SECTION 08 36 00

COMMERCIAL OVERHEAD SECTIONAL DOORS

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\*\* NOTE TO SPECIFIER \*\* Clopay Corporation; coiling doors, coiling grilles, insulated and non-insulated.  
This section is based on the products of Clopay Corporation, which is located at:8585 Duke Blvd.Mason, OH 45040Toll Free Tel: 800-233-8366Tel: 513-770-4800Fax: 888-434-3193Email: [request info (marketing@clopay.com)](https://arcat.com/rfi?action=email&company=Clopay%252BCorporation&message=RE%253A%2520Spec%2520Question%2520(08360clo)%253A%2520&coid=31487&spec=08360clo&rep=&fax=888-434-3193)  
Web: <https://www.clopaydoor.com> | <https://www.clopaycommercial.com>   
 [ [Click Here](https://arcat.com/company/clopay-corporation-31487) ] for additional information.  
Clopay entered the commercial and industrial upward acting door industry in 1966. For over 3 decades, Clopay has been providing the commercial sectional and coiling steel door market with creative solutions, innovative products, and superior customer service. With its emphasis on innovative design and application, combined with a unique combination of two trusted brands -- Clopay, and Ideal Door -- Clopay Corporation is distinguished from all its competitors.

1. GENERAL
   1. SECTION INCLUDES

\*\* NOTE TO SPECIFIER \*\* Delete any sections below not relevant to this project; add others as required.

* + 1. Architectural Series:
       1. Glazed aluminum full view sectional overhead doors.
       2. Steel insulated full view sectional overhead doors.
    2. Thermally-Broken and Insulated:
       1. Steel doors with minor ribs, thermally-broken, polyurethane
       2. Flush steel doors with minor ribs, thermally-broken, polyurethane
       3. Raised panel steel doors, thermally-broken polyurethane insulated.
       4. Steel doors with minor ribs, thermally-broken polystyrene insulated.
       5. Flush steel doors with minor ribs, thermally-broken polystyrene insulated.
       6. Raised panel steel doors, thermally-broken polystyrene insulated.
    3. Insulated:
       1. Deep ribbed steel doors, polystyrene insulated.
       2. Flush steel doors, polystyrene insulated.
       3. Raised panel steel doors, polystyrene insulated.
    4. Non-insulated:
       1. Deep ribbed steel doors, non-insulated.
       2. Flush steel doors, non-insulated.
       3. Raised-panel steel doors, non-insulated.
    5. Electric Door Operators.
  1. RELATED SECTIONS

\*\* NOTE TO SPECIFIER \*\* Delete any sections below not relevant to this project; add others as required.

* + 1. 03300 - Cast-In-Place Concrete.
    2. 04200 - Unit Masonry Assemblies.
    3. 05500 - Metal Fabrications.
    4. 06100 - Rough Carpentry.
    5. 07900 - Joint Seals.
    6. 08710 - Door Hardware and locks.
    7. 09900 - Paints and Coatings.
    8. 11150 - Parking Control Equipment: Remote door control.
    9. 16050 - Electrical service and connections for powered operators.
  1. REFERENCES

\*\* NOTE TO SPECIFIER \*\* Delete references from the list below that are not actually required by the text of the edited section.

* + 1. American Architects Manufacturers Association (AMAA):
       1. AAMA 2604 - Voluntary Specification, Performance Requirements and Test Procedures for Pigmented Organic Coatings on Aluminum Extrusions and Panels.
    2. American National Standards Institute (ANSI):
       1. ANSI/DASMA 102 - American National Standards Specifications for Sectional Doors.
    3. ASTM International (ASTM):
       1. ASTM B 209/209M - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate.
       2. ASTM B 221/221M - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.
       3. ASTM B 653/653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
    4. Door and Access Systems Manufacturers Association (DASMA):
       1. DASMA TDS-163 - R-Value and U-Factor as Applied to A Residential or Commercial Garage Door
  1. SUBMITTALS
     1. Submit under provisions of Section 01 30 00 - Administrative Requirements.
     2. 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. Installation methods.
        4. Operation and maintenance data.

\*\* NOTE TO SPECIFIER \*\* Delete below if electrically operated doors not required.

* + - 1. Nameplate data and ratings for motors.
    1. Shop Drawings: Include opening dimensions and required tolerances, connection details, anchorage spacing, hardware locations, and installation details.
    2. Selection Samples: Upon request furnish color samples or 2 x 2 ft (600 x 600 mm) section sample.
  1. WIND PERFORMANCE REQUIREMENTS
     1. Design doors to withstand positive and negative wind loads as calculated in accordance with applicable building code and detailed in structural documents.
  2. QUALITY ASSURANCE
     1. Manufacturer Qualifications: Minimum ten years of documented experience.
     2. Installer Qualifications: Minimum five years of documented experience and authorized by the door manufacturer.
  3. WARRANTY

\*\* NOTE TO SPECIFIER \*\* Paragraph below applies to Warranty for Architectural Series Aluminum Models 902, 903, and 904. Delete if not required.

* + 1. Manufacturers Limited Warranty aluminum sectional overhead doors.
       1. Standard finish warranty against cracking, checking, or peeling for 5 years Color Blast Finish option warranty for 5 years; Parts and Hardware for 1 year. Extended 8-Year Hardware Warranty option.

\*\* NOTE TO SPECIFIER \*\* Paragraph below applies to Warranty for Architectural Series Steel Models 3708, 3709, 3728, and 3729; Energy Series with Intellicore Models 3715, 3717, 3718, 3720, 3721, 3722, 3723, 3724, and 3730. Delete if not required.

* + 1. Manufacturers Limited Warranty steel sectional overhead doors:
       1. Standard finish warranty against cracking, checking, or peeling for 10 years. Custom color option Color Blast Finish limited warranty period for 5 years; Delamination warranty for 10 years; Parts and Hardware for 1 year. Extended 8-Year Hardware Warranty option.

\*\* NOTE TO SPECIFIER \*\* Paragraph below applies to Warranty for Architectural Series Steel Models 3158, 3159, 3208, and 3209; Energy Series Models 3150, 3154, 3155, 3200, 3211, 3213, and 3220. Delete if not required.

* + - 1. Standard finish warranty against cracking, checking, or peeling for 10 years. Custom color option Color Blast Finish limited warranty period for 5 years. Delamination warranty for 5 years; Parts and Hardware for 1 year. Extended 8-Year Hardware Warranty option.

\*\* NOTE TO SPECIFIER \*\* Paragraph below applies to Industrial Series Models 520, 520S, 522, 522S, 524, 524S, 524V, 525, 525S, 525V, 664, and 664V. Color Blast option not available on 522 and 522S. Delete if not required.

* + - 1. Standard finish warranty against cracking, checking, or peeling for 10 years. Color Blast Finish option warranty for 5 years; Parts and Hardware for 1 year. Extended 8-Year Hardware Warranty option.

1. PRODUCTS
   1. MANUFACTURERS
      1. Acceptable Manufacturer: Clopay Corporation, which is located at:8585 Duke Blvd.Mason, OH 45040Toll Free Tel: 800-233-8366Tel: 513-770-4800Fax: 888-434-3193Email: [request info (marketing@clopay.com)](https://arcat.com/rfi?action=email&company=Clopay%252BCorporation&message=RE%253A%2520Spec%2520Question%2520(08360clo)%253A%2520&coid=31487&spec=08360clo&rep=&fax=888-434-3193);Web: <https://www.clopaydoor.com> | <https://www.clopaycommercial.com>

\*\* NOTE TO SPECIFIER \*\* Delete one of the following two paragraphs; coordinate with requirements of Division 1 section on product options and substitutions.

* + 1. Substitutions: Not permitted.
    2. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.

\*\* NOTE TO SPECIFIER \*\* Delete article if not required.

* 1. ARCHITECTURAL SERIES GLAZED ALUMINUM FULL VIEW SECTIONAL OVERHEAD DOORS

\*\* NOTE TO SPECIFIER \*\* Delete Clopay model options not required.

* + 1. Clopay Model 902. Full view heavy duty 2.125 inches (54 mm) door.
       1. Panel Sizes: 44 inches (1118 mm) on center. End panels vary.
    2. Clopay Model 903. Full view heavy duty 2.125 inches (54 mm) Door.
       1. Panel Spacing: Equal panel spacing.
    3. Clopay Model 904. Full view Heavy Duty 2.125 inches (54 mm) Door
       1. Panel Spacing: Equal panel spacing.
    4. Construction: Extruded 6053-T5 aluminum

\*\* NOTE TO SPECIFIER \*\* Delete aluminum finish options not required.

* + - 1. Aluminum Finish: Factory pre-painted white.
      2. Aluminum Finish: Factory pre-painted brown.
      3. Aluminum Finish: Factory pre-painted simulated bronze anodized.
      4. Aluminum Finish: Clear anodized.
      5. Aluminum Finish: Bronze anodized.
      6. Aluminum Finish: Dark Bronze anodized.
      7. Aluminum Finish: Black anodized.
      8. Aluminum Finish: Custom Color Powder Coat RAL No: \_\_\_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Option below is Sherwin Williams high quality durable two-part paint system. It meets or exceeds AAMA standards Delete if not required.

* + - 1. Aluminum Finish: Color Blast. SW Color Code No: \_\_\_\_\_\_\_\_. SW Color Name: \_\_\_\_\_\_\_\_.
      2. Panel Section Thickness: 2-1/8 inches (54 mm).
      3. Maximum Door Size (WxH): 24 ft, 2 inches x 18 ft (7.34 x 5.5 m) high.

\*\* NOTE TO SPECIFIER \*\* Delete windows paragraph if not require.

* + 1. Windows:

\*\* NOTE TO SPECIFIER \*\* Delete glazing options not required. Consult Manufacturer for custom glazing types and finishes

* + - 1. Glazing Thickness: 1/8 inch (3 mm).
      2. Glazing Thickness: 1/4 inch (6 mm).
      3. Glazing Thickness: 1/2 inch (13 mm) Insulated.

\*\* NOTE TO SPECIFIER \*\* 5/8 inch (16 mm) Polygal applies to Model 904 only. Delete if not required.

* + - 1. Glazing Thickness: 5/8 inch (16 mm) Polygal.
      2. Glazing Type: Double strength glass.
      3. Glazing Type: Tempered glass.
      4. Glazing Type: Acrylic.
      5. Glazing Type: Triple wall Polygal.
      6. Glazing Type: Low E coated.
      7. Glazing Type: Solid Aluminum panel (color matched)
      8. Glazing Type: Custom \_\_\_\_\_\_\_\_.
      9. Glazing Finish: Clear.
      10. Glazing Finish: Bronze tint.
      11. Glazing Finish: Grey tint.
      12. Glazing Finish: Frosted/Satin Etch.
      13. Glazing Finish: Custom \_\_\_\_\_\_\_\_.
    1. Hardware:

\*\* NOTE TO SPECIFIER \*\* Delete lock type not required.

* + - 1. Lock Type: One inside slide lock.
      2. Lock Type: Two inside slide locks.
      3. Lock Type: No Lock

\*\* NOTE TO SPECIFIER \*\* Drop door safety device is optional. Available on vertical and high lift track types only. Delete if not required.

* + - 1. Door Drop Safety Device: Brackets to stop door from falling if lift cables fail.
      2. Weatherstripping: Complete perimeter seals.

\*\* NOTE TO SPECIFIER \*\* Delete track size option not required. Select track as required by size and weight of door.

* + - 1. Track Size: 2 inches (51 mm) track for 2 inch (51 mm) diameter rollers.
         1. Vertical Tracks: 0.061 inch (1.55 mm) galvanized steel.
         2. Horizontal Tracks 0.075 inch (1.91 mm) galvanized steel.
      2. Track Size: 3 inches (76 mm) track for 3 inch (76 mm) diameter rollers.
         1. Vertical and Horizontal Tracks: 0.096 inch (2.43 mm) galvanized steel.
      3. Track configuration to maximize headroom available per plans.
      4. Torsion Spring Counterbalance: Mechanism sized to weight of door, with high strength galvanized aircraft cable. 7 to 1 safety factor.

\*\* NOTE TO SPECIFIER \*\* Delete spring options not required.

* + - * 1. Standard Cycle Spring: 10,000 cycles.
        2. High Cycle Spring: 25,000 cycles.
        3. High Cycle Spring: 50,000 cycles.
        4. High Cycle Spring: 100,000 cycles
        5. Maximum cycles in a single shaft line.

\*\* NOTE TO SPECIFIER \*\* Delete article if not required or delete Clopay models not required.

* 1. ARCHITECTURAL SERIES STEEL INSULATED FULL VIEW SECTIONAL OVERHEAD DOORS
     1. Clopay Model 3729. Premium 2-inch (51 mm) Door: Insulated steel full view doors with minor ribs, thermally-broken, polyurethane insulated.
        1. Maximum Door Size (WxH): 20 ft 2 inches x 18 ft (9.2 x 5.5 m).
        2. Overall Panel Thickness: 2 inches (51 mm).
        3. Steel Skin Thickness: Interior and Exterior: 27 gauge 0.016 inch (0.40 mm)
        4. End Stiles: Pre-painted steel. 0.061 inch (1.55 mm) thick. Easy hardware attachment through pre-punched holes.
        5. Astragal: U-shaped flexible PVC in retainer of full-length 0.055 inch (1.4 mm) rigid PVC.
        6. Thermal Resistance (R-value) in accordance with DASMA TDS-163: 18.4 deg F hr sq ft/Btu (3.0 (K sq m)/W).
        7. Insulation: CFC-free and HCFC-free polyurethane, fully encapsulated.
        8. U-Factor: 0.16.
        9. Air infiltration: 0.22 cfm at 25 mph.

\*\* NOTE TO SPECIFIER \*\* Delete windows and glazing options not required

* + - 1. Windows: None.
      2. Windows (WxH): 19-1/2 x 16 inches (495 x 406 mm). Extruded polypropylene.
         1. Glazing: 1/8 inch (3 mm) tempered.
         2. Glazing: 1/8 inch (3 mm) frosted tempered.
         3. Glazing: 3/4 inch (19 mm) insulated tempered.
         4. Glazing: 3/4 inch (19 mm) insulated frosted tempered.
      3. Windows (WxH): 42 x 16 inches (1067 x 406 mm). Extruded polypropylene.
         1. Glazing: 1/8 inch (3 mm) tempered.
         2. Glazing: 1/8 inch (3 mm) frosted tempered.
         3. Glazing: 3/4 inch (19 mm) insulated tempered.
         4. Glazing: 3/4 inch (19 mm) insulated frosted tempered.
      4. Finish: Stucco embossed texture. 0.040 inch (1 mm) minor ribs 4 or 5 inches (100 or 125 mm) on center. Interior Color: White.

