



**1. Product Name**

Rolling Service Doors

- DuraCoil™
- FireCoil™

Rolling Counter Shutters

- DuraShutter™
- FireCurtain™

Rolling Grille Doors

- DuraGrille™

**2. Manufacturer**

Raynor

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**3. Product Description**

**BASIC USE**

Raynor is a leading manufacturer of commercial and residential garage doors, sectional doors, rolling service doors, rolling security grilles and a wide variety of garage door openers and other accessories. Raynor products are crafted for dependable, long-lasting performance.

**Rolling Service Doors**

Raynor DuraCoil™ commercial rolling service doors are designed for demanding environments requiring maximum durability and security. Constructed of interlocking slats that wind around a barrel, rolling doors require minimal backroom, headroom and sideroom, and can easily fit in tight spaces. Each DuraCoil door includes:

- Hood
- Counterbalance system
- Curtain
- Rugged angle guides
- Bottom astragal
- Counterbalance support brackets

FireCoil™ rolling service doors are designed for facilities that require a listed fire door in a



Raynor DuraCoil™

rated fire wall. They are equipped with fusible links that release automatically at 165 degrees F (74 degrees C) to close the door. The door's descent can also be triggered by smoke and heat detectors, a building's alarm system or XP fail-safe devices. Each FireCoil door includes:

- Fusible links
- Hood
- Spring-loaded governor
- Counterbalance system
- Curtain
- Rugged angle guides
- Counterbalance support brackets

**Rolling Security Grille Doors**

DuraGrille™ rolling security grilles are constructed to offer protection against theft and vandalism while providing an unobstructed view of displays and merchandise. The grille is offered with a straight or brick pattern and presents a contemporary look. Each DuraGrille includes:

- Aluminum links and rods
- Torsion spring counterbalance system
- Aluminum guides and bottom bar
- Counterbalance support brackets

**Rolling Counter Shutters**

DuraShutter™ counter shutters are ideal for retail and commercial facilities where both

appearance and dependability are important. Each DuraShutter includes:

- Hood
- Curtain
- Torsion spring counterbalance system
- Guides
- Bottom bar
- Counterbalance support brackets

FireCurtain™ counter shutters are ideal for facilities that require a listed fire counter shutter in a rated fire wall. Like FireCoil rolling service doors, FireCurtain counter shutters are equipped with fusible links that automatically release to close the doors when triggered by high temperature, smoke and heat detectors, alarm systems or XP fail-safe devices. Each FireCurtain includes:

- Fusible links
- Centrifugal governor
- Torsion spring counterbalance system
- Curtain
- Bottom bar
- Formed guides
- Hood
- Counterbalance support brackets

**COMPOSITION & MATERIALS**

See Table 1.



Raynor FireCoil™

**TYPES**

**Rolling Service Doors**

- DuraCoil Optima - Raynor's strongest rolling service door and the best choice for high security applications, oversized openings, agricultural buildings, fire stations, thermal environments and mining, pulp and paper applications
- DuraCoil Standard - Offers the widest selection of features and options and is best suited for thermal environments and commercial, multi-tenant, service station, retail and shopping mall, transit, truck terminal, underground parking, warehouse and manufacturing service door applications
- DuraCoil Basic - The best choice for non-insulated storage applications and a good choice for most typical applications
- DuraCoil Select - For applications in corrosive environments requiring unique materials, such as cafeterias, concessions and car washes
- FireCoil Optima - For optimum fire protection and maximum security; 4 hour fire rating; 18 gauge steel construction
- FireCoil Standard - For optimum fire protection and typical security requirements; 4 hour fire rating; 20 or 22 gauge steel construction

**Rolling Grille Doors**

- DuraGrille Standard - DuraGrille Standard doors are perfect for storefront applications requiring protection against theft and vandalism



Raynor DuraShutter™

**Rolling Counter Shutters**

- DuraShutter Standard - Designed for a variety of common applications and offered with the widest selection of features and options
- DuraShutter Select - For applications requiring unique materials or performance characteristics
- FireCurtain Standard - For a variety of common applications and available with the widest selection of features and options; 3 hour fire rating
- FireCurtain Select - For applications requiring unique materials or performance characteristics; 3 hour fire rating; available in stainless steel

**SIZES**

See Table 2 for standard size information. Consult Raynor if special sizes are required.

