



2011 PRODUCT DATABOOK

ARCHITECTUAL DATA - DEALER PRICING - PRODUCT INFORMATION



STANDARD SERVICE DOORS

MODEL: SSD

Guaranteed Quality Since 1973

BASIC INFORMATION

MADE IN THE USA



QUALITY

KRDOORS, INC. sources the highest quality materials and exacts superior workmanship in order to provide an unbeatable combination of durability and efficiency with the most simplistic operation. Our success has been built on the consistency in which we provide dependable quality products.

TYPES OF OPERATIONS

KRD offers a wide range of operation options to suit your specific needs. Those available include; hand chain, manual push-up, hand crank, and motor operated doors.

CURTAIN

Interlocking steel slats roll-formed from commercial quality hot-dipped galvanized (G-90) steel per ASTM A-653. 24 Gage steel is standard. Doors exceeding 16'0" may require 22 gage steel. Slat designs from large curved slat, large flat slat, perforated large slat, and small flat slat.

GUIDES

Guides consists of roll-formed 10 gage galvanized (G-90) Steel U-Channel Guides 3" or 4"

BARREL

KRD offers 4 1/2" minimum diameter barrels engineered to deflect not more than .03" per foot of width. Torsion spring assembly consists of oil-tempered, helical torsion springs, grease packed and mounted on a continuous steel torsion shaft to counter balance the weight of the curtain.

DESIGNED FOR MAXIMUM SPACE SAVING

The upward coiling action of KRDOORS minimizes the space required for door operation. When fully open the door will not inhibit wall space, use additional overhead area, or interfere with the interior of the building.

INSTALLATION

KRD products have been specifically engineered to ensure ease of installation without the need for special equipment. KRD offers continuous mounting angle construction along with fully assembled door curtains, counter-balance assemblies and other components which will significantly reduce installation time and expensive field labor. Full installation instructions and attachment hardware are furnished with each door.



Standard Flat Slat Service Doors



Standard Service Doors for Warehouse Applications



Custom Powder Coated Standard Service Doors

SAFETY, SAFETY, SAFETY



PROUD MEMBERS



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A True Manufacturer of Rolling Steel and Aluminum Products

Since 1973

www.krdoors.com

CA Lic. # 711394

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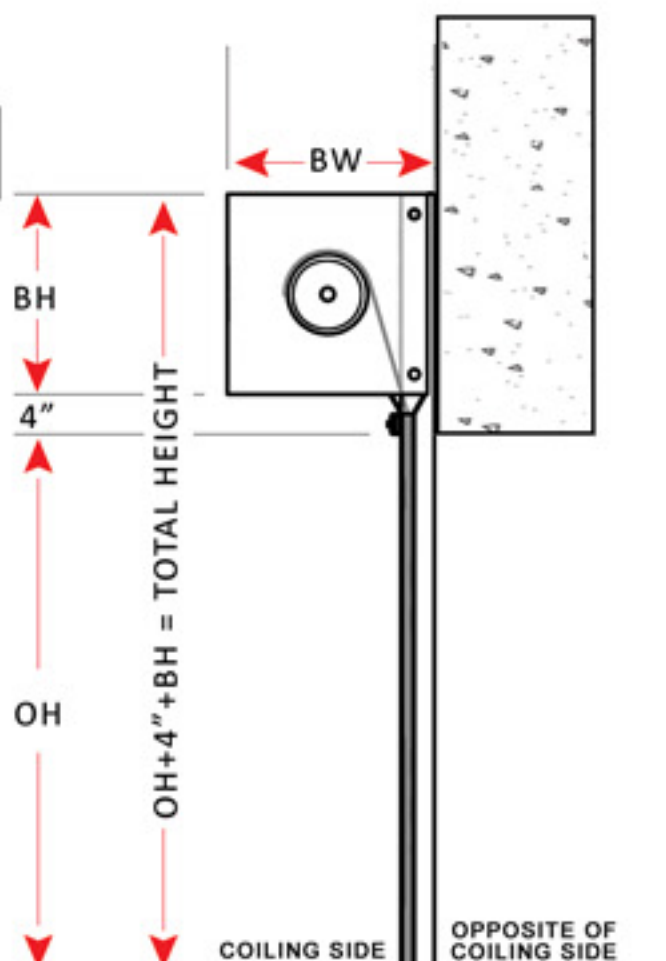
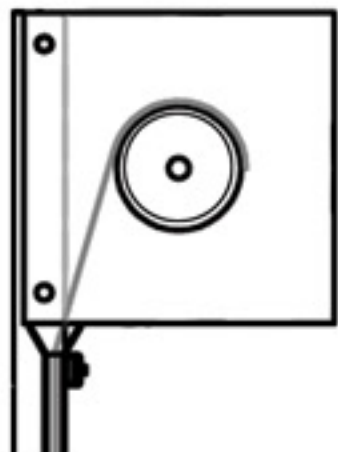
MODEL: SSD KRD STANDARD SERVICE DOORS



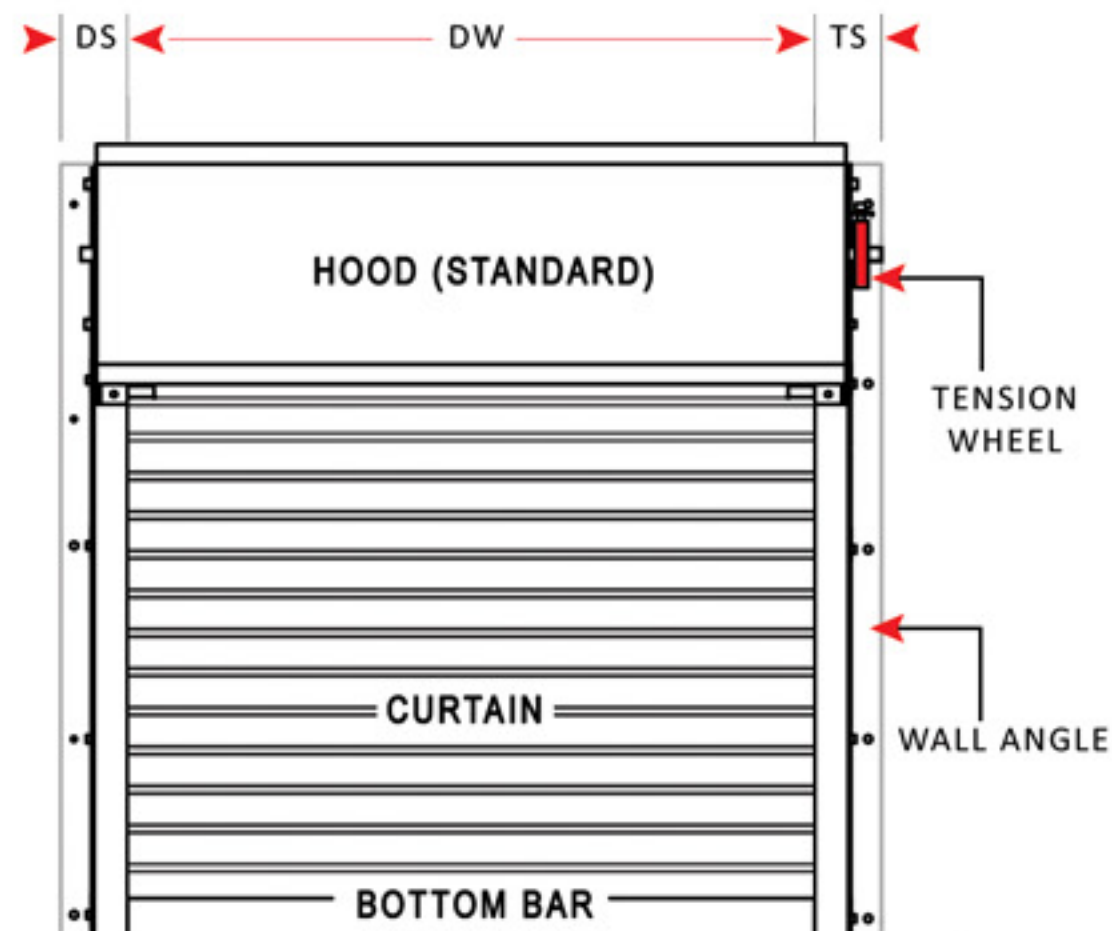
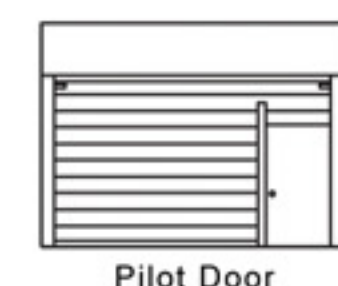
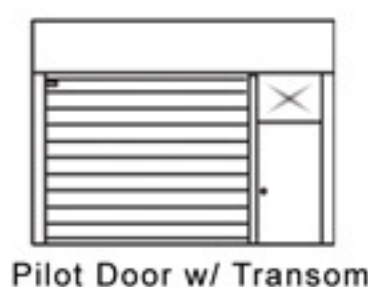
CLEARANCES

BRACKET PLATE

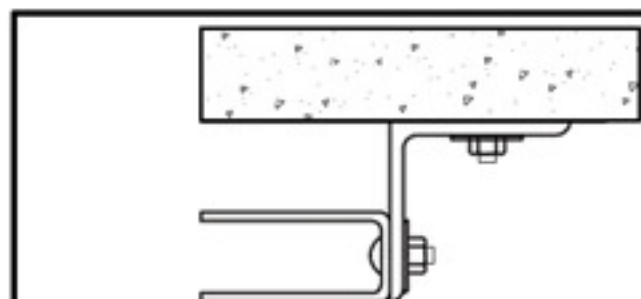
HEIGHT	BRACKET HEIGHT
3-6ft.	10"
7-10ft.	12"
11-14ft.	14"
15-20ft.	16"



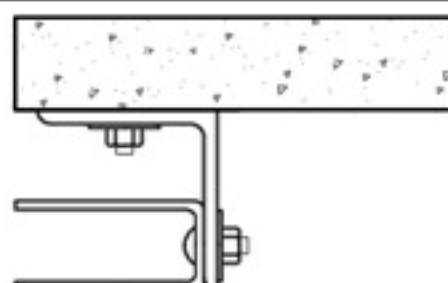
MANUAL PUSH-UP
OPERATION
(Maximum of 80 Sq./Ft.)



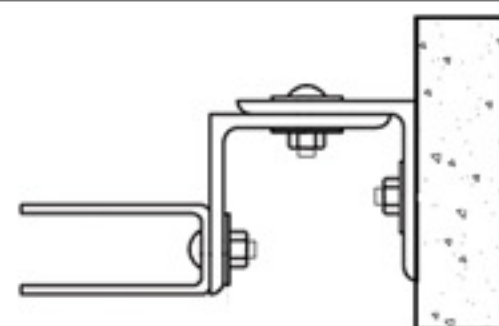
GUIDE DETAIL



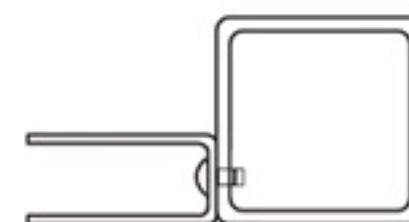
"Z" GUIDE MOUNT



"E" GUIDE MOUNT



BETWEEN JAMB (ANGLE)



TUBE MOUNT

OPERATIONS

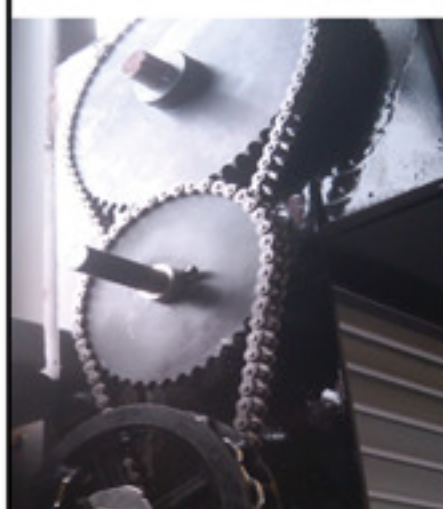
STANDARD DUTY



MEDIUM DUTY



HEAVY DUTY



GALVANIZED

Curtain, guides, bottom track, door stops, slide locks shall be galvanized finish.

PAINTED

Bracket plates, support tubes and barrel shall be painted black or grey primer. Tension wheels shall be painted red. Custom colors are available upon request, please contact factory for pricing details.

We proudly use **TIGERcolor** visit www.krdoors.com for our color charts.

FINISHES

OPTIONS



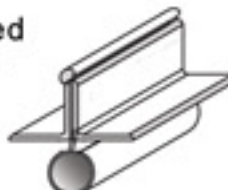
Curved Slat



Flat Slat



Perforated Slat



Double Angle
w/ Bulb Astragal



Guide
w/ Vinyl Strips



Curved Slat
Profile



Flat Slat
Profile

GENERAL NOTES

Clearances are based upon standard door construction. Reduced clearances are available. Some options may require additional clearance. Architectural drawings for specific applications are available upon request. If seeking information that is not on this media, please consult factory so that we can better assist your needs.

2010 KRDOORS, INC. | KRDOORS, INC. reserves the right to change specifications without notice. refer to standard specification sheets (available upon request) for complete product information.

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KRDOORS, INC. SINCE 1973

ACCESSORIES



Manaras



LiftMaster
AWARD OF EXCELLENCE



Remote Controls



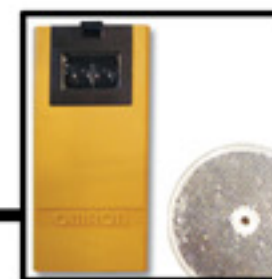
Tamper Proof Key Switch



Push Button Station



Emergency Egress



Safety Eyes



Wireless Entry



STANDARD SERVICE DOOR

MODEL: SSD

8623 S. Mettler Avenue ■ Los Angeles ■ CA ■ 90003

Toll Free: 877.883.6677 ■ Local: 323.778.6363 ■ Fax: 323.778.6339

MANUFACTURER SPECIFICATIONS: 08332 – Overhead Coiling Doors

Part 1 - GENERAL

1. Standard Service Duty ("SSD") Door Model as manufactured by KRDOORS, INC., California.
2. Quality Assurance:
 - a. Design all rolling service doors to withstand cycle life of 10,000 / 20,000 / 50,000 / 100,000 cycles.

OPERATION

1. Types of Operation:
 - a. Hand Chain: recommended for service doors over 10'0" wide and/or 8'0" high.
 - b. Push-up: not recommended for service doors over 80 sq.ft.
 - c. Manual Hand Crank: provided by gear reduction hand crank provided optionally.
 - d. Motor operated: Lift-Master/Manaras jack-shaft type electric operator
2. Mounting Options:
 - a. Face-Mount: fastened to the face of the wall opening – standard.
 - b. Between-Jamb Mounting: fastened between the jambs of the wall opening provided optionally.
 - c. Drive Side: : for hand-chain, hand-crank or motor operated service doors, the drive oriented for left-hand or right hand use facing the reference side of the door (side with exposed barrel assembly or hood).
3. RELATED WORK:
 - a. Opening preparation, access panels, finish or field painting is in the scope of the work of other sections or trades.

Part 2 – PRODUCT

CURTAIN

1. Material: SSD pattern - Interlocking steel slats roll-formed from commercial quality hot-dipped galvanized (G-90) steel per ASTM A-653. 24 Gage steel – standard. Doors exceeding 16'0" may require 22 gage steel.
2. Slat Design Type:
 - a. Flat Slat: 3" design suitable for all door sizes.
 - b. Small Flat Slat: 1 ½" suitable for doors under 18'0" wide.
 - c. Large Curved Slat: 3" design suitable for all door sizes.
 - d. Perforated Flat Slat: 3" slat punched with 1/16" diameter holes across the length of the slat, providing 31% open area (transparence) per square foot of door.
3. Finish/Color:
 - a. Gray: one coat white epoxy primer with top coat of gray polyester paint.
 - b. White: one coat white epoxy primer with top coat of white polyester paint.
 - c. Tan: one coat white epoxy primer with top coat of tan polyester paint.
 - d. Galvanized: G-90 coating.
 - e. TigerCoat™ Powdercoat available in 187 standard colors - optional

4. End-locks: eliminates Lateral movement of the slats.
 - a. Zinc-plated metal end-locks fastened with two zinc-plated steel rivets
 - b. Nylon end-locks fastened with two zinc-plated steel rivets
 - c. Mallebella
 - d. State-of-the-art stacking process, as an alternative to end-locks
5. Bottom Bar and Seal: bottom of curtain is constructed with two roll-formed galvanized (G-90) steel angles, minimum 1 ½" x 1 ½" x 1/8". Bottom astragal – standard.
6. Wind load: designed to withstand 20 pounds per square foot wind load.

GUIDES

1. Guide Assemblies: guides consists of roll-formed 10 gage galvanized (G-90) Steel U-Channel Guides 3" or 4"
2. Jamb Construction: mounting options:
 - a. Steel Jambs: supplied with self-tapping fastener.
 - b. Wood Jambs: supplied with lag bolt fasteners.
 - c. Masonry Jambs: supplied with anchor bolt fasteners.
 - d. Non-masonry Jambs: for jambs consisting of drywall or plaster.
3. Weather Seal: guide brush seal or snap-on vinyl seal (optional).

COUNTERBALANCE SYSTEM

1. Headplates: headplate brackets shall be made from 3/16" or ¼" steel plates attached to the wall angle of the guide assembly with ½" diameter bolts. The drive bracket is fitted with a sealed self-aligning ball bearing. Head plates receive one coat of rust-inhibitive primer.
2. Barrel: the barrel is a minimum 4 ½" O.D. x .120" wall structural steel pipe. Deflection of pipe under full load shall not exceed .03" per foot of span.
3. Counterbalance: the curtain shall be counterbalanced by torsion
 - a. Torsion Spring Assembly: oil-tempered, helical torsion springs are, grease packed and mounted on a continuous steel torsion shaft.

HOUSING COVER

1. Hood: rolling service doors may be furnished with a hood enclosure, as follows:
 - a. Round Hood: enclosures are comprised of 24 gage galvanized steel.
 - b. Square Hood: enclosures are comprised of 24 gage galvanized steel.

LOCKING HARDWARE

1. Lock: rolling service doors may be provided with lock. Optional, as follows:
 - a. Bottom Slide Lock: bottom galvanized slide locking device (padlock by others) for use with push-up, hand chain, and hand-crank operated doors (motor operated doors require a model DH Lift-Master operator in conjunction with slide locks).
 - b. Hand Chain Lock: provided for doors operated with hand chain (padlock by others).

PART 3 – EXECUTION

1. Installation: to be by authorized representative according to KRDOORS, Inc. standards and instructions.
2. Warranty- provide manufacturer's 1 year warranty from the time of shipment against defects in workmanship and materials.

HEAVY DUTY SERVICE DOORS MODEL: HSD

Guaranteed Quality Since 1973

BASIC INFORMATION

MADE IN THE USA



QUALITY

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TYPES OF OPERATIONS

KRD offers a wide range of operation options to suit your specific needs. Those available include; hand chain, manual push-up, hand crank, and motor operated doors.

CURTAIN

Interlocking steel slats roll-formed from commercial quality hot-dipped galvanized (G-90) steel per ASTM A-653. 22 Gage steel – standard. Doors exceeding 20'0" may require 20 gage steel. Slat designs from large curved slat, large flat slat, perforated large slat, and small flat slat.

GUIDES

3 piece guides consist of roll-formed 3" x 3" x 3/16" galvanized (G-90) Steel or structural steel angles.

BARREL

KRD offers 4 1/2"-12" diameter barrels engineered to deflect not more than .03" per foot of width. Torsion spring assembly consists of oil-tempered, helical torsion springs, grease packed and mounted on a continuous steel torsion shaft to counter balance the weight of the curtain.

DESIGNED FOR MAXIMUM SPACE SAVING

The upward coiling action of KRDOORS minimizes the space required for door operation. When fully open the door will not inhibit wall space, use additional overhead area, or interfere with the interior of the building.