\*\* NOTE TO SPECIFIER \*\* Delete exterior color options not required.

* + - * 1. Exterior Color: White.
        2. Exterior Color: Brown.
        3. Exterior Color: Almond.
        4. Exterior Color: Sandtone.
        5. Exterior Color: Desert Tan.
        6. Exterior Color: Bronze.
        7. Exterior Color: Gray.
        8. Exterior Color: Glacier White.
        9. Exterior Color: Mocha Brown.
        10. Exterior Color: Black.
        11. Exterior Color: Trinar White.
        12. Exterior Color: Charcoal.

\*\* NOTE TO SPECIFIER \*\* Option below is Sherwin Williams high quality durable two-part paint Polane paint system.

* + - * 1. Exterior Color Blast:

SW Color Code No: \_\_\_\_\_\_\_.

SW Color Name: \_\_\_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete lock type not required.

* + - 1. Lock Type: One inside slide lock.
      2. Lock Type: Two inside slide locks.
      3. Lock Type: Five pin cylinder lock with outside key.
      4. Lock Type: No Lock

\*\* NOTE TO SPECIFIER \*\* Drop door safety device is optional. Available on vertical and high lift track types only. Delete if not required.

* + - 1. Door Drop Safety Device: Brackets to stop door from falling if lift cables fail.
      2. Weatherstripping: Complete perimeter seals.

\*\* NOTE TO SPECIFIER \*\* Delete track size option not required. Select track as required by size and weight of door.

* + - 1. Track Size: 2 inches (51 mm) track for 2 inch (51 mm) diameter rollers.
         1. Vertical Tracks: 0.061 inch (1.55 mm) galvanized steel.
         2. Horizontal Tracks 0.075 inch (1.91 mm) galvanized steel.
      2. Track Size: 3 inches (76 mm) track for 3 inch (76 mm) diameter rollers.
         1. Vertical and Horizontal Tracks: 0.096 inch (2.43 mm) galvanized steel.
      3. Track configuration to maximize headroom available per plans.
      4. Torsion Spring Counterbalance: Mechanism sized to weight of door, with high strength galvanized aircraft cable. 7 to 1 safety factor.

\*\* NOTE TO SPECIFIER \*\* Delete spring options not required.

* + - * 1. Standard Cycle Spring: 10,000 cycles.
        2. High Cycle Spring: 25,000 cycles.
        3. High Cycle Spring: 50,000 cycles.
        4. High Cycle Spring: 100,000 cycles.
        5. Maximum cycles in a single shaft line.
    1. Clopay Model 3728. Premium 2-inch (51 mm) flush insulated steel full view doors, thermally-broken, polyurethane insulated.
       1. Maximum Door Size (WxH): 20 ft 2 inches x 18 ft (9.2 x 5.5 m).
       2. Overall Panel Thickness: 2 inches (51 mm).
       3. Steel Skin Thickness: Interior and Exterior: 27 gauge 0.016 inch (0.40 mm)
       4. Steel Reinforcement: Galvanized and primed. Located under each hinge location. Pre-punched for hinge attachment.
       5. End Stiles: Pre-painted steel. 0.061 inch (1.55 mm) thick, Easy hardware attachment through pre-punched holes.
       6. Astragal: U-shaped flexible PVC in full-length retainer of 0.055 inch (1.4 mm) rigid PVC.
       7. Thermal Resistance (R-value) in accordance with DASMA TDS-163: 18.4 deg F hr sq ft/Btu (3.0 (K sq m)/W).
       8. Insulation: CFC-free and HCFC-free polyurethane, fully encapsulated.
       9. U-Factor: 0.16.
       10. Air infiltration: 0.22 cfm at 25 mph.

\*\* NOTE TO SPECIFIER \*\* Delete windows and glazing options not required

* + - 1. Windows: None.
      2. Windows (WxH): 19-1/2 x 16 inches (495 x 406 mm). Extruded polypropylene.
         1. Glazing: 1/8 inch (3 mm) tempered.
         2. Glazing: 1/8 inch (3 mm) frosted tempered.
         3. Glazing: 3/4 inch (19 mm) insulated tempered.
         4. Glazing: 3/4 inch (19 mm) insulated frosted tempered.
      3. Windows (WxH): 42 x 16 inches (1067 x 406 mm). Extruded polypropylene.
         1. Glazing: 1/8 inch (3 mm) tempered.
         2. Glazing: 1/8 inch (3 mm) frosted tempered.
         3. Glazing: 3/4 inch (19 mm) insulated tempered.
         4. Glazing: 3/4 inch (19 mm) insulated frosted tempered.
      4. Finish: Flush Stucco embossed texture. Interior Color: White.

\*\* NOTE TO SPECIFIER \*\* Delete color options not required.

* + - * 1. Exterior Color: White.
        2. Exterior Color: Brown.
        3. Exterior Color: Almond.
        4. Exterior Color: Sandtone.
        5. Exterior Color: Desert Tan.
        6. Exterior Color: Bronze.
        7. Exterior Color: Gray.
        8. Exterior Color: Glacier White.
        9. Exterior Color: Mocha Brown.
        10. Exterior Color: Black.
        11. Exterior Color: Trinar White.
        12. Exterior Color: Charcoal.

\*\* NOTE TO SPECIFIER \*\* Option below is Sherwin Williams high quality durable two-part paint Polane paint system.

* + - * 1. Exterior Color Blast:

SW Color Code No: \_\_\_\_\_\_\_.

SW Color Name: \_\_\_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete lock type not required.

* + - 1. Lock Type: One inside slide lock.
      2. Lock Type: Two inside slide locks.
      3. Lock Type: Five pin cylinder lock with outside key.
      4. Lock Type: No Lock

\*\* NOTE TO SPECIFIER \*\* Drop door safety device is optional. Available on vertical and high lift track types only. Delete if not required.

* + - 1. Door Drop Safety Device: Brackets to stop door from falling if lift cables fail.
      2. Weatherstripping: Complete perimeter seals.

\*\* NOTE TO SPECIFIER \*\* Delete track size option not required. Select track as required by size and weight of door.

* + - 1. Track Size: 2 inches (51 mm) track for 2 inch (51 mm) diameter rollers.
         1. Vertical Tracks: 0.061 inch (1.55 mm) galvanized steel.
         2. Horizontal Tracks 0.075 inch (1.91 mm) galvanized steel.
      2. Track Size: 3 inches (76 mm) track for 3 inch (76 mm) diameter rollers.
         1. Vertical and Horizontal Tracks: 0.096 inch (2.43 mm) galvanized steel.
      3. Track configuration to maximize headroom available per plans.
      4. Torsion Spring Counterbalance: Mechanism sized to weight of door, with high strength galvanized aircraft cable. 7 to 1 safety factor.

\*\* NOTE TO SPECIFIER \*\* Delete spring options not required.

* + - * 1. Standard Cycle Spring: 10,000 cycles.
        2. High Cycle Spring: 25,000 cycles.
        3. High Cycle Spring: 50,000 cycles.
        4. High Cycle Spring: 100,000 cycles
        5. Maximum cycles in a single shaft line.
    1. Clopay Model 3709. Premium 1-3/8-inch (35 mm) Insulated steel full view doors with minor ribs, thermally-broken, polyurethane insulated.
       1. Maximum Door Size (WxH): 18 ft 2 inches x 16 ft (5.5 x 4.9 m).
       2. Overall Panel Thickness: 1-3/8 inches (35 mm).
       3. Steel Skin Thickness: Interior and Exterior: 27 gauge 0.016 inch (0.40 mm)
       4. Steel Reinforcement: Galvanized and primed. Located under each hinge location. Pre-punched for hinge attachment.
       5. End Stiles: Pre-painted steel. 0.061 inch (1.55 mm) thick, Easy hardware attachment through pre-punched holes.
       6. Astragal: U-shaped flexible PVC in full-length retainer of 0.055 inch (1.4 mm) rigid PVC.
       7. Thermal Resistance (R-value) in accordance with DASMA TDS-163: 12.9 deg F hr sq ft/Btu (3.0 (K sq m)/W).
       8. Insulation: CFC-free and HCFC-free polyurethane, fully encapsulated/
       9. U-Factor: 0.19.
       10. Air infiltration: 0.12 cfm at 25 mph/

\*\* NOTE TO SPECIFIER \*\* Delete windows and glazing options not required

* + - 1. Windows: None.
      2. Windows (WxH): 19-1/2 x 16 inches (495 x 406 mm). Extruded polypropylene.
         1. Glazing: 1/8 inch (3 mm) tempered.
         2. Glazing: 1/8 inch (3 mm) frosted tempered.
         3. Glazing: 3/4 inch (19 mm) insulated tempered.
         4. Glazing: 3/4 inch (19 mm) insulated frosted tempered.
      3. Windows (WxH): 42 x 16 inches (1067 x 406 mm). Extruded polypropylene.
         1. Glazing: 1/8 inch (3 mm) tempered.
         2. Glazing: 1/8 inch (3 mm) frosted tempered.
         3. Glazing: 3/4 inch (19 mm) insulated tempered.
         4. Glazing: 3/4 inch (19 mm) insulated frosted tempered.
      4. Finish: Stucco embossed texture. 0.040 inch (1 mm) minor ribs 4 or 5 inches (100 or 125 mm) on center. Interior Color: White.

\*\* NOTE TO SPECIFIER \*\* Delete color options not required.

* + - * 1. Exterior Color: White.
        2. Exterior Color: Brown.
        3. Exterior Color: Almond.
        4. Exterior Color: Sandtone.
        5. Exterior Color: Desert Tan.
        6. Exterior Color: Bronze.
        7. Exterior Color: Gray.
        8. Exterior Color: Glacier White.
        9. Exterior Color: Mocha Brown.
        10. Exterior Color: Black.
        11. Exterior Color: Trinar White.
        12. Exterior Color: Charcoal.

\*\* NOTE TO SPECIFIER \*\* Option below is Sherwin Williams high quality durable two-part paint Polane paint system.

* + - * 1. Exterior Color Blast:

SW Color Code No: \_\_\_\_\_\_\_.

SW Color Name: \_\_\_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete lock type not required.

* + - 1. Lock Type: One inside slide lock.
      2. Lock Type: Two inside slide locks.
      3. Lock Type: Five pin cylinder lock with outside key.
      4. Lock Type: No Lock

\*\* NOTE TO SPECIFIER \*\* Drop door safety device is optional. Available on vertical and high lift track types only. Delete if not required.

* + - 1. Door Drop Safety Device: Brackets to stop door from falling if lift cables fail.
      2. Weatherstripping: Complete perimeter seals.

\*\* NOTE TO SPECIFIER \*\* Delete track size option not required. Select track as required by size and weight of door.

* + - 1. Track Size: 2 inches (51 mm) track for 2 inch (51 mm) diameter rollers.
         1. Vertical Tracks: 0.061 inch (1.55 mm) galvanized steel.
         2. Horizontal Tracks 0.075 inch (1.91 mm) galvanized steel.
      2. Track Size: 3 inches (76 mm) track for 3 inch (76 mm) diameter rollers.
         1. Vertical and Horizontal Tracks: 0.096 inch (2.43 mm) galvanized steel.
      3. Track configuration to maximize headroom available per plans.
      4. Torsion Spring Counterbalance: Mechanism sized to weight of door, with high strength galvanized aircraft cable. 7 to 1 safety factor.

\*\* NOTE TO SPECIFIER \*\* Delete spring options not required.

* + - * 1. Standard Cycle Spring: 10,000 cycles.
        2. High Cycle Spring: 25,000 cycles.
        3. High Cycle Spring: 50,000 cycles.
        4. High Cycle Spring: 100,000 cycles.
        5. Maximum cycles in a single shaft line.
    1. Clopay Model 3708. Premium 1-3/8-inch (35 mm) Flush insulated steel full view doors, thermally-broken, polyurethane insulated.
       1. Maximum Door Size (WxH): 18 ft 2 inches x 16 ft (5.5 x 4.9 m).
       2. Overall Panel Thickness: 1-3/8 inches (35 mm).
       3. Steel Skin Thickness: Interior and Exterior: 27 gauge 0.016 inch (0.40 mm)
       4. Steel Reinforcement: Galvanized and primed. Located under each hinge location. Pre-punched for hinge attachment.
       5. End Stiles: Pre-painted steel. 0.061 inch (1.55 mm) thick, Easy hardware attachment through pre-punched holes.
       6. Astragal: U-shaped flexible PVC in full-length retainer of 0.055 inch (1.4 mm) rigid PVC.
       7. Thermal Resistance (R-value) in accordance with DASMA TDS-163: 12.9 deg F hr sq ft/Btu (3.0 (K sq m)/W).
       8. Insulation: CFC-free and HCFC-free polyurethane, fully encapsulated/
       9. U-Factor: 0.19.
       10. Air infiltration: 0.12 cfm at 25 mph.

\*\* NOTE TO SPECIFIER \*\* Delete windows and glazing options not required

* + - 1. Windows: None.
      2. Windows (WxH): 19-1/2 x 16 inches (495 x 406 mm). Extruded polypropylene.
         1. Glazing: 1/8 inch (3 mm) tempered.
         2. Glazing: 1/8 inch (3 mm) frosted tempered.
         3. Glazing: 3/4 inch (19 mm) insulated tempered.
         4. Glazing: 3/4 inch (19 mm) insulated frosted tempered.
      3. Windows (WxH): 42 x 16 inches (1067 x 406 mm). Extruded polypropylene.
         1. Glazing: 1/8 inch (3 mm) tempered.
         2. Glazing: 1/8 inch (3 mm) frosted tempered.
         3. Glazing: 3/4 inch (19 mm) insulated tempered.
         4. Glazing: 3/4 inch (19 mm) insulated frosted tempered.
      4. Finish: Flush stucco embossed texture. Interior Color: White.

\*\* NOTE TO SPECIFIER \*\* Delete color options not required.

* + - * 1. Exterior Color: White.
        2. Exterior Color: Brown.
        3. Exterior Color: Almond.
        4. Exterior Color: Sandtone.
        5. Exterior Color: Desert Tan.
        6. Exterior Color: Bronze.
        7. Exterior Color: Gray.
        8. Exterior Color: Glacier White.
        9. Exterior Color: Mocha Brown.
        10. Exterior Color: Black.
        11. Exterior Color: Trinar White.
        12. Exterior Color: Charcoal.

\*\* NOTE TO SPECIFIER \*\* Option below is Sherwin Williams high quality durable two-part paint Polane paint system.

* + - * 1. Exterior Color Blast:

SW Color Code No: \_\_\_\_\_\_\_.

SW Color Name: \_\_\_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete lock type not required.

