or Interior)

Square Speak-Thru
(Interior only)

Clear Vision Speak-Thru
(Interior Plastic Glazing only)

N666 (Stainless Steel)
Level 3 Protection
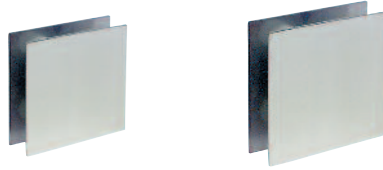
N555 (Stainless Steel)
Level 2 or 3 Protection

N777 (Stainless Steel)
Level 2 or 3 Protection

**CAD101
(Acrylic)**
Level 1 Protection

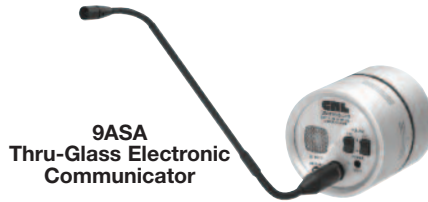**CLD103
(Polycarbonate)**
Level 3 Protection

VLF1
CRL Vision Lite Frame
for Non-Bullet
Resistant Doors

CRL ELECTRONIC COMMUNICATORS

Bullet-Resistant and Customized Units Available
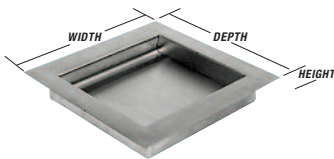
**C9ASA
Countertop Electronic
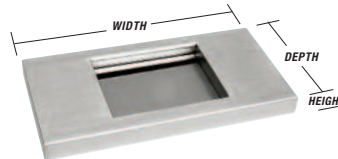Communicator**

**9ASA
Thru-Glass Electronic
Communicator**

**9WHS
Optional Wireless
Headset**

# CRL DEAL TRAYS AND STAINLESS STEEL SHELVES *Custom Sizes Available*

Non-Ricochet Bullet Resistant Deal Tray

CAT. NO.	SIZE (W x D x H)	PROTECTION*
BRT112	12" x 11" x 1-3/4"	Level 1
BRT116	16" x 11" x 1-3/4"	Level 1
BRT312	12" x 12" x 2"	Level 3
BRT316	16" x 12" x 2"	Level 3

**Stainless Steel Shelf With Non-Ricochet
Bullet Resistant Deal Tray**

"SSDT" SERIES	SIZES	PROTECTION*
Standard Widths:	24", 30", 36", 48", 60", 72"	Level 1
Standard Depths:	12", 18"	
Standard Height:	2"	
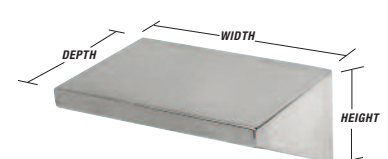
**Stainless Steel Purse Shelf
(Not Rated for Bullet Resistance)**

CAT. NO.	SIZE (W X D X H*)
SSS1208	12" x 8" x 5-1/4"
SSS1912	19" x 12" x 4"

* Rear Height

CRL TRANSACTION DRAWERS AND PACKAGE RECEIVERS
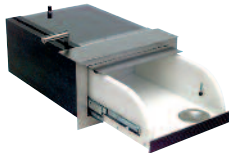
**Large Capacity
Transaction Drawer**

CAT. NO.	SIZE (W x D x H)	PROTECTION*
TD1724	17" x 24" x 9-7/8"	Level 1
TD1724TW*	17" x 24" x 9-7/8"	Level 1

*Thru-Wall Installation

**Transaction and
Cash Box Drawer**

CAT. NO.	SIZE (W x D x H)	PROTECTION*
FL4463	18" x 25" x 5"	NOT RATED
	(Includes Cash Till)	

Pass-Thru Hopper

CAT. NO.	SIZE (W x D x H)	PROTECTION*
HOP1611	16" x 9" x 11"	Level 2
HOP1611TW*	18" x 9" x 12"	Level 2