INSTALLATION

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Oversized Heavy Duty Service Applications



Heavy Duty Service Applications



High Security Service Applications

SAFETY, SAFETY, SAFETY



PROUD MEMBERS



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Since 1973

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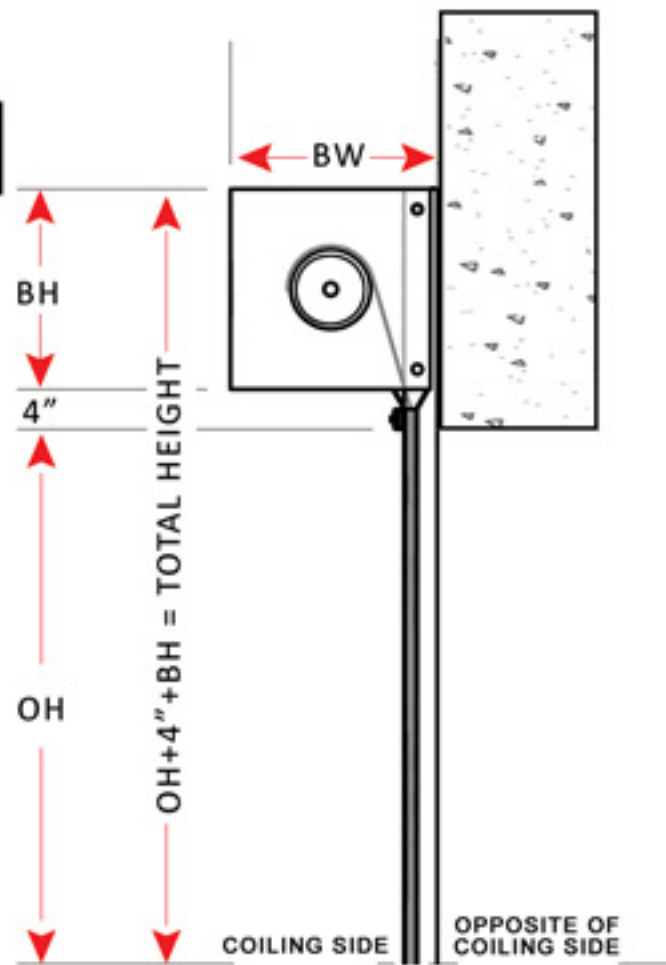
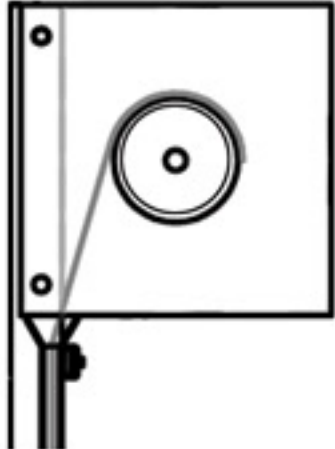
MODEL: HSD
KRD HEAVY DUTY SERVICE DOORS



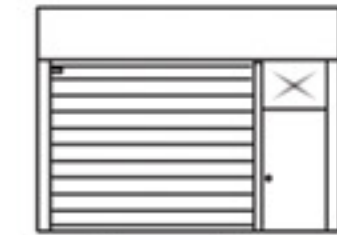
CLEARANCES

BRACKET PLATE

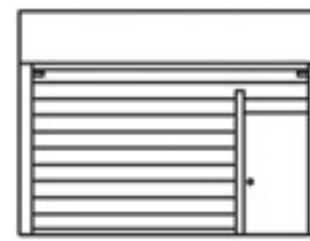
HEIGHT	BRACKET HEIGHT
3-6ft.	10"
7-10ft.	12"
11-14ft.	14"
15-20ft.	16"



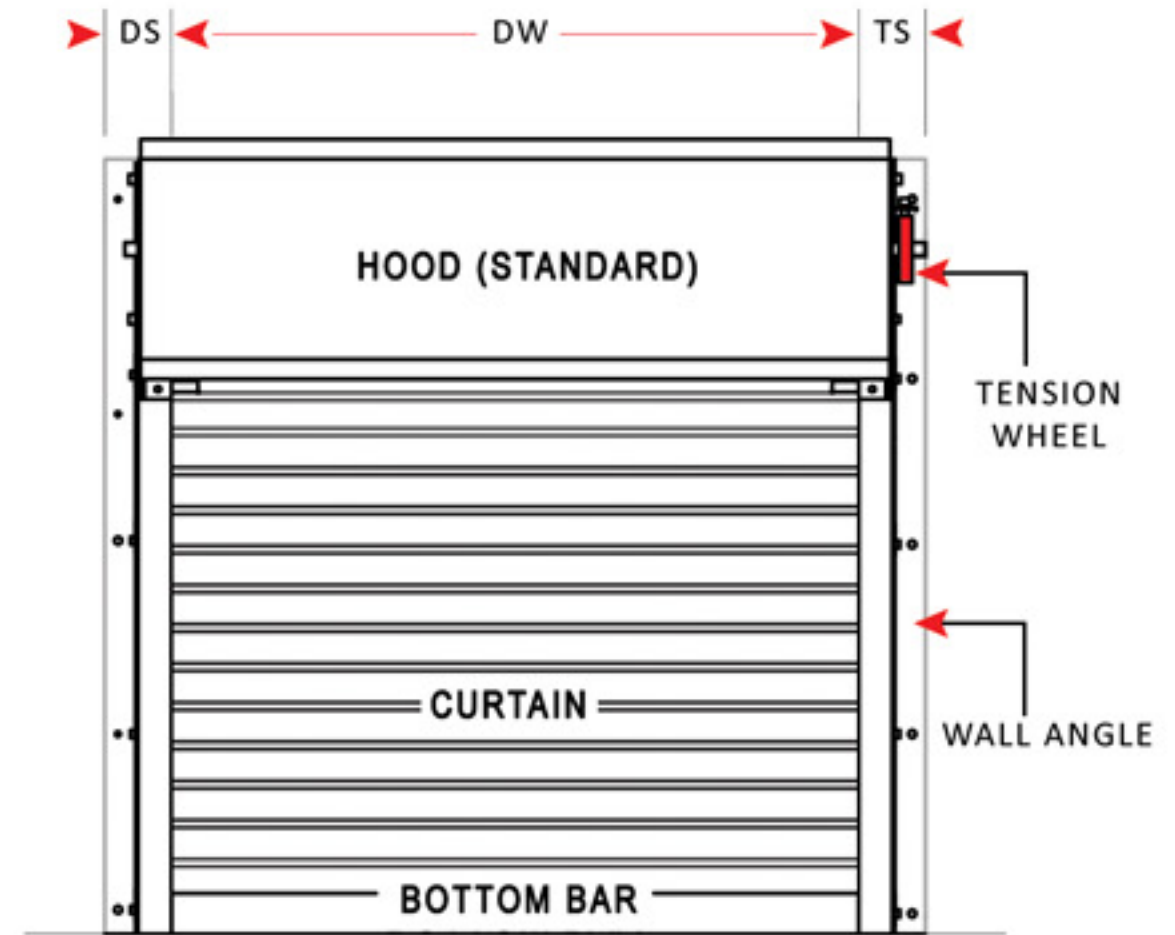
MANUAL PUSH-UP
 OPERATION
 (Maximum of 80 Sq./Ft.)



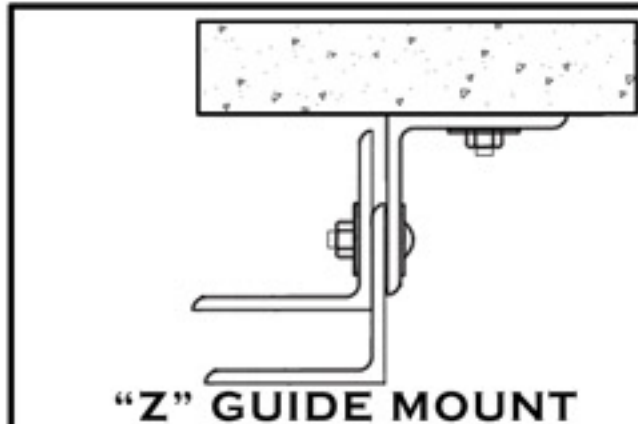
Pilot Door w/ Transom



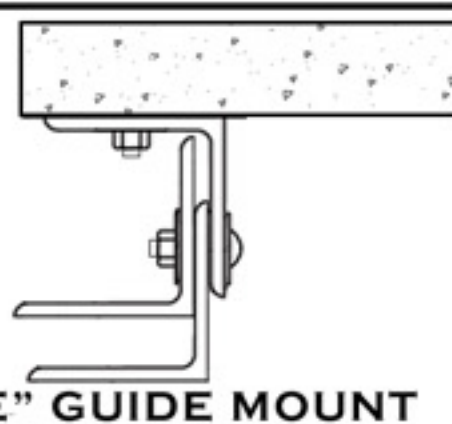
Pilot Door



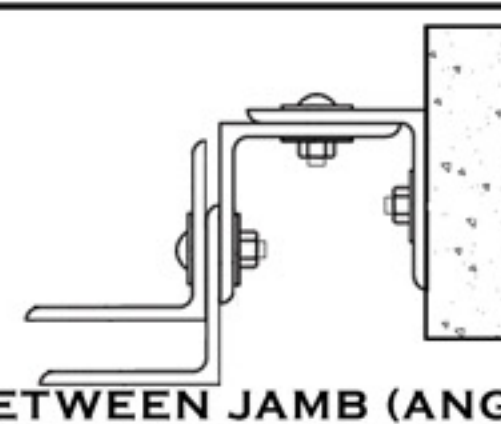
GUIDE DETAIL



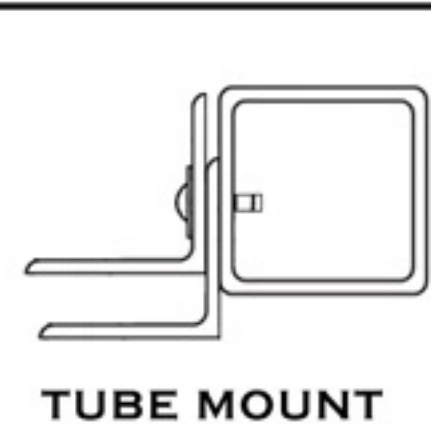
"Z" GUIDE MOUNT



"E" GUIDE MOUNT



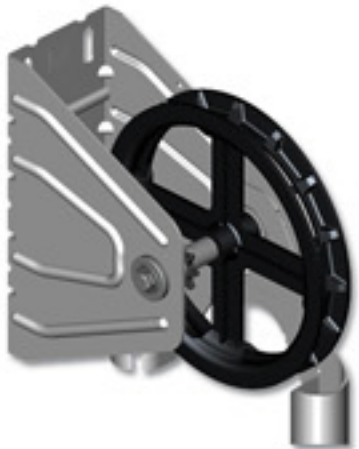
BETWEEN JAMB (ANGLE)



TUBE MOUNT

OPERATIONS

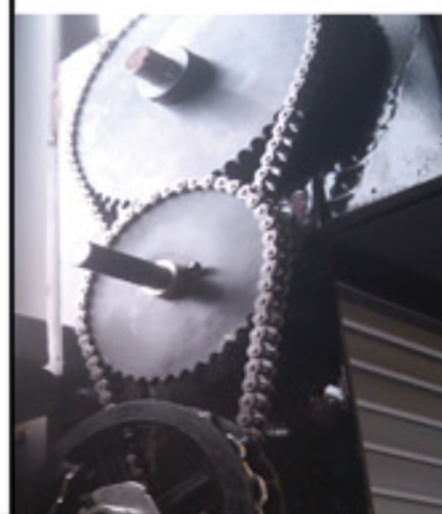
STANDARD DUTY



MEDIUM DUTY



HEAVY DUTY



GALVANIZED

Curtain, guides, bottom track, door stops, slide locks shall be galvanized finish.

PAINTED

Bracket plates, support tubes and barrel shall be painted black or grey primer. Tension wheels shall be painted red. Custom colors are available upon request, please contact factory for pricing details.

We proudly use **TIGERcolor** visit www.krdoors.com for our color charts.

FINISHES

OPTIONS



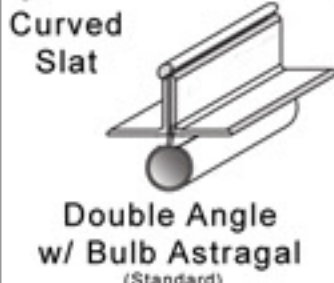
Curved Slat



Flat Slat (Standard)



Perforated Slat



Double Angle w/ Bulb Astragal (Standard)



Guide w/ Vinyl Strips



Curved Slat Profile



Flat Slat Profile

GENERAL NOTES

Clearances are based upon standard door construction. Reduced clearances are available. Some options may require additional clearance. Architectural drawings for specific applications are available upon request. If seeking information that is not on this media, please consult factory so that we can better assist your needs.

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ACCESSORIES



Manaras



LiftMaster



Remote Controls



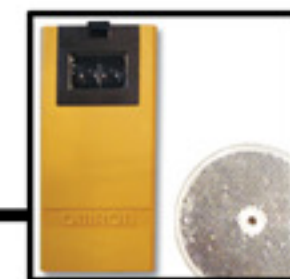
Tamper Proof Key Switch



Push Button Station



Emergency Egress



Safety Eyes



Wireless Entry



HEAVY DUTY SERVICE DOOR

MODEL: HSD

8623 S. Mettler Avenue ■ Los Angeles ■ CA ■ 90003

Toll Free: 877.883.6677 ■ Local: 323.778.6363 ■ Fax: 323.778.6339

MANUFACTURER SPECIFICATIONS: 08332 – Overhead Coiling Doors

Part 1 - GENERAL

1. Heavy Duty Service ("HSD") Door Model as manufactured by KRDOORS, INC., California.
2. Quality Assurance:
 - a. Design all rolling service doors to withstand cycle life of 10,000 / 20,000 / 50,000 / 100,000 cycles.

OPERATION

1. Types of Operation:
 - a. Hand Chain: recommended for service doors over 10'0" wide and/or 8'0" high.
 - b. Push-up: not recommended for service doors over 80 sq.ft.
 - c. Manual Hand Crank: provided by gear reduction hand crank provided optionally.
 - d. Motor operated: Lift-Master/Manaras jack-shaft type electric operator
2. Mounting Options:
 - a. Face-Mount: fastened to the face of the wall opening – standard.
 - b. Between-Jamb Mounting: fastened between the jambs of the wall opening provided optionally.
 - c. Drive Side: : for hand-chain, hand-crank or motor operated service doors, the drive oriented for left-hand or right hand use facing the reference side of the door (side with exposed barrel assembly or hood).
3. RELATED WORK:
 - a. Opening preparation, access panels, finish or field painting is in the scope of the work of other sections or trades.

Part 2 – PRODUCT

CURTAIN

1. Material: HSD pattern - Interlocking steel slats roll-formed from commercial quality hot-dipped galvanized (G-90) steel per ASTM A-653. 22 Gage steel – standard. Doors exceeding 20'0" may require 20 gage steel.
2. Slat Design Type:
 - a. Flat Slat: 3" design suitable for all door sizes.
 - b. Small Flat Slat: 1 ½" suitable for doors under 18'0" wide.
 - c. Large Curved Slat: 3" design suitable for all door sizes.
 - d. Perforated Flat Slat: 3" slat punched with 1/16" diameter holes across the length of the slat, providing 31% open area (transparence) per square foot of door.
3. Finish/Color:
 - a. Gray: one coat white epoxy primer with top coat of gray polyester paint.
 - b. White: one coat white epoxy primer with top coat of white polyester paint.
 - c. Tan: one coat white epoxy primer with top coat of tan polyester paint.
 - d. Galvanized: G-90 coating.
 - e. TigerCoat™ Powdercoat available in 187 standard colors – optional

(Curtain Continued)

4. End-locks: attached to every other slat to act as wearing surface and prevent lateral movement.
 - a. Zinc-plated metal end-locks fastened with two zinc-plated steel rivets
 - b. Nylon end-locks fastened with two zinc-plated steel rivets
 - c. Galvanized malleable iron end-locks fastened with zinc-plated steel rivets
 - d. State-of-the-art stacking process, as an alternative to end-locks
 - e. Wind-locks: as required per design wind-load.
5. Bottom Bar and Seal: bottom of curtain is constructed with two roll-formed galvanized (G-90) steel angles, minimum 2" x 2" x 1/8". Bottom astragal—standard.
6. Wind load: designed to withstand 20 pounds per square foot wind load.

GUIDES

1. Guide Assemblies: 3 piece guides consist of roll-formed 3" x 3" x 3/16" galvanized (G-90) Steel or structural steel angles
2. Jamb Construction: mounting options:
 - a. Steel Jambs: supplied with self-tapping fastener.
 - b. Wood Jambs: supplied with lag bolt fasteners.
 - c. Masonry Jambs: supplied with anchor bolt fasteners.
 - d. Non-masonry Jambs: for jambs consisting of drywall or plaster.
3. Weather Seal: guide brush seal or snap-on vinyl seal (optional).

COUNTERBALANCE SYSTEM

1. Head-plates: head-plate brackets shall be made from 3/16" or 1/4" steel plates attached to the wall angle of the guide assembly with 1/2" diameter bolts. The drive bracket is fitted with a sealed self-aligning ball bearing. Head plates receive one coat of rust-inhibitive primer.
2. Barrel: the barrel is a minimum 4 1/2"-12" O.D. x .120" wall structural steel pipe. Deflection of pipe under full load shall not exceed .03" per foot of span.
3. Counterbalance: the curtain shall be counterbalanced by torsion
 - a. Torsion Spring Assembly: oil-tempered, helical torsion springs are, grease packed and mounted on a continuous steel torsion shaft.

HOUSING COVER

1. Hood: rolling service doors may be furnished with a hood enclosure, as follows:
 - a. Round Hood: enclosures are comprised of 24 gage galvanized steel.
 - b. Square Hood: enclosures are comprised of 24 gage galvanized steel.

LOCKING HARDWARE

1. Lock: rolling service doors may be provided with lock. Optional, as follows:
 - a. Bottom Slide Lock: bottom galvanized slide locking device (padlock by others) for use with push-up, hand chain, and hand-crank operated doors (motor operated doors require a model DH Lift-Master operator in conjunction with slide locks).
 - b. Hand Chain Lock: provided for doors operated with hand chain (padlock by others).

PART 3 – EXECUTION

1. Installation: to be by authorized representative according to KRDOORS, Inc. standards and instructions.
2. Warranty- provide manufacturer's 1 year warranty from the time of shipment against defects in workmanship and materials.

ALUMINUM ROLLING GRILLES MODEL: ARG

Guaranteed Quality Since 1973

BASIC INFORMATION

QUALITY

KRDOORS, INC. sources the highest quality materials and exacts superior workmanship in order to provide an unbeatable combination of durability and efficiency with the most simplistic operation. Our success has been built on the consistency in which we provide dependable quality products.

TYPES OF OPERATIONS

KRD offers a wide range of operation options to suit your specific needs. Those available include; hand chain, manual push-up, hand crank, and motor operated doors.

CURTAIN

Straight Pattern: Horizontal aluminum rods 5/16" (6063-T6), spaced vertically at 1 3/4" O.C. with vertical link assemblies spaced horizontally at 9" O.C. Lateral movement of the vertical link assemblies to be contained by C-clips. Vertical link assemblies to be held together by brass with nickel plated eyelets.

GUIDES

Guides consist of 2 1/2" extruded aluminum (6063-T6) 2 1/2". The guides attached to structural steel angles or roll formed galvanized (G-90) steel angles; by structural steel support tubes.

BARREL

KRD offers 4 1/2"-12" diameter barrels engineered to deflect not more than .03" per foot of width. Torsion spring assembly consists of oil-tempered, helical torsion springs, grease packed and mounted on a continuous steel torsion shaft to counter balance the weight of the curtain.

DESIGNED FOR MAXIMUM SPACE SAVING

The upward coiling action of KRDOORS minimizes the space required for door operation. When fully open the door will not inhibit wall space, use additional overhead area, or interfere with the interior of the building.

INSTALLATION

KRD products have been specifically engineered to ensure ease of installation without the need for special equipment. KRD offers continuous mounting angle construction along with fully assembled door curtains, counter-balance assemblies and other components which will significantly reduce installation time and expensive field labor. Full installation instructions and attachment hardware are furnished with each door.

