

SECTION 02281

SOIL TREATMENT FOR TERMITE CONTROL

1. **GENERAL:**
 - 1.1 All work included under this heading shall be subject to the General Conditions of the entire operation. This Contractor is required to refer especially thereto.
2. **SUBMITTALS:**

Product Data: Submit per Section 01300.
3. **REQUIREMENTS OF APPLICATOR:**

Registration and license: Applicator shall be registered in accordance with state and local regulations.
4. **PRODUCTS:**
 - 4.1 **MATERIALS:**
 - 4.1.1 **Chemicals:** One of the following chemicals shall be used in the concentration in water emulsion listed:
 - a. Chloropyrifos "Dursban TC" - One percent.
 - b. "Pryfon 6", Mobay Corp., Kansas City, Missouri (800-842-8020).
 - c. Permethrin "Dragnet", Torpedo 0.5 percent.
 - d. "Tribute", by Velsicol.
 - e. Or equal, approved by the Architect.
 - 4.1.2 **Containers:** Soil treatment agents shall be delivered to project site in sealed and labeled containers as supplied by Manufacturer or Formulator. Labels shall bear Manufacturer warning to be observed in handling and use of the material.
 - 4.1.3 **Labels:** Use only termiticides which bear a Federal registration number of the U.S. Environmental Protection Agency.
5. **EXECUTION:**
 - 5.1 **APPLICATION:**
 - 5.1.1 **Soil Treatment Material:** Place prior to placing cushion under concrete floor slabs.
 - 5.1.2 **Soil Treatment:** Apply uniformly and as listed in the following paragraphs:
 - 5.1.3 **Quantity (Minimums):**
 - 5.1.3.1 Along inside of Foundation Walls: 4 gal/10 liner ft.
 - 5.1.3.2 Along outside perimeter of the Foundation: 4 gals/10 linear ft for each foot of depth from finish grade to top of footing.
 - 5.1.3.3 Around utility service, expansion joints or other features that will penetrate the slab: 4 gals/10 linear ft.
 - 5.1.4 **Under concrete slabs:** One gal/10 sq ft as an overall treatment, except use 1-1/2 gals/10 sq ft for gravel fill.
 - 5.1.4.1 Exterior slabs: Extend treatment to a point, 3 feet out from building.
 - 5.1.5 **Soil Poisoning:** Do not begin until preparation of subgrade is ready for sand cushion and vapor barrier.
 - 5.1.6 Do not apply soil poisons when soil is excessively wet.

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- 5.1.7 Slabs without vapor barrier: To prevent capillary absorption by fresh concrete at least 12 hours shall elapse between soil poisoning.
- 5.1.8 Along exterior side of exterior walls: Dig trench 6 inches to 8 inches wide, not less than 12 inches deep. Punch holes to top of footing at not more than 12 inches OC and apply solution. Mix solution with soil as is being placed in trench. Other methods may be used if approved by the Architect.
- 5.1.9 Reapply soil treatment to areas disturbed by subsequent excavation or other construction activities following application.
- 5.2 PROTECTION:
 - 5.2.1 Signs: Post in areas of application, warning workers that soil poisoning has been applied.
 - 5.2.2 **Schedule all soil deadening when employees are not in the area.** Every precaution shall be taken to minimize exposure to chemicals.

End of Section 02281

Hardware Sets

Set: 1.0

Doors: 100a

Description: Exterior

3 Hinge	T4A3386 NRP 4-1/2" x 4-1/2"	US32D	MK
1 Exit Device (rim, classroom)	2100 AU626F	630	YA
1 Door Closer	TB 281 CPS	EN	SA
1 Kick Plate	K1050 10" x 2" LDW CSK	US32D	RO
1 Door Stop	462	US2C	RO
1 Threshold	279x292AFGPK x Opening Width		PE
1 Gasketing	S773D (Head & Jamb)		PE
1 Rain Guard	347A x Door Width		PE
1 Rain Guard	68AR x Door Width		PE
1 Sweep	345ANB x Door Width		PE

Notes: Cylinder furnished by the owner.

Set: 2.0

Doors: 100b, 100c, 100d, 100e

Description: Exterior

3 Hinge	T4A3386 NRP 4-1/2" x 4-1/2"	US32D	MK
1 Exit Device (exit only)	2150 EO	630	YA
1 Door Closer	TB 281 CPS	EN	SA
1 Kick Plate	K1050 10" x 2" LDW CSK	US32D	RO
1 Door Stop	462	US2C	RO
1 Threshold	279x292AFGPK x Opening Width		PE
1 Gasketing	S773D (Head & Jamb)		PE
1 Rain Guard	347A x Door Width		PE
1 Rain Guard	68AR x Door Width		PE
1 Sweep	345ANB x Door Width		PE

Set: 3.0

Doors: 100f, 100g, 100h

Description: Exterior

Notes: All hardware furnished by the Overhead Door Supplier.