*Thru-Wall Installation

Deep Transaction Drawer

CAT. NO.	SIZE (W x D x H)	PROTECTION*
FL3246C	16" x 21" x 10"	NOT RATED

**Package Receiver with
Stainless Steel Doors**

CAT. NO.	SIZE (W x D x H)	PROTECTION*
SPR1	18-1/2" x 16" x 18-1/2"	Level 1
SPR3	18-1/2" x 16" x 18-1/2"	Level 3

**Package Receiver with
Vision Panel**

CAT. NO.	SIZE (W x D x H)	PROTECTION*
SPRVP1	18-1/2" x 16" x 18-1/2"	Level 1
SPRVP3	18-1/2" x 16" x 18-1/2"	Level 3

Clear Package Receiver

CAT. NO.	SIZE (W x D x H)	PROTECTION*
CPR1	16" x 16" x 16"	Level 1
CPR31	16" x 16" x 16"	Level 3

**Rotary Server with
Vision Panel**

CAT. NO.	SIZE (W x D x H)	PROTECTION*
RSVW1	16" x 12-1/2" x 16"	Level 1

* Protections Levels per UL 752

MORE C.R. LAURENCE PRODUCTS AND SERVICES

PASS-THRU WINDOWS

Horizontal Sliding Windows

Multi-Panel Windows

Bi-Fold Windows

Drive-Thru Windows

Walk-Up Windows

CRL Glass Railing System

- Glass Railings Designed, Tested, and Engineered by CRL
- For Commercial and Residential Applications
- Reduces Installation Time By 50%
- Supports 1/2" (12 mm), 15 mm, and 3/4" (19 mm) Monolithic Tempered Glass and 9/16", 27/32" and 1-1/16" (13.52, 21.52 and 25.52 mm) Laminated Tempered Glass
- Miami-Dade County Certified and IBC Compliant

TAPER-LOC X
DRY GLAZE RAILING SYSTEM

The installation process just got easier with CRL's innovative Horizontal TAPER-LOC™ dry glazed design. This patent pending system will reduce your installation time by more than 50%, and has been tested and engineered to meet the strictest building code requirements.
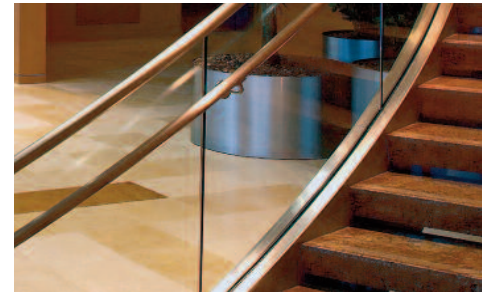
CRL Specialty Catalogs - Can be ordered, viewed or downloaded online at **crlaurence.com**

Transaction and Security Hardware **TH10**	Hospitality and Service Hardware **HS12**	Door Controls Hardware and Accessories **DC14**	Commercial Door Handles **LP11**	Architectural Hardware **AH11**

|			
Architectural Metals **AM09**	Architectural Railing Systems **HR11**	Frameless Shower Door Hardware **SD12**	Glass Bonding System **GB10**

Welcome to the C.R. Laurence Global Web Site

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- Find Products and Pricing Online Instantly
- View All Current Catalogs Online
- Technical Articles and Product Support
- Ordering and Shipping Information
- Beautiful Installation Photos With CRL Products
- CRL Locations With Addresses, Directions, Phone and Fax Numbers
- Direct E-Mail Connections to CRL Departments
- Account Policies and Credit Terms
- A Calendar of Industry Trade Shows

Visit CRL's **"Installation Image Gallery"** @ **crlaurence.com** for more beautiful glass entrance photos
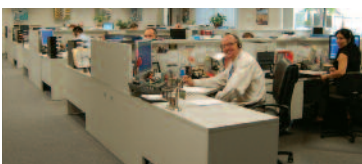
Technical Sales Department for All Your Project Requirements

C.R. Laurence Company has a Technical Sales Department to assist with design plans and application questions. Your job can be made easier with the help of CRL's Technical Sales Representatives who are trained in the newest Hardware Systems, and can offer you detailed diagrams and layout sheets. Ask for Extension **7760**.

Sweet's 13_Bullet Resistant