

**SECTION 08734
COMMERCIAL DOOR OPERATORS
RSX[®] OVERHEAD SECTIONAL DOOR OPERATOR**

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. OVERHEAD SECTIONAL DOOR OPENERS.

1.2 RELATED SECTIONS

- A. SECTION 05500 - METAL FABRICATIONS: SUPPORT FRAMING AND FRAMED OPENING.
- B. SECTION 06200 - FINISH CARPENTRY: WOOD JAMB AND HEAD TRIM.
- C. SECTION 08360 - SECTIONAL OVERHEAD DOORS.
- D. SECTION 08710 - DOOR HARDWARE: PRODUCT REQUIREMENTS FOR CYLINDER CORE AND KEYS.
- E. SECTION 09900 - PAINTING: FIELD APPLIED FINISH.
- F. SECTION 16130 - RACEWAY AND BOXES: CONDUIT FROM ELECTRIC CIRCUIT TO DOOR OPERATOR AND FROM DOOR OPERATOR TO CONTROL STATION.

1.3 REFERENCES

- A. [NEMA 250](#) - ENCLOSURES FOR ELECTRICAL EQUIPMENT (1000 VOLTS MAXIMUM).
- B. [NEMA ICS 2](#) - INDUSTRIAL CONTROL AND SYSTEMS: CONTROLLERS, CONTACTORS, AND OVERLOAD RELAYS, RATED NOT MORE THAN 2000 VOLTS AC OR 750 VOLTS DC.
- C. [NEMA ICS 6](#) - ENCLOSURES FOR INDUSTRIAL CONTROLS AND SYSTEMS.
- D. [NEMA MG 1](#) - MOTORS AND GENERATORS.

1.4 DESIGN / PERFORMANCE REQUIREMENTS

- A. PRODUCTS REQUIRING ELECTRICAL CONNECTION: LISTED AND CLASSIFIED BY UNDERWRITERS LABORATORIES, INC. ACCEPTABLE TO AUTHORITY HAVING JURISDICTION AS SUITABLE FOR PURPOSE SPECIFIED.
- B. WIRING CONNECTIONS: REQUIREMENTS FOR ELECTRICAL CHARACTERISTICS.
 - 1. 230 VOLTS, 60 HZ SINGLE PHASE OR THREE PHASE.

1.5 SUBMITTALS

- A. SUBMIT UNDER PROVISIONS OF SECTION 01300.
- B. PRODUCT DATA: MANUFACTURER'S DATA SHEETS ON EACH PRODUCT TO BE USED, INCLUDING:

1. PREPARATION INSTRUCTIONS AND RECOMMENDATIONS.
 2. STORAGE AND HANDLING REQUIREMENTS AND RECOMMENDATIONS.
 3. DETAILS OF CONSTRUCTION AND FABRICATION.
 4. INSTALLATION METHODS.
- C. SHOP DRAWINGS: INCLUDE DETAILED PLANS, ELEVATIONS, DETAILS OF FRAMING MEMBERS, REQUIRED CLEARANCES, ANCHORS, AND ACCESSORIES. INCLUDE RELATIONSHIP WITH ADJACENT CONSTRUCTION.
- D. MANUFACTURER'S CERTIFICATES: CERTIFY PRODUCTS MEET OR EXCEED SPECIFIED REQUIREMENTS.
- E. OPERATION AND MAINTENANCE DATA: SUBMIT LUBRICATION REQUIREMENTS AND FREQUENCY, AND PERIODIC ADJUSTMENTS REQUIRED.
- 1.6 QUALITY ASSURANCE
- A. MANUFACTURER QUALIFICATIONS: COMPANY SPECIALIZING IN PERFORMING WORK OF THIS SECTION WITH A MINIMUM OF FIVE YEARS EXPERIENCE IN THE FABRICATION AND INSTALLATION OF SECURITY CLOSURES.
- B. INSTALLER QUALIFICATIONS: COMPANY SPECIALIZING IN PERFORMING WORK OF THIS SECTION WITH MINIMUM THREE YEARS AND APPROVED BY MANUFACTURER.
- C. MOCK-UP: PROVIDE A MOCK-UP FOR EVALUATION OF SURFACE PREPARATION TECHNIQUES AND APPLICATION WORKMANSHIP.
1. INSTALL IN AREAS DESIGNATED BY ARCHITECT.
 2. DO NOT PROCEED WITH REMAINING WORK UNTIL WORKMANSHIP AND INSTALLATION IS APPROVED BY ARCHITECT.
 3. REFINISH MOCK-UP AREA AS REQUIRED TO PRODUCE ACCEPTABLE WORK.
- 1.7 DELIVERY, STORAGE, AND HANDLING
- A. STORE PRODUCTS IN MANUFACTURER'S UNOPENED PACKAGING UNTIL READY FOR INSTALLATION.
- B. PROTECT MATERIALS FROM EXPOSURE TO MOISTURE. DO NOT DELIVER UNTIL AFTER WET WORK IS COMPLETE AND DRY.
- C. STORE MATERIALS IN A DRY, WARM, VENTILATED WEATHERTIGHT LOCATION.
- 1.8 PROJECT CONDITIONS
- A. MAINTAIN ENVIRONMENTAL CONDITIONS (TEMPERATURE, HUMIDITY, AND VENTILATION) WITHIN LIMITS RECOMMENDED BY MANUFACTURER FOR OPTIMUM RESULTS. DO NOT INSTALL PRODUCTS UNDER ENVIRONMENTAL CONDITIONS OUTSIDE MANUFACTURER'S ABSOLUTE LIMITS.
- 1.9 WARRANTY
- A. PROVIDE OPERATORS WITH A 3 YEAR OR 20,000 CYCLE LIMITED WARRANTY ON MOTOR AND PARTS.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. ACCEPTABLE MANUFACTURER: OVERHEAD DOOR CORP., 2501 S. STATE HWY. 121, SUITE 200, LEWISVILLE, TX 75067. ASD. TEL. TOLL FREE: (800) 275-3290. PHONE: (469) 549-7100. FAX: (972) 906-1499. WEB SITE: WWW.OVERHEADDOOR.COM. E-MAIL: SALES@OVERHEADDOOR.COM OR EQUAL.**
- B. SUBSTITUTIONS: NOT PERMITTED.**
- C. REQUESTS FOR SUBSTITUTIONS WILL BE CONSIDERED IN ACCORDANCE WITH PROVISIONS OF SECTION 01600.**