**COLORS, FINISH**

See Table 2.

**ACCESSORIES, UPGRADES**

**DuraCoil**

- 187 ArmorBrite colors for powder coating Raynor door components (curtain slats, bottom bars, guides, hoods and headplates)
- High cycle torsion springs or FeatherLite™ Weight Counterbalance System for heavy use applications

TABLE 1 COMPOSITION, MATERIALS

Model	Slat Materials	Slat Profiles	Guide Materials	Mounting	Configurations	Operation	Counterbalance System
DuraCoil Optima	18 gauge steel	Flat, large contour, insulated flat	Structural steel	Interior, exterior	Single door, door-behind-a-door	Hand chain, hand crank, electric motor	Torsion spring (standard or high-cycle), FeatherLite weight counterbalance
DuraCoil Standard	22 gauge steel	Flat, large contour, small contour, insulated flat, perforated flat	Structural steel	Interior, exterior	Single door, door-behind-a-door	Manual, hand chain, hand crank, electric motor	Torsion spring (standard or high-cycle), FeatherLite weight counterbalance
	20 gauge steel 24 gauge steel	Flat, insulated flat					
DuraCoil Basic	24 gauge steel	Flat	Roll-formed steel	Interior, exterior	Single door	Manual, hand chain, hand crank, electric motor	Torsion spring system
DuraCoil Select	22 gauge stainless steel	Flat, insulated flat, perforated flat	Structural steel, stainless steel, aluminum	Interior, exterior	Single door, door-behind-a-door	Manual, hand chain, hand crank, electric motor	Torsion spring (standard or high-cycle), FeatherLite weight counterbalance
	20 gauge stainless steel 0.04 gauge aluminum 0.05 gauge aluminum						
FireCoil Optima	18 gauge steel	Flat, large contour	Structural steel	Interior, exterior	Single door	Hand chain, hand crank, electric motor	Torsion spring (standard or high-cycle)
FireCoil Standard	22 gauge steel	Flat, large contour, small contour	Structural steel	Interior, exterior	Single door	Manual, hand chain, hand crank, electric motor	Torsion spring, tube motor (standard or high-cycle)
	20 gauge steel						
DuraShutter Standard	22 gauge steel	Flat, perforated flat	Steel	Interior, exterior	Single door, integral frame	Manual, hand crank, electric motor	Torsion spring, tube motor
DuraShutter Select	0.05 gauge aluminum	Flat	Stainless steel, aluminum	Interior, exterior	Single door, integral frame	Manual, hand crank, electric motor	Torsion spring, tube motor
	22 gauge stainless steel 22 gauge steel						
FireCurtain Standard	22 gauge steel	Flat	Steel	Interior, exterior	S.S. integral frame Single door, integral frame	Manual, hand crank, electric motor	Torsion spring, tube motor
FireCurtain Select	22 gauge stainless steel	Flat	Stainless steel	Interior, exterior	Single door, integral frame	Manual, hand crank, electric motor	Torsion spring, tube motor
	22 gauge steel				Integral frame		

Model	Material	Grille Construction	Guides Materials	Mounting	Configurations	Operation	Counterbalance System
DuraGrille	Aluminum	5/16" (7.9 mm) aluminum rods with interlocking aluminum links	Aluminum	Interior, exterior	Single door, door-behind-a-door	Manual, hand chain, hand crank, electric motor	Torsion spring (standard or high-cycle)

- Headplate cover to protect door mechanism from dirt and grime while presenting an attractive, finished appearance
- Vision panels to allow light transmission and visibility
- Pedestrian doors to provide convenient entry and help to minimize energy loss
- Choice of 5 slat styles
- PowerHoist™ operators for jackshaft operation
- Motor covers to reduce noise and provide a finished appearance
- Control stations, photoelectric eyes and remote activation devices to meet specific design requirements
- Hood weathersel, header brush seal, vinyl guide seal and brush guide seal to minimize air infiltration

