**DURAGRILLE MODEL GBA/GSA BETWEEN JAMB MOUNT CRANK OPERATION.**

DOORS SHALL BE ROLLING STEEL MODEL DURAGRILLE "STANDARD" (GRILLE DOORS) AS MANUFACTURED BY RAYNOR GARAGE DOORS.

- **BRACKETS:** STEEL PLATES, MIN. 3/16" x (4.8mm) THICK, BOLTED TO GUIDES FOR MOUNTING CURTAIN AND BARREL ASSEMBLY. DRIVE SIDE BRACKET SHALL BE FITTED WITH A SEALED BALL BEARING FOR LONG LIFE.
- **BARREL:** STRUCTURAL STEEL PIPE, MINIMUM 4-1/2" x (114.3mm) Dia., 0.09 X 120" x (3.0mm) WALL THICKNESS AND DESIGNED TO LIMIT MAXIMUM DEFORMATION UNDER LOAD, TO .03 (0.76mm) PER FOOT OF SPAN.
- **SPRING COUNTERBALANCE:** THE CURTAIN SHALL BE COUNTERBALANCED BY MEANS OF OIL TEMPERED, HELICAL TORSION SPRINGS, GREASE-PACKED AND MOUNTED ON A SINGLE CONTINUOUS STEEL TORSION SHAFT. SPRINGS SHALL BE COMPRESSION SPRING DESIGN TO FACILITATE ANY COUNTERBALANCE MAINTENANCE. CAST IRON SPRING ANCHORS SHALL TRANSFER FULL SPRING LOADING TO THE BARREL.
- **GUIDES:** SHALL CONSIST OF EXTRUDED ALUMINUM (5083-T5) WOOD PILE INSERTS TO REDUCE NOISE. THE EXTRUDED ALUMINUM GUIDES WILL BE ATTACHED TO EITHER STRUCTURAL STEEL ANGLES, OR STRUCTURAL STEEL SUPPORT TUBES, OR DIRECTLY TO THE JAMBS DEPENDING ON THE REQUIREMENTS.

**MODEL GSA**
- CURTAIN: CONSISTS OF HORIZONTAL 5/16" x (7.9mm) DIAMETER ALUMINUM RODS SPACED VERTICALLY @ 1/2" x (12.7mm) O.C. AND THE LINKS SPACED HORIZONTALLY @ 9/16" x (14.3mm) O.C. THE BOTTOM OF THE CURTAIN TO BE REINFORCED WITH AN ALUMINUM EXTRUDED TUBULAR BOTTOM BAR.

**MODEL GBA**
- CURTAIN: CONSISTS OF HORIZONTAL 5/16" x (7.9mm) DIAMETER ALUMINUM RODS SPACED VERTICALLY @ 1/2" x (12.7mm) O.C. AND THE LINKS SPACED HORIZONTALLY @ 9/16" x (14.3mm) O.C. IN A BRIDGE PATTERN. THE BOTTOM OF THE CURTAIN TO BE REINFORCED WITH AN ALUMINUM EXTRUDED TUBULAR BOTTOM BAR.
- **CRANK:** BY MEANS OF GRAY IRON REDUCTION GEAR AND 3/8" x (15.9mm) SQUARE SHAFT DOWN TO A GEAR BOX WITH HANDLE. MAXIMUM PULL 35 POUNDS. (PADLOCK BY OTHERS.)

- **HOOD—OMIT**
- **HOOD—SHALL BE 24 GA. COMMERCIAL QUALITY HOT-DIPPED GALVANIZED STEEL WITH ROLLED EDGES TO PROVIDE STRUCTURAL RIGIDITY.**
- **HOOD—SHALL BE ALUMINUM .04 (1mm) THICK WITH ROLLED EDGES TO PROVIDE STRUCTURAL RIGIDITY.**
- **FINISH—ALUMINUM CURTAIN, BOTTOM BAR, & GUIDES TO BE BRONZE ANODIZED.**
- **FINISH—ALUMINUM CURTAIN TO BE MILLED. GUIDES & BOTTOM BAR CLEAR ANODIZED.**
- **FINISH—ALUMINUM CURTAIN, BOTTOM BAR, & GUIDES TO BE CLEAR ANODIZED.**
- **LOCKING—GLIDE BOLT TO ENGAGE GUIDE WITH PROVISION FOR PADLOCK. (PADLOCK BY OTHERS.) QUANTITY REQUIRED.**
- **LOCKING—FIVE PIN TUMBLER CYLINDER WITH LOCK BARS TO ENGAGE THE GUIDE. QUANTITY REQUIRED.**
- **LOCK—OPERABLE FROM INTERIOR ONLY.**
- **LOCK—OPERABLE FROM EXTERIOR ONLY.**

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**ELEVATION**

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<th>OPENING HEIGHT</th>
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<th>MOUNT TYPE</th>
<th>OPER.</th>
<th>DRIVE</th>
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<th>GUIDE</th>
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**DIM "B"**

**DIM "A"**

**ADDITIONAL 7" REQUIRED FOR HANDLE**

**LEFT HAND DRIVE**

**RIGHT HAND DRIVE**

**SHOWN**

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### Drawing Details

- **DIM "C"**
- **DIM "D"**
- **4 1/2" (114.3mm) UPSET**
- **CLEAR OPENING**
- **OPENING HEIGHT**
- **"SECTION THRU-OPENING"**

**Opening Width**
- **DIM "E"**
- **DIM "B" (DRIVE SIDE)***
- **DIM "A" (CHARGE SIDE)***

**Options**
- **WOOD JAMBS**
- **STEEL JAMBS**
- **MASONARY JAMBS**
- **BLOCK JAMBS**

**Pattern Options**
- **"GSA" STRAIGHT PATTERN**
- **"GBA" BRICK PATTERN**

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**Sheet 2 of 2**