2.2 OVERHEAD SECTIONAL DOOR OPERATORS

- A. COMMERCIAL SECTIONAL DOOR OPERATOR: MODEL RSX COMMERCIAL DOOR OPERATOR:**
 - 1. APPLICATION:**
 - A. STANDARD LIFT SECTIONAL DOOR.**
 - 2. ELECTRIC MOTOR: UL LISTED, HP AS RECOMMENDED BY MANUFACTURER.**
 - A. CONSTRUCTION:**
 - 1) OPEN DRIP-PROOF CONSTRUCTION.**
 - B. REDUCTION: PRIMARY REDUCTION IS SUPERBELT, AN AUTO TENSION POLY-V FLEX BELT THAT DOES NOT REQUIRE ADJUSTMENT. SECONDARY REDUCTION IS BY CHAIN AND SPROCKET.**
 - C. DUTY CYCLE: ACCOMMODATE HEAVY USAGE, UP TO 60 CYCLES PER HOUR DURING PEAK USAGE PERIODS.**
 - 1) BRAKE: DC DISC TYPE WITH SELECTABLE PROGRESSIVE BRAKING FOR SMOOTH STOPPING.**
 - 2) CLUTCH: ADJUSTABLE FRICTION DISC TYPE.**
 - 3) LIMIT SYSTEM: LIMITLOCK LIMIT SYSTEM, MAGNETIC TYPE PROVIDING ABSOLUTE POSITIONING WITH PUSH TO SET AND REMOTE SETTING CAPABILITIES. LIMIT SYSTEM SHALL REMAIN SYNCHRONIZED WITH THE DOOR DURING MANUAL OPERATION AND SUPPLY POWER INTERRUPTIONS.**
 - D. PROVIDE 15 (FIFTEEN) CODEDODGER RADIO RECEIVERS THAT ARE DUAL FREQUENCY CYCLING AT 315 MHZ AND 390 MHZ CAPABLE OF STORING 250 SINGLE BUTTON AND/OR 250 OPEN-CLOSE-STOP TRANSMITTERS WITH THE ABILITY TO ADD AND/OR DELETE TRANSMITTERS INDIVIDUALLY, IDENTIFY AND STORE ACTIVATING TRANSMITTER IDS.**
 - 3. SECONDARY REVERSAL:**
 - A. TROLLEY VERSION ONLY INCLUDES AN INTEGRAL ELECTRONIC REVERSING SYSTEM THAT WILL STOP AND REVERSE A CLOSING DOOR UPON DETECTION OF AN OBSTRUCTION AND DESIGNED TO ACCEPT AN OPTIONAL EXTERNAL REVERSING DEVICE.**
 - B. HOIST VERSIONS DESIGNED TO ACCEPT AN OPTIONAL EXTERNAL REVERSING DEVICE.**

PART 3 EXECUTION

3.1 EXAMINATION

- A. VERIFY DOOR SIZES, CONFIGURATION, TOLERANCES AND CONDITIONS ARE ACCEPTABLE.
- B. EXAMINE CONDITIONS OF SUBSTRATES, SUPPORTS, AND OTHER CONDITIONS UNDER WHICH THIS WORK IS TO BE PERFORMED.
- C. IF SUBSTRATE PREPARATION IS THE RESPONSIBILITY OF ANOTHER INSTALLER, NOTIFY ARCHITECT OF UNSATISFACTORY PREPARATION BEFORE PROCEEDING.

3.2 PREPARATION

- A. CLEAN SURFACES THOROUGHLY PRIOR TO INSTALLATION.
- B. PREPARE SURFACES USING THE METHODS RECOMMENDED BY THE MANUFACTURER FOR ACHIEVING THE BEST RESULT FOR THE SUBSTRATE UNDER THE PROJECT CONDITIONS.

3.3 INSTALLATION

- A. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- B. USE ANCHORAGE DEVICES TO SECURELY FASTEN ASSEMBLY WITHOUT DISTORTION OR STRESS.
- C. FIT AND ALIGN ASSEMBLY INCLUDING HARDWARE; LEVEL AND PLUMB, TO PROVIDE SMOOTH OPERATION.
- D. COORDINATE INSTALLATION OF ELECTRICAL SERVICE WITH SECTION 16150. COMPLETE WIRING FROM DISCONNECT TO UNIT COMPONENTS.

3.4 ADJUSTING

- A. TEST FOR PROPER OPERATION AND ADJUST AS NECESSARY TO PROVIDE PROPER OPERATION WITHOUT BINDING OR DISTORTION.
- B. ADJUST HARDWARE AND OPERATING ASSEMBLIES FOR SMOOTH AND NOISELESS OPERATION.

3.5 CLEANING

- A. CLEAN COMPONENTS USING NON-ABRASIVE MATERIALS AND METHODS RECOMMENDED BY MANUFACTURER.
- B. TOUCH-UP, REPAIR OR REPLACE DAMAGED PRODUCTS BEFORE SUBSTANTIAL COMPLETION.

3.6 PROTECTION

- A. PROTECT INSTALLED PRODUCTS UNTIL COMPLETION OF PROJECT.
- B. TOUCH-UP, REPAIR OR REPLACE DAMAGED PRODUCTS BEFORE SUBSTANTIAL COMPLETION.

END OF SECTION