* + - 1. Lock Type: One inside slide lock.
      2. Lock Type: Two inside slide locks.
      3. Lock Type: Five pin cylinder lock with outside key.
      4. Lock Type: No Lock

\*\* NOTE TO SPECIFIER \*\* Drop door safety device is optional. Available on vertical and high lift track types only. Delete if not required.

* + - 1. Door Drop Safety Device: Brackets to stop door from falling if lift cables fail.
      2. Weatherstripping: Complete perimeter seals.

\*\* NOTE TO SPECIFIER \*\* Delete track size option not required. Select track as required by size and weight of door.

* + - 1. Track Size: 2 inches (51 mm) track for 2 inch (51 mm) diameter rollers.
         1. Vertical Tracks: 0.061 inch (1.55 mm) galvanized steel.
         2. Horizontal Tracks 0.075 inch (1.91 mm) galvanized steel.
      2. Track Size: 3 inches (76 mm) track for 3 inch (76 mm) diameter rollers.
         1. Vertical and Horizontal Tracks: 0.096 inch (2.43 mm) galvanized steel.
      3. Track configuration to maximize headroom available per plans.
      4. Torsion Spring Counterbalance: Mechanism sized to weight of door, with high strength galvanized aircraft cable. 7 to 1 safety factor.

\*\* NOTE TO SPECIFIER \*\* Delete spring options not required.

* + - * 1. Standard Cycle Spring: 10,000 cycles.
        2. High Cycle Spring: 25,000 cycles.
        3. High Cycle Spring: 50,000 cycles.
        4. High Cycle Spring: 100,000 cycles
        5. Maximum cycles in a single shaft line.
    1. Clopay Model 3209. Premium 2-inch (51 mm) Insulated steel full view doors with minor ribs, thermally-broken, polystyrene insulated.
       1. Maximum Door Size (WxH): 20 ft 2 inches x 18 ft (9.2 x 5.5 m).
       2. Overall Panel Thickness: 2 inches (51 mm).
       3. Steel Skin Thickness: Exterior: 24 gauge 0.022 inch (0.56 mm). Interior: 27 gauge 0.016 inch (0.40 mm) interior.
       4. Steel Reinforcement: Galvanized and primed. Located under each hinge location. Pre-punched for hinge attachment.
       5. End Stiles: Pre-painted steel. 0.061 inch (1.55 mm) thick, Easy hardware attachment through pre-punched holes.
       6. Astragal: U-shaped flexible PVC in full-length retainer of 0.055 inch (1.4 mm) rigid PVC.
       7. Thermal Resistance (R-value) in accordance with DASMA TDS-163: 9.1 deg F hr sq ft/Btu (3.0 (K sq m)/W).
       8. U-Factor: 0.23.
       9. Air infiltration: 0.34 cfm at 25 mph.

\*\* NOTE TO SPECIFIER \*\* Delete windows and glazing options not required.

* + - 1. Windows: None.
      2. Windows (WxH): 19-1/2 x 16 inches (495 x 406 mm). Extruded polypropylene.
         1. Glazing: 1/8 inch (3 mm) tempered.
         2. Glazing: 1/8 inch (3 mm) frosted tempered.
         3. Glazing: 3/4 inch (19 mm) insulated tempered.
         4. Glazing: 3/4 inch (19 mm) insulated frosted tempered.
      3. Windows (WxH): 42 x 16 inches (1067 x 406 mm). Extruded polypropylene.
         1. Glazing: 1/8 inch (3 mm) tempered.
         2. Glazing: 1/8 inch (3 mm) frosted tempered.
         3. Glazing: 3/4 inch (19 mm) insulated tempered.
         4. Glazing: 3/4 inch (19 mm) insulated frosted tempered.
      4. Finish: Stucco embossed texture. 0.040 inch (1 mm) minor ribs 4 or 5 inches (100 or 125 mm) on center. Interior Color: White.

\*\* NOTE TO SPECIFIER \*\* Delete exterior color not required.

* + - * 1. Exterior Color: White.
        2. Exterior Color: Brown.
        3. Exterior Color: Gray
        4. Exterior Color: Black

\*\* NOTE TO SPECIFIER \*\* Option below is Sherwin Williams high quality durable two-part paint Polane paint system.

* + - * 1. Exterior Color Blast:

SW Color Code No: \_\_\_\_\_\_\_.

SW Color Name: \_\_\_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete lock type not required.

* + - 1. Lock Type: One inside slide lock.
      2. Lock Type: Two inside slide locks.
      3. Lock Type: Five pin cylinder lock with outside key.
      4. Lock Type: No Lock

\*\* NOTE TO SPECIFIER \*\* Drop door safety device is optional. Available on vertical and high lift track types only. Delete if not required.

* + - 1. Door Drop Safety Device: Brackets to stop door from falling if lift cables fail.
      2. Weatherstripping: Complete perimeter seals.

\*\* NOTE TO SPECIFIER \*\* Delete track size option not required. Select track as required by size and weight of door.

* + - 1. Track Size: 2 inches (51 mm) track for 2 inch (51 mm) diameter rollers.
         1. Vertical Tracks: 0.061 inch (1.55 mm) galvanized steel.
         2. Horizontal Tracks 0.075 inch (1.91 mm) galvanized steel.
      2. Track Size: 3 inches (76 mm) track for 3 inch (76 mm) diameter rollers.
         1. Vertical and Horizontal Tracks: 0.096 inch (2.43 mm) galvanized steel.
      3. Track configuration to maximize headroom available per plans.
      4. Torsion Spring Counterbalance: Mechanism sized to weight of door, with high strength galvanized aircraft cable. 7 to 1 safety factor.

\*\* NOTE TO SPECIFIER \*\* Delete spring options not required.

* + - * 1. Standard Cycle Spring: 10,000 cycles.
        2. High Cycle Spring: 25,000 cycles.
        3. High Cycle Spring: 50,000 cycles.
        4. High Cycle Spring: 100,000 cycles
        5. Maximum cycles in a single shaft line.
    1. Clopay Model 3208. Premium 2-inch (51 mm) Flush insulated steel full view doors, thermally-broken, polystyrene insulated.
       1. Maximum Door Size (WxH): 20 ft 2 inches x 18 ft (9.2 x 5.5 m) high.
       2. Overall Panel Thickness: 2 inches (51 mm).
       3. Steel Skin Thickness: Exterior: 24 gauge 0.022 inch (0.56 mm). Interior: 27 gauge 0.016 inch (0.40 mm) interior.
       4. End Stiles: Pre-painted Steel. 0.061 inch (1.55 mm) thick. Easy hardware attachment through pre-punched holes.
       5. Steel Reinforcement: Galvanized and primed. Located under each hinge location. Pre-punched for hinge attachment.
       6. Astragal: U-shaped flexible PVC in full-length retainer of 0.055 inch (1.4 mm) rigid PVC.
       7. Thermal Resistance (R-value) calculated in accordance with DASMA TDS-163: 9.1 deg F hr sq ft/Btu (1.6 (K sq m)/W).
       8. U-Factor: 0.23.
       9. Air infiltration: 0.34 cfm at 25 mph.

\*\* NOTE TO SPECIFIER \*\* Delete windows and glazing options not required

* + - 1. Windows: None.
      2. Windows (WxH): 19-1/2 x 16 inches (495 x 406 mm). Extruded polypropylene.
         1. Glazing: 1/8 inch (3 mm) tempered.
         2. Glazing: 1/8 inch (3 mm) frosted tempered.
         3. Glazing: 3/4 inch (19 mm) insulated tempered.
         4. Glazing: 3/4 inch (19 mm) insulated frosted tempered.
      3. Windows (WxH): 42 x 16 inches (1067 x 406 mm). Extruded polypropylene.
         1. Glazing: 1/8 inch (3 mm) tempered.
         2. Glazing: 1/8 inch (3 mm) frosted tempered.
         3. Glazing: 3/4 inch (19 mm) insulated tempered.
         4. Glazing: 3/4 inch (19 mm) insulated frosted tempered.
      4. Finish: Flush stucco embossed texture. Interior Color: White.

\*\* NOTE TO SPECIFIER \*\* Delete color options not required.

* + - * 1. Exterior Color: White.
        2. Exterior Color: Brown.
        3. Exterior Color: Gray.
        4. Exterior Color: Black

\*\* NOTE TO SPECIFIER \*\* Option below is Sherwin Williams high quality durable two-part paint Polane paint system.

* + - * 1. Exterior Color Blast:

SW Color Code No: \_\_\_\_\_\_\_.

SW Color Name: \_\_\_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete lock type not required.

* + - 1. Lock Type: One inside slide lock.
      2. Lock Type: Two inside slide locks.
      3. Lock Type: Five pin cylinder lock with outside key.
      4. Lock Type: No Lock

\*\* NOTE TO SPECIFIER \*\* Drop door safety device is optional. Available on vertical and high lift track types only. Delete if not required.

* + - 1. Door Drop Safety Device: Brackets to stop door from falling if lift cables fail.
      2. Weatherstripping: Complete perimeter seals.

\*\* NOTE TO SPECIFIER \*\* Delete track size option not required. Select track as required by size and weight of door.

* + - 1. Track Size: 2 inches (51 mm) track for 2 inch (51 mm) diameter rollers.
         1. Vertical Tracks: 0.061 inch (1.55 mm) galvanized steel.
         2. Horizontal Tracks 0.075 inch (1.91 mm) galvanized steel.
      2. Track Size: 3 inches (76 mm) track for 3 inch (76 mm) diameter rollers.
         1. Vertical and Horizontal Tracks: 0.096 inch (2.43 mm) galvanized steel.
      3. Track configuration to maximize headroom available per plans.
      4. Torsion Spring Counterbalance: Mechanism sized to weight of door, with high strength galvanized aircraft cable. 7 to 1 safety factor.

\*\* NOTE TO SPECIFIER \*\* Delete spring options not required.

* + - * 1. Standard Cycle Spring: 10,000 cycles.
        2. High Cycle Spring: 25,000 cycles.
        3. High Cycle Spring: 50,000 cycles.
        4. High Cycle Spring: 100,000 cycles
        5. Maximum cycles in a single shaft line.
    1. Clopay Model 3159. Premium 1-3/8-inch (35 mm) Insulated steel full view doors with minor ribs, thermally-broken, polystyrene insulated.
       1. Maximum Door Size (WxH): 18 ft 2 inches x 16 ft, (5.5 x 4.9 m).
       2. Overall Panel Thickness: 1-3/8 inches (35 mm).
       3. Steel Skin Thickness: Exterior and Interior: 27 gauge, 0.016 inch (0.40 mm)
       4. End Stiles: Pre-painted steel. 0.061 inch (1.55 mm) thick, Easy hardware attachment through pre-punched holes.
       5. Steel Reinforcement: Galvanized and primed. Located under each hinge location. Pre-punched for hinge attachment.
       6. Astragal: U-shaped flexible PVC in full-length retainer of 0.055 inch (1.4 mm) rigid PVC.
       7. Thermal Resistance (R-value) calculated in accordance with DASMA TDS-163: 6.5 deg F hr sq ft/Btu (1.15 (K sq m)/W).
       8. U-Factor: 0.27.
       9. Air infiltration: 0.41 cfm at 25 mph.

\*\* NOTE TO SPECIFIER \*\* Delete windows and glazing options not required

* + - 1. Windows: None.
      2. Windows (WxH): 19-1/2 x 16 inches (495 x 406 mm). Extruded polypropylene.
         1. Glazing: 1/8 inch (3 mm) tempered.
         2. Glazing: 1/8 inch (3 mm) frosted tempered.
         3. Glazing: 3/4 inch (19 mm) insulated tempered.
         4. Glazing: 3/4 inch (19 mm) insulated frosted tempered.
      3. Windows (WxH): 42 x 16 inches (1067 x 406 mm). Extruded polypropylene.
         1. Glazing: 1/8 inch (3 mm) tempered.
         2. Glazing: 1/8 inch (3 mm) frosted tempered.
         3. Glazing: 3/4 inch (19 mm) insulated tempered.
         4. Glazing: 3/4 inch (19 mm) insulated frosted tempered.
      4. Finish: Stucco embossed texture. 0.040 inch (1 mm) minor ribs 4 or 5 inches (100 or 125 mm) on center. Interior Color: White.

\*\* NOTE TO SPECIFIER \*\* Delete exterior color options not required.

* + - * 1. Exterior Color: White.
        2. Exterior Color: Brown.
        3. Exterior Color: Almond.
        4. Exterior Color: Sandtone.
        5. Exterior Color: Desert Tan.
        6. Exterior Color: Bronze.
        7. Exterior Color: Gray.
        8. Exterior Color: Glacier White.
        9. Exterior Color: Mocha Brown.
        10. Exterior Color: Black.
        11. Exterior Color: Trinar White.
        12. Exterior Color: Charcoal.

\*\* NOTE TO SPECIFIER \*\* Option below is Sherwin Williams high quality durable two-part paint Polane paint system.

* + - * 1. Exterior Color Blast:

SW Color Code No: \_\_\_\_\_\_\_.

SW Color Name: \_\_\_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete lock type not required.

* + - 1. Lock Type: One inside slide lock.
      2. Lock Type: Two inside slide locks.
      3. Lock Type: Five pin cylinder lock with outside key.
      4. Lock Type: No Lock

\*\* NOTE TO SPECIFIER \*\* Drop door safety device is optional. Available on vertical and high lift track types only. Delete if not required.

* + - 1. Door Drop Safety Device: Brackets to stop door from falling if lift cables fail.
      2. Weatherstripping: Complete perimeter seals.

\*\* NOTE TO SPECIFIER \*\* Delete track size option not required. Select track as required by size and weight of door.

* + - 1. Track Size: 2 inches (51 mm) track for 2 inch (51 mm) diameter rollers.
         1. Vertical Tracks: 0.061 inch (1.55 mm) galvanized steel.
         2. Horizontal Tracks 0.075 inch (1.91 mm) galvanized steel.
      2. Track Size: 3 inches (76 mm) track for 3 inch (76 mm) diameter rollers.
         1. Vertical and Horizontal Tracks: 0.096 inch (2.43 mm) galvanized steel.
      3. Track configuration to maximize headroom available per plans.
      4. Torsion Spring Counterbalance: Mechanism sized to weight of door, with high strength galvanized aircraft cable. 7 to 1 safety factor.

\*\* NOTE TO SPECIFIER \*\* Delete spring options not required.