MADE IN THE USA



Oversized High-Cycle Security Applications



Condominium Security Applications



Storefront and Mall Security Applications

SAFETY, SAFETY, SAFETY



PROUD MEMBERS



A True Manufacturer of Rolling Steel and Aluminum Products

Since 1973

www.krdoors.com

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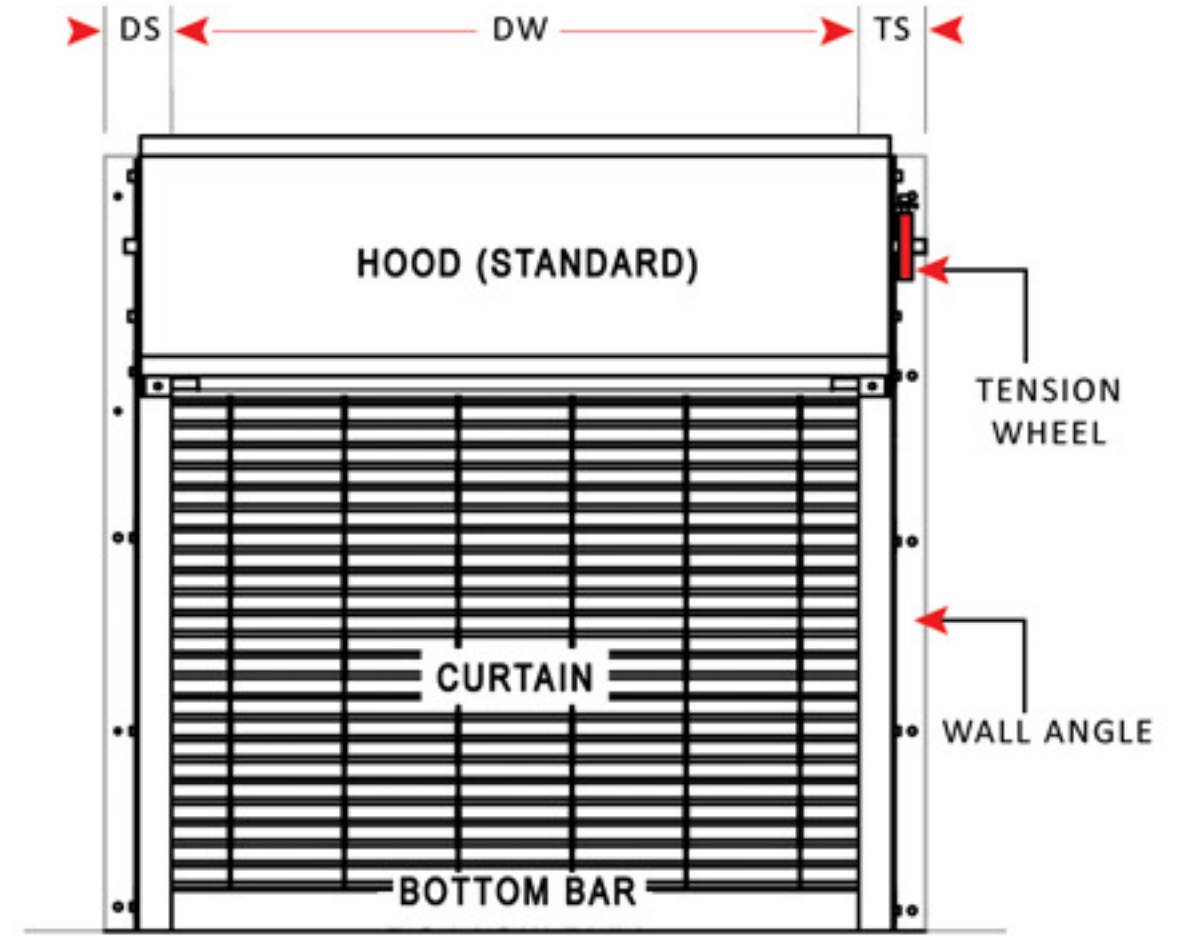
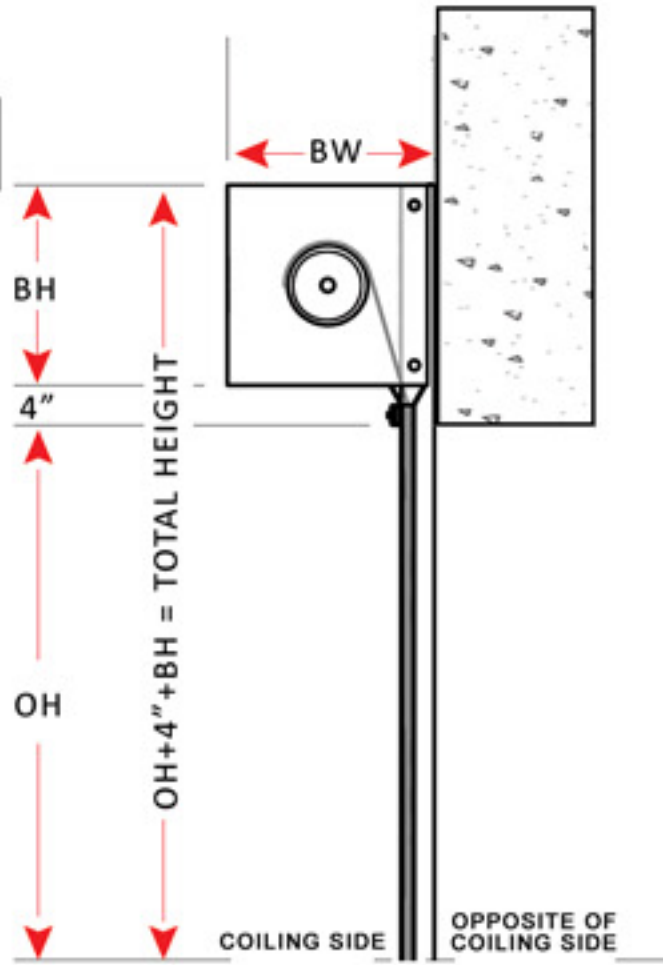
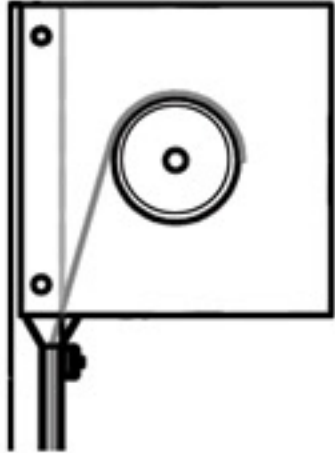
MODEL: ARG KRD ALUMINUM ROLLING GRILLE



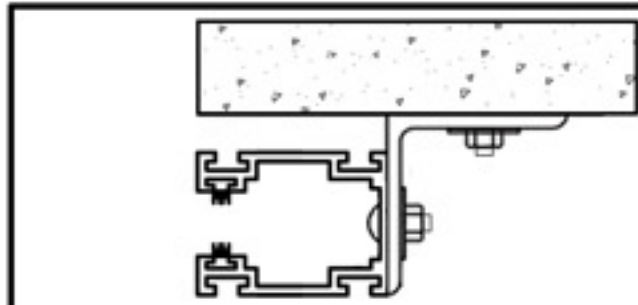
CLEARANCES

BRACKET PLATE

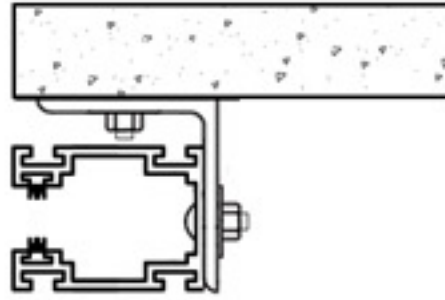
HEIGHT	BRACKET HEIGHT
3-6ft.	10"
7-10ft.	12"
11-14ft.	14"
15-20ft.	16"



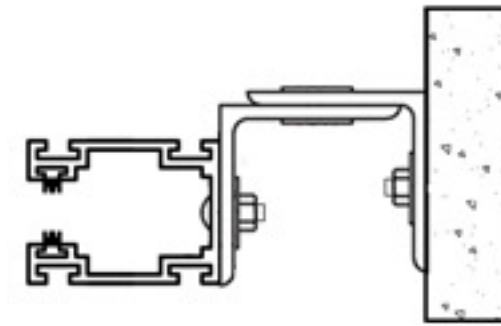
GUIDE DETAIL



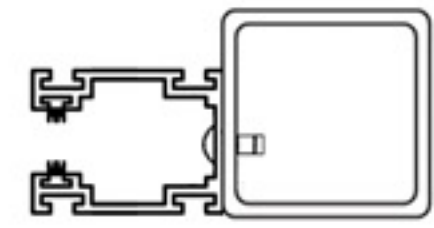
"Z" GUIDE MOUNT



"E" GUIDE MOUNT



BETWEEN JAMB (ANGLE)



TUBE MOUNT

OPERATIONS

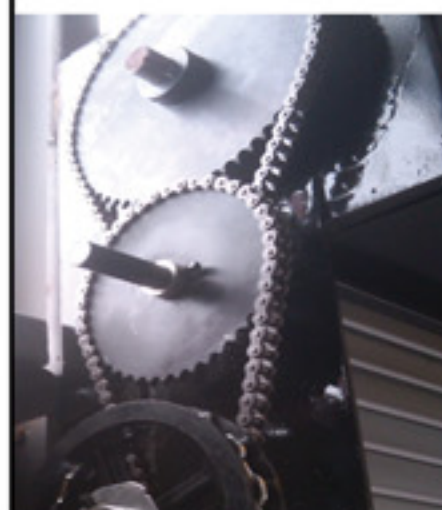
STANDARD DUTY



MEDIUM DUTY



HEAVY DUTY



ALUMINUM

Curtain, guides, bottom track, door stops shall be aluminum mill finish.

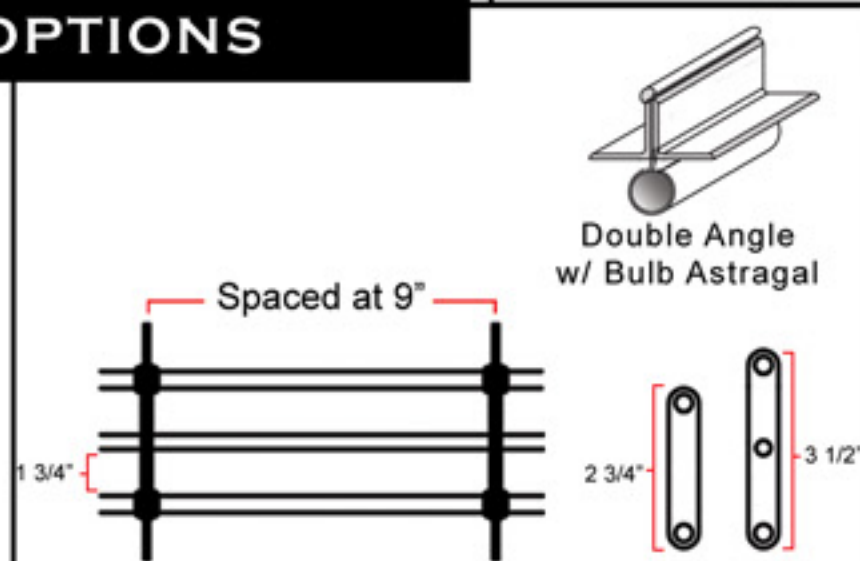
STEEL

Bracket plates, support tubes and barrel shall be painted black or grey primer. Tension wheels shall be painted red. Custom colors are available upon request, please contact factory for pricing details.

We proudly use **TIGERcolor** visit www.krdoors.com for our color charts.

FINISHES

OPTIONS



Double Angle
w/ Bulb Astragal



Aluminum Extruded
Bottom Bar

GENERAL NOTES

Clearances are based upon standard door construction. Reduced clearances are available. Some options may require additional clearance. Architectural drawings for specific applications are available upon request. If seeking information that is not on this media, please consult factory so that we can better assist your needs.

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KRDOORS, INC. SINCE 1973

ACCESSORIES



Manaralift



LiftMaster
AWARD OF EXCELLENCE



Remote Controls



Tamper Proof Key Switch



Push Button Station



Emergency Egress



Safety Eyes



Wireless Entry



ALUMINUM ROLLING GRILLE MODEL: ARG

8623 S. Mettler Avenue ■ Los Angeles ■ CA ■ 90003

Toll Free: 877.883.6677 ■ Local: 323.778.6363 ■ Fax: 323.778.6339

MANUFACTURER SPECIFICATIONS: 08332 – Overhead Coiling Grilles

Part 1 - GENERAL

1. Aluminum Rolling Grille "ARG" Door Model: as manufactured by KRDOORS, INC., California.
2. Quality Assurance:
 - a. Design all rolling service doors to withstand cycle life of 10,000 / 20,000 / 50,000 / 100,000 cycles.

OPERATION

1. Types of Operation:
 - a. Hand Chain: recommended for service doors over 10'0" wide and/or 8'0" high.
 - b. Push-up: not recommended for service doors over 80 sqft. (e.g 10'0" W x 8'0" H)
 - c. Manual Hand Crank (Optional): provided by means of a gear reduction.
 - d. Motor operator (Optional): Lift-Master/Manaras jack-shaft type electric operator UL325 compliant.
2. Mounting Options:
 - a. Face-Mount: fastened to the face of the wall opening-standard.
 - b. Between-Jamb Mounting: fastened between the jambs of the wall opening (optional).
 - c. Drive Side: for hand-chain, hand-crank or motor operated service doors, the drive oriented for left-hand or right hand use facing the reference side of the door (side with exposed barrel assembly or hood).

3. RELATED WORK:

- a. Opening preparation, access panels, finish or field painting is in the scope of the work of other sections or trades.

Part 2 – PRODUCT

CURTAIN

1. Material:
 - a. Straight Pattern: Horizontal aluminum rods 5/16" (6063-T6), spaced vertically at 1 3/4" O.C. with vertical link Assemblies spaced horizontally at 9" O.C. Lateral movement of the vertical link assemblies to be contained by C-clips. Vertical link assemblies to be held together by brass with nickel plated eyelets.
2. Finish: all non-plated components of the door shall receive one coat of rust-inhibitive primer.
 - a. Mill-finished aluminum (Standard)
 - b. Bronze Anodized
 - b. Clear Anodized
3. Bottom Bar: bottom of curtain is reinforced with extruded aluminum tubular bottom bar 5". Available in:
 - a. Mill-finish aluminum (standard)
 - b. Bronze Anodized
 - c. Clear Anodized

GUIDES

1. Guide Assemblies: guides consist of 2 ½" extruded aluminum (6063-T6) 2 ½". The guides attached to structural steel angles or roll formed galvanized (G-90) steel angles; by structural steel support tubes. Guides available in:
 - a. Mill-finish aluminum (standard)
 - b. Bronze Anodized
 - c. Clear Anodized
2. Wear Strips: guides are furnished with wool pile wear strips to prevent premature wear and reduce noise.
3. Jamb Construction- mounting options:
 - a. Steel Jambs: supplied with self-tapping fasteners
 - b. Wood Jambs: supplied with lag bolt fasteners
 - c. Masonry Jambs: supplied with anchor bolt fasteners
 - d. Non-masonry Jambs: for jambs consisting of drywall or plaster

COUNTERBALANCE SYSTEM

1. Headplates : headplate brackets are made from 3/16" or ¼" steel plates attached to the wall angle of the guide assembly with ½" diameter bolts. The drive bracket is fitted with a sealed self-aligning ball bearing. Head plates receive one coat of rust-inhibitive primer.
2. Barrel: the barrel will be made from a minimum 4 ½" O.D. x .120" wall structural steel pipe. Deflection of pipe under full load shall not exceed .03" per foot of span.
3. Counterbalance: the curtain shall be counterbalanced by torsion.
 - a. Torsion Spring Assembly: oil-tempered, helical torsion springs are, grease packed and mounted on a continuous steel torsion shaft.

HOUSING COVER

1. Hood: rolling service doors may be furnished with a hood enclosure, as follows:
 - a. Round Hood: enclosures are comprised of 24 gage galvanized steel. (Aluminum optional)
 - B. Square Hood: enclosures are comprised of 24 gage galvanized steel. (Aluminum optional)

LOCKING HARDWARE

1. Lock- rolling service doors may be provided with lock. Optional, as follows:
 - a. Cylinder Locking: with T-Turn Handle, inside and outside (motor operated doors require a model DH Lift-Master operator in conjunction with the locking mechanism).
 - b. Bottom Slide Locks: bottom galvanized slide locking device (padlock by others) for use with push-up, hand chain, and hand -crank operated doors (motor operated doors require a model DH Lift-Master operator in conjunction with slide locks).
 - c. Hand Chain Lock: provided for doors operated with hand chain (padlock by others).

PART 3 – EXECUTION

1. Installation: to be by authorized representative according to KRDOORS, Inc. standards and instructions.
2. Warranty- provide manufacturer's 1 year warranty from the time of shipment against defects in workmanship and materials.

DYNAMIC GRILLE DOORS MODEL: DGD

Guaranteed Quality Since 1973



MADE IN THE USA

BASIC INFORMATION

QUALITY

KRDOORS, INC. sources the highest quality materials and exacts superior workmanship in order to provide an unbeatable combination of durability and efficiency with the most simplistic operation. Our success has been built on the consistency in which we provide dependable quality products.

TYPES OF OPERATIONS

KRD offers a wide range of operation options to suit your specific needs. Those available include; hand chain, manual push-up, hand crank, and motor operated doors.

CURTAIN

Brick Pattern: shall have a combination of ABS extruded panels arranged to allow 100% coverage of the curtain. ABS extruded 2 1/2" panels 1/4" thick. Aluminum solid round rods 5/16" (6063-T6) inserted between each panel for form curtain. The dynamic grilles high cycle design exceeds our industry standard.

GUIDES

Guides consist of 2 1/2" extruded aluminum (6063-T6) 2 1/2". The guides attached to structural steel angles or roll formed galvanized (G-90) steel angles; by structural steel support tubes.

BARREL

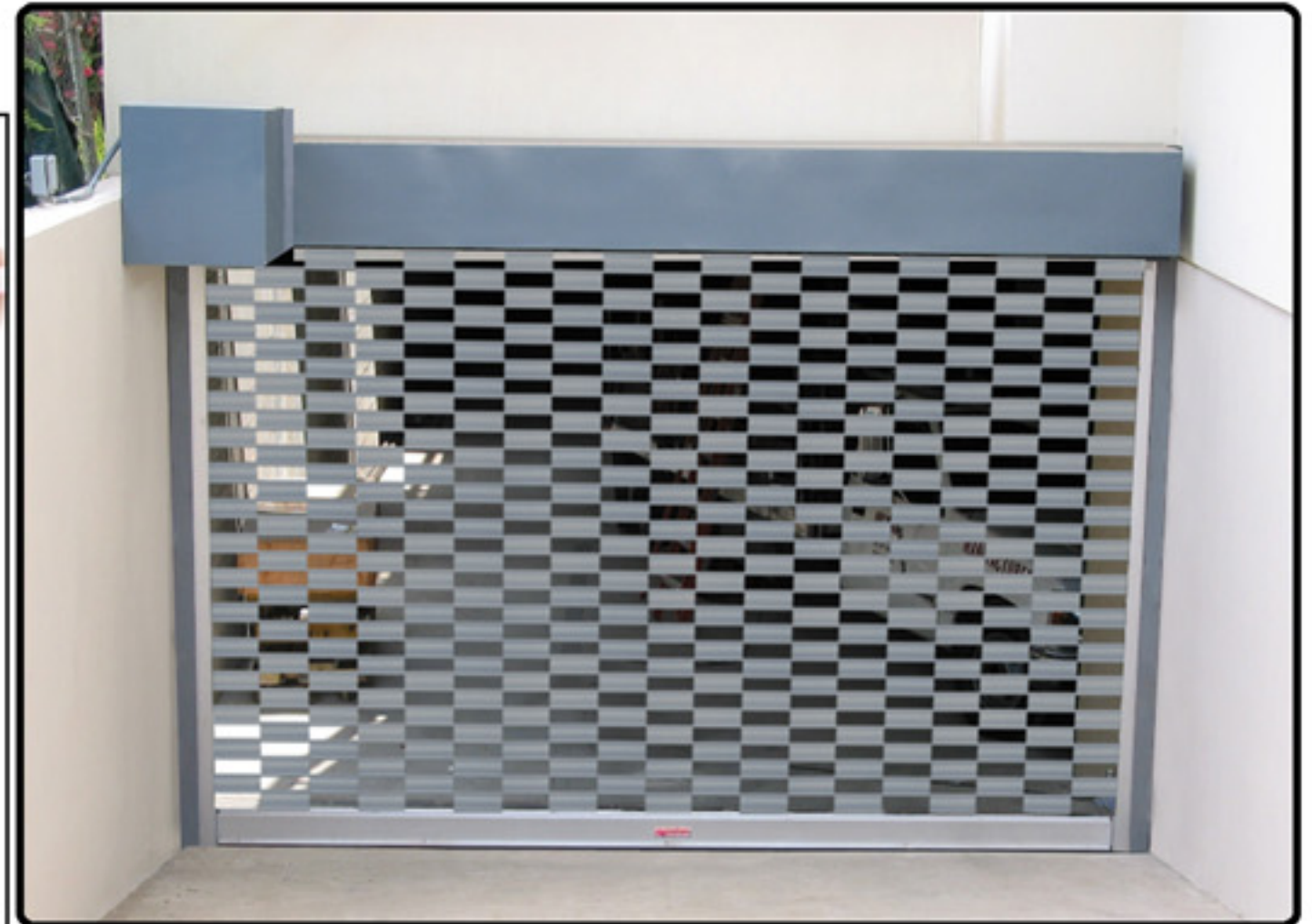
KRD offers 4 1/2"-12" diameter barrels engineered to deflect not more than .03" per foot of width. Torsion spring assembly consists of oil-tempered, helical torsion springs, grease packed and mounted on a continuous steel torsion shaft to counter balance the weight of the curtain.

DESIGNED FOR MAXIMUM SPACE SAVING

The upward coiling action of KRDOORS minimizes the space required for door operation. When fully open the door will not inhibit wall space, use additional overhead area, or interfere with the interior of the building.