TABLE 2 SIZES, COLORS, FINISHES

Model	Maximum Sizes	Colors/Finishes
DuraCoil Optima	Widths to 40' (12.2 m), heights to 30' (9.1 m)	Gray, tan, galvanized, 187 ArmorBrite colors
DuraCoil Standard	Widths to 30' (9.1 m), heights to 30' (9.1 m)	Gray, tan, white, galvanized, 187 ArmorBrite colors
DuraCoil Basic	Widths to 14' (4.3 m), heights to 14' (4.3 m)	Gray, tan
DuraCoil Select	Widths to 26' (7.9 m), heights to 30' (9.1 m)	Stainless steel #4, clear anodized
FireCoil Optima	Widths to 28' (8.5 m), heights to 26' (7.9 m)	Gray, tan, galvanized, 187 ArmorBrite colors
FireCoil Standard	Widths to 20' (6.1 m), heights to 26' (7.9 m)	Gray, tan, white, galvanized, 187 ArmorBrite colors
DuraShutter Standard	Widths to 20' (6.1 m), heights to 8' (2.4 m), maximum 120 ft <sup>2</sup> (11.1 m <sup>2</sup> )	Gray, 187 ArmorBrite colors
DuraShutter Select	Widths to 20' (6.1 m), heights to 8' (2.4 m), maximum 120 ft <sup>2</sup> (11.1 m <sup>2</sup> )	Stainless steel #4, clear anodized
FireCurtain Standard	Widths to 12' (3.7 m), heights to 8' (2.4 m)	Gray, 187 ArmorBrite colors
FireCurtain Select	Widths to 12' (3.7 m), heights to 8' (2.4 m)	Stainless steel #4
DuraGrille	Widths to 35' (10.7 m), heights to 24' (7.3 m)	Mill, clear anodized, bronze anodized

**FireCoil**

- Choice of 3 slat styles
- 187 ArmorBrite colors for powder coating Raynor door components
- Variety of cylinder or slide-bolt lock options
- Brush guide and header seal to reduce smoke infiltration
- QuickTest™ chain hoist/fire door release system eliminates professional service calls to reset door

- Eclipse tube motor, which is concealed inside the barrel assembly
- PowerHoist operators for jackshaft operation
- Motor covers to reduce noise and provide a finished appearance

- Hand crank operation

**FireCurtain**

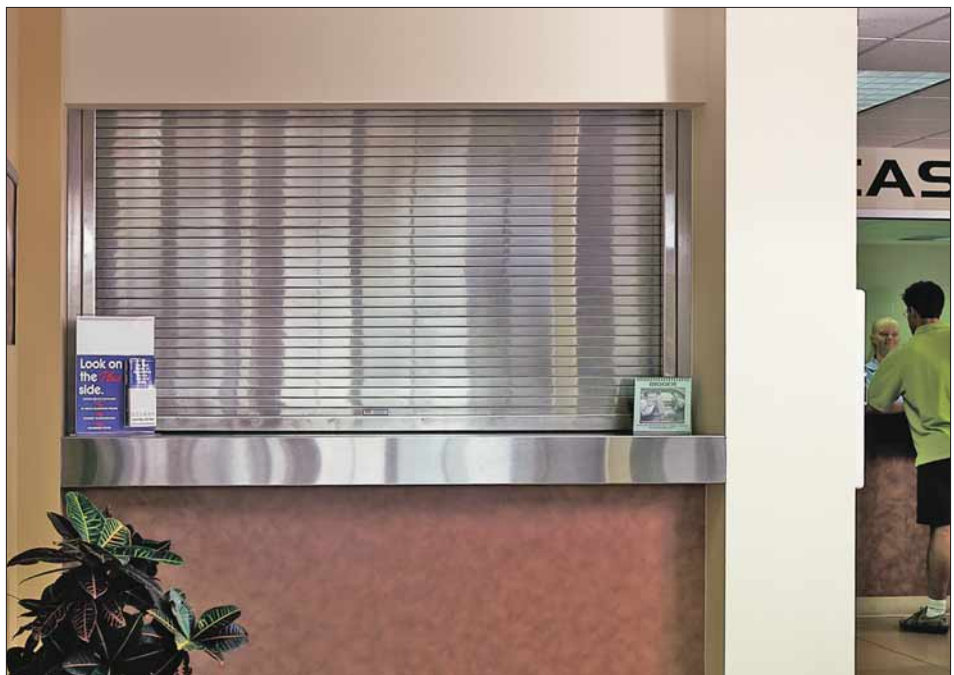
- 187 ArmorBrite colors
- Frequent-test disconnect lever to allow for code-required testing and resetting of fire release mechanism