* + - * 1. Standard Cycle Spring: 10,000 cycles.
        2. High Cycle Spring: 25,000 cycles.
        3. High Cycle Spring: 50,000 cycles.
        4. High Cycle Spring: 100,000 cycles
        5. Maximum cycles in a single shaft line.
    1. Clopay Model 3158. Premium 1-3/8-inch (35 mm) Flush insulated steel full view doors, thermally-broken, polystyrene insulated.
       1. Maximum Door Size (WxH): 18 ft 2 inches x 156 ft (5.5 x 4.9 m) high.
       2. Overall Panel Thickness: 1-3/8 inches (35 mm).
       3. Steel Skin Thickness: Exterior and Interior: 27 gauge, 0.016 inch (0.40 mm)
       4. Steel Reinforcement: Galvanized and primed. Located under each hinge location. Pre-punched for hinge attachment.
       5. End Stiles: Pre-painted steel. 0.061 inch (1.55 mm) thick, Easy hardware attachment through pre-punched holes.
       6. Astragal: U-shaped flexible PVC in full-length retainer of 0.055 inch (1.4 mm) rigid PVC.
       7. Thermal Resistance (R-value) calculated in accordance with DASMA TDS-163: 6.5 deg F hr sq ft/Btu (1.15 (K sq m)/W).
       8. U-Factor: 0.27.
       9. Air infiltration: 0.41 cfm at 25 mph.

\*\* NOTE TO SPECIFIER \*\* Delete windows and glazing options not required

* + - 1. Windows: None.
      2. Windows (WxH): 19-1/2 x 16 inches (495 x 406 mm). Extruded polypropylene.
         1. Glazing: 1/8 inch (3 mm) tempered.
         2. Glazing: 1/8 inch (3 mm) frosted tempered.
         3. Glazing: 3/4 inch (19 mm) insulated tempered.
         4. Glazing: 3/4 inch (19 mm) insulated frosted tempered.
      3. Windows (WxH): 42 x 16 inches (1067 x 406 mm). Extruded polypropylene.
         1. Glazing: 1/8 inch (3 mm) tempered.
         2. Glazing: 1/8 inch (3 mm) frosted tempered.
         3. Glazing: 3/4 inch (19 mm) insulated tempered.
         4. Glazing: 3/4 inch (19 mm) insulated frosted tempered.
      4. Finish: Flush stucco embossed texture Interior Color: White.

\*\* NOTE TO SPECIFIER \*\* Delete exterior color options not required.

* + - * 1. Exterior Color: White.
        2. Exterior Color: Brown.
        3. Exterior Color: Almond.
        4. Exterior Color: Sandtone.
        5. Exterior Color: Desert Tan.
        6. Exterior Color: Bronze.
        7. Exterior Color: Gray.
        8. Exterior Color: Glacier White.
        9. Exterior Color: Mocha Brown.
        10. Exterior Color: Black.
        11. Exterior Color: Trinar White.
        12. Exterior Color: Charcoal.

\*\* NOTE TO SPECIFIER \*\* Option below is Sherwin Williams high quality durable two-part paint Polane paint system.

* + - * 1. Exterior Color Blast:

SW Color Code No: \_\_\_\_\_\_\_.

SW Color Name: \_\_\_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete lock type not required.

* + - 1. Lock Type: One inside slide lock.
      2. Lock Type: Two inside slide locks.
      3. Lock Type: Five pin cylinder lock with outside key.

\*\* NOTE TO SPECIFIER \*\* Drop door safety device is optional. Available on vertical and high lift track types only. Delete if not required.

* + - 1. Door Drop Safety Device: Brackets to stop door from falling if lift cables fail.
      2. Weatherstripping: Complete perimeter seals.

\*\* NOTE TO SPECIFIER \*\* Delete track size option not required. Select track as required by size and weight of door.

* + - 1. Track Size: 2 inches (51 mm) track for 2 inch (51 mm) diameter rollers.
         1. Vertical Tracks: 0.061 inch (1.55 mm) galvanized steel.
         2. Horizontal Tracks 0.075 inch (1.91 mm) galvanized steel.
      2. Track Size: 3 inches (76 mm) track for 3 inch (76 mm) diameter rollers.
         1. Vertical and Horizontal Tracks: 0.096 inch (2.43 mm) galvanized steel.
      3. Track configuration to maximize headroom available per plans.
      4. Torsion Spring Counterbalance: Mechanism sized to weight of door, with high strength galvanized aircraft cable. 7 to 1 safety factor.

\*\* NOTE TO SPECIFIER \*\* Delete spring options not required.

* + - * 1. Standard Cycle Spring: 10,000 cycles.
        2. High Cycle Spring: 25,000 cycles.
        3. High Cycle Spring: 50,000 cycles.
        4. High Cycle Spring: 100,000 cycles
        5. Maximum cycles in a single shaft line.

\*\* NOTE TO SPECIFIER \*\* Delete article if not required or delete Clopay models not required.

* 1. STEEL DOORS WITH MINOR RIBS, THERMALLY-BROKEN, POLYURETHANE
     1. Clopay Model 3730. Premium 3-inch (75 mm) Style: Steel doors with minor ribs, thermally-broken, polyurethane insulated.
        1. Maximum Door Size (WxH): 30 ft 2 inches x 18 ft (9.2 x 5.5 m) high.
        2. Overall Panel Thickness: 3 inches (75 mm).
        3. Steel Skin Thickness: Exterior and Interior: 27 gauge, 0.016 inch (0.40 mm)
        4. Steel Reinforcement: Galvanized and primed. Located under each hinge location. Pre-punched for hinge attachment.
        5. End Stiles: Pre-painted steel. 0.061 inch (1.55 mm) thick, Easy hardware attachment through pre-punched holes.
        6. Astragal: U-shaped flexible PVC in full-length retainer of 0.055 inch (1.4 mm) rigid PVC.
        7. Thermal Resistance (R-value) calculated in accordance with DASMA TDS-163: 22.2 deg F hr sq ft/Btu (4.40 (K sq m)/W).
        8. Insulation: CFC-free and HCFC-free polyurethane, fully encapsulated.
        9. U-Factor: 0.15.
        10. Air Infiltration: 0.20 cfm at 25 mph.

\*\* NOTE TO SPECIFIER \*\* Delete windows and glazing options not required.

* + - 1. Windows: None.
      2. PVC Windows (WxH): 8 x 24 inches (200 x 600 mm).
         1. Glazing: 2 inch (51 mm) insulated triple pane DSB glass.
      3. PVC Windows (WxH): 12 x 24 inches (305 x 600 mm).
         1. Glazing: 2 inch (51 mm) insulated triple pane DSB glass.
      4. Finish: Stucco embossed texture. 0.040 inch (1 mm) minor ribs 4 or 5 inches (100 or 125 mm) on center. Interior Color: White.

\*\* NOTE TO SPECIFIER \*\* Delete exterior color not required.

* + - * 1. Exterior Color: White.
        2. Exterior Color: Brown.

\*\* NOTE TO SPECIFIER \*\* Option below is Sherwin Williams high quality durable two-part paint Polane paint system.

* + - * 1. Exterior Color Blast:

SW Color Code No: \_\_\_\_\_\_\_.

SW Color Name: \_\_\_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete lock type not required.

* + - 1. Lock Type: One inside slide lock.
      2. Lock Type: Two inside slide locks.
      3. Lock Type: Five pin cylinder lock with outside key.
      4. Lock Type: No Lock

\*\* NOTE TO SPECIFIER \*\* Drop door safety device is optional. Available on vertical and high lift track types only. Delete if not required.

* + - 1. Door Drop Safety Device: Brackets to stop door from falling if lift cables fail.
      2. Weatherstripping: Complete perimeter seals.

\*\* NOTE TO SPECIFIER \*\* Delete track size option not required. Select track as required by size and weight of door.

* + - 1. Track Size: 2 inches (51 mm) track for 2 inch (51 mm) diameter rollers.
         1. Vertical Tracks: 0.061 inch (1.55 mm) galvanized steel.
         2. Horizontal Tracks 0.075 inch (1.91 mm) galvanized steel.
      2. Track Size: 3 inches (76 mm) track for 3 inch (76 mm) diameter rollers.
         1. Vertical and Horizontal Tracks: 0.096 inch (2.43 mm) galvanized steel.
      3. Track configuration to maximize headroom available per plans.
      4. Torsion Spring Counterbalance: Mechanism sized to weight of door, with high strength galvanized aircraft cable. 7 to 1 safety factor.

\*\* NOTE TO SPECIFIER \*\* Delete spring options not required.

* + - * 1. Standard Cycle Spring: 10,000 cycles.
        2. High Cycle Spring: 25,000 cycles.
        3. High Cycle Spring: 50,000 cycles.
        4. High Cycle Spring: 100,000 cycles
        5. Maximum cycles in a single shaft line.
    1. Clopay Model 3720. Premium Duty 2-inches (51 mm) steel doors with minor ribs, thermally-broken, polyurethane insulated.
       1. Maximum Door Size (WxH): 32 ft, 2 inches x 26 ft (9.8 x 7.9 m).
       2. Overall Panel Thickness: 2-inches (51 mm).
       3. Steel Skin Thickness: Exterior and Interior: 27 gauge, 0.016 inch (0.40 mm)
       4. Steel Reinforcement: Galvanized and primed. Located under each hinge location. Pre-punched for hinge attachment.
       5. End Stiles: Galvanized steel. Easy hardware attachment through pre-punched holes. Single End Hinge Style: 18 gauge, 0.045 inch (1.14 mm) thick. Double End Hinge Style: 16 gauge 0.056 inch (1.42 mm).
       6. Astragal: U-shaped flexible PVC in full-length retainer of 0.055 inch (1.4 mm) rigid PVC.
       7. Thermal Resistance (R-value) calculated in accordance with DASMA TDS-163: 18.4 deg F hr sq ft/Btu (3.0 (K sq m)/W).
       8. Insulation: CFC-free and HCFC-free polyurethane, fully encapsulated.
       9. U-Factor: 0.16.
       10. Air Infiltration: .022 cfm at 25 mph.

\*\* NOTE TO SPECIFIER \*\* Delete windows and glazing options not required.

* + - 1. Windows: None.
      2. Windows (WxH): 8 x 24 inches (200 x 600 mm). Extruded polypropylene
         1. Glazing: 1 inch (25 mm) insulated glass.
         2. Glazing: 1 inch (25 mm) insulated tempered glass.
         3. Glazing: 1/4 inch (6 mm) impact resistant Lexan.
      3. Windows (WxH): 12 x 24 inches (305 x 600 mm). Extruded polypropylene.
         1. Glazing: 1 inch (25 mm) insulated glass.
         2. Glazing: 1 inch (25 mm) insulated tempered glass.
         3. Glazing: 1/4 inch (6 mm) impact resistant Lexan.
      4. Windows: Full vision aluminum section, pre-painted to match door finish.
         1. Glazing: 1/8 inch (3 mm) DSB glass
         2. Glazing: 1/4 inch (6 mm) tempered glass
         3. Glazing: 1/2 inch (13 mm) insulated glass
         4. Glazing: Custom \_\_\_\_\_\_\_\_.
      5. Windows WxH): 13 x 26 inches (303 x 606 mm). Black extruded polypropylene with rounded corners.
         1. Glazing: 5/8 inch (16 mm) double pane acrylic.
         2. Glazing: 5/8 inch (16 mm) double pane lexan.
      6. Finish: Interior stucco embossed texture with shallow U ribbed pattern. Interior Color: White. Exterior stucco embossed with ribbed pattern,

\*\* NOTE TO SPECIFIER \*\* Delete exterior color options not required.

* + - * 1. Exterior Color: White.
        2. Exterior Color: Glacier White.
        3. Exterior Color: Brown.
        4. Exterior Color: Commercial Tan.
        5. Exterior Color: Mocha Brown.
        6. Exterior Color: Charcoal.
        7. Exterior Color: Commercial Gray.
        8. Exterior Color: Trinar White.
        9. Exterior Color: Trinar Beige.

\*\* NOTE TO SPECIFIER \*\* Option below is Sherwin Williams Solar reflective Polane paint system.

* + - * 1. Exterior Color Blast.

SW Color Code No: \_\_\_\_\_\_\_.

SW Color Name: \_\_\_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete lock type not required.

* + - 1. Lock Type: One inside slide lock.
      2. Lock Type: Two inside slide locks.
      3. Lock Type: Five pin cylinder lock with outside key.
      4. Lock Type: No Lock.

\*\* NOTE TO SPECIFIER \*\* Drop door safety device is optional. Available on vertical and high lift track types only. Delete if not required.

* + - 1. Door Drop Safety Device: Brackets to stop door from falling if lift cables fail.
      2. Weatherstripping: Complete perimeter seals. Flexible top and jamb seals U shaped bottom seal.

\*\* NOTE TO SPECIFIER \*\* Delete track size option not required. Select track as required by size and weight of door.

* + - 1. Track Size: 2 inches (51 mm) track for 2 inch (51 mm) diameter rollers.
         1. Vertical Tracks: 0.061 inch (1.55 mm) galvanized steel.
         2. Horizontal Tracks 0.075 inch (1.91 mm) galvanized steel.
      2. Track Size: 3 inches (76 mm) track for 3 inch (76 mm) diameter rollers.
         1. Vertical and Horizontal Tracks: 0.096 inch (2.43 mm) galvanized steel.
      3. Track configuration to maximize headroom available per plans.
      4. Torsion Spring Counterbalance: Mechanism sized to weight of door, with high strength galvanized aircraft cable. 7 to 1 safety factor.

\*\* NOTE TO SPECIFIER \*\* Delete spring options not required.

* + - * 1. Standard Cycle Spring: 10,000 cycles.
        2. High Cycle Spring: 25,000 cycles.
        3. High Cycle Spring: 50,000 cycles.
        4. High Cycle Spring: 100,000 cycles
        5. Maximum cycles in a single shaft line.

\*\* NOTE TO SPECIFIER \*\* Delete break-away bottom section if not required.

* + - 1. Break-Away Bottom Section: Integral part of door. Fiberglass or 1/8 inch (3 mm) polycarbonate lined bottom section with flexible neoprene rubber side edges. Exterior to match door face.

\*\* NOTE TO SPECIFIER \*\* Delete type not required.

* + - * 1. Single Breakaway Bottom Section: For doors up to 20 ft (6 m) wide.
        2. Double Breakaway Bottom Section: For doors up to 14 ft (4.3 m) wide.

\*\* NOTE TO SPECIFIER \*\* Delete walk-through service door if not required.