INSTALLATION

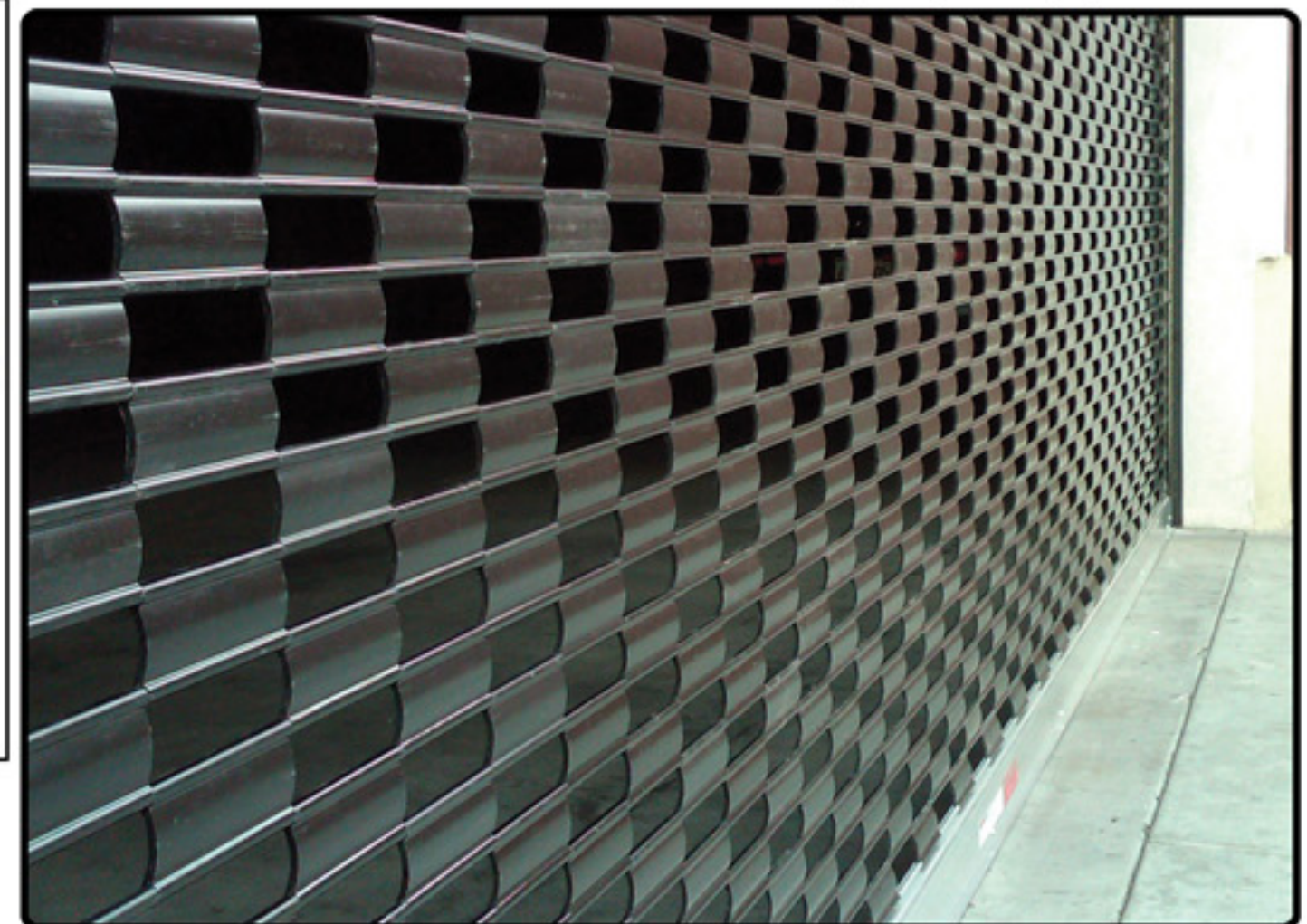
KRD products have been specifically engineered to ensure ease of installation without the need for special equipment. KRD offers continuous mounting angle construction along with fully assembled door curtains, counter-balance assemblies and other components which will significantly reduce installation time and expensive field labor. Full installation instructions and attachment hardware are furnished with each door.



High-Cycle Condominium Applications



Oversized High-Cycle Applications



High-Cycle Applications

SAFETY, SAFETY, SAFETY



PROUD MEMBERS



Since 1973

www.krdoors.com

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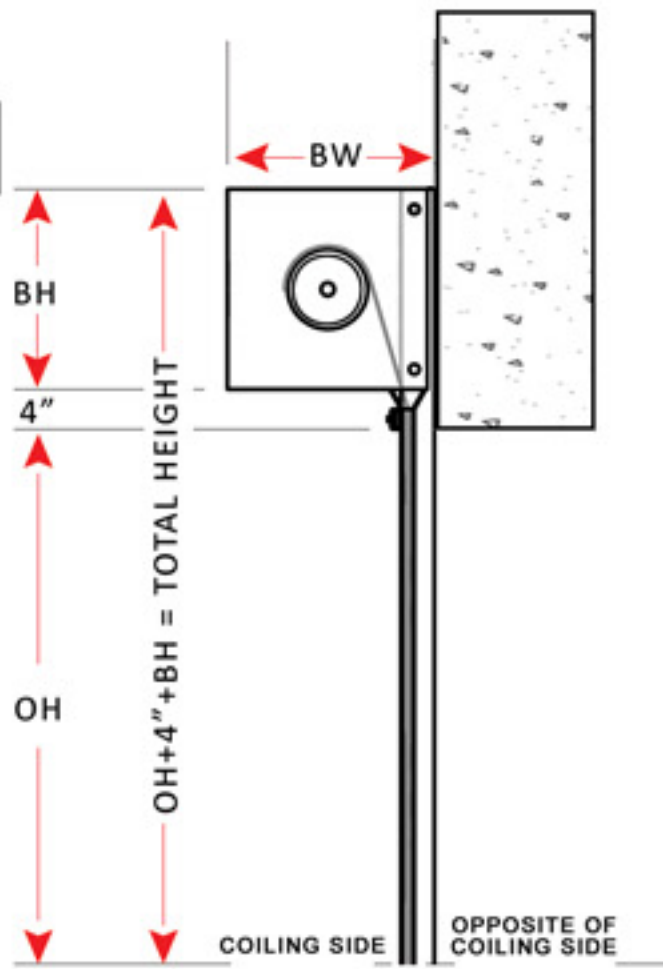
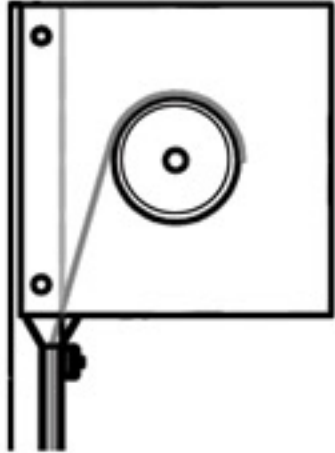
MODEL: DGD
KRD DYNAMIC GRILLE DOOR



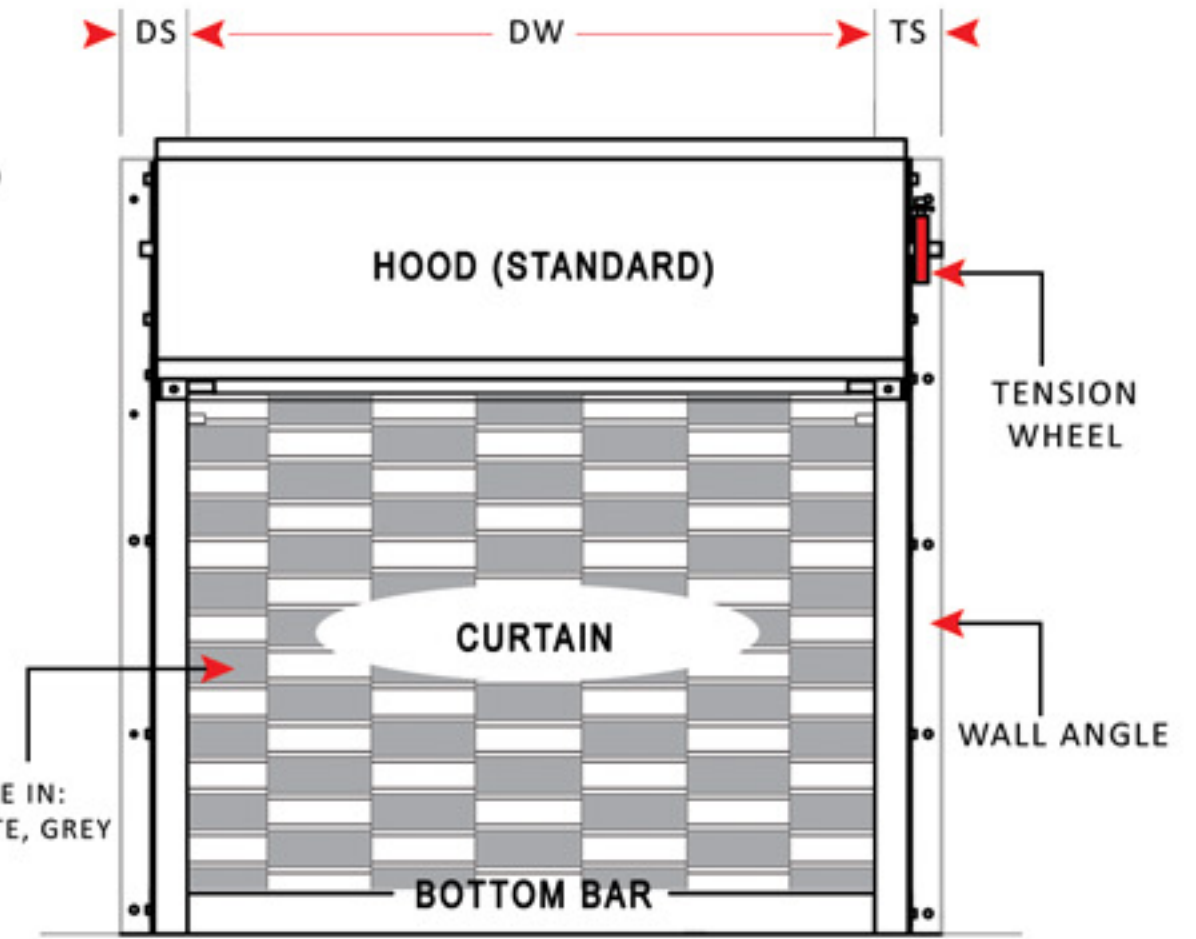
CLEARANCES

BRACKET PLATE

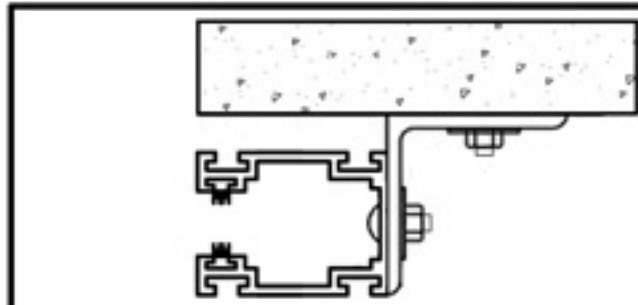
HEIGHT	BRACKET HEIGHT
3-6ft.	10"
7-10ft.	12"
11-14ft.	14"
15-20ft.	16"



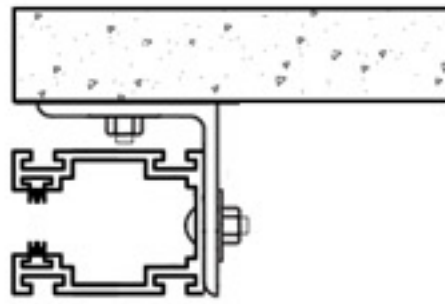
MANUAL PUSH-UP
 OPERATION
 (Maximum of 80 Sq./Ft.)



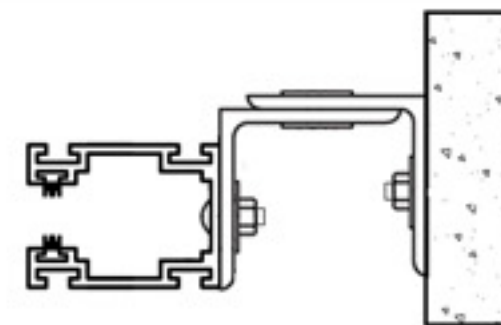
GUIDE DETAIL



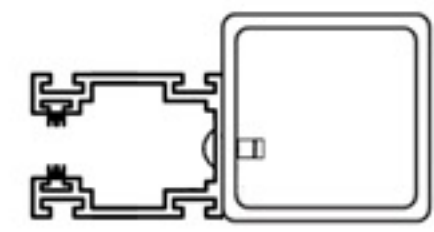
"Z" GUIDE MOUNT



"E" GUIDE MOUNT



BETWEEN JAMB (ANGLE)



TUBE MOUNT

OPERATIONS

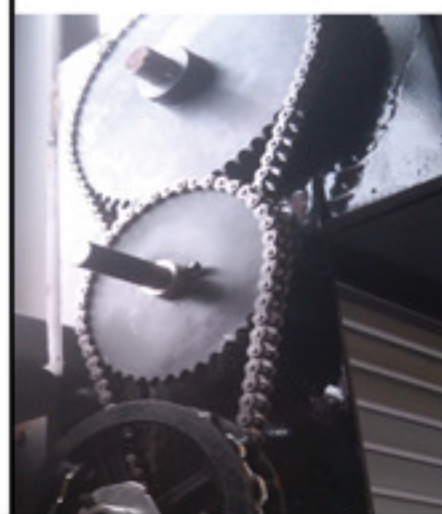
STANDARD DUTY



MEDIUM DUTY



HEAVY DUTY



ALUMINUM

Round rods, guides, bottom track, door stops shall be aluminum mill finish.

CURTAIN

Extruded ABS Sleeves available in black, white or grey.

STEEL

Bracket plates, support tubes and barrel shall be painted black or grey primer. Tension wheels shall be painted red. Custom colors are available upon request, please contact factory for pricing details.

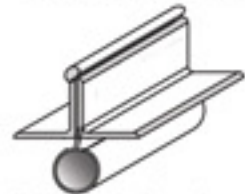
We proudly use **TIGERcolor** visit www.krdoors.com for our color

FINISHES

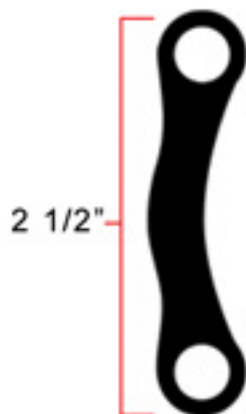
OPTIONS



Curtain Detail



Double Angle
 w/ Bulb Astragal



2 1/2"

Dynamic Insert
 Profile



Aluminum Extruded
 Bottom Bar

GENERAL NOTES

Clearances are based upon standard door construction. Reduced clearances are available. Some options may require additional clearance. Architectural drawings for specific applications are available upon request. If seeking information that is not on this media, please consult factory so that we can better assist your needs.

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ACCESSORIES



Manaras



LiftMaster
 CHAMBERLAIN
 AWARD OF EXCELLENCE



Remote Controls



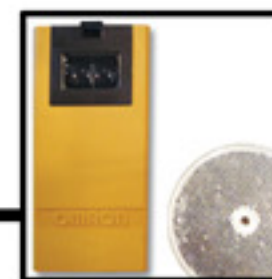
Tamper Proof Key Switch



Push Button Station



Emergency Egress



Safety Eyes



Wireless Entry



MANUFACTURER SPECIFICATIONS: 08332 – Overhead Coiling Grilles

Part 1 - GENERAL

1. Aluminum High-Cycle Rolling Grille “DGD” Door Model: as manufactured by KRDOORS, INC., California.
2. Quality Assurance:
 - a. Design all rolling service doors to withstand cycle life of 10,000 / 20,000 / 50,000 / 100,000 cycles.
3. RELATED WORK:
 - a. Opening preparation, access panels, finish or field painting is in the scope of the work of other sections or trades.

Part 2 – PRODUCT

OPERATION

1. Types of Operation:
 - a. Hand Chain: recommended for service doors over 10’0” wide and/or 8’0” high.
 - b. Push-up: not recommended for service doors over 80 sqft. (e.g 10’0” W x 8’0” H)
 - c. Manual Hand Crank (Optional): provided by means of a gear reduction.
 - d. Motor operator (Optional): Lift-Master/Manaras jack-shaft type electric operator UL325 compliant.
2. Mounting Options:
 - a. Face-Mount: fastened to the face of the wall opening-standard.
 - b. Between-Jamb Mounting: fastened between the jambs of the wall opening (optional).
 - c. Drive Side: for hand-chain, hand-crank or motor operated service doors, the drive oriented for left-hand or right hand use facing the reference side of the door (side with exposed barrel assembly or hood).

CURTAIN

1. Material:
 - a. Brick Pattern: shall have a combination of ABS extruded panels arranged to allow 100% coverage of the curtain. ABS extruded 2 ½” panels 1/4” thick. Aluminum solid round rods 5/16” (6063-T6) inserted between each panel for form curtain. The dynamic grilles high cycle design exceeds our industry standard.
2. Finish: all non-plated components of the door shall receive one coat of rust-inhibitive primer.
 - a. Mill-finished aluminum (Standard)
 - b. Bronze Anodized
 - b. Clear Anodized
3. Bottom Bar: bottom of curtain is reinforced with extruded aluminum tubular bottom bar 5”. Available in:
 - a. Mill-finish aluminum (standard)
 - b. Bronze Anodized
 - c. Clear Anodized

GUIDES

1. Guide Assemblies: guides consist of 2 ½" extruded aluminum (6063-T6) 2 ½". The guides attached to structural steel angles or roll formed galvanized (G-90) steel angles; by structural steel support tubes. Guides available in:
 - a. Mill-finish aluminum (standard)
 - b. Bronze Anodized
 - c. Clear Anodized
2. Wear Strips: guides are furnished with wool pile wear strips to prevent premature wear and reduce noise.
3. Jamb Construction- mounting options:
 - a. Steel Jambs: supplied with self-tapping fasteners
 - b. Wood Jambs: supplied with lag bolt fasteners
 - c. Masonry Jambs: supplied with anchor bolt fasteners
 - d. Non-masonry Jambs: for jambs consisting of drywall or plaster

COUNTERBALANCE SYSTEM

1. Headplates : headplate brackets are made from 3/16" or ¼" steel plates attached to the wall angle of the guide assembly with ½" diameter bolts. The drive bracket is fitted with a sealed self-aligning ball bearing. Head plates receive one coat of rust-inhibitive primer.
2. Barrel: the barrel will be made from a minimum 4 ½" O.D. x .120" wall structural steel pipe. Deflection of pipe under full load shall not exceed .03" per foot of span.
3. Counterbalance: the curtain shall be counterbalanced by torsion.
 - a. Torsion Spring Assembly: oil-tempered, helical torsion springs are, grease packed and mounted on a continuous steel torsion shaft.

HOUSING COVER

1. Hood: rolling service doors may be furnished with a hood enclosure, as follows:
 - a. Round Hood: enclosures are comprised of 24 gage galvanized steel. (Aluminum optional)
 - B. Square Hood: enclosures are comprised of 24 gage galvanized steel. (Aluminum optional)

LOCKING HARDWARE

1. Lock- rolling service doors may be provided with lock. Optional, as follows:
 - a. Cylinder Locking: with T-Turn Handle, inside and outside (motor operated doors require a model DH Lift-Master operator in conjunction with the locking mechanism).
 - b. Bottom Slide Locks: bottom galvanized slide locking device (padlock by others) for use with push-up, hand chain, and hand -crank operated doors (motor operated doors require a model DH Lift-Master operator in conjunction with slide locks).
 - c. Hand Chain Lock: provided for doors operated with hand chain (padlock by others).

PART 3 – EXECUTION

1. Installation: to be by authorized representative according to KRDOORS, Inc. standards and instructions.
2. Warranty- provide manufacturer's 1 year warranty from the time of shipment against defects in workmanship and materials.

ALUMINUM COUNTER DOORS

MODEL: ACD

Guaranteed Quality Since 1973

BASIC INFORMATION



QUALITY

KRDOORS, INC. sources the highest quality materials and exacts superior workmanship in order to provide an unbeatable combination of durability and efficiency with the most simplistic operation. Our success has been built on the consistency in which we provide dependable quality products.

TYPES OF OPERATIONS

KRD offers a wide range of operation options to suit your specific needs. Those available include; hand chain, manual push-up, hand crank, and motor operated doors.

CURTAIN

Curtain consists of interlocking aluminum extruded slats 1 1/2" (6063-T6) with a thickness of .062.

GUIDES

Guides consist of 2 1/2" extruded aluminum (6063-T6) 2 1/2". The guides attached to structural steel angles or roll formed galvanized (G-90) steel angles; by structural steel support tubes.

BARREL

KRD offers 4 1/2" minimum diameter barrels engineered to deflect not more than .03" per foot of width. Torsion spring assembly consists of oil-tempered, helical torsion springs, grease packed and mounted on a continuous steel torsion shaft to counter balance the weight of the curtain.

DESIGNED FOR MAXIMUM SPACE SAVING

The upward coiling action of KRDOORS minimizes the space required for door operation. When fully open the door will not inhibit wall space, use additional overhead area, or interfere with the interior of the building.

INSTALLATION

KRD products have been specifically engineered to ensure ease of installation without the need for special equipment. KRD offers continuous mounting angle construction along with fully assembled door curtains, counter-balance assemblies and other components which will significantly reduce installation time and expensive field labor. Full installation instructions and attachment hardware are furnished with each door.