Set: 4.0

Doors: 100j, 100k

Description: Warehouse

Notes: All hardware furnished by Overhead Door Supplier.

Set: 5.0 – Base Bid

Doors: 101, 102

Description: Men, Women

3 Hinge	T4A3786 4-1/2" x 4-1/2"	US26D	MK
1 Push Plate	70C-RKW	US32D	RO
1 Pull Plate	BF 107x70C	US32D	RO
1 Door Closer	TB 1431 CPS	EN	SA
1 Kick Plate	K1050 10" x 2" LDW CSK	US32D	RO
3 Silencer	608		RO

Set: 6.0

Doors: 103a

Description: Water

3 Hinge	TA2714 4-1/2" x 4-1/2"	US26D	MK
1 Passage Latch	28 7U15 LL	US26D	SA
1 Wall Stop	409	US32D	RO
3 Silencer	608		RO

Set: 7.0

Doors: 100i

Description: Ramp (Rated)

6 Hinge	T4A3786 4-1/2" x 4-1/2"	US26D	MK
1 Set Auto Flush Bolts	2842	US26D	RO
1 Dust Proof Strike	570	US26D	RO
1 Classroom Lock	LC 28 41 10G37 LL	US26D	SA
1 Coordinator	2672	Black	RO
2 Door Closer	TB 1431 O	EN	SA
2 Kick Plate	K1050 10" x 2" LDW CSK	US32D	RO
2 Wall Stop	409	US32D	RO
1 Gasketing	S88D (Head & Jambs)		PE

Notes: Metal overlapping astragal furnished by Hollow Metal Door Supplier.
Cylinder for lock will be furnished by the Owner.

Set: 8.0 – Alternate One

Doors: 101A, 102A

Description: Toilets

1 Continuous Hinge	MCK-HG305 x Door Height	US32D	MK
1 Multi-Point Lock	LC FM7325 OL 188	US26D	SA
1 Door Closer	TB 281 CPS	EN	SA
1 Gasketing	S773D (Head & Jambs)		PE

Notes: Cylinder for lock will be furnished by the Owner.

Set: 9.0

Doors: 103b

Description: Electric

3 Hinge	TA2714 4-1/2" x 4-1/2"	US26D	MK
1 Exit Device (rim, passage)	2100F AU628F	630	YA
1 Door Closer	TB 1431 O	EN	SA
1 Kick Plate	K1050 10" x 2" LDW CSK	US32D	RO
1 Wall Stop	409	US32D	RO
3 Silencer	608		RO

Set: 10.0

Doors: 100L

Description: New Warehouse (Rated)

3 Hinge	TA2714 4-1/2" x 4-1/2"	US26D	MK
1 Classroom Lock	LC 28 10G37 LL	US26D	SA
1 Door Closer	TB 1431 CPS	EN	SA
1 Kick Plate	K1050 10" x 2" LDW CSK	US32D	RO
1 Gasketing	S88D (Head & Jambs)		PE

Notes: Cylinder for lock will be furnished by the Owner.

END OF SECTION 087100

SECTION 08360

SECTIONAL DOORS

PART I – GENERAL

1. RELATED DOCUMENTS:

- 1.2 All of the Contract Documents, including General and Supplementary Conditions, and Division 1 General Requirements, apply to the work of this Section.

2. SUMMARY:

- 2.1 The work of this Section includes upward-acting sectional doors.
- 2.2 Related Sections: Other specification sections, which directly relate to the work of this Section include, but are not limited to, the following:
- a. Section 05990 - Miscellaneous Metal and Metal Specialties.
 - b. Section 08710 – Door Hardware
 - c. Section 09900 – Painting
 - d. Section 16000 - Electrical

3. SUBMITTALS:

- 3.1 Product Data: Submit manufacturer product data and installation instructions for each type of sectional door. Include both published data and any specific data prepared for this project.
- 3.2 Shop Drawings: Submit shop drawing for approval prior to fabrication. Include detailed plans, elevations, and details of framing members, required clearances, anchors, and accessories. Include relationship with adjacent materials.