* + - 1. Pass Door (Walk-Through Service Door): 32 x 80 inches (813 x 2032 mm) with aluminum frame, geared hinge, and pneumatic door closer; exterior matching door face; integral shiplap weather seal; keyed dead latch security lock.
    1. Clopay Model 3724. Premium duty 2 inches (51 mm) steel doors with minor ribs, thermally-broken, polyurethane insulated.
       1. Maximum Door Size (WxH): 32 ft 2 inches x 26 ft (9.8 x 7.9 m).
       2. Overall Panel Thickness: 2-inches (51 mm).
       3. Steel Skin Thickness: Exterior: 24 gauge 0.022 inch (0.56 mm). Interior: 27 gauge 0.016 inch (0.40 mm) interior.
       4. Steel Reinforcement: Galvanized and primed. Located under each hinge location. Pre-punched for hinge attachment.
       5. End Stiles: Galvanized steel. Easy hardware attachment through pre-punched holes. Single End Hinge Style: 18 gauge, 0.045 inch (1.14 mm) thick. Double End Hinge Style: 16 gauge 0.056 inch (1.42 mm).
       6. Astragal: U-shaped flexible PVC in full-length retainer of 0.055 inch (1.4 mm) rigid PVC.
       7. Thermal Resistance (R-value) calculated in accordance with DASMA TDS-163: 18.4 deg F hr sq ft/Btu (3.0 (K sq m)/W).
       8. Insulation: CFC-free and HCFC-free polyurethane. Fully encapsulated.
       9. U-Factor: 0.16.
       10. Air Infiltration: .022 cfm at 25 mph.

\*\* NOTE TO SPECIFIER \*\* Delete windows and glazing options not required.

* + - 1. Windows: None.
      2. Windows (WxH): 8 x 24 inches (200 x 600 mm). Extruded polypropylene
         1. Glazing: 1 inch (25 mm) insulated glass.
         2. Glazing: 1 inch (25 mm) insulated tempered glass.
         3. Glazing: 1/4 inch (6 mm) impact resistant Lexan.
      3. Windows (WxH): 12 x 24 inches (305 x 600 mm). Extruded polypropylene.
         1. Glazing: 1 inch (25 mm) insulated glass.
         2. Glazing: 1 inch (25 mm) insulated tempered glass.
         3. Glazing: 1/4 inch (6 mm) impact resistant Lexan.
      4. Windows: Full vision aluminum section, pre-painted to match door finish.
         1. Glazing: 1/8 inch (3 mm) DSB glass
         2. Glazing: 1/4 inch (6 mm) tempered glass
         3. Glazing: 1/2 inch (13 mm) insulated glass
         4. Glazing: Custom \_\_\_\_\_\_\_\_.
      5. Windows WxH): 13 x 26 inches (303 x 606 mm). Black extruded polypropylene with rounded corners.
         1. Glazing: 5/8 inch (16 mm) double pane acrylic.
         2. Glazing: 5/8 inch (16 mm) double pane lexan.
      6. Finish: Interior stucco embossed texture with shallow U ribbed pattern. Interior Color: White. Exterior stucco embossed with ribbed pattern.

\*\* NOTE TO SPECIFIER \*\* Delete exterior color options not required.

* + - * 1. Exterior Color: White.
        2. Exterior Color: Brown.
        3. Exterior Color: Commercial Tan.
        4. Exterior Color: Gray.
        5. Exterior Color: Black.
        6. Exterior Color: Trinar White

\*\* NOTE TO SPECIFIER \*\* Option below is Sherwin Williams Solar reflective Polane paint system.

* + - * 1. Exterior Color Blast.

SW Color Code No: \_\_\_\_\_\_\_.

SW Color Name: \_\_\_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete lock type not required.

* + - 1. Lock Type: One inside slide lock.
      2. Lock Type: Two inside slide locks.
      3. Lock Type: Five pin cylinder lock with outside key.
      4. Lock Type: No Lock

\*\* NOTE TO SPECIFIER \*\* Drop door safety device is optional. Available on vertical and high lift track types only. Delete if not required.

* + - 1. Door Drop Safety Device: Brackets to stop door from falling if lift cables fail.
      2. Weatherstripping: Complete perimeter seals.

\*\* NOTE TO SPECIFIER \*\* Delete track size option not required. Select track as required by size and weight of door.

* + - 1. Track Size: 2 inches (51 mm) track for 2 inch (51 mm) diameter rollers.
         1. Vertical Tracks: 0.061 inch (1.55 mm) galvanized steel.
         2. Horizontal Tracks 0.075 inch (1.91 mm) galvanized steel.
      2. Track Size: 3 inches (76 mm) track for 3 inch (76 mm) diameter rollers.
         1. Vertical and Horizontal Tracks: 0.096 inch (2.43 mm) galvanized steel.
      3. Track configuration to maximize headroom available per plans.
      4. Torsion Spring Counterbalance: Mechanism sized to weight of door, with high strength galvanized aircraft cable. 7 to 1 safety factor.

\*\* NOTE TO SPECIFIER \*\* Delete spring options not required.

* + - * 1. Standard Cycle Spring: 10,000 cycles.
        2. High Cycle Spring: 25,000 cycles.
        3. High Cycle Spring: 50,000 cycles.
        4. High Cycle Spring: 100,000 cycles
        5. Maximum cycles in a single shaft line.

\*\* NOTE TO SPECIFIER \*\* Delete break-away bottom section if not required.

* + - 1. Break-Away Bottom Section: Integral part of door. Fiberglass with flexible neoprene rubber side edges. Exterior to match door face.

\*\* NOTE TO SPECIFIER \*\* Delete type not required.

* + - * 1. Single Breakaway Bottom Section: For doors up to 20 ft (6 m) wide.
        2. Double Breakaway Bottom Section: For doors up to 14 ft (4.3 m) wide.

\*\* NOTE TO SPECIFIER \*\* Delete walk-through service door if not required.

* + - 1. Pass Door (Walk-Through Service Door): 32 x 80 inches (813 x 2032 mm) with aluminum frame, geared hinge, and pneumatic door closer; exterior matching door face; integral shiplap weather seal; keyed dead latch security lock.
    1. Clopay Model 3717. Heavy duty 1-3/4-inches (45 mm) steel doors with minor ribs, thermally-broken, polyurethane insulated.
       1. Maximum Door Size (WxH): 32 ft, 2 inches x 26 ft (9.8 x 7.9 m).
       2. Overall Panel Thickness: 1-3/4 inches (45 mm).
       3. Steel Skin Thickness: Exterior and Interior: 27 gauge, 0.016 inch (0.40 mm)
       4. Steel Reinforcement: Galvanized and primed. Located under each hinge location. Pre-punched for hinge attachment.
       5. End Stiles: Galvanized steel. Easy hardware attachment through pre-punched holes. Single End Hinge Style: 18 gauge, 0.045 inch (1.14 mm) thick. Double End Hinge Style: 16 gauge 0.056 inch (1.42 mm).
       6. Astragal: U-shaped flexible PVC in full-length retainer of 0.055 inch (1.4 mm) rigid PVC.
       7. Thermal Resistance (R-value): 16.2 deg F hr sq ft/Btu (2.7 (K sq m)/W); calculated door section R-value in accordance with DASMA TDS-163.
       8. Insulation: CFC-free and HCFC-free polyurethane, fully encapsulated.
       9. U-Factor: 18.
       10. Air Infiltration: .25 cfm at 25 mph.

\*\* NOTE TO SPECIFIER \*\* Delete windows and glazing options not required.

* + - 1. Windows: None.
      2. Windows (WxH): 8 x 24 inches (200 x 600 mm). Extruded polypropylene
         1. Glazing: 7/8 inch (22 mm) insulated glass.
         2. Glazing: 7/8 inch (22 mm) insulated tempered glass.
         3. Glazing: 1/4 inch (6 mm) impact resistant Lexan.
      3. Windows (WxH): 12 x 24 inches (305 x 600 mm). Extruded polypropylene.
         1. Glazing: 7/8 inch (22 mm) insulated glass.
         2. Glazing: 7/8 inch (22 mm) insulated tempered glass.
         3. Glazing: 1/4 inch (6 mm) impact resistant Lexan.
      4. Windows: Full vision aluminum section, pre-painted to match door finish.
         1. Glazing: 1/8 inch (3 mm) DSB glass
         2. Glazing: 1/4 inch (6 mm) tempered glass
         3. Glazing: 1/2 inch (13 mm) insulated glass
         4. Glazing: Custom \_\_\_\_\_\_\_\_.
      5. Windows WxH): 13 x 26 inches (303 x 606 mm). Black extruded polypropylene with rounded corners.
         1. Glazing: 5/8 inch (16 mm) double pane acrylic.
         2. Glazing: 5/8 inch (16 mm) double pane lexan.
      6. Finish: Interior stucco embossed texture with shallow U ribbed pattern. Interior Color: White. Exterior stucco embossed with ribbed pattern.

\*\* NOTE TO SPECIFIER \*\* Delete color options not required.

* + - * 1. Exterior Color: White.
        2. Exterior Color: Glacier White
        3. Exterior Color: Brown.
        4. Exterior Color: Mocha Brown
        5. Exterior Color: Charcoal
        6. Exterior Color: Commercial Tan.
        7. Exterior Color: Gray.
        8. Exterior Color: Trinar White.
        9. Exterior Color: Trinar Beige.

\*\* NOTE TO SPECIFIER \*\* Option below is Sherwin Williams Solar reflective Polane paint system.

* + - * 1. Exterior Color Blast.

SW Color Code No: \_\_\_\_\_\_\_.

SW Color Name: \_\_\_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete lock type not required.

* + - 1. Lock Type: One inside slide lock.
      2. Lock Type: Two inside slide locks.
      3. Lock Type: Five pin cylinder lock with outside key.
      4. Lock Type: No Lock

\*\* NOTE TO SPECIFIER \*\* Drop door safety device is optional. Available on vertical and high lift track types only. Delete if not required.

* + - 1. Door Drop Safety Device: Brackets to stop door from falling if lift cables fail.
      2. Weatherstripping: Complete perimeter seals.

\*\* NOTE TO SPECIFIER \*\* Delete track size option not required. Select track as required by size and weight of door.

* + - 1. Track Size: 2 inches (51 mm) track for 2 inch (51 mm) diameter rollers.
         1. Vertical Tracks: 0.061 inch (1.55 mm) galvanized steel.
         2. Horizontal Tracks 0.075 inch (1.91 mm) galvanized steel.
      2. Track Size: 3 inches (76 mm) track for 3 inch (76 mm) diameter rollers.
         1. Vertical and Horizontal Tracks: 0.096 inch (2.43 mm) galvanized steel.
      3. Track configuration to maximize headroom available per plans.
      4. Torsion Spring Counterbalance: Mechanism sized to weight of door. Helically wound, oil tempered spring on steel shaft. Cable drum of die cast aluminum with high strength galvanized aircraft cable. 7 to 1 safety factor.

\*\* NOTE TO SPECIFIER \*\* Delete spring options not required.

* + - * 1. Standard Cycle Spring: 10,000 cycles.
        2. High Cycle Spring: 25,000 cycles.
        3. High Cycle Spring: 50,000 cycles.
        4. High Cycle Spring: 100,000 cycles
        5. Maximum cycles in a single shaft line.

\*\* NOTE TO SPECIFIER \*\* Delete break-away bottom section if not required.

* + - 1. Break-Away Bottom Section: Integral part of door. Fiberglass with flexible neoprene rubber side edges. Exterior to match door face.

\*\* NOTE TO SPECIFIER \*\* Delete type not required.

* + - * 1. Single Breakaway Bottom Section: For doors up to 20 ft (6 m) wide.
        2. Double Breakaway Bottom Section: For doors up to 14 ft (4.3 m) wide.
    1. Clopay Model 3715. Standard duty 1-3/8-inches (35 mm) steel doors with minor ribs, thermally-broken, polyurethane insulated.
       1. Maximum Door Size (WxH): 20 ft, 6 inches x 16 ft (6.2 x 4.9 m) high.
       2. Overall Panel Thickness: 1-3/8-inches (35 mm).
       3. Steel Skin Thickness: Exterior and Interior: 27 gauge, 0.016 inch (0.40 mm)
       4. Steel Reinforcement: Galvanized and primed. Located under each hinge location. Pre-punched for hinge attachment.
       5. End Stiles: Galvanized steel. 20 gauge, 0.034 inch (.86 mm) thick. Easy hardware attachment through pre-punched holes.
       6. Astragal: U-shaped flexible PVC in full-length retainer of 0.055 inch (1.4 mm) rigid PVC.
       7. Thermal Resistance (R-value): 12.9 deg F hr sq ft/Btu (2.3 (K sq m)/W); calculated door section R-value in accordance with DASMA TDS-163.
       8. Insulation: CFC-free and HCFC-free polyurethane, fully encapsulated.
       9. U-Factor: 0.19.
       10. Air Infiltration: 0.12 cfm at 25 mph.

\*\* NOTE TO SPECIFIER \*\* Delete windows and glazing options not required.

* + - 1. Windows: None.
      2. Windows (WxH): 8 x 24 inches (200 x 600 mm). Extruded polypropylene
         1. Glazing: 1/2 inch (12 mm) insulated glass.
         2. Glazing: 1/2 inch (12 mm) insulated tempered glass.
      3. Windows (WxH): 12 x 24 inches (305 x 600 mm). Extruded polypropylene.
         1. Glazing: 1/2 inch (12 mm) insulated glass.
         2. Glazing: 1/2 inch (12 mm) insulated tempered glass.
      4. Windows: Full vision aluminum section, pre-painted to match door finish.
         1. Glazing: 1/8 inch (3 mm) DSB glass
         2. Glazing: 1/4 inch (6 mm) tempered glass
         3. Glazing: 1/2 inch (13 mm) insulated glass
         4. Glazing: Custom \_\_\_\_\_\_\_\_.
      5. Finish: Interior stucco embossed texture with ribbed pattern. Interior Color: White. Exterior stucco embossed with ribbed pattern.

\*\* NOTE TO SPECIFIER \*\* Delete colors not required.

* + - * 1. Exterior Color: White.
        2. Exterior Color: Glacier White
        3. Exterior Color: Brown.
        4. Exterior Color: Mocha Brown
        5. Exterior Color: Charcoal
        6. Exterior Color: Commercial Tan.
        7. Exterior Color: Gray.

\*\* NOTE TO SPECIFIER \*\* Option below is Sherwin Williams Solar reflective Polane paint system.

* + - * 1. Exterior Color Blast.

SW Color Code No: \_\_\_\_\_\_\_.

SW Color Name: \_\_\_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete lock type not required.

* + - 1. Lock Type: One inside slide lock.
      2. Lock Type: Two inside slide locks.
      3. Lock Type: Five pin cylinder lock with outside key.
      4. Lock Type: No Lock.

\*\* NOTE TO SPECIFIER \*\* Drop door safety device is optional. Available on vertical and high lift track types only. Delete if not required.

* + - 1. Door Drop Safety Device: Brackets to stop door from falling if lift cables fail.
      2. Weatherstripping: Complete perimeter seals.

\*\* NOTE TO SPECIFIER \*\* Delete track size option not required. Select track as required by size and weight of door.