**DuraGrille**

- 6" (152 mm) center-to-center link spacing for increased security protection
- Anodized finishes for increased durability and bright appearance
- Curtain hood to provide sleek, finished look
- Headplate cover to protect door mechanism from dirt and grime while presenting an attractive, finished appearance
- PowerHoist™ operators for jackshaft operation
- Control stations and remote activation devices
- Motor covers to reduce noise and provide a finished appearance
- Manual crank and manual chain operation

**DuraShutter**

- 187 ArmorBrite colors
- Brush guide or header seal to increase energy efficiency
- Choice of slip-in or built-in integral frames



Raynor FireCurtain™



Raynor DuraGrille™

- Fire-rated pressure-laminate countertops available in a variety of styles and colors
- Choice of slip-in or built-in integral frames
- Smoke and heat detectors
- FireEclipse tube motor, which is concealed inside the barrel assembly
- Hand crank operation
- XP release devices for fail-safe door release in the event of power loss
- FireShield release to ensure that a door equipped with FireEclipse tube motor will close in the event of a power failure
- Electric, thermal or manual release

**4. Technical Data**

**APPLICABLE STANDARDS**

ASTM International (ASTM) - ASTM A653/A 653M Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process

British Standard (BS) - BS-476 Fire Resistance Tests

International Organization for Standardization (ISO) - ISO-3008 Fire resistance tests - Door and shutter assemblies

**APPROVALS**

California State Fire Marshall (CSFM)

FM Global (Factory Mutual)

Underwriters Laboratories, Inc. (UL)

Underwriters' Laboratories of Canada (ULC)

**FIRE PERFORMANCE**

FireCoil doors comply with UL, FM, CSFM, ISO-3008, ULC and BS-476 requirements for 4 hour, 3 hour, 1 1/2 hour and 3/4 hour ratings.

FireCurtain doors comply with UL, ULC, FM and CSFM requirements for 3 hour, 1 1/2 hour and 3/4 hour ratings.

**5. Installation**

**PREPARATORY WORK**

Deliver products in manufacturer's original, unopened, undamaged containers with identification labels intact. Store materials protected from exposure to harmful environmental conditions and at temperature and humidity conditions recommended by the manufacturer.

Verify that site conditions are acceptable for installation. Do not proceed with installation until unacceptable conditions are corrected.

**METHODS**

Every Raynor door is installed by a trained, experienced Raynor professional.

**BUILDING CODES**

Installation must comply with the requirements of all applicable local, state and federal code jurisdictions.

**6. Availability & Cost**

**AVAILABILITY**

Products are available from over 600 authorized dealers serving North America and 50 countries worldwide. Dealers can be located by visiting Raynor's online dealer locator at [www.raynor.com](http://www.raynor.com).

**COST**

Consult Raynor for detailed pricing information.

**7. Warranty**

Warranty terms and conditions vary by product. Consult Raynor for complete warranty details.

**8. Maintenance**

To maintain the warranty, consult Raynor for complete maintenance details.

**9. Technical Services**

Detailed product information is available online at [www.raynor.com](http://www.raynor.com). Technical assistance, including more detailed information, product literature, test results, project lists, assistance in preparing project specifications and arrangements for application supervision, is available by contacting Raynor.

**10. Filing Systems**

- Reed First Source®
- First Source CAD
- MANU-SPEC®
- Additional product information is available from the manufacturer upon request.