Service Counter Applications



Food Service Applications



Pharmacy or Office Security Applications

SAFETY, SAFETY, SAFETY



PROUD MEMBERS



A True Manufacturer of Rolling Steel and Aluminum Products

Since 1973

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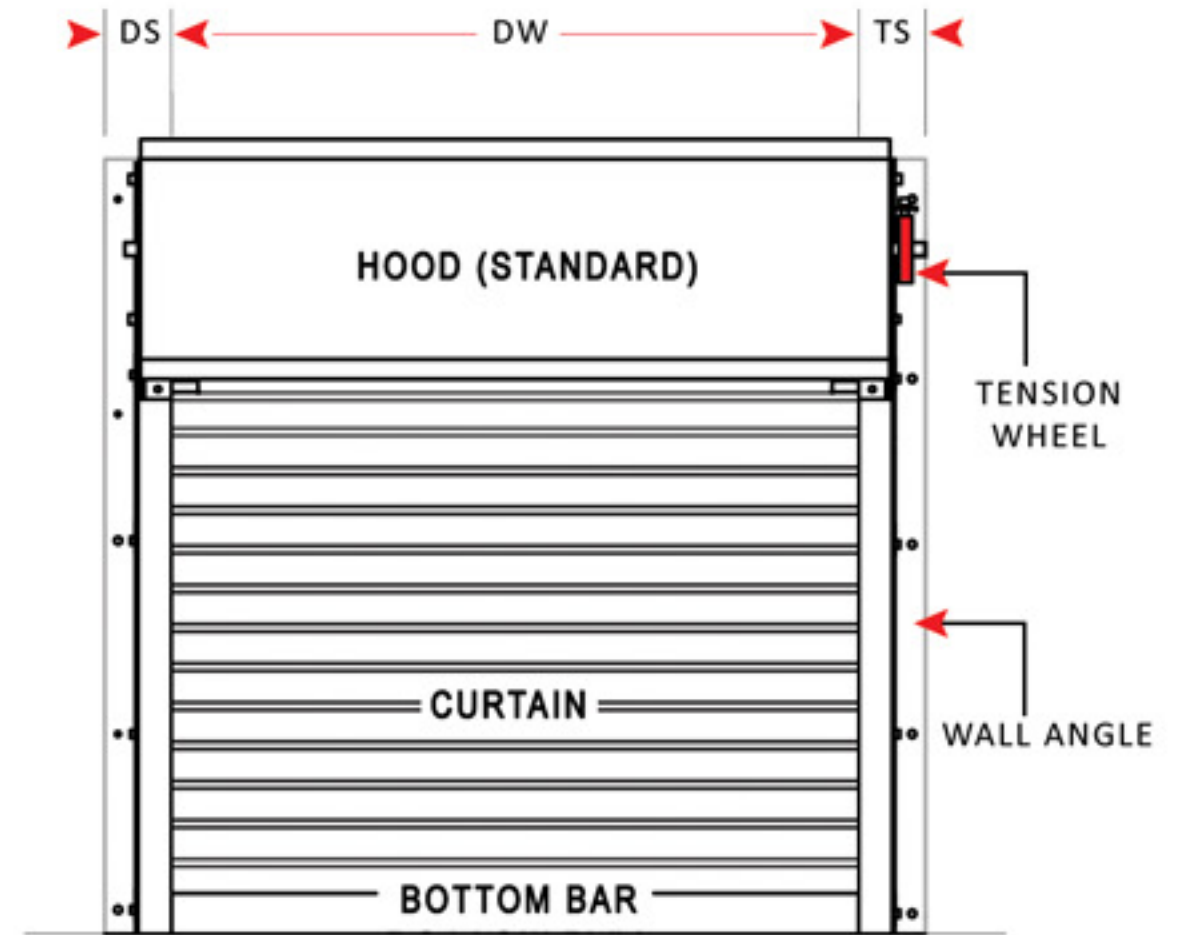
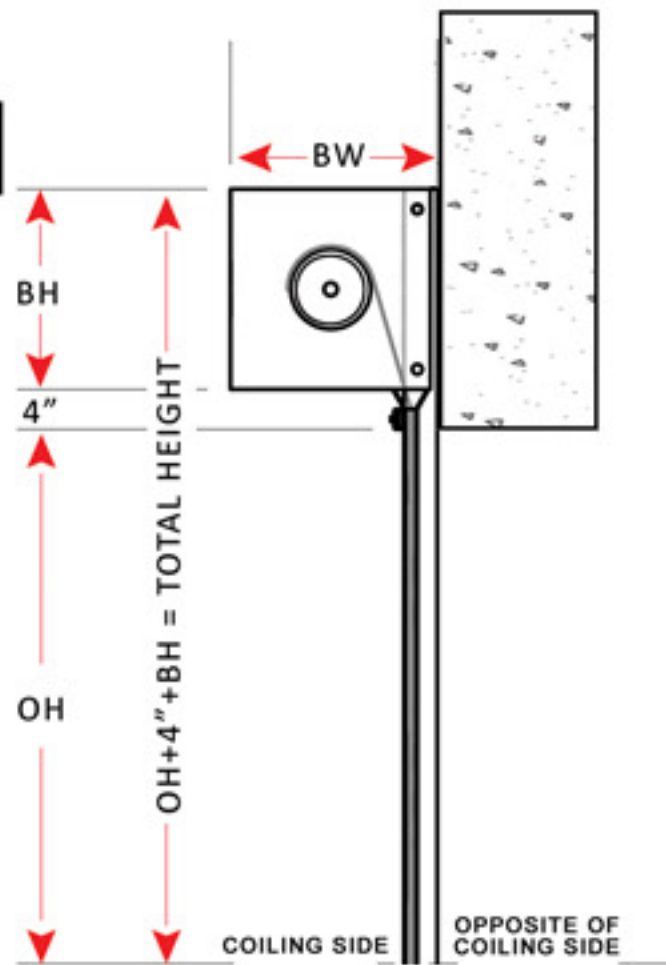
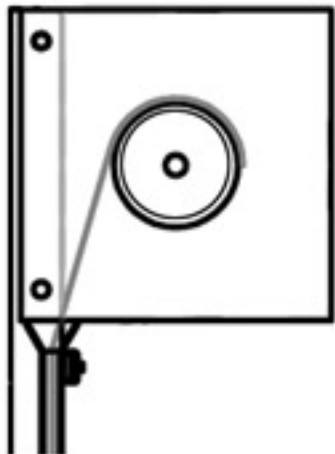
MODEL: ACD
KRD ALUMINUM COUNTER DOORS



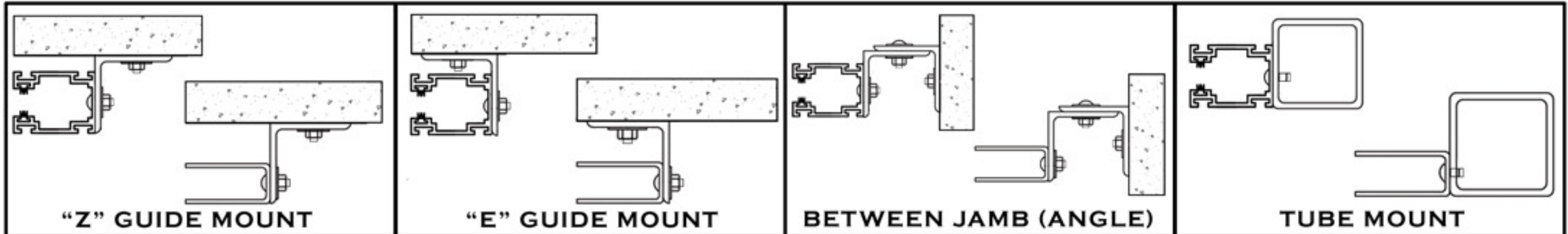
CLEARANCES

BRACKET PLATE

HEIGHT	BRACKET HEIGHT
3-6ft.	10"
7-10ft.	11"

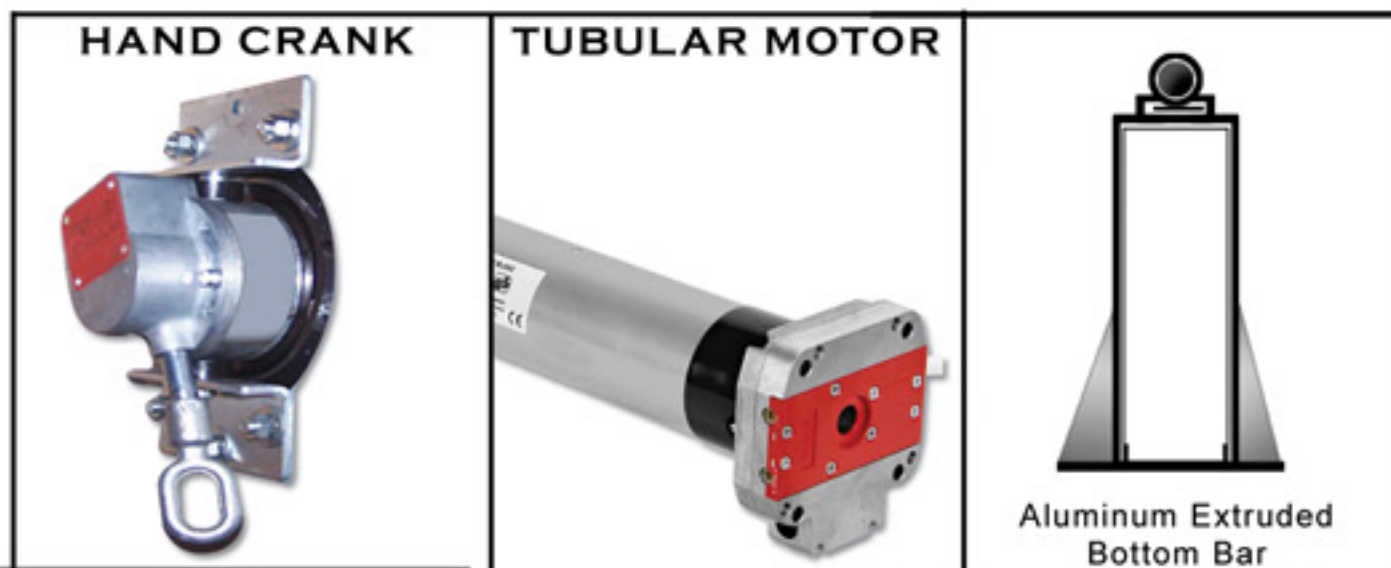


GUIDE DETAIL



OPERATIONS

FINISHES

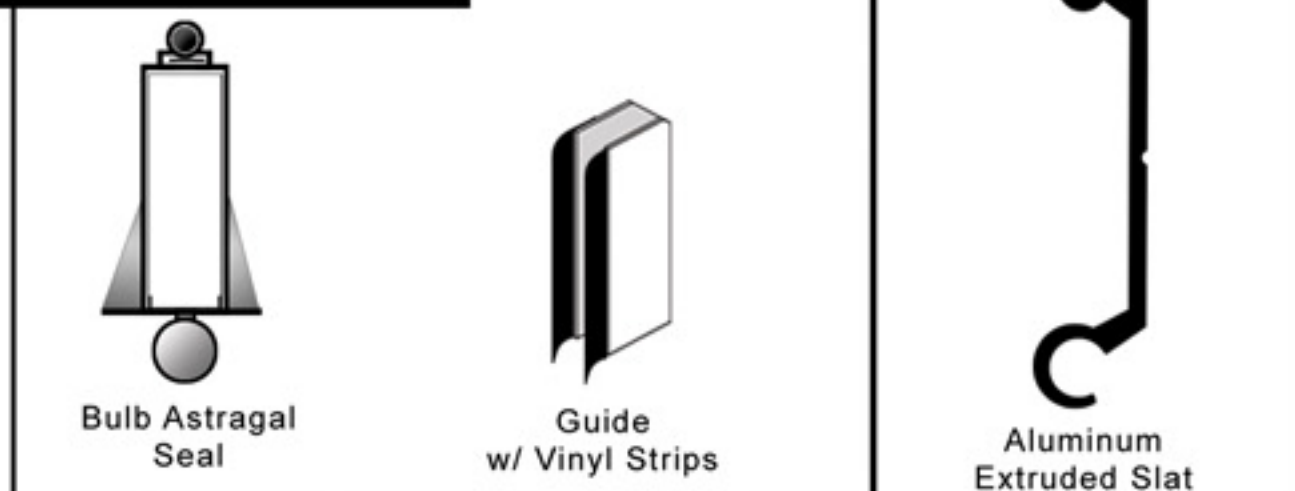


ALUMINUM
 Curtain, guides, bottom track, door stops, shall be mill clear anodized or mill finish.

PAINTED
 Bracket plates, support tubes and barrel shall be painted black or grey primer. Tension wheels shall be painted red. Custom colors are available upon request, please contact factory for pricing details.

We proudly use **TIGERcolor** visit www.krdoors.com for our color charts.

OPTIONS



GENERAL NOTES

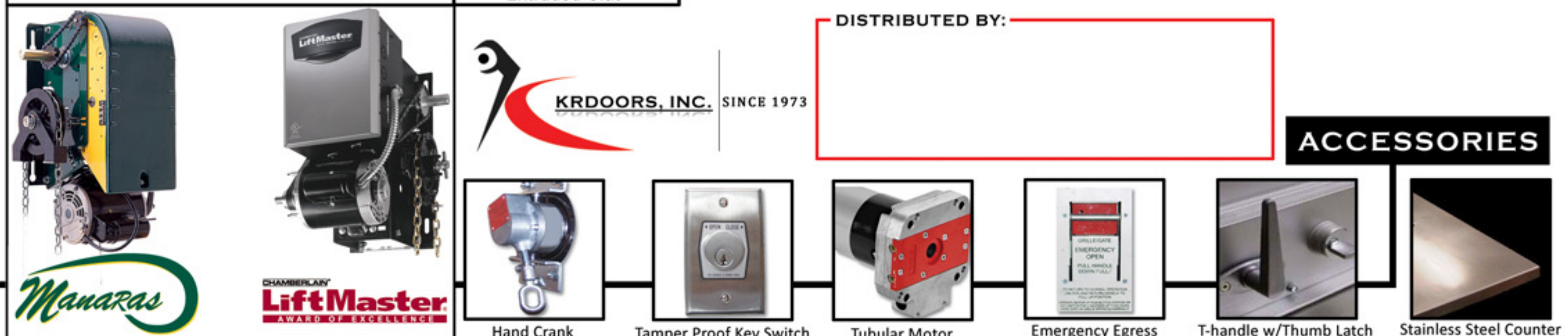
Clearances are based upon standard door construction. Reduced clearances are available. Some options may require additional clearance. Architectural drawings for specific applications are available upon request. If seeking information that is not on this media, please consult factory so that we can better assist your needs.

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DISTRIBUTED BY:



ACCESSORIES



**MANUFACTURER SPECIFICATIONS: 08331 – Coiling Counter Doors****Part 1 - GENERAL**

1. Aluminum Counter Shutter “ACD” Door Model: as manufactured by KRDOORS, INC., California.
2. Quality Assurance:
 - a. Design all rolling service doors to withstand cycle life of 10,000 / 20,000 / 50,000 / 100,000 cycles.

OPERATION

1. Types of Operation:
 - a. Hand Chain: recommended for service doors over 10’0” wide and/or 8’0” high.
 - b. Push-up: not recommended for service doors over 80 sqft. (e.g 10’0” W x 8’0” H)
 - c. Manual Hand Crank (Optional): provided by means of a gear reduction.
 - d. Motor operator (Optional): Lift-Master/Manaras jack-shaft type electric operator UL325 compliant. Tubular operator incorporated inside barrel assembly. (optional)
2. Mounting Options:
 - a. Face-Mount: fastened to the face of the wall opening-standard.
 - b. Between-Jamb Mounting: fastened between the jambs of the wall opening (optional).
 - c. Drive Side: for hand-chain, hand-crank or motor operated service doors, the drive oriented for left-hand or right hand use facing the reference side of the door (side with exposed barrel assembly or hood).
3. RELATED WORK:
 - a. Opening preparation, access panels, finish or field painting is in the scope of the work of other sections or trades.

Part 2 – PRODUCT**CURTAIN**

1. Material:
 - a. Curtain consists of interlocking aluminum extruded slats 1 ½” (6063-T6) with a thickness of .062.
2. Finish: all non-plated components of the door shall receive one coat of rust-inhibitive primer.
 - a. Mill-finished aluminum (Standard)
 - b. Bronze Anodized
 - b. Clear Anodized
3. Bottom Bar: bottom of curtain is reinforced with extruded aluminum tubular bottom bar 5”. Available in:
 - a. Mill-finish aluminum (standard)
 - b. Bronze Anodized
 - c. Clear Anodized

GUIDES

1. Guide Assemblies: guides consist of 2 ½" extruded aluminum (6063-T6) 2 ½". The guides attached to structural steel angles or roll formed galvanized (G-90) steel angles; by structural steel support tubes. Guides available in:
 - a. Mill-finish aluminum (standard)
 - b. Bronze Anodized
 - c. Clear Anodized
2. Wear Strips: guides are furnished with wool pile wear strips to prevent premature wear and reduce noise.
3. Jamb Construction- mounting options:
 - a. Steel Jambs: supplied with self-tapping fasteners
 - b. Wood Jambs: supplied with lag bolt fasteners
 - c. Masonry Jambs: supplied with anchor bolt fasteners
 - d. Non-masonry Jambs: for jambs consisting of drywall or plaster

COUNTERBALANCE SYSTEM

1. Headplates : headplate brackets are made from 3/16" or ¼" steel plates attached to the wall angle of the guide assembly with ½" diameter bolts. The drive bracket is fitted with a sealed self-aligning ball bearing. Head plates receive one coat of rust-inhibitive primer.
2. Barrel: the barrel will be made from a minimum 4 ½" O.D. x .120" wall structural steel pipe. Deflection of pipe under full load shall not exceed .03" per foot of span.
3. Counterbalance: the curtain shall be counterbalanced by torsion.
 - a. Torsion Spring Assembly: oil-tempered, helical torsion springs are, grease packed and mounted on a continuous steel torsion shaft.

HOUSING COVER

1. Hood: rolling service doors may be furnished with a hood enclosure, as follows:
 - a. Round Hood: enclosures are comprised of 24 gage galvanized steel. (Aluminum optional)
 - B. Square Hood: enclosures are comprised of 24 gage galvanized steel. (Aluminum optional)

LOCKING HARDWARE

1. Lock- rolling service doors may be provided with lock. Optional, as follows:
 - a. Cylinder Locking: with T-Turn Handle, inside and outside (motor operated doors require a model DH Lift-Master operator in conjunction with the locking mechanism).
 - b. Bottom Slide Locks: bottom galvanized slide locking device (padlock by others) for use with push-up, hand chain, and hand -crank operated doors (motor operated doors require a model DH Lift-Master operator in conjunction with slide locks).
 - c. Hand Chain Lock: provided for doors operated with hand chain (padlock by others).

PART 3 – EXECUTION

1. Installation: to be by authorized representative according to KRDOORS, Inc. standards and instructions.
2. Warranty- provide manufacturer's 1 year warranty from the time of shipment against defects in workmanship and materials.

STAINLESS / STAINLESS COUNTER DOORS

MODEL: SCD/SSCD

Guaranteed Quality Since 1973

BASIC INFORMATION

MADE IN THE USA



QUALITY

KRDOORS, INC. sources the highest quality materials and exacts superior workmanship in order to provide an unbeatable combination of durability and efficiency with the most simplistic operation. Our success has been built on the consistency in which we provide dependable quality products.

TYPES OF OPERATIONS

KRD offers a wide range of operation options to suit your specific needs. Those available include; hand chain, manual push-up, hand crank, and motor operated doors.

CURTAIN

Interlocking steel / #4 stainless steel slats roll-formed from commercial quality hot-dipped galvanized (G-90) steel per ASTM A-653. 24 Gage steel – standard. Doors exceeding 16'0" may require 22 gage steel. Slat designs from large curved slat, large flat slat, perforated large slat, or small flat slat.

GUIDES

Assemblies: guides consist of roll-formed 10 gage galvanized (G-90) Steel U-Channel Guides 2" or #4 stainless steel.

BARREL

KRD offers 4 1/2" minimum diameter barrels engineered to deflect not more than .03" per foot of width. Torsion spring assembly consists of oil-tempered, helical torsion springs, grease packed and mounted on a continuous steel torsion shaft to counter balance the weight of the curtain.

DESIGNED FOR MAXIMUM SPACE SAVING

The upward coiling action of KRDOORS minimizes the space required for door operation. When fully open the door will not inhibit wall space, use additional overhead area, or interfere with the interior of the building.

INSTALLATION

KRD products have been specifically engineered to ensure ease of installation without the need for special equipment. KRD offers continuous mounting angle construction along with fully assembled door curtains, counter-balance assemblies and other components which will significantly reduce installation time and expensive field labor. Full installation instructions and attachment hardware are furnished with each door.