* + - 1. Track Size: 2 inches (51 mm) track for 2 inch (51 mm) diameter rollers.
         1. Vertical Tracks: 0.061 inch (1.55 mm) galvanized steel.
         2. Horizontal Tracks 0.075 inch (1.91 mm) galvanized steel.
      2. Track Size: 3 inches (76 mm) track for 3 inch (76 mm) diameter rollers.
         1. Vertical and Horizontal Tracks: 0.096 inch (2.43 mm) galvanized steel.
      3. Track configuration to maximize headroom available per plans.
      4. Torsion Spring Counterbalance: Mechanism sized to weight of door, with high strength galvanized aircraft cable. 7 to 1 safety factor.

\*\* NOTE TO SPECIFIER \*\* Delete spring options not required.

* + - * 1. Standard Cycle Spring: 10,000 cycles.
        2. High Cycle Spring: 25,000 cycles.
        3. High Cycle Spring: 50,000 cycles.
        4. High Cycle Spring: 100,000 cycles.
        5. Maximum cycles in a single shaft line.

\*\* NOTE TO SPECIFIER \*\* Delete article if not required or delete Clopay models not required, Energy Series with Intellicore.

* 1. FLUSH STEEL DOORS, THERMALLY-BROKEN, POLYURETHANE INSULATED

\*\* NOTE TO SPECIFIER \*\* Model 3721 has embossed woodgrain flush panels.

* + 1. Clopay Model 3721. Premium Duty Insulated 2 inches (51 mm) Flush steel doors, thermally-broken, polyurethane insulated.
       1. Maximum Door Size (WxH): 24 ft, 2 inches x 18 ft (7.4 m x 5.5 m).
       2. Overall Panel Thickness: 2 inches (51 mm).
       3. Steel Skin Thickness: Exterior and Interior: 27 gauge, 0.016 inch (0.40 mm)
       4. Steel Reinforcement: Galvanized and primed. Located under each hinge location. Pre-punched for hinge attachment.
       5. End Stiles: Galvanized steel. Easy hardware attachment through pre-punched holes. Single End Hinge Style: 18 gauge, 0.045 inch (1.14 mm) thick. Double End Hinge Style: 16 gauge 0.056 inch (1.42 mm).
       6. Astragal: U-shaped flexible PVC in full-length retainer of 0.055 inch (1.4 mm) rigid PVC.
       7. Thermal Resistance (R-value) calculated in accordance with DASMA TDS-163: 18.4 deg F hr sq ft/Btu (2.7 (K sq m)/W).
       8. U-Factor: 0.16.
       9. Air Infiltration: 0.022 cfm at 25 mph
       10. Finish: Interior: Stucco embossed texture with shallow U ribbed pattern. Interior Color: White. Exterior: Woodgrain embossed texture with flush exterior panel.

\*\* NOTE TO SPECIFIER \*\* Delete exterior color not required.

* + - * 1. Exterior Color: White.
        2. Exterior Color: Brown.
        3. Exterior Color: Almond.
        4. Exterior Color: Desert Tan.
        5. Exterior Color: Sandtone.
        6. Exterior Color: Commercial Tan
        7. Exterior Color: Charcoal

\*\* NOTE TO SPECIFIER \*\* Option below is Sherwin Williams Solar reflective Polane paint system.

* + - * 1. Exterior Color Blast.

SW Color Code No: \_\_\_\_\_\_\_.

SW Color Name: \_\_\_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete windows and glazing options not required.

* + - 1. Windows: None.
      2. Windows (WxH): 12 x 19.5 inches (305 x 495 mm). Extruded polypropylene
         1. Glazing: 1/8 inch (3 mm) DSB sheet glass.
         2. Glazing: 1/8 inch (3 mm) acrylic sheet.
         3. Glazing: 1/2 inch (12 mm) insulated glass glazing
      3. Windows (WxH): 12 x 40.5 inches (305 x 1029 mm). Extruded polypropylene
         1. Glazing: 1/8 inch (3 mm) DSB sheet glass.
         2. Glazing: 1/8 inch (3 mm) acrylic sheet.
         3. Glazing: 1/2 inch (12 mm) insulated glass glazing

\*\* NOTE TO SPECIFIER \*\* Delete lock type not required.

* + - 1. Lock Type: One inside slide lock.
      2. Lock Type: Two inside slide locks.
      3. Lock Type: Five pin cylinder lock with outside key.
      4. Lock Type: No Lock

\*\* NOTE TO SPECIFIER \*\* Drop door safety device is optional. Available on vertical and high lift track types only. Delete if not required.

* + - 1. Door Drop Safety Device: Brackets to stop door from falling if lift cables fail.
      2. Weatherstripping: Complete perimeter seals. Flexible top and jamb seals. U shaped bottom seal.

\*\* NOTE TO SPECIFIER \*\* Delete track size option not required. Select track as required by size and weight of door.

* + - 1. Track Size: 2 inches (51 mm) track for 2 inch (51 mm) diameter rollers.
         1. Vertical Tracks: 0.061 inch (1.55 mm) galvanized steel.
         2. Horizontal Tracks 0.075 inch (1.91 mm) galvanized steel.
      2. Track Size: 3 inches (76 mm) track for 3 inch (76 mm) diameter rollers.
         1. Vertical and Horizontal Tracks: 0.096 inch (2.43 mm) galvanized steel.
      3. Track configuration to maximize headroom available per plans.
      4. Torsion Spring Counterbalance: Mechanism sized to weight of door, with high strength galvanized aircraft cable. 7 to 1 safety factor.

\*\* NOTE TO SPECIFIER \*\* Delete spring options not required.

* + - * 1. Standard Cycle Spring: 10,000 cycles.
        2. High Cycle Spring: 25,000 cycles.
        3. High Cycle Spring: 50,000 cycles.
        4. High Cycle Spring: 100,000 cycles
        5. Maximum cycles in a single shaft line.

\*\* NOTE TO SPECIFIER \*\* 3722 model has embossed stucco flush panels.

* + 1. Clopay Model 3722. Premium duty insulated 2-inches (51 mm) Flush steel doors, thermally-broken, polyurethane insulated.
       1. Maximum Door Size (WxH): 32 ft, 2 inches x 24 ft (9.8 x 7.3 m).
       2. Overall Panel Thickness: 2 inches (51 mm).
       3. Steel Skin Thickness: Exterior: 20 ga .034 inch (0.86 mm). Interior: 27 gauge 0.016 inch (0.40 mm).
       4. Steel Reinforcement: Galvanized and primed. Located under each hinge location. Pre-punched for hinge attachment.
       5. End Stiles: Galvanized steel. Easy hardware attachment through pre-punched holes. Single End Hinge Style: 18 gauge, 0.045 inch (1.14 mm) thick. Double End Hinge Style: 16 gauge 0.056 inch (1.42 mm).
       6. Astragal: U-shaped flexible PVC in full-length retainer of 0.055 inch (1.4 mm) rigid PVC.
       7. Thermal Resistance (R-value) calculated in accordance with DASMA TDS-163: 18.4 deg F hr sq ft/Btu (2.7 (K sq m)/W).
       8. Insulation: CFC-free and HCFC-free polyurethane, fully encapsulated.
       9. U-Factor: 0.16.
       10. Air Infiltration: 0.22 cfm at 25 mph.
       11. Finish: Interior stucco embossed texture with shallow U ribbed pattern. Color: White. Exterior: Stucco embossed texture with flush exterior panel. Color as follows:

\*\* NOTE TO SPECIFIER \*\* Delete exterior color not required.

* + - * 1. Exterior Color: White.
        2. Exterior Color: Brown.

\*\* NOTE TO SPECIFIER \*\* Option below is Sherwin Williams Solar reflective Polane paint system.

* + - * 1. Exterior Color Blast.

SW Color Code No: \_\_\_\_\_\_\_.

SW Color Name: \_\_\_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete windows and glazing options not required.

* + - 1. Windows: None.
      2. Windows (WxH): 8 x 24 inches (200 x 600 mm). Extruded polypropylene
         1. Glazing: 7/8 inch (22 mm) insulated glass.
         2. Glazing: 7/8 inch (22 mm) insulated tempered glass.
      3. Windows (WxH): 12 x 24 inches (305 x 600 mm). Extruded polypropylene.
         1. Glazing: 7/8 inch (22 mm) insulated glass.
         2. Glazing: 7/8 inch (22 mm) insulated tempered glass.
      4. Windows: Full vision aluminum section, pre-painted to match door finish.
         1. Glazing: 1/8 inch (3 mm) DSB glass
         2. Glazing: 1/4 inch (6 mm) tempered glass
         3. Glazing: 1/2 inch (13 mm) insulated glass
         4. Glazing: Custom \_\_\_\_\_\_\_\_.
      5. Windows WxH): 13 x 26 inches (303 x 606 mm). Black extruded polypropylene with rounded corners.
         1. Glazing: 5/8 inch (16 mm) double pane acrylic.
         2. Glazing: 5/8 inch (16 mm) double pane lexan.

\*\* NOTE TO SPECIFIER \*\* Delete lock type not required.

* + - 1. Lock Type: One inside slide lock.
      2. Lock Type: Two inside slide locks.
      3. Lock Type: Five pin cylinder lock with outside key.
      4. Lock Type: No Lock

\*\* NOTE TO SPECIFIER \*\* Drop door safety device is optional. Available on vertical and high lift track types only. Delete if not required.

* + - 1. Door Drop Safety Device: Brackets to stop door from falling if lift cables fail.
      2. Weatherstripping: Complete perimeter seals.

\*\* NOTE TO SPECIFIER \*\* Delete track size option not required. Select track as required by size and weight of door.

* + - 1. Track Size: 2 inches (51 mm) track for 2 inch (51 mm) diameter rollers.
         1. Vertical Tracks: 0.061 inch (1.55 mm) galvanized steel.
         2. Horizontal Tracks 0.075 inch (1.91 mm) galvanized steel.
      2. Track Size: 3 inches (76 mm) track for 3 inch (76 mm) diameter rollers.
         1. Vertical and Horizontal Tracks: 0.096 inch (2.43 mm) galvanized steel.
      3. Track configuration to maximize headroom available per plans.
      4. Torsion Spring Counterbalance: Mechanism sized to weight of door, with high strength galvanized aircraft cable. 7 to 1 safety factor.

\*\* NOTE TO SPECIFIER \*\* Delete spring options not required.

* + - * 1. Standard Cycle Spring: 10,000 cycles.
        2. High Cycle Spring: 25,000 cycles.
        3. High Cycle Spring: 50,000 cycles.
        4. High Cycle Spring: 100,000 cycles
        5. Maximum cycles in a single shaft line.
      1. Break-Away Bottom Section: Integral part of door. Fiberglass with flexible neoprene rubber side edges. Exterior to match door face
         1. Single Breakaway Bottom Section: For doors up to 20 ft (6 m) wide
         2. Double Breakaway Bottom Section: For doors up to 14 ft (4.3 m) wide
      2. Pass Door (Walk-Through Service Door): 32 x 80 inches (813 x 2032 mm) with aluminum frame, geared hinge, and pneumatic door closer; exterior matching door face; integral shiplap weather seal; keyed dead latch security lock

\*\* NOTE TO SPECIFIER \*\* 3718 model has embossed stucco flush panels.

* + 1. Clopay Model 3718. Heavy duty 1-3/4-inches (45 mm) flush steel doors, thermally-broken, polyurethane insulated.
       1. Maximum Door Size (WxH): 32 ft, 2 inches x 24 ft (9.8 x 7.3 m).
       2. Overall Panel Thickness: 1-3/4-inches (45 mm).
       3. Steel Skin Thickness: Exterior and Interior: 27 gauge, 0.016 inch (0.40 mm)
       4. Steel Reinforcement: Galvanized and primed. Located under each hinge location. Pre-punched for hinge attachment.
       5. End Stiles: Galvanized steel. Easy hardware attachment through pre-punched holes. Single End Hinge Style: 18 gauge, 0.045 inch (1.14 mm) thick. Double End Hinge Style: 16 gauge 0.056 inch (1.42 mm).
       6. Astragal: U-shaped flexible PVC in full-length retainer of 0.055 inch (1.4 mm) rigid PVC.
       7. Thermal Resistance (R-value) calculated in accordance with DASMA TDS-163: 16.2 deg F hr sq ft/Btu (2.7 (K sq m)/W).
       8. Insulation: CFC-free and HCFC-free polyurethane, fully encapsulated.
       9. U-Factor: 0.18.
       10. Air Infiltration: 0.25 cfm at 25 mph.
       11. Finish: Interior stucco embossed texture with shallow U ribbed pattern. Interior Color: White. Exterior stucco embossed texture with flush panel.

\*\* NOTE TO SPECIFIER \*\* Delete exterior colors not required.

* + - * 1. Exterior Color: White.
        2. Exterior Color: Glacier White
        3. Exterior Color: Brown.
        4. Exterior Color: Mocha Brown.
        5. Exterior Color: Charcoal.
        6. Exterior Color: Commercial Tan.
        7. Exterior Color: Gray.
        8. Exterior Color: Trinar White.
        9. Exterior Color: Trinar Beige.

\*\* NOTE TO SPECIFIER \*\* Option below is Sherwin Williams Solar reflective Polane paint system.

* + - * 1. Exterior Color Blast.

SW Color Code No: \_\_\_\_\_\_\_.

SW Color Name: \_\_\_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete windows and glazing options not required.

* + - 1. Windows: None.
      2. Windows (WxH): 8 x 24 inches (200 x 600 mm). Extruded polypropylene
         1. Glazing: 7/8 inch (22 mm) insulated glass.
         2. Glazing: 7/8 inch (22 mm) insulated tempered glass.
         3. Glazing: 1/4 inch (6 mm) impact resistant Lexan.
      3. Windows (WxH): 12 x 24 inches (305 x 600 mm). Extruded polypropylene.
         1. Glazing: 7/8 inch (22 mm) insulated glass.
         2. Glazing: 7/8 inch (22 mm) insulated tempered glass.
         3. Glazing: 1/4 inch (6 mm) impact resistant Lexan.
      4. Windows: Full vision aluminum section, pre-painted to match door finish.
         1. Glazing: 1/8 inch (3 mm) DSB glass.
         2. Glazing: 1/4 inch (6 mm) tempered glass.
         3. Glazing: 1/2 inch (13 mm) insulated glass.
         4. Glazing: Custom \_\_\_\_\_\_\_\_.
      5. Windows WxH): 13 x 26 inches (303 x 606 mm). Black extruded polypropylene with rounded corners.
         1. Glazing: 5/8 inch (16 mm) double pane acrylic.
         2. Glazing: 5/8 inch (16 mm) double pane lexan.

\*\* NOTE TO SPECIFIER \*\* Delete lock type not required.

* + - 1. Lock Type: One inside slide lock.
      2. Lock Type: Two inside slide locks.
      3. Lock Type: Five pin cylinder lock with outside key.
      4. Lock Type: No Lock.