4. QUALITY ASSURANCE:

- 4.1 Manufacturer: a firm with a minimum of five experiences in the fabrication and installation of sectional doors shall manufacture Sectional doors. Manufacturers proposed for use, which are not named in these specifications, shall submit evidence of ability to meet performance and fabrication requirements specified, and include a list of five projects of similar design and complexity completed within the past five years.
- 4.2 Installer: Installation of sectional doors shall be performed by the authorized representative of the manufacturer.
- 4.3 Single-Source Responsibility: Provide doors, tracks, motors, and accessories from one manufacturer for each type of door. Provide secondary components from source acceptable to manufacturer of primary components.
- 4.4 Pre-Installation Conference: Schedule and convene a pre-installation conference just prior to commencement of field operations, to establish procedures to maintain optimum working conditions and to coordinate this work with related and adjacent work.

5. DELIVERY, STORAGE, AND HANDLING:

- 5.2 Deliver materials and products in labeled protective packages. Store and handle in strict compliance with manufacturer instructions and recommendations. Protect from damage from weather, excessive temperatures and construction operations.

PART II - PRODUCTS

1. SECTIONAL DOOR SUPPLIERS:

- 1.1 Approved Manufactures Sectional Overhead Door Manufactures.
 - a. Overhead Door Corporation, Dallas, Texas; Telephone 800-887-3667 or 972-233-6611; Fax 972-233-0367 or the approved equal.
 - b. Raynor - is an approved Sectional OHD manufacturer
Supplied by Wiese Dock and Door Specialist, 1446 south Florence, Wichita, Kansa s67209, (316) 942-1600
 - c. Cornell - is an approved Sectional OHD manufacturer
- 1.2 Sectional Overhead Doors
 - Openings 100f and 100g
(2) 8'-0"wide x 10'-0" motorized, with chain hoist option, high with high lift operation.
 - Opening 100h
(1) 10'-0"wide x 12'-0" motorized, with chain hoist option, high with high lift operation

2. THERMACORE® INSULATED STEEL SECTIONAL DOORS

- 2.1 Trade Reference 595 Series Thermacore Insulated Steel Doors by Overhead Door Corporation.
- 2.2 Sectional Door Assembly: Metal/foam/metal sandwich panel construction, with EPDM thermal break and ship-lap design with rounded water channels. Units shall have the following characteristics:
 - a. Panel Thickness: 1-5/8".
 - b. Exterior Surface: Flush, textured.
 - c. Exterior Steel: 20-gauge, hot-dipped galvanized.
 - d. End Stiles: 16-gauge.
 - e. Standard Springs: 10,000 cycles. (High cycles.)
 - f. Insulation: CFC-free and HCFC-free polyurethane, fully encapsulated.
 - g. Thermal Values: R-value of 14.86; U-value of 0.067.
 - h. Air Infiltration: 0.08 cfm at 15 mph; 0.08 cfm at 25 mph.
 - i. Sound Transmission: Class 26
 - j. Pass-Door: (Required).
 - k. High-Usage Package: Not required
 - l. Hi-Lift Operation
- 2.3 Finish and Color: Two-coat baked-on polyester with white exterior and white interior.
- 2.4 Windload Design: ANSI/DASMA 102-1996 standards and as required by code.
- 2.5 Hardware: Galvanized steel hinges and fixtures. Ball bearing rollers with hardened steel races.
- 2.6 Lock: Interior mounted slide lock. (Tumbler keyed lock.)

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- 2.7 Weather-stripping: EPDM rubber tube seals fitted inside joints between sections. EPDM rubber bulb-type strip at bottom. (Header seal and jamb weather-stripping.)
- 2.8 Track: Provide track as recommended by manufacturer to suit loading required and clearances available.
- 2.9 Electric Motor Operation: Provide UL listed electric operator, size and type as recommended by manufacturer to move door in either direction at not less than 2/3 foot nor more than 1 foot per second.
 - a. Entrapment Protection: Pneumatic sensing edge up to 18 wide.
 - b. Operation Controls: Push-button and key operated control stations with open, close, and stop buttons for surface mounting, for interior location.

PART III – EXECUTION

- 1. **PREPARATION:**
 - 1.1 Take field dimensions and examine conditions of substrates, supports, and other conditions under which this work is to be performed. Do not proceed with work until unsatisfactory conditions are corrected.
- 2. **INSTALLATION:**
 - 2.1 Strictly comply with manufacturers installation instructions and recommendations. Coordinate installation with adjacent work to ensure proper clearances and allow for maintenance.
 - 2.2 Instruct Owners personnel in proper operating procedures and maintenance schedule.
- 3. **ADJUSTING AND CLEANING:**
 - 3.1 Test sectional doors for proper operation and adjust as necessary to provide proper operation without binding or distortion.
 - 3.2 Touch-up damaged coatings and finishes and repair minor damage. Clean exposed surfaces using non-abrasive materials and methods recommended by manufacturer of material or product being cleaned.

End of Section 08360