Small Storage Applications



Service Counter Applications



Stainless Steel Applications

SAFETY, SAFETY, SAFETY



PROUD MEMBERS



A True Manufacturer of Rolling Steel and Aluminum Products

Since 1973

www.krdoors.com

CA Lic. # 711394

8623 S. Mettler Avenue ■ Los Angeles ■ CA ■ 90003 ■ T: 1.877.883.6677 ■ F: 323.778.6339

MODEL: SSD / SSCD

KRD STAINLESS / STEEL STAINLESS COUNTER DOORS

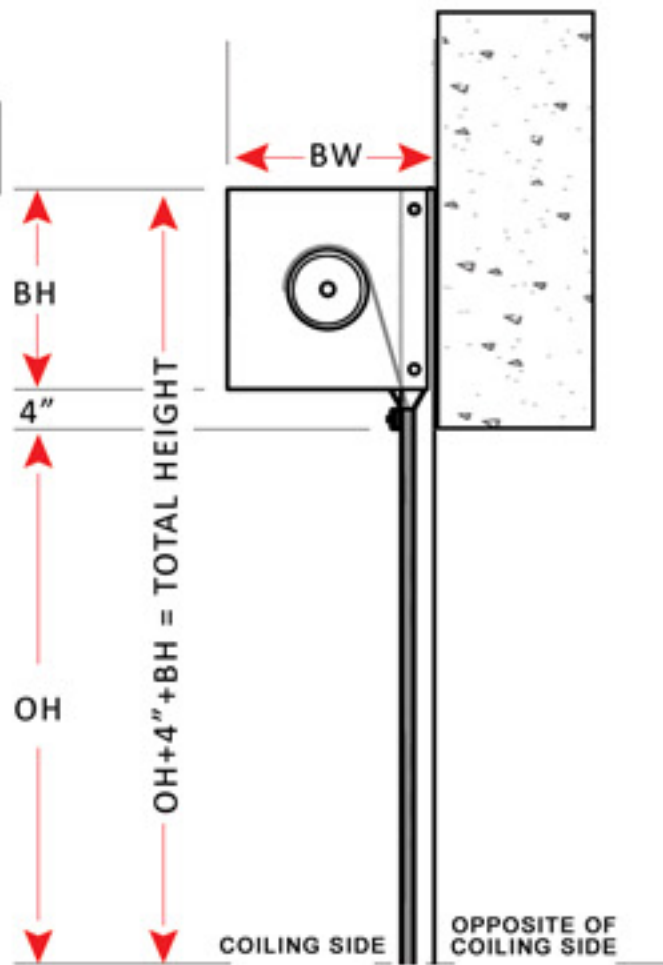
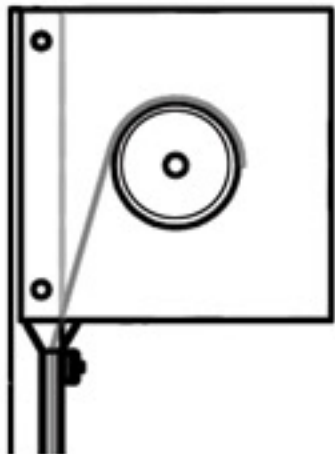
MADE IN THE USA



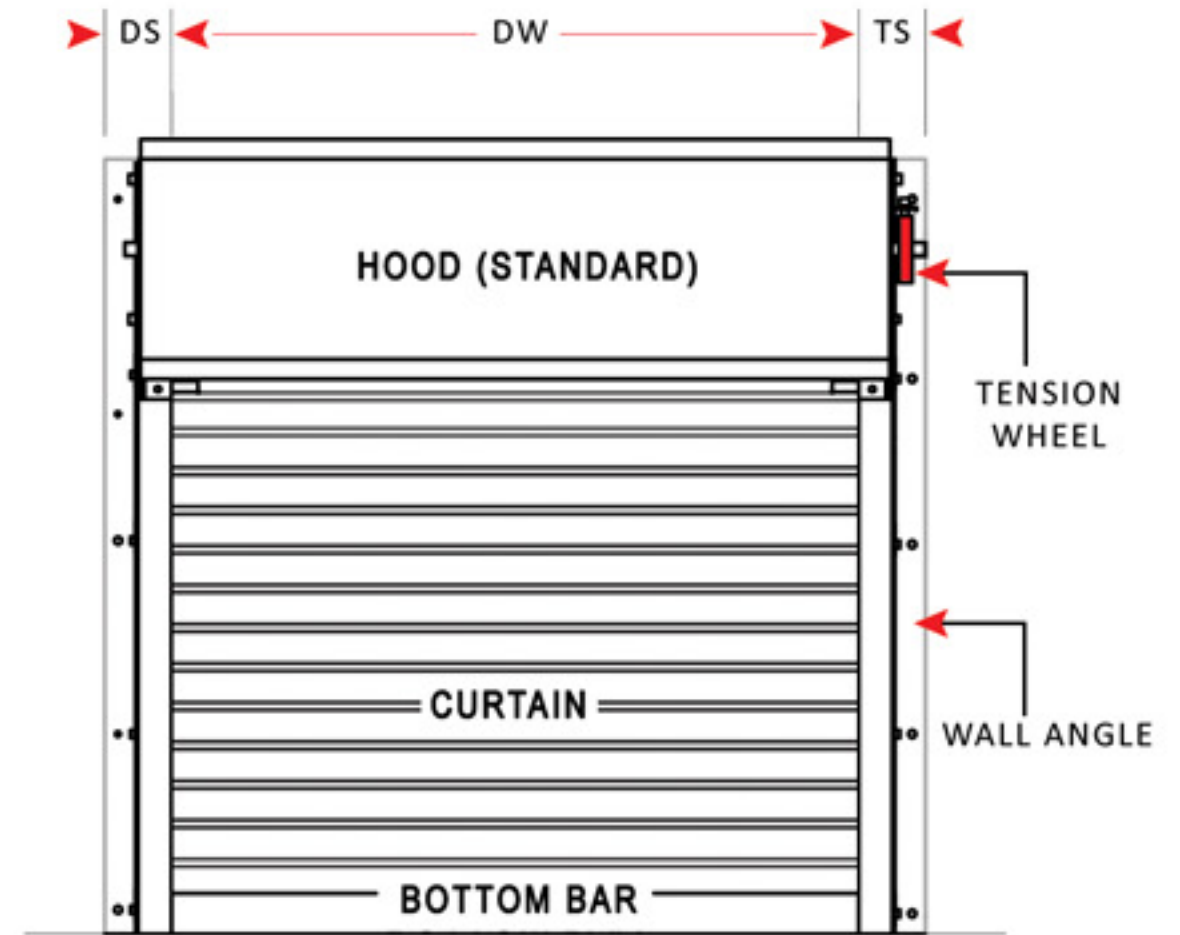
CLEARANCES

BRACKET PLATE

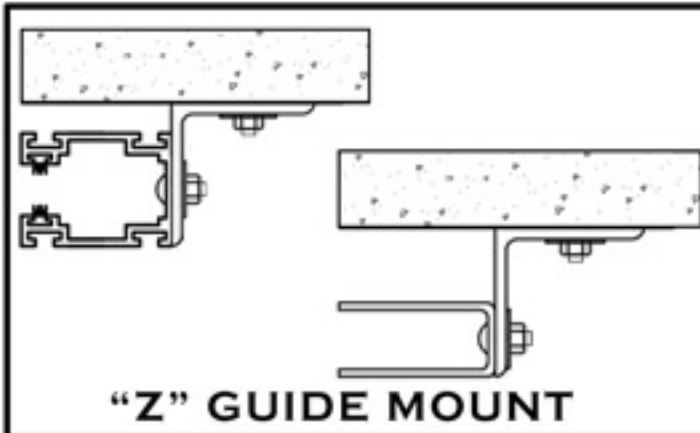
HEIGHT	BRACKET HEIGHT
3-6ft.	10"
7-10ft.	11"



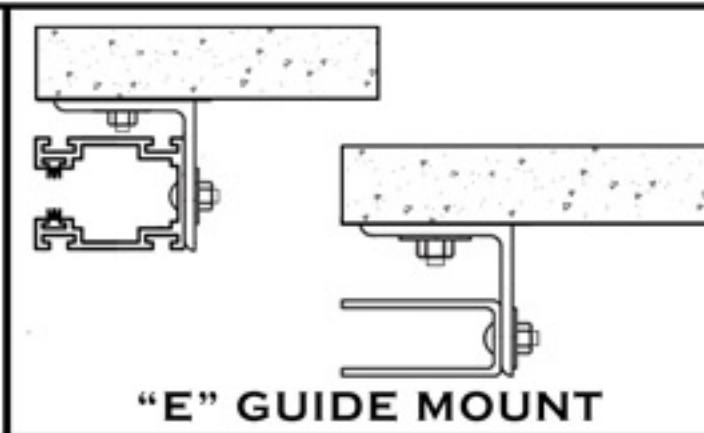
MANUAL PUSH-UP
OPERATION
(Maximum of 80 Sq./Ft.)



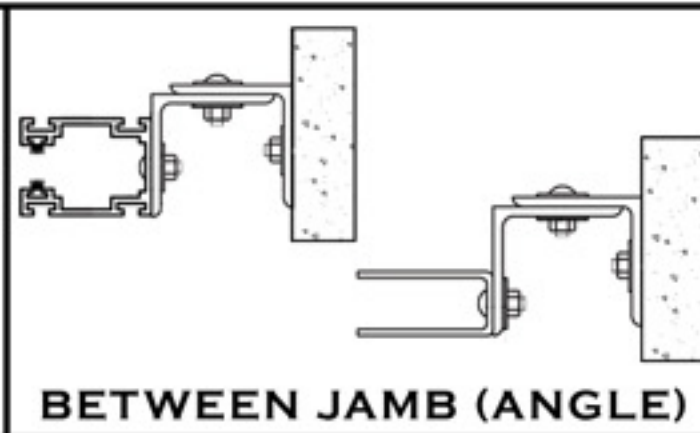
GUIDE DETAIL



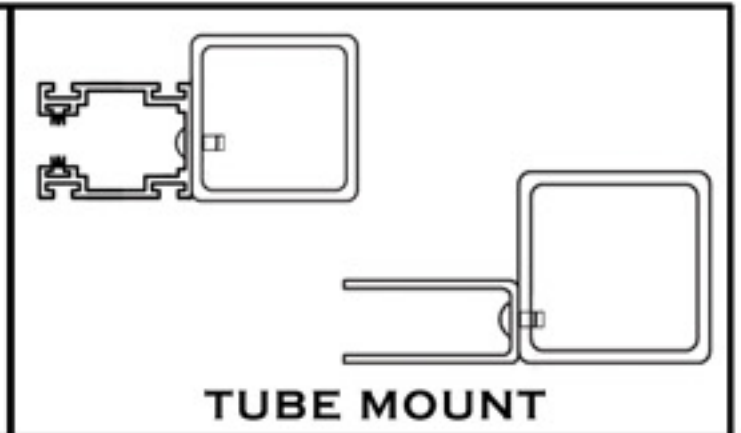
"Z" GUIDE MOUNT



"E" GUIDE MOUNT



BETWEEN JAMB (ANGLE)



TUBE MOUNT

OPERATIONS

HAND CRANK



TUBULAR MOTOR



Aluminum Extruded
Bottom Bar

GALVANIZED

Curtain, guides, bottom track, door stops, slide locks shall be galvanized finish. Stainless steel, please consult with factory.

PAINTED

Bracket plates, support tubes and barrel shall be painted black or grey primer. Tension wheels shall be painted red. Custom colors are available upon request, please contact factory for pricing details.

We proudly use **TIGERcolor** visit www.krdoors.com for our color charts.

FINISHES

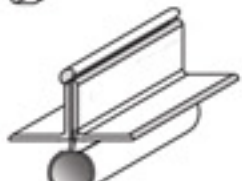
OPTIONS



Mini Flat
Slat



Mini
Perforated
Slat



Double Angle
w/ Bulb Astragal



Guide
w/ Vinyl Strips



Mini Flat Slat
Profile

GENERAL NOTES

Clearances are based upon standard door construction. Reduced clearances are available. Some options may require additional clearance. Architectural drawings for specific applications are available upon request. If seeking information that is not on this media, please consult factory so that we can better assist your needs.

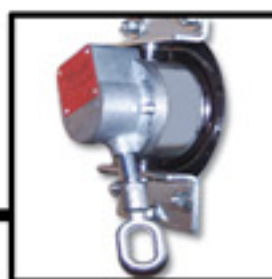
2010 KRDOORS, INC. | KRDOORS, INC. reserves the right to change specifications without notice. refer to standard specification sheets (available upon request) for complete product information.

DISTRIBUTED BY:



KRDOORS, INC. SINCE 1973

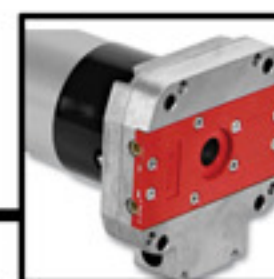
ACCESSORIES



Hand Crank



Tamper Proof Key Switch



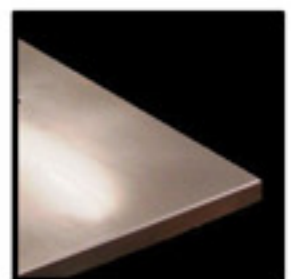
Tubular Motor



Emergency Egress



T-handle w/ Thumb Latch



Stainless Steel Counter



STEEL / STAINLESS COUNTER DOOR
MODEL: SCD | SSCD

8623 S. Mettler Avenue ■ Los Angeles ■ CA ■ 90003

Toll Free: 877.883.6677 ■ Local: 323.778.6363 ■ Fax: 323.778.6339

MANUFACTURER SPECIFICATIONS: 08331 – Coiling Counter Doors

Part 1 - GENERAL

1. Steel / Stainless Counter ("SCD- SSCD") Door Model as manufactured by KRDOORS, INC., California.

2. Quality Assurance:

a. Design all rolling service doors to withstand cycle life of 10,000 / 20,000 / 50,000 / 100,000 cycles.

OPERATION

1. Types of Operation:

a. Hand Chain: recommended for service doors over 10'0" wide and/or 8'0" high.

b. Push-up: not recommended for service doors over 80 sq.ft.

c. Manual Hand Crank: provided by gear reduction hand crank provided optionally.

d. Motor operated: Lift-Master/Manaras jack-shaft type electric operator

e. Tube operated: internal Simu tube operator.

2. Mounting Options:

a. Face-Mount: fastened to the face of the wall opening – standard.

b. Between-Jamb Mounting: fastened between the jambs of the wall opening provided optionally.

c. Drive Side: : for hand-chain, hand-crank or motor operated service doors, the drive oriented for left-hand or right hand use facing the reference side of the door (side with exposed barrel assembly or hood).

3. RELATED WORK:

a. Opening preparation, access panels, finish or field painting is in the scope of the work of other sections or trades.

Part 2 – PRODUCT

CURTAIN

1. Material: SCD / SSCD pattern - Interlocking steel / #4 stainless steel slats roll-formed from commercial quality hot-dipped galvanized (G-90) steel per ASTM A-653. 24 Gage steel – standard. Doors exceeding 16'0" may require 22 gage steel.

2. Slat Design Type:

a. #4 Stainless Steel Flat Slat: 1 ½" suitable for door under 20'0" wide.

b. Small Flat Slat: 1 ½" suitable for doors under 18'0" wide.

3. Finish/Color:

a. Gray: one coat white epoxy primer with top coat of gray polyester paint.

b. White: one coat white epoxy primer with top coat of white polyester paint.

c. Tan: one coat white epoxy primer with top coat of tan polyester paint.

d. Galvanized: G-90 coating.

e. TigerCoat™ Powdercoat available in 187 standard colors – optional

f. #4 Stainless Steel Finish

4. End-locks: eliminates Lateral movement of the slats.

a. Zinc-plated metal end-locks fastened with two zinc-plated steel rivets

(Curtain Continued)

5. Bottom Bar and Seal:

- a. bottom of curtain is constructed with one roll-formed galvanized (G-90) steel angles, minimum 1 ½" x 1 ½" x 1/8". Bottom astragal – standard.
- b. #4 stainless steel – optional.
- c. Aluminum extruded (6063-T6) tubular bar 5" with cylinder locking, mill finish – optional.
- d. #4 stainless steel tubular bar 5" with cylinder locking – optional.

6. Wind load: designed to withstand 20 pounds per square foot wind load.

GUIDES

1. Guide Assemblies: guides consist of roll-formed 10 gage galvanized (G-90) Steel U-Channel Guides 2" or #4 stainless steel.

2. Jamb Construction: mounting options:

- a. Steel Jambs: supplied with self-tapping fastener.
- b. Wood Jambs: supplied with lag bolt fasteners.
- c. Masonry Jambs: supplied with anchor bolt fasteners.
- d. Non-masonry Jambs: for jambs consisting of drywall or plaster.

3. Weather Seal: guide brush seal or snap-on vinyl seal (optional).

COUNTERBALANCE SYSTEM

1. Head plates: head plate brackets shall be made from 3/16" steel plates attached to the wall angle of the guide assembly with ½" diameter bolts. The drive bracket is fitted with a sealed self-aligning ball bearing. Head plates receive one coat of rust-inhibitive primer.

2. Barrel: the barrel is a minimum 4 ½" O.D. x .120" wall structural steel pipe. Deflection of pipe under full load shall not exceed .03" per foot of span.

3. Counterbalance: the curtain shall be counterbalanced by torsion

- a. Torsion Spring Assembly: oil-tempered, helical torsion springs are, grease packed and mounted on a continuous steel torsion shaft.

HOUSING COVER

1. Hood: rolling service doors may be furnished with a hood enclosure, as follows:

- a. Round Hood: enclosures are comprised of 24 gage galvanized steel. #4 stainless steel – optional.
- b. Square Hood: enclosures are comprised of 24 gage galvanized steel. #4 stainless steel – optional.

LOCKING HARDWARE

1. Lock: rolling service doors may be provided with lock. Optional, as follows:

- a. Bottom Slide Lock: bottom galvanized slide locking device (padlock by others) for use with push-up, hand chain, and hand-crank operated doors (motor operated doors require a model DH Lift-Master operator in conjunction with slide locks).
- b. Hand Chain Lock: provided for doors operated with hand chain (padlock by others).

PART 3 – EXECUTION

1. Installation: to be by authorized representative according to KRDOORS, Inc. standards and instructions.

2. Warranty- provide manufacturer's 1 year warranty from the time of shipment against defects in workmanship and materials.

ALUMINUM LEXAN ROLLING GRILLES MODEL: ALEX

Guaranteed Quality Since 1973

BASIC INFORMATION

MADE IN THE USA

QUALITY

KRDOORS, INC. sources the highest quality materials and exacts superior workmanship in order to provide an unbeatable combination of durability and efficiency with the most simplistic operation. Our success has been built on the consistency in which we provide dependable quality products.

TYPES OF OPERATIONS

KRD offers a wide range of operation options to suit your specific needs. Those available include; hand chain, manual push-up, hand crank, and motor operated doors.

CURTAIN

A combination of Lexan polycarbonate/resin sheets and aluminum extruded panels (6063-T6) arranged for 100% coverage of the curtain. 1/8" Lexan panels with 2" intermediate aluminum panels at 1/8" are inserted into continuous horizontal extruded hinge sections, allowing a full 48" x 2 1/2" unobstructed view between panels. Our Aluminum extruded horizontal rib design, of 1/2" x 1 1/2", exceeds industry standard.

GUIDES

Guides consist of 2 1/2" extruded aluminum (6063-T6) 2 1/2". The guides attached to structural steel angles or roll formed galvanized (G-90) steel angles; by structural steel support tubes.

BARREL

KRD offers 4 1/2" minimum diameter barrels engineered to deflect not more than .03" per foot of width. Torsion spring assembly consists of oil-tempered, helical torsion springs, grease packed and mounted on a continuous steel torsion shaft to counter balance the weight of the curtain.

DESIGNED FOR MAXIMUM SPACE SAVING

The upward coiling action of KRDOORS minimizes the space required for door operation. When fully open the door will not inhibit wall space, use additional overhead area, or interfere with the interior of the building.

INSTALLATION

KRD products have been specifically engineered to ensure ease of installation without the need for special equipment. KRD offers continuous mounting angle construction along with fully assembled door curtains, counter-balance assemblies and other components which will significantly reduce installation time and expensive field labor. Full installation instructions and attachment hardware are furnished with each door.