\*\* NOTE TO SPECIFIER \*\* Drop door safety device is optional. Available on vertical and high lift track types only. Delete if not required.

* + - 1. Door Drop Safety Device: Brackets to stop door from falling if lift cables fail.
      2. Weatherstripping: Complete perimeter seals.

\*\* NOTE TO SPECIFIER \*\* Delete track size option not required. Select track as required by size and weight of door.

* + - 1. Track Size: 2 inches (51 mm) track for 2 inch (51 mm) diameter rollers.
         1. Vertical Tracks: 0.061 inch (1.55 mm) galvanized steel.
         2. Horizontal Tracks 0.075 inch (1.91 mm) galvanized steel.
      2. Track Size: 3 inches (76 mm) track for 3 inch (76 mm) diameter rollers.
         1. Vertical and Horizontal Tracks: 0.096 inch (2.43 mm) galvanized steel.
      3. Track configuration to maximize headroom available per plans.
      4. Torsion Spring Counterbalance: Mechanism sized to weight of door, with high strength galvanized aircraft cable. 7 to 1 safety factor.

\*\* NOTE TO SPECIFIER \*\* Delete spring options not required.

* + - * 1. Standard Cycle Spring: 10,000 cycles.
        2. High Cycle Spring: 25,000 cycles.
        3. High Cycle Spring: 50,000 cycles.
        4. High Cycle Spring: 100,000 cycles.
        5. Maximum cycles in a single shaft line.
      1. Break-Away Bottom Section: Integral part of door. Fiberglass with flexible neoprene rubber side edges. Exterior to match door face.
         1. Single Breakaway Bottom Section: For doors up to 20 ft (6 m) wide.
         2. Double Breakaway Bottom Section: For doors up to 14 ft (4.3 m) wide.

\*\* NOTE TO SPECIFIER \*\* Delete Article if not required. Energy Series with Intellicore.

* 1. RAISED PANEL STEEL DOORS, THERMALLY-BROKEN, POLYURETHANE INSULATED
     1. Clopay Model 3723. Premium duty insulated 2-inch (51 mm) raised panel steel doors, thermally-broken, polyurethane insulated.
        1. Maximum Door Size (WxH): 24 ft, 2 inches x 18 ft (7.4 x 5.5 m).
        2. Steel Skin Thickness, Exterior and Interior: 27 gauge, 0.016 inch (0.40 mm).
        3. Steel Reinforcement: Galvanized and primed. Located under each hinge location. Pre-punched for hinge attachment.
        4. Finish: Interior stucco embossed texture with shallow U ribbed pattern. Interior Color: White. Exterior: Stucco embossed texture with raised exterior panel.

\*\* NOTE TO SPECIFIER \*\* Delete exterior color options not required.

* + - * 1. Exterior Color: White.
        2. Exterior Color: Glacier White.
        3. Exterior Color: Almond.
        4. Exterior Color: Sandtone.
        5. Exterior Color: Desert Tan.
        6. Exterior Color: Commercial Tan.
        7. Exterior Color: Brown.
        8. Exterior Color: Charcoal.

\*\* NOTE TO SPECIFIER \*\* Option below is Sherwin Williams Solar reflective Polane paint system.

* + - * 1. Exterior Color Blast.

SW Color Code No: \_\_\_\_\_\_\_.

SW Color Name: \_\_\_\_\_\_\_\_.

* + - 1. Overall Panel Thickness: 2-inches (51 mm).
      2. End Stiles: Galvanized steel. Easy hardware attachment through pre-punched holes. Single End Hinge Style: 18 gauge, 0.045 inch (1.14 mm) thick. Double End Hinge Style: 16 gauge 0.056 inch (1.42 mm).
      3. Astragal: U-shaped flexible PVC in full-length retainer of 0.055 inch (1.4 mm) rigid PVC.
      4. Thermal Resistance (R-value) calculated in accordance with DASMA TDS-163: 18.4 deg F hr sq ft/Btu (3.0 (K sq m)/W).
      5. Insulation: CFC-free and HCFC-free polyurethane, fully encapsulated.
      6. U-Factor: 0.16.
      7. Air Infiltration: 0.22 cfm at 25 mph.

\*\* NOTE TO SPECIFIER \*\* Delete windows and glazing options not required.

* + - 1. Windows: None.
      2. PVC Windows (WxH): 12 x 19.5 inches (305 x 495 mm)
         1. Glazing: 1/8 inch (3 mm) DSB sheet glass.
         2. Glazing: 1/8 inch (3 mm) acrylic sheet.
         3. Glazing: 1/2 inch (12 mm) insulated glass glazing.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - 1. PVC Windows (WxH): 12 x 40.5 inches (305 x 1029 mm):
         1. Glazing: 1/8 inch (3 mm) DSB sheet glass.
         2. Glazing: 1/8 inch (3 mm) acrylic sheet.
         3. Glazing: 1/2 inch (12 mm) insulated glass glazing.

\*\* NOTE TO SPECIFIER \*\* Delete lock type not required.

* + - 1. Lock Type: One inside slide lock.
      2. Lock Type: Two inside slide locks.
      3. Lock Type: Five pin cylinder lock with outside key.
      4. Lock Type: No Lock

\*\* NOTE TO SPECIFIER \*\* Drop door safety device is optional. Available on vertical and high lift track types only. Delete if not required.

* + - 1. Door Drop Safety Device: Brackets to stop door from falling if lift cables fail.
      2. Weatherstripping: Complete perimeter seals.

\*\* NOTE TO SPECIFIER \*\* Delete track size option not required. Select track as required by size and weight of door.

* + - 1. Track Size: 2 inches (51 mm) track for 2 inch (51 mm) diameter rollers.
         1. Vertical Tracks: 0.061 inch (1.55 mm) galvanized steel.
         2. Horizontal Tracks 0.075 inch (1.91 mm) galvanized steel.
      2. Track Size: 3 inches (76 mm) track for 3 inch (76 mm) diameter rollers.
         1. Vertical and Horizontal Tracks: 0.096 inch (2.43 mm) galvanized steel.
      3. Track configuration to maximize headroom available per plans.
      4. Torsion Spring Counterbalance: Mechanism sized to weight of door, with high strength galvanized aircraft cable. 7 to 1 safety factor.

\*\* NOTE TO SPECIFIER \*\* Delete spring options not required.

* + - * 1. Standard Cycle Spring: 10,000 cycles.
        2. High Cycle Spring: 25,000 cycles.
        3. High Cycle Spring: 50,000 cycles.
        4. High Cycle Spring: 100,000 cycles
        5. Maximum cycles in a single shaft line.

\*\* NOTE TO SPECIFIER \*\* Delete article if not required or delete Clopay models not required. Energy Series.

* 1. STEEL DOORS WITH MINOR RIBS, THERMALLY-BROKEN, POLYSTYRENE INSULATED
     1. Clopay Model 3200. Heavy duty steel doors with minor ribs, thermally-broken, polystyrene insulated.
        1. Maximum Door Size (WxH): 24 ft, 2 inches x 24 ft (7.3 x 7.3 m).
        2. Overall Panel Thickness: 2 inches (51 mm).
        3. Steel Skin Thickness: Exterior: 24 gauge 0.022 inch (0.56 mm). Interior: 27 gauge 0.016 inch (0.40 mm) interior.
        4. Steel Reinforcement: Galvanized and primed. Located under each hinge location. Pre-punched for hinge attachment.
        5. End Stiles: Pre-painted steel. 0.049 inch (1.25 mm) thick. Easy hardware attachment through pre-punched holes.
        6. Astragal: U-shaped flexible PVC in full-length retainer of 0.055 inch (1.4 mm) rigid PVC.
        7. Thermal Resistance (R-value) calculated in accordance with DASMA TDS-163: 9.1 deg F hr sq ft/Btu (1.6 (K sq m)/W).
        8. U-Factor: 0.23.
        9. Air Infiltration: 0.34 cfm at 25 mph.

\*\* NOTE TO SPECIFIER \*\* Delete windows and glazing options not required.

* + - 1. Windows: None.
      2. Windows (WxH): 8 x 24 inches (200 x 600 mm). Extruded polypropylene
         1. Glazing: 1 inch (25 mm) insulated glass.
         2. Glazing: 1 inch (25 mm) insulated tempered glass.
      3. Windows (WxH): 12 x 24 inches (305 x 600 mm). Extruded polypropylene.
         1. Glazing: 1 inch (25 mm) insulated glass.
         2. Glazing: 1 inch (25 mm) insulated tempered glass.
      4. Windows: Full vision aluminum section, pre-painted to match door finish.
         1. Glazing: 1/8 inch (3 mm) DSB clear float glass.
         2. Glazing: 1/4 inch (6 mm) tempered clear float glass.
         3. Glazing: 1/2 inch (13 mm) dual pane insulated glazing.
         4. Glazing: Custom \_\_\_\_\_\_\_\_.
      5. Finish: Stucco embossed texture with 0.040 inch (100 mm) minor ribs 4 inches or 5 inches (100 or 125 mm) on center. Interior Color: White.

\*\* NOTE TO SPECIFIER \*\* Delete colors not required.

* + - * 1. Exterior Color: White.
        2. Exterior Color: Brown.
        3. Exterior Color: Commercial Tan.
        4. Exterior Color: Gray.
        5. Exterior Color: Black
        6. Exterior Color: Trinar White.

\*\* NOTE TO SPECIFIER \*\* Option below is Sherwin Williams Solar reflective Polane paint system.

* + - * 1. Exterior Color Blast.

SW Color Code No: \_\_\_\_\_\_\_.

SW Color Name: \_\_\_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete lock type not required.

* + - 1. Lock Type: One inside slide lock.
      2. Lock Type: Two inside slide locks.
      3. Lock Type: Five pin cylinder lock with outside key.
      4. Lock Type: No Lock

\*\* NOTE TO SPECIFIER \*\* Drop door safety device is optional. Available on vertical and high lift track types only. Delete if not required.

* + - 1. Door Drop Safety Device: Brackets to stop door from falling if lift cables fail.
      2. Weatherstripping: Complete perimeter seals.

\*\* NOTE TO SPECIFIER \*\* Delete track size option not required. Select track as required by size and weight of door.

* + - 1. Track Size: 2 inches (51 mm) track for 2 inch (51 mm) diameter rollers.
         1. Vertical Tracks: 0.061 inch (1.55 mm) galvanized steel.
         2. Horizontal Tracks 0.075 inch (1.91 mm) galvanized steel.
      2. Track Size: 3 inches (76 mm) track for 3 inch (76 mm) diameter rollers.
         1. Vertical and Horizontal Tracks: 0.096 inch (2.43 mm) galvanized steel.
      3. Track configuration to maximize headroom available per plans.
      4. Torsion Spring Counterbalance: Mechanism sized to weight of door, with high strength galvanized aircraft cable. 7 to 1 safety factor.

\*\* NOTE TO SPECIFIER \*\* Delete spring options not required.

* + - * 1. Standard Cycle Spring: 10,000 cycles.
        2. High Cycle Spring: 25,000 cycles.
        3. High Cycle Spring: 50,000 cycles.
        4. High Cycle Spring: 100,000 cycles
        5. Maximum cycles in a single shaft line.

\*\* NOTE TO SPECIFIER \*\* Delete break-away bottom section if not required.

* + - 1. Break-Away Bottom Section: Integral part of door. Fiberglass with flexible neoprene rubber side edges. Exterior to match door face.

\*\* NOTE TO SPECIFIER \*\* Delete type not required.

* + - * 1. Single Breakaway Bottom Section: For doors up to 20 ft (6 m) wide.
        2. Double Breakaway Bottom Section: For doors up to 14 ft (4.3 m) wide.

\*\* NOTE TO SPECIFIER \*\* Delete walk-through service door if not required.

* + - 1. Pass Door (Walk-Through Service Door): 32 x 80 inches (813 x 2032 mm) with aluminum frame, geared hinge, and pneumatic door closer; exterior matching door face; integral shiplap weather seal; keyed dead latch security lock.
    1. Clopay Model 3150. Standard duty steel doors with minor ribs, thermally-broken, polystyrene insulated.
       1. Maximum Door Size (WxH): 18 ft 2 inches x 16 ft (5.54 x 4.88 m).
       2. Overall Panel Thickness: 1-3/8 inches (35 mm).
       3. Steel Skin Thickness: Exterior and Interior: 27 gauge, 0.016 inch (0.40 mm)
       4. Steel Reinforcement: Galvanized and primed. Located under each hinge location. Pre-punched for hinge attachment.
       5. End Stiles: Pre-painted steel. 0.034 inch (0.86 mm) thick. Easy hardware attachment through pre-punched holes.
       6. Astragal: U-shaped flexible PVC in full-length retainer of 0.055 inch (1.4 mm) rigid PVC.
       7. Thermal Resistance (R-value) calculated in accordance with DASMA TDS-163: 6.5 deg F hr sq ft/Btu (1.15 (K sq m)/W).
       8. U-Factor: 0.27.
       9. Air Infiltration: 0.41 cfm at 25 mph.

\*\* NOTE TO SPECIFIER \*\* Delete windows and glazing options not required.

* + - 1. Windows: None.
      2. Windows (WxH): 8 x 24 inches (200 x 600 mm). Extruded polypropylene
         1. Glazing: 1/2 inch (12 mm) insulated glass.
         2. Glazing: 1/2 inch (12 mm) insulated tempered glass.
      3. Windows (WxH): 12 x 24 inches (305 x 600 mm). Extruded polypropylene.
         1. Glazing: 1/2 inch (12 mm) insulated glass.
         2. Glazing: 1/2 inch (12 mm) insulated tempered glass.
      4. Windows: Full vision aluminum section, pre-painted to match door finish.
         1. Glazing: 1/8 inch (3 mm) DSB clear float glass.
         2. Glazing: 1/2 inch (13 mm) dual pane insulated glazing.
         3. Glazing: Custom \_\_\_\_\_\_\_\_.
      5. Finish: Stucco embossed texture with 0.040 inch (100 mm) minor ribs 4 or 5 inches (100 or 125 mm) on center. Interior Color: White.

\*\* NOTE TO SPECIFIER \*\* Delete exterior color options not required.

* + - * 1. Exterior Color: White.
        2. Exterior Color: Brown.
        3. Exterior Color: Commercial Tan.
        4. Exterior Color: Gray.
        5. Exterior Color: Charcoal.
        6. Exterior Color: Mocha Brown.
        7. Exterior Color: Glacier White.

\*\* NOTE TO SPECIFIER \*\* Option below is Sherwin Williams Solar reflective Polane paint system.

* + - * 1. Exterior Color Blast.

SW Color Code No: \_\_\_\_\_\_\_.

SW Color Name: \_\_\_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete lock type not required.

* + - 1. Lock Type: One inside slide lock.
      2. Lock Type: Two inside slide locks.
      3. Lock Type: Five pin cylinder lock with outside key.
      4. Lock Type: No Lock

\*\* NOTE TO SPECIFIER \*\* Drop door safety device is optional. Available on vertical and high lift track types only. Delete if not required.

* + - 1. Door Drop Safety Device: Brackets to stop door from falling if lift cables fail.
      2. Weatherstripping: Complete perimeter seals.

\*\* NOTE TO SPECIFIER \*\* Delete track size option not required. Select track as required by size and weight of door.

* + - 1. Track Size: 2 inches (51 mm) track for 2 inch (51 mm) diameter rollers.
         1. Vertical Tracks: 0.061 inch (1.55 mm) galvanized steel.
         2. Horizontal Tracks 0.075 inch (1.91 mm) galvanized steel.
      2. Track Size: 3 inches (76 mm) track for 3 inch (76 mm) diameter rollers.
         1. Vertical and Horizontal Tracks: 0.096 inch (2.43 mm) galvanized steel.
      3. Track configuration to maximize headroom available per plans.
      4. Torsion Spring Counterbalance: Mechanism sized to weight of door, with high strength galvanized aircraft cable. 7 to 1 safety factor.

\*\* NOTE TO SPECIFIER \*\* Delete spring options not required.

* + - * 1. Standard Cycle Spring: 10,000 cycles.
        2. High Cycle Spring: 25,000 cycles.
        3. High Cycle Spring: 50,000 cycles.
        4. High Cycle Spring: 100,000 cycles.
        5. Maximum cycles in a single shaft line.

\*\* NOTE TO SPECIFIER \*\* Delete Article if not required or delete Clopay models not required. Energy Series.

* 1. FLUSH STEEL DOORS, THERMALLY-BROKEN, POLYSTYRENE INSULATED
     1. Clopay Model 3220. Premium duty flush steel doors, thermally-broken, polystyrene insulated.
        1. Maximum Door Size (WxH): 28 ft 2 inches (8.6 m) wide by 24 ft (7.3 m) high.
        2. Overall Panel Thickness: 2 inches (51 mm).
        3. Steel Skin Thickness: Exterior: 20 ga 0.034 inch (0.86 mm). Interior: 27 ga 0.016 inch (0.40 mm).
        4. Steel Reinforcement: Galvanized and primed. Located under each hinge location. Pre-punched for hinge attachment.
        5. End Stiles: Pre-painted steel. 0.049 inch (1.25 mm) thick. Easy hardware attachment through pre-punched holes.
        6. Astragal: U-shaped flexible PVC in full-length retainer of 0.055 inch (1.4 mm) rigid PVC.
        7. Thermal Resistance (R-value) calculated in accordance with DASMA TDS-163: 9.1 deg F hr sq ft/Btu (1.6 (K sq m)/W).
        8. U-Factor: 0.23.
        9. Air Infiltration: 0.34 cfm at 25 mph.

\*\* NOTE TO SPECIFIER \*\* Delete windows and glazing options not required.

* + - 1. Windows: None.
      2. Windows (WxH): 8 x 24 inches (200 x 600 mm). Extruded polypropylene.
         1. Glazing: 1 inch nominal (25 mm) insulated glass.
         2. Glazing: 1 inch nominal (25 mm) insulated tempered glass.
      3. Windows (WxH): 12 x 24 inches (305 x 600 mm). Extruded polypropylene.
         1. Glazing: 1 inch nominal (25 mm) insulated glass.
         2. Glazing: 1 inch nominal (25 mm) insulated tempered glass.
      4. Windows: Full vision aluminum section, pre-painted to match door finish.
         1. Glazing: 1/8 inch (3 mm) DSB clear float glass.
         2. Glazing: 1/4 inch (6 mm) tempered clear float glass.
         3. Glazing: 1/2 inch (13 mm) dual pane insulated glazing.
         4. Glazing: Custom \_\_\_\_\_\_\_\_.
      5. Finish: Stucco embossed texture. Interior Color: White.

\*\* NOTE TO SPECIFIER \*\* Delete exterior color options not required.

* + - * 1. Exterior Color: White.
        2. Exterior Color: Brown.

\*\* NOTE TO SPECIFIER \*\* Option below is Sherwin Williams Solar reflective Polane paint system.

* + - * 1. Exterior Color Blast.

SW Color Code No: \_\_\_\_\_\_\_.

SW Color Name: \_\_\_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete lock type not required.

* + - 1. Lock Type: One inside slide lock.
      2. Lock Type: Two inside slide locks.
      3. Lock Type: Five pin cylinder lock with outside key.
      4. Lock Type: No Lock.

\*\* NOTE TO SPECIFIER \*\* Drop door safety device is optional. Available on vertical and high lift track types only. Delete if not required.

* + - 1. Door Drop Safety Device: Brackets to stop door from falling if lift cables fail.
      2. Weatherstripping: Complete perimeter seals.

\*\* NOTE TO SPECIFIER \*\* Delete track size option not required. Select track as required by size and weight of door.

* + - 1. Track Size: 2 inches (51 mm) track for 2 inch (51 mm) diameter rollers.
         1. Vertical Tracks: 0.061 inch (1.55 mm) galvanized steel.
         2. Horizontal Tracks 0.075 inch (1.91 mm) galvanized steel.
      2. Track Size: 3 inches (76 mm) track for 3 inch (76 mm) diameter rollers.
         1. Vertical and Horizontal Tracks: 0.096 inch (2.43 mm) galvanized steel.
      3. Track configuration to maximize headroom available per plans.
      4. Torsion Spring Counterbalance: Mechanism sized to weight of door, with high strength galvanized aircraft cable. 7 to 1 safety factor.

\*\* NOTE TO SPECIFIER \*\* Delete spring options not required.

* + - * 1. Standard Cycle Spring: 10,000 cycles.
        2. High Cycle Spring: 25,000 cycles.
        3. High Cycle Spring: 50,000 cycles.
        4. High Cycle Spring: 100,000 cycles
        5. Maximum cycles in a single shaft line.

\*\* NOTE TO SPECIFIER \*\* Delete break-away bottom section if not required.

* + - 1. Break-Away Bottom Section: Integral part of door. Fiberglass with flexible neoprene rubber side edges. Exterior to match door face.

\*\* NOTE TO SPECIFIER \*\* Delete type not required.

* + - * 1. Single Breakaway Bottom Section: For doors up to 20 ft (6 m) wide.
        2. Double Breakaway Bottom Section: For doors up to 14 ft (4.3 m) wide.

\*\* NOTE TO SPECIFIER \*\* Delete walk-through service door if not required.

* + - 1. Pass Door (Walk-Through Service Door): 32 x 80 inches (813 x 2032 mm) with aluminum frame, geared hinge, and pneumatic door closer; exterior matching door face; integral shiplap weather seal; keyed dead latch security lock.
    1. Clopay Model 3211. Heavy duty flush woodgrain embossed steel doors, thermally-broken, polystyrene insulated.
       1. Maximum Door Size (WxH): 24 ft, 2 inches x 18 ft (7.4 x 5.5 m) high.
       2. Overall Panel Thickness: 2 inches (51 mm).
       3. Steel Skin Thickness: Exterior: 24 gauge 0.022 inch (0.56 mm). Interior: 27 gauge 0.016 inch (0.40 mm) interior.
       4. Steel Reinforcement: Galvanized and primed. Located under each hinge location. Pre-punched for hinge attachment.
       5. Stiles: Pre-painted steel. 0.049 inch (1.25 mm) thick Easy hardware attachment through pre-punched holes.
       6. Astragal: U-shaped flexible PVC in full-length retainer of 0.055 inch (1.4 mm) rigid PVC.
       7. Thermal Resistance (R-value) calculated in accordance with DASMA TDS-163: 9.1 deg F hr sq ft/Btu (1.6 (K sq m)/W).
       8. U-Factor: 0.23.
       9. Air Infiltration: 0.34 cfm at 25 mph.

\*\* NOTE TO SPECIFIER \*\* Delete windows and glazing options not required.

* + - 1. Windows: None.
      2. PVC Windows (WxH): 12 x 19-1/2 inches (305 x 495 mm):
         1. Glazing: 1/8 inch (3 mm) DSB sheet glass.
         2. Glazing: 1/8 inch (3 mm) acrylic sheet.
         3. Glazing: 1/2 inch (12 mm) insulated glass glazing.
      3. Finish: Flush exterior design with wood grain embossment. Interior Color: White.
         1. Exterior White.
         2. Exterior Brown.
         3. Exterior Almond.
         4. Exterior Desert Tan.
         5. Exterior Sandtone.
         6. Exterior Trinar White.
         7. Exterior Trinar Beige.
         8. Exterior Black

\*\* NOTE TO SPECIFIER \*\* Option below is Sherwin Williams Solar reflective Polane paint system.

* + - * 1. Exterior Color Blast.

SW Color Code No: \_\_\_\_\_\_\_.

SW Color Name: \_\_\_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete lock type not required.

* + - 1. Lock Type: One inside slide lock.
      2. Lock Type: Two inside slide locks.
      3. Lock Type: Five pin cylinder lock with outside key.
      4. Lock Type: No Lock

\*\* NOTE TO SPECIFIER \*\* Drop door safety device is optional. Available on vertical and high lift track types only. Delete if not required.

* + - 1. Door Drop Safety Device: Brackets to stop door from falling if lift cables fail.
      2. Weatherstripping: Complete perimeter seals.

\*\* NOTE TO SPECIFIER \*\* Delete track size option not required. Select track as required by size and weight of door.

* + - 1. Track Size: 2 inches (51 mm) track for 2 inch (51 mm) diameter rollers.
         1. Vertical Tracks: 0.061 inch (1.55 mm) galvanized steel.
         2. Horizontal Tracks 0.075 inch (1.91 mm) galvanized steel.
      2. Track Size: 3 inches (76 mm) track for 3 inch (76 mm) diameter rollers.
         1. Vertical and Horizontal Tracks: 0.096 inch (2.43 mm) galvanized steel.
      3. Track configuration to maximize headroom available per plans.
      4. Torsion Spring Counterbalance: Mechanism sized to weight of door, with high strength galvanized aircraft cable. 7 to 1 safety factor.

\*\* NOTE TO SPECIFIER \*\* Delete spring options not required.

* + - * 1. Standard Cycle Spring: 10,000 cycles.
        2. High Cycle Spring: 25,000 cycles.
        3. High Cycle Spring: 50,000 cycles.
        4. High Cycle Spring: 100,000 cycles
        5. Maximum cycles in a single shaft line.
    1. Clopay Model 3155. Standard duty flush woodgrain embossed steel doors, thermally-broken, polystyrene insulated.
       1. Maximum Door Size (WxH): 18 ft 2 inches x 16 ft (5.54 x 4.88 m).
       2. Overall Panel Thickness: 1-3/8 inches (35 mm).
       3. Steel Skin Thickness: Exterior and Interior: 27 gauge, 0.016 inch (0.40 mm)
       4. Steel Reinforcement: Galvanized and primed. Located under each hinge location. Pre-punched for hinge attachment.
       5. End Stiles: Pre-painted steel. 0.034 inch (0.86 mm) thick. Easy hardware attachment through pre-punched holes.
       6. Astragal: U-shaped flexible PVC in full-length retainer of 0.055 inch (1.4 mm) rigid PVC.
       7. Thermal Resistance (R-value) calculated in accordance with DASMA TDS-163: 6.5 deg F hr sq ft/Btu (1.15 (K sq m)/W).
       8. U-Factor: 0.27.
       9. Air Infiltration: 0.41 cfm at 25 mph.

\*\* NOTE TO SPECIFIER \*\* Delete windows and glazing options not required.

* + - 1. Windows: None.
      2. PVC Windows (WxH): 12 x 19-1/2 inches (305 x 495 mm):
         1. Glazing: 1/8 inch (3 mm) DSB sheet glass.
         2. Glazing: 1/8 inch (3 mm) acrylic sheet.
         3. Glazing: 1/2 inch (12 mm) insulated glass glazing.
      3. Finish: Wood grained embossed texture with flush panel. Interior Color: White.

\*\* NOTE TO SPECIFIER \*\* Delete exterior options not required.

* + - * 1. Exterior White.
        2. Exterior Brown.
        3. Exterior Almond.
        4. Exterior Sandtone.
        5. Exterior Bronze.
        6. Exterior Gray.
        7. Exterior Hunter Green
        8. Exterior Desert Tan

\*\* NOTE TO SPECIFIER \*\* Option below is Sherwin Williams Solar reflective Polane paint system.

* + - * 1. Exterior Color Blast.

SW Color Code No: \_\_\_\_\_\_\_.

SW Color Name: \_\_\_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete lock type not required.

* + - 1. Lock Type: One inside slide lock.
      2. Lock Type: Two inside slide locks.
      3. Lock Type: Five pin cylinder lock with outside key.
      4. Lock Type: No Lock

\*\* NOTE TO SPECIFIER \*\* Drop door safety device is optional. Available on vertical and high lift track types only. Delete if not required.

* + - 1. Door Drop Safety Device: Brackets to stop door from falling if lift cables fail.
      2. Weatherstripping: Complete perimeter seals.

\*\* NOTE TO SPECIFIER \*\* Delete track size option not required. Select track as required by size and weight of door.

* + - 1. Track Size: 2 inches (51 mm) track for 2 inch (51 mm) diameter rollers.
         1. Vertical Tracks: 0.061 inch (1.55 mm) galvanized steel.
         2. Horizontal Tracks 0.075 inch (1.91 mm) galvanized steel.
      2. Track Size: 3 inches (76 mm) track for 3 inch (76 mm) diameter rollers.
         1. Vertical and Horizontal Tracks: 0.096 inch (2.43 mm) galvanized steel.
      3. Track configuration to maximize headroom available per plans.
      4. Torsion Spring Counterbalance: Mechanism sized to weight of door, with high strength galvanized aircraft cable. 7 to 1 safety factor.

\*\* NOTE TO SPECIFIER \*\* Delete spring options not required.

* + - * 1. Standard Cycle Spring: 10,000 cycles.
        2. High Cycle Spring: 25,000 cycles.
        3. High Cycle Spring: 50,000 cycles.
        4. High Cycle Spring: 100,000 cycles
        5. Maximum cycles in a single shaft line.

\*\* NOTE TO SPECIFIER \*\* Delete article if not required or delete the Clopay model not required. Energy Series with Intellicore.

* 1. RAISED PANEL STEEL DOORS, THERMALLY-BROKEN, POLYSTYRENE INSULATED
     1. Clopay Model 3213. Heavy duty raised panel wood grain embossed steel doors, thermally-broken, polystyrene insulated.