Residential Applications



Storefront Applications



Office Applications

SAFETY, SAFETY, SAFETY



PROUD MEMBERS



A True Manufacturer of Rolling Steel and Aluminum Products

Since 1973

www.krdoors.com

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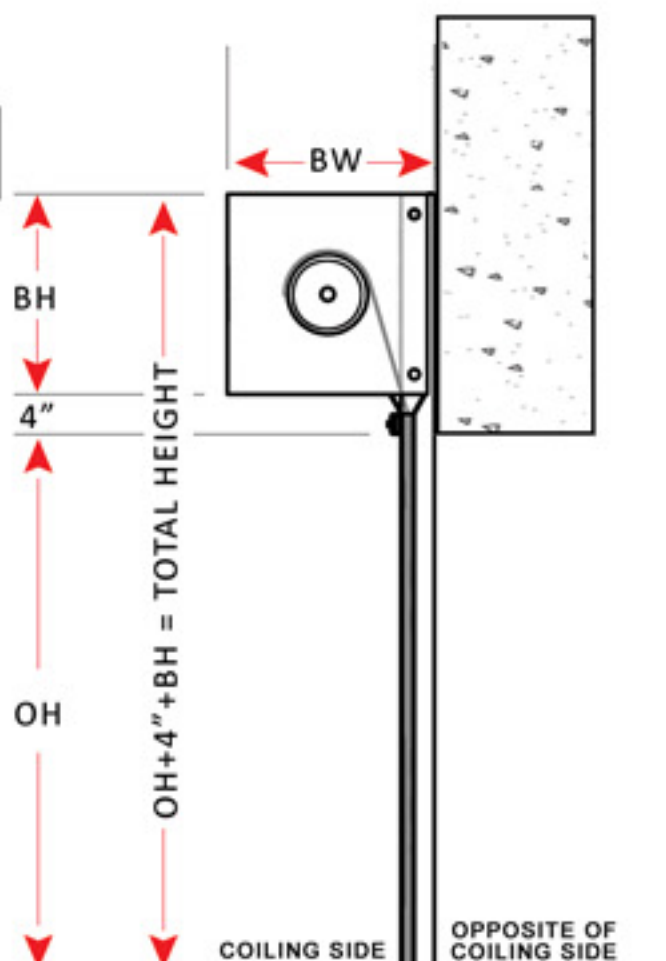
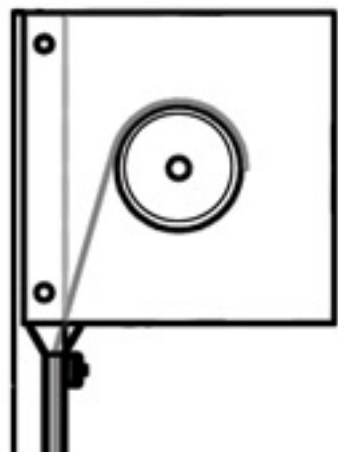
MODEL: ALEX KRD ALUMINUM LEXAN ROLLING GRILLE



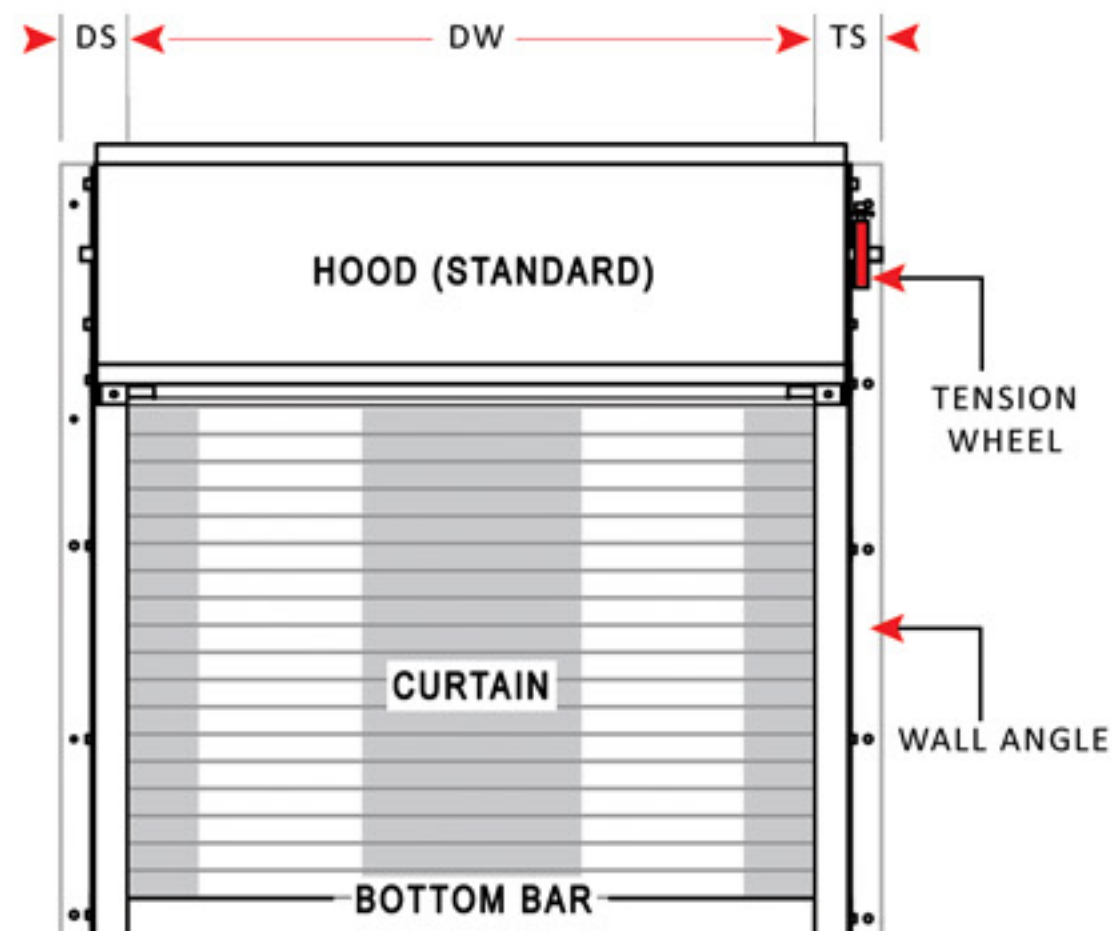
CLEARANCES

BRACKET PLATE

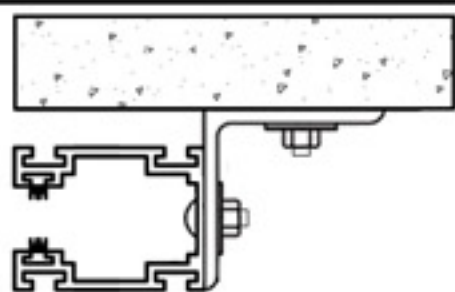
HEIGHT	BRACKET HEIGHT
3-6ft.	10"
7-10ft.	12"
11-14ft.	14"
15-20ft.	16"



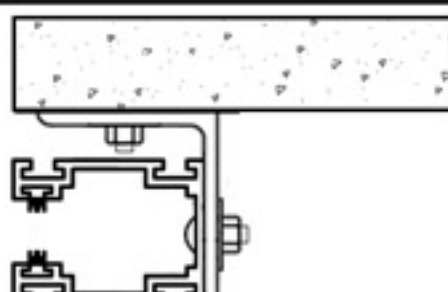
MANUAL PUSH-UP
OPERATION
(Maximum of 80 Sq./Ft.)



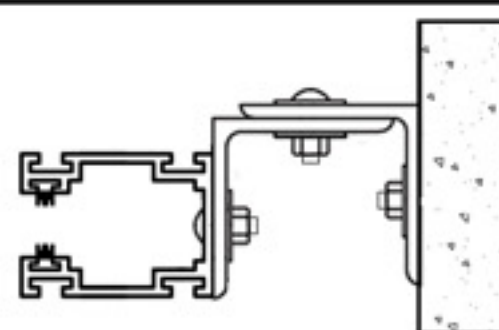
GUIDE DETAIL



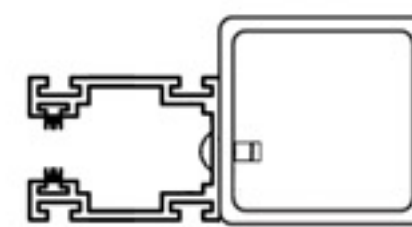
"Z" GUIDE MOUNT



"E" GUIDE MOUNT



BETWEEN JAMB (ANGLE)



TUBE MOUNT

OPERATIONS

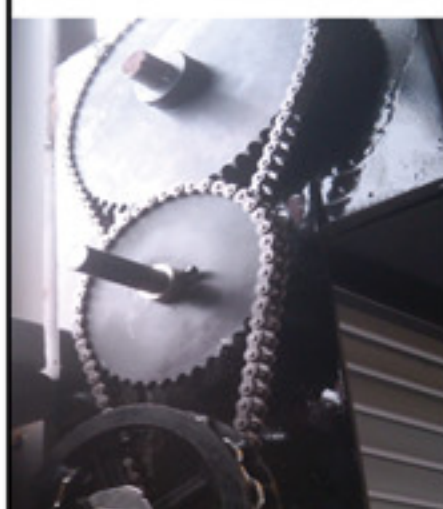
STANDARD DUTY



MEDIUM DUTY



HEAVY DUTY



ALUMINUM

Curtain, guides, bottom track, door stops shall be aluminum mill finish.

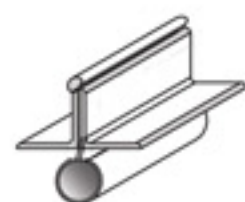
STEEL

Bracket plates, support tubes and barrel shall be painted black or grey primer. Tension wheels shall be painted red. Custom colors are available upon request, please contact factory for pricing details.

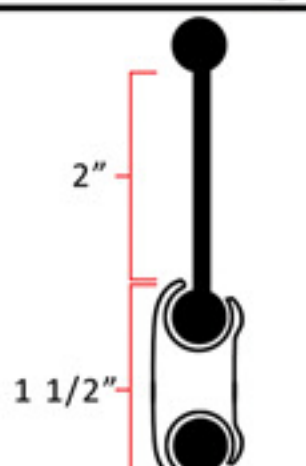
We proudly use **TIGERcolor** visit www.krdoors.com for our color charts.

FINISHES

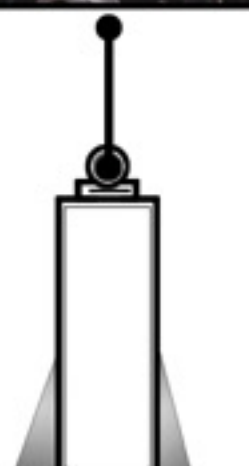
DETAILS



Double Angle
w/ Bulb Astragal



Curtain Detail
(Side Profile)



Aluminum Extruded
Bottom Bar

GENERAL NOTES

Clearances are based upon standard door construction. Reduced clearances are available. Some options may require additional clearance. Architectural drawings for specific applications are available upon request. If seeking information that is not on this media, please consult factory so that we can better assist your needs.

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ACCESSORIES



Manarac



LiftMaster
AWARD OF EXCELLENCE



Remote Controls



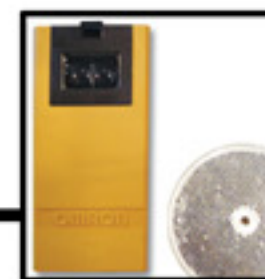
Tamper Proof Key Switch



Push Button Station



Emergency Egress



Safety Eyes



Wireless Entry



ALUMINUM LEXAN ROLLING GRILLE

MODEL: ALEX

8623 S. Mettler Avenue ■ Los Angeles ■ CA ■ 90003

Toll Free: 877.883.6677 ■ Local: 323.778.6363 ■ Fax: 323.778.6339

MANUFACTURER SPECIFICATIONS: 08332 – Overhead Coiling Grilles

Part 1 - GENERAL

1. Aluminum Rolling Lexan "ALEX" Door Model: as manufactured by KRDOORS, INC., California.
2. Quality Assurance:
 - a. Design all rolling service doors to withstand cycle life of 10,000 / 20,000 / 50,000 / 100,000 cycles.

OPERATION

1. Types of Operation:
 - a. Hand Chain: recommended for service doors over 10'0" wide and/or 8'0" high.
 - b. Push-up: not recommended for service doors over 80 sqft. (e.g 10'0" W x 8'0" H)
 - c. Manual Hand Crank (Optional): provided by means of a gear reduction.
 - d. Motor operator (Optional): Lift-Master/Manaras jack-shaft type electric operator UL325 compliant.
2. Mounting Options:
 - a. Face-Mount: fastened to the face of the wall opening-standard.
 - b. Between-Jamb Mounting: fastened between the jambs of the wall opening (optional).
 - c. Drive Side: for hand-chain, hand-crank or motor operated service doors, the drive oriented for left-hand or right hand use facing the reference side of the door (side with exposed barrel assembly or hood).
3. RELATED WORK:
 - a. Opening preparation, access panels, finish or field painting is in the scope of the work of other sections or trades.

Part 2 – PRODUCT

CURTAIN

1. Material:
 - a. Alex Pattern: a combination of Lexan polycarbonate/resin sheets and aluminum extruded panels (6063-T6) arranged for 100% coverage of the curtain. 1/8" Lexan panels with 2" intermediate aluminum panels at 1/8" are inserted into continuous horizontal extruded hinge sections, allowing a full 48" x 2 1/2" unobstructed view between panels. Our Aluminum extruded horizontal rib design, of 1/2" x 1 1/2", exceeds industry standard.
2. Finish: all non-plated components of the door shall receive one coat of rust-inhibitive primer.
 - a. Mill-finished aluminum (Standard)
 - b. Bronze Anodized
 - b. Clear Anodized
3. Bottom Bar: bottom of curtain is reinforced with extruded aluminum tubular bottom bar 5". Available in:
 - a. Mill-finish aluminum (standard)
 - b. Bronze Anodized
 - c. Clear Anodized

GUIDES

1. Guide Assemblies: guides consist of 2 ½" extruded aluminum (6063-T6) 2 ½". The guides attached to structural steel angles or roll formed galvanized (G-90) steel angles; by structural steel support tubes. Guides available in:
 - a. Mill-finish aluminum (standard)
 - b. Bronze Anodized
 - c. Clear Anodized
2. Wear Strips: guides are furnished with wool pile wear strips to prevent premature wear and reduce noise.
3. Jamb Construction- mounting options:
 - a. Steel Jambs: supplied with self-tapping fasteners
 - b. Wood Jambs: supplied with lag bolt fasteners
 - c. Masonry Jambs: supplied with anchor bolt fasteners
 - d. Non-masonry Jambs: for jambs consisting of drywall or plaster

COUNTERBALANCE SYSTEM

1. Headplates : headplate brackets are made from 3/16" or ¼" steel plates attached to the wall angle of the guide assembly with ½" diameter bolts. The drive bracket is fitted with a sealed self-aligning ball bearing. Head plates receive one coat of rust-inhibitive primer.
2. Barrel: the barrel will be made from a minimum 4 ½" O.D. x .120" wall structural steel pipe. Deflection of pipe under full load shall not exceed .03" per foot of span.
3. Counterbalance: the curtain shall be counterbalanced by torsion.
 - a. Torsion Spring Assembly: oil-tempered, helical torsion springs are, grease packed and mounted on a continuous steel torsion shaft.

HOUSING COVER

1. Hood: rolling service doors may be furnished with a hood enclosure, as follows:
 - a. Round Hood: enclosures are comprised of 24 gage galvanized steel. (Aluminum optional)
 - B. Square Hood: enclosures are comprised of 24 gage galvanized steel. (Aluminum optional)

LOCKING HARDWARE

1. Lock- rolling service doors may be provided with lock. Optional, as follows:
 - a. Cylinder Locking: with T-Turn Handle, inside and outside (motor operated doors require a model DH Lift-Master operator in conjunction with the locking mechanism).
 - b. Bottom Slide Locks: bottom galvanized slide locking device (padlock by others) for use with push-up, hand chain, and hand -crank operated doors (motor operated doors require a model DH Lift-Master operator in conjunction with slide locks).
 - c. Hand Chain Lock: provided for doors operated with hand chain (padlock by others).

PART 3 – EXECUTION

1. Installation: to be by authorized representative according to KRDOORS, Inc. standards and instructions.
2. Warranty- provide manufacturer's 1 year warranty from the time of shipment against defects in workmanship and materials.

INSULATED ROLLING SERVICE DOORS

MODEL: IRS

Guaranteed Quality Since 1973

BASIC INFORMATION

MADE IN THE USA



QUALITY

KRDOORS, INC. sources the highest quality materials and exacts superior workmanship in order to provide an unbeatable combination of durability and efficiency with the most simplistic operation. Our success has been built on the consistency in which we provide dependable quality products.

TYPES OF OPERATIONS

KRD offers a wide range of operation options to suit your specific needs. Those available include; hand chain, manual push-up, hand crank, and motor operated doors.

CURTAIN

Steel slats roll-formed from commercial quality hot-dipped galvanized (G-90) steel per ASTM A-653. 22 Gage steel – standard. Doors exceeding 20'0" may require 20 gage steel.

GUIDES

3 piece guides consist of roll-formed 3" x 3" x 3/16" galvanized (G-90) Steel or structural steel angles.

BARREL

KRD offers 4 1/2" minimum diameter barrels engineered to deflect not more than .03" per foot of width. Torsion spring assembly consists of oil-tempered, helical torsion springs, grease packed and mounted on a continuous steel torsion shaft to counter balance the weight of the curtain.

DESIGNED FOR MAXIMUM SPACE SAVING

The upward coiling action of KRDOORS minimizes the space required for door operation. When fully open the door will not inhibit wall space, use additional overhead area, or interfere with the interior of the building.

INSTALLATION

KRD products have been specifically engineered to ensure ease of installation without the need for special equipment. KRD offers continuous mounting angle construction along with fully assembled door curtains, counter-balance assemblies and other components which will significantly reduce installation time and expensive field labor. Full installation instructions and attachment hardware are furnished with each door.



Fire Rated and Climate Applications



Climate and Sound Applications



Climate Applications

SAFETY, SAFETY, SAFETY



PROUD MEMBERS



Logos above are trademarked or registered to their respective owners.



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Since 1973

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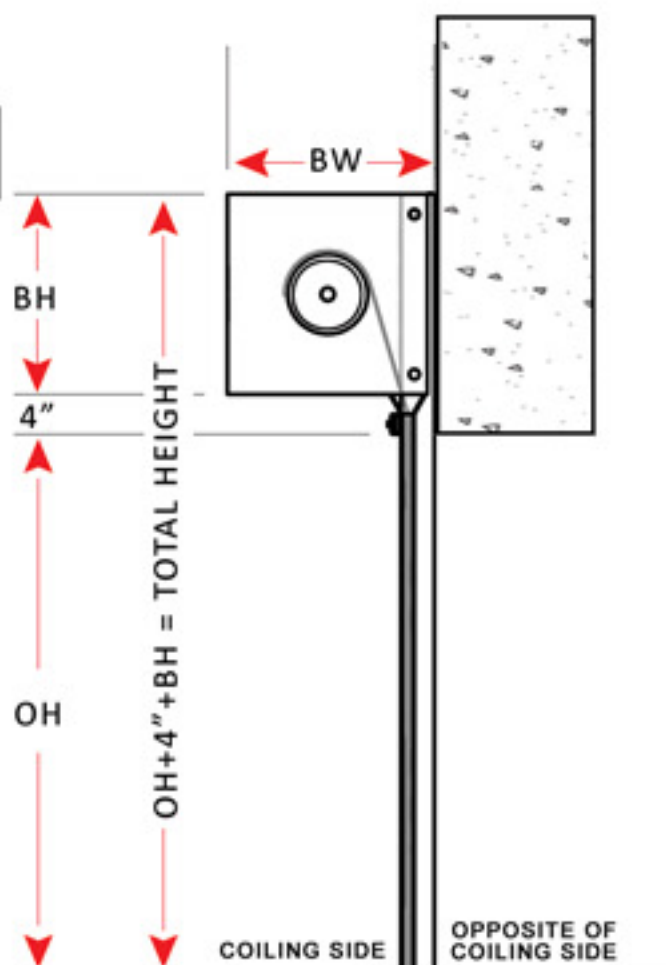
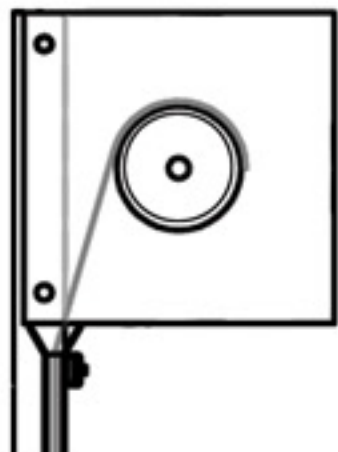
MODEL: IRS KRD INSULATED ROLLING SERVICE DOOR



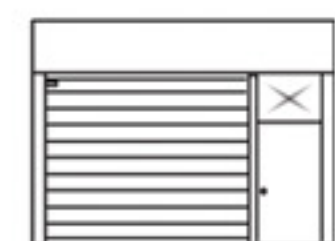
CLEARANCES

BRACKET PLATE

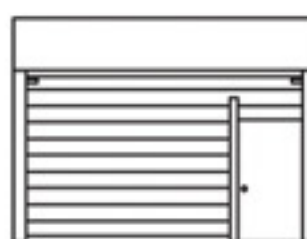
HEIGHT	BRACKET HEIGHT
3-6ft.	10"
7-10ft.	12"
11-14ft.	14"
15-20ft.	16"



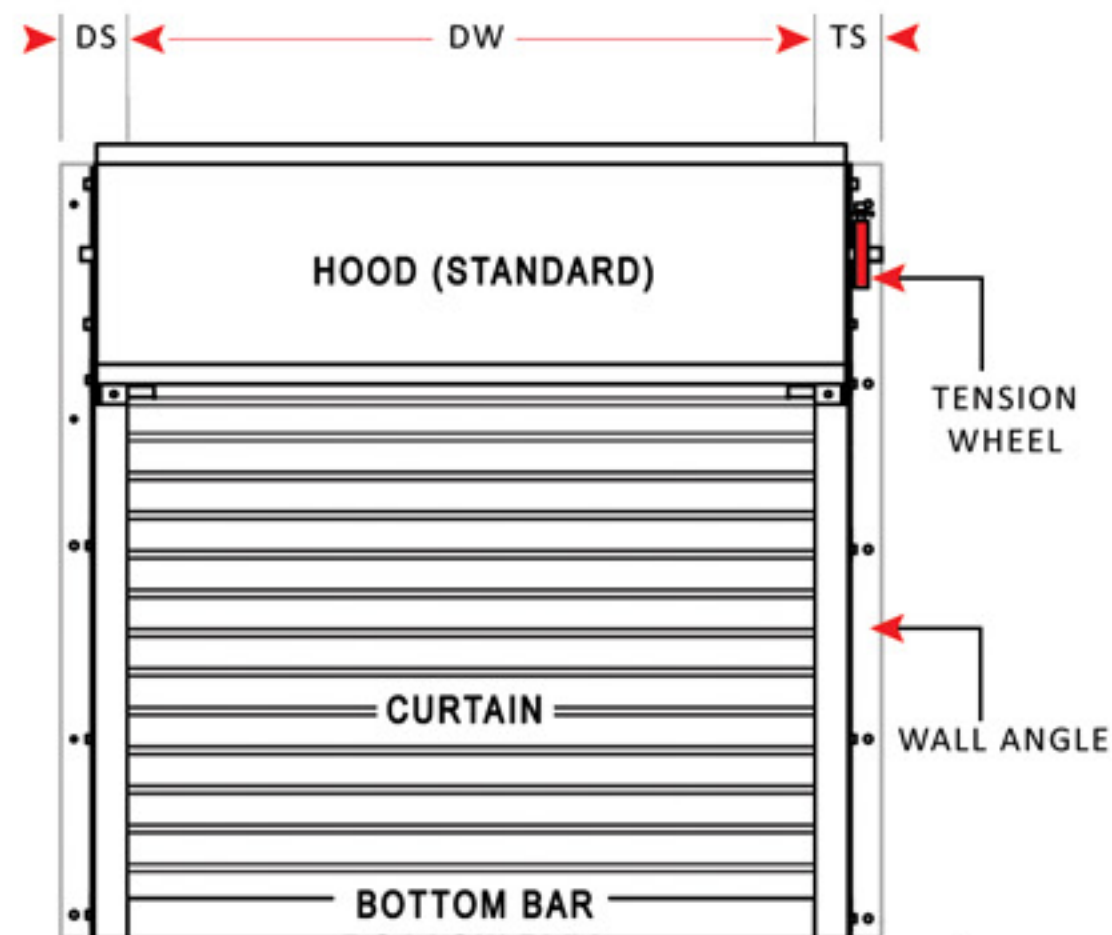
MANUAL PUSH-UP
OPERATION
(Maximum of 80 Sq./Ft.)



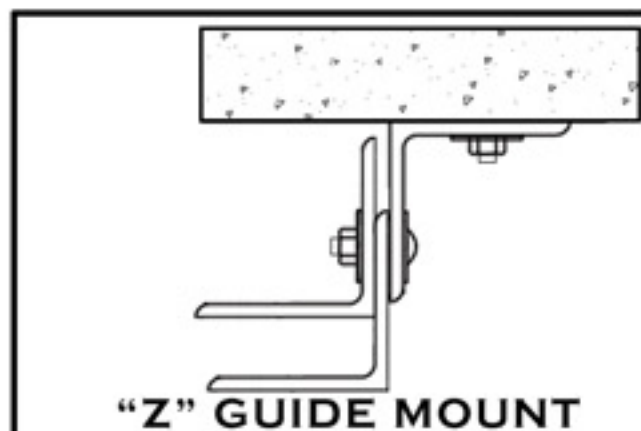
Pilot Door w/ Transom



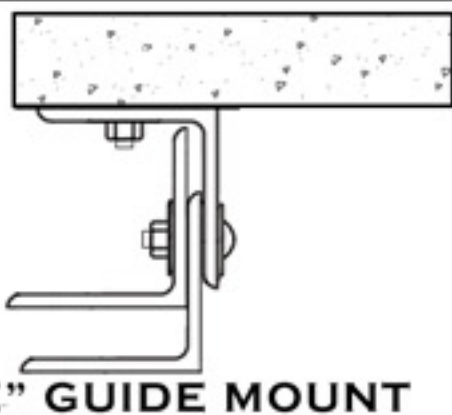
Pilot Door



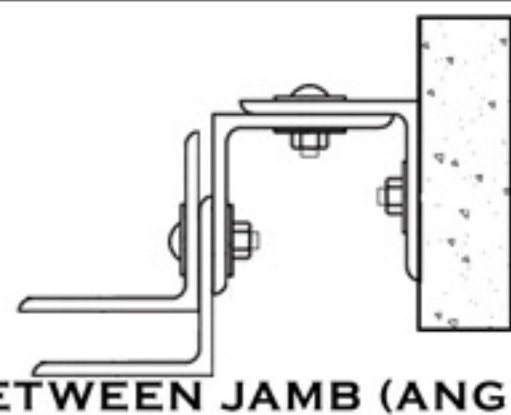
GUIDE DETAIL



"Z" GUIDE MOUNT



"E" GUIDE MOUNT



BETWEEN JAMB (ANGLE)



TUBE MOUNT

OPERATIONS

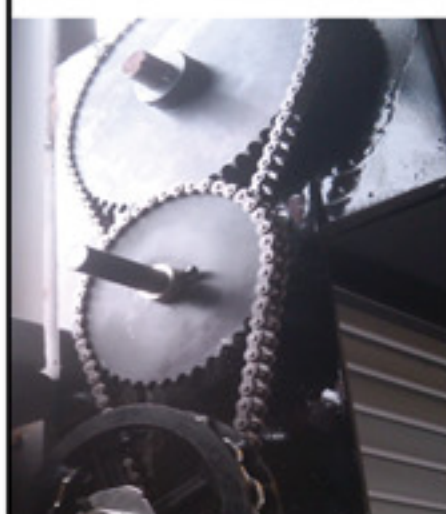
STANDARD DUTY



MEDIUM DUTY



HEAVY DUTY



GALVANIZED

Curtain, guides, bottom track, door stops, slide locks shall be galvanized finish.

PAINTED

Bracket plates, support tubes and barrel shall be painted black or grey primer. Tension wheels shall be painted red. Custom colors are available upon request, please contact factory for pricing details.

We proudly use **TIGERcolor** visit www.krdoors.com for our color charts.

FINISHES

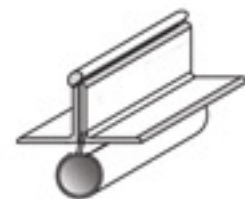
DETAILS



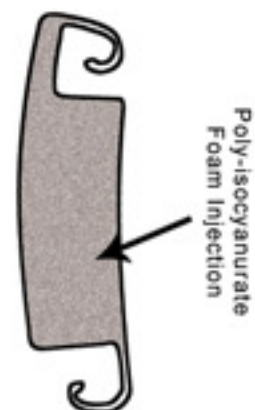
Semi-Curved (Standard)



Guide w/ Vinyl Strips



Double Angle w/ Bulb Astragal



One-Piece Insulated Slat Profile

GENERAL NOTES

Clearances are based upon standard door construction. Reduced clearances are available. Some options may require additional clearance. Architectural drawings for specific applications are available upon request. If seeking information that is not on this media, please consult factory so that we can better assist your needs.

2010 KRDOORS, INC. | KRDOORS, INC. reserves the right to change specifications without notice. refer to standard specification sheets (available upon request) for complete product information.

DISTRIBUTED BY:



KRDOORS, INC. SINCE 1973

ACCESSORIES



Manaralift



LiftMaster



Remote Controls



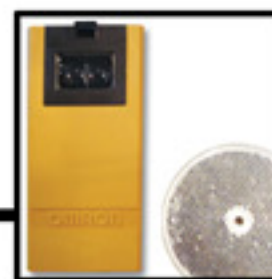
Tamper Proof Keyswitch



Push Button Station



Emergency Egress



Safety Eyes



Wireless Entry

**MANUFACTURER SPECIFICATIONS: 08332 – Overhead Coiling Doors****Part 1 - GENERAL**

1. Insulated Service ("IRS") Door Model as manufactured by KRDOORS, INC., California.
2. Quality Assurance:
 - a. Design all rolling service doors to withstand cycle life of 10,000 / 20,000 / 50,000 / 100,000 cycles.

OPERATION

1. Types of Operation:
 - a. Hand Chain: recommended for service doors over 10'0" wide and/or 8'0" high.
 - b. Push-up: not recommended for service doors over 80 sq.ft.
 - c. Manual Hand Crank: provided by gear reduction hand crank provided optionally.
 - d. Motor operated: Lift-Master/Manaras jack-shaft type electric operator
2. Mounting Options:
 - a. Face-Mount: fastened to the face of the wall opening – standard.
 - b. Between-Jamb Mounting: fastened between the jambs of the wall opening provided optionally.
 - c. Drive Side: : for hand-chain, hand-crank or motor operated service doors, the drive oriented for left-hand or right hand use facing the reference side of the door (side with exposed barrel assembly or hood).
3. RELATED WORK:
 - a. Opening preparation, access panels, finish or field painting is in the scope of the work of other sections or trades.

Part 2 – PRODUCT**CURTAIN**

1. Material: IRS pattern - Interlocking steel slats roll-formed from commercial quality hot-dipped galvanized (G-90) steel per ASTM A-653. 22 Gage steel – standard. Doors exceeding 20'0" may require 20 gage steel.
2. Slat Design Type:
 - a. Flat Slat #8: single sheet galvanized (G-90) steel, to form a top and bottom 3" slat.
 - b. Flat Slat: 22 gage galvanized steel (G-90) top slat, 24 gage galvanized steel (G-90) back slat
 - c. Poly-Isocyanurate foam injection insulation
 - d. R-value insulation factor of 8 and U-value of .160
3. Finish/Color:
 - a. Gray: one coat white epoxy primer with top coat of gray polyester paint.
 - b. White: one coat white epoxy primer with top coat of white polyester paint.
 - c. Tan: one coat white epoxy primer with top coat of tan polyester paint.
 - d. Galvanized: G-90 coating.
 - e. TigerCoat™ Powdercoat available in 187 standard colors - optional
4. End-locks: attached to every other slat to act as wearing surface and prevent lateral movement.
 - a. Zinc-plated metal end-locks fastened with two zinc-plated steel rivets
 - b. Galvanized malleable iron end-locks fastened with zinc-plated steel rivets
 - c. Wind-locks: as required per design wind-load.

5. Bottom Bar and Seal: bottom of curtain is constructed with two roll-formed galvanized (G-90) steel angles, minimum 2" x 2" x 1/8". Bottom astragal—standard.

6. Wind load: designed to withstand 20 pounds per square foot wind load.

GUIDES

1. Guide Assemblies: 3 piece guides consist of roll-formed 3" x 3" x 3/16" galvanized (G-90) Steel or structural steel angles

2. Jamb Construction: mounting options:

- a. Steel Jambs: supplied with self-tapping fastener.
- b. Wood Jambs: supplied with lag bolt fasteners.
- c. Masonry Jambs: supplied with anchor bolt fasteners.
- d. Non-masonry Jambs: for jambs consisting of drywall or plaster.

3. Weather Seal: guide brush seal or snap-on vinyl seal (standard).

COUNTERBALANCE SYSTEM

1. Head-plates: head-plate brackets shall be made from 3/16" or 1/4" steel plates attached to the wall angle of the guide assembly with 1/2" diameter bolts. The drive bracket is fitted with a sealed self-aligning ball bearing. Head plates receive one coat of rust-inhibitive primer.

2. Barrel: the barrel is a minimum 4 1/2"-12" O.D. x .120" wall structural steel pipe. Deflection of pipe under full load shall not exceed .03" per foot of span.

3. Counterbalance: the curtain shall be counterbalanced by torsion

a. Torsion Spring Assembly: oil-tempered, helical torsion springs are, grease packed and mounted on a continuous steel torsion shaft.

HOUSING COVER

1. Hood: rolling service doors may be furnished with a hood enclosure, as follows:

- a. Round Hood: enclosures are comprised of 24 gage galvanized steel with weather seal.
- b. Square Hood: enclosures are comprised of 24 gage galvanized steel with weather seal.

LOCKING HARDWARE

1. Lock: rolling service doors may be provided with lock. Optional, as follows:

- a. Bottom Slide Lock: bottom galvanized slide locking device (padlock by others) for use with push-up, hand chain, and hand-crank operated doors (motor operated doors require a model DH Lift-Master operator in conjunction with slide locks).
- b. Hand Chain Lock: provided for doors operated with hand chain (padlock by others).

PART 3 – EXECUTION

1. Installation: to be by authorized representative according to KRDOORS, Inc. standards and instructions.

2. Warranty- provide manufacturer's 1 year warranty from the time of shipment against defects in workmanship and materials.



CREDIT APPLICATION

8623 S. Mettler Avenue ■ Los Angeles ■ CA ■ 90003

Toll Free: 877.883.6677 ■ Local: 323.778.6363 ■ Fax: 323.778.6339

Business name _____ Phone _____

Address _____ For Past _____ Years.

City, State, Zip _____ Fax _____

Shipping Address _____ Email _____

City, State, Zip _____

D/B/A _____ Federal Tax ID Number _____

Former Business Address _____

Type of Business _____ Date Established _____ How Long in Business _____

Does State, County or City Require a License? _____

If yes, explain _____

No. of Employees _____ Est. Annual Sales _____ Dun's No. _____

Sales Area _____

Has the firm or any of its principals ever filed for bankruptcy? _____

If yes, explain _____

Mortgage Holder/Landlord _____

Address _____ Phone _____

Ownership Sole Owner _____ Partnership _____ Corporation _____

Principal: _____
(Name) (Title) (SSN)

Home Address _____

Principal: _____
(Name) (Title) (SSN)

Home Address _____

Principal: _____
(Name) (Title) (SSN)

Home Address _____

Trade Reference (Fax numbers are required)

Name	_____	Address	_____
Phone	_____	Fax	_____
Name	_____	Address	_____
Phone	_____	Fax	_____
Name	_____	Address	_____
Phone	_____	Fax	_____

Bank Reference

Checking # _____ Loan # _____ Savings # _____
Name & Full Address _____
Phone & Fax _____
Contact Name _____

Authorized Signature for Bank Release **Required** _____

Other Business Debts

Name	Address	Balance Due
------	---------	-------------

Person To Contact Regarding Account (Name & Title) _____

Applicant agrees to pay any collection costs incurred to collect the amount balance, including reasonable attorney's fees.

The undersigned Will/Will Not Submit a financial statement.

The undersigned as an inducement to grant credit warrants that the information submitted is true and correct.

Name _____ Title _____ Date _____

*Please note that failure to fill out the application completely and accurately may result in our inability to approve Credit or delay in the processing of your application.



PERSONAL GUARANTEE

8623 S. Mettler Avenue ■ Los Angeles ■ CA ■ 90003

Toll Free: 877.883.6677 ■ Local: 323.778.6363 ■ Fax: 323.778.6339

We certified that all the information on this form is true and correct and agree to pay for all goods purchased in compliance with the terms of the seller. We fully understand that unless otherwise agreed to in writing, your credit terms are net 30 days and agree to the pay in full within those terms. In consideration of any goods, material, and service of labor provided to applicants on an open account or otherwise by KRDOORS, INC. the undersigned personally will guarantee KRDOORS, INC. Inc the extent of, and not exceeding at any one time, the amount due, together with interest thereon and cost of collection thereof, including reasonable attorney fee, court cost and returned check charges.

Signature: _____

Date: _____

Name: _____

Company Name: _____

Address: _____



CREDIT CARD AUTHORIZATION

8623 S. Mettler Avenue ■ Los Angeles ■ CA ■ 90003

Toll Free: 877.883.6677 ■ Local: 323.778.6363 ■ Fax: 323.778.6339

ATTENTION: CREDIT DEPARTMENT

DATE: _____

COMPANY NAME: _____

I, _____, authorize use of my Visa, MasterCard, or American

Express Credit Card Number: _____

V-CODE: _____ which expires on _____ to apply to the balance of my KRDOORS, INC. Account.

BILLING ADDRESS: _____

BILLING ADDRESS ZIP CODE: _____

I HERBY AUTHORIZE PAYMENT OF THIS ACCOUNT WITH THE CREDIT CARD LISTED ABOVE.

Print Name of Cardholder: _____

Signature: _____

Date: _____

*V-CODE is found on the back of your card and is usually a 3 or 4 digit numbers.



TERMS AND CONDITIONS OF SALES

8623 S. Mettler Avenue ■ Los Angeles ■ CA ■ 90003

Toll Free: 877.883.6677 ■ Local: 323.778.6363 ■ Fax: 323.778.6339

Terms of Sale: Purchase of any products sold by KRDOORS shall be subject to and expressly limited by the terms and conditions contained herein. No changes to, waiver of, or addition to any of these terms and conditions shall be effective unless agreed to in writing and signed by KRDOORS. Buyer acknowledges and agrees that these terms and conditions supersede the terms and conditions of any purchase order or other documentation used by Buyer and, except for delivery and billing addresses, and quantities prices and items ordered, any conflicting or additional terms are void and have no effect, but that Buyer may place orders by use of purchase orders and other documentation for its convenience purposes only. Notwithstanding the foregoing, KRDOORS reserves the right at any time to amend these terms and conditions, and Buyer shall be deemed to accept such amended terms and conditions by ordering products herein offered after the date of such amendment. Additional special terms and conditions of KRDOORS may be applicable with respect to certain products.

Prices: All pricing quotes must be documented in writing and signed by KRDOORS to be valid. Prices quoted, unless otherwise stated. All prices are firm for 30 days from the date quoted. KRDOORS reserves the right to change the prices and specifications of its products at any time without notice. Products purchased from distributors will be at the prices set by those distributors and subject to the terms and conditions of sale of the distributor.

Payment: Payment terms are net 30 days from date of invoice. Credit card payments will not be accepted without prior approval from KRDOORS. Buyer's obligation to pay outstanding invoices and all other amounts is absolute and unconditional and is not subject to any abatement, reduction, set-off, defense, counterclaim, interruption, deferment or recoupment for any reason whatsoever. Balances remaining unpaid at due date are subject to a interest charge of 1.5% per month or the highest rate permitted by law, whichever is lower, until paid. Any discounts, rebates, administrative fees, credits, or other fees due or owed to Buyer will be applied against delinquent balances before payment or reimbursement is made.

Any disputed amounts should be reported immediately and remitted with the undisputed amount by the payment due date. If KRDOORS agrees with the billing dispute, KRDOORS will credit Buyer the amount of the agreed-upon billing dispute. All billing disputes must be made within six (6) months of the applicable invoice date, or will be deemed to be waived.

KRDOORS reserves the right in its sole discretion to require prepayment from any Buyer at any time and may refuse to sell and/or withhold further shipment until all overdue balances are made current. Buyer shall be liable for, and shall reimburse KRDOORS for all costs and expenses it may incur in connection with collection of any amounts owed to KRDOORS or enforcement of its rights, including without limitation, reasonable attorneys' fees and expenses, court costs, and cost of collection agencies.

Returned Goods Policy: Product returns are subject to the following conditions:

All returns are subject to the prior authorization of KRDOORS, in its discretion. An RGA# must be obtained prior to returning any Products. Buyer must notify Customer Support at (877-883-6677) and complete a Returned Goods Authorization "RGA" Form. Customer Support will either authorize or deny the request for return. Only items appearing on an approved RGA Form are acceptable for return. Unauthorized returns no credit issued. All authorized returned goods must be shipped Freight prepaid to the KRDOORS location indicated on the RGA Form, except KRDOORS will pay freight costs for Product shipped-in-error.

Returns that are authorized for Product ordered-in-error or shipped-in-error will not be accepted unless returned within 30 days of delivery.

All returns are subject to a 25% handling/restocking charge, except for Products shipped-in-error. Credit will be issued at the net purchase price for all authorized returns provided:

- a. Products have at least one year shelf-life remaining, or products with original expiration dating of eighteen months or less have at least six months shelf-life remaining.
- b. Proper authorization has been obtained prior to return of products.
- c. Products are in their original packaging.
- d. Products are current inventory items.
- e. The Products have been shipped and billed to Buyer by KRDOORS, and Buyer has paid for said Products.

Credits for returned goods are conditioned upon KRDOORS inspection and approval of such goods upon their return. No advance credits will be accepted.

Warranty: KRDOORS warrants to the original purchaser that, at time of delivery, each standard product manufactured by KRDOORS shall be free of defects in material and workmanship for a period of one (1) year from the date of shipment from KRDOORS. The warranty set forth herein is conditioned upon proper storage, installation, use and maintenance in accordance with applicable written recommendations of KRDOORS. The warranty furnished hereunder does not extend to damage to items purchased hereunder resulting in whole or in part from the use of components, accessories, parts or supplies not furnished by KRDOORS.

KRDOORS sole obligation shall be to repair or replace any defective component or item and pay transportation expenses for such replacement. Buyer shall provide labor for the removal of the defective component or item and installation of its replacement at no charge to KRDOORS. Buyer shall bear all risk of loss or damage to return goods while in transit. In the event no defect or breach of warranty is discovered by KRDOORS upon receipt of any returned item, the item will be returned to Buyer at Buyer's expense and Buyer will reimburse KRDOORS for the transportation charges, labor and associated charges incurred in testing the allegedly defective item.

Shipping: Freight charges will be prepaid when orders are shipped via a transportation mode and carrier selected by KRDOORS. Unless otherwise stated in an agreement, shipment of infusion devices and systems will be made F.O.B. Origin.

When expedited delivery, specialized service, or alternate transportation modes are requested, or if requests are inconsistent with efficient distribution practices, an additional charge to cover the premium expense will be added to the invoice. Inside deliveries or multiple deliveries are subject to additional charges based on current common carrier rates or hourly rates. KRDOORS will provide proof of delivery upon request. If excessive proofs of delivery are requested, KRDOORS may charge a service fee to offset its administrative costs.

Damage or Loss in Transit: Identity of items and extent of damage or loss must be noted on Buyer's copy of delivery document by the agent of the transportation company. If damage is discovered after receipt of shipment, notify the transportation company immediately and request that inspection be made and an inspection report rendered. Concealed shortages or damages within palletized shipments must be reported to KRDOORS Customer Support within 3 business days of delivery or credit will not be allowed. KRDOORS will issue a credit for the loss or damage and file a claim with the carrier, providing your request is promptly forwarded to KRDOORS and received within ten (10) days of delivery. This claim request must be accompanied by a delivery receipt or an inspection report upon which the transportation company has properly noted such damage or loss.

Send copy of carrier freight bill to Customer Support indicating item and quantity damaged or not received.

Count and inspect your freight before carrier departs. Damaged merchandise should not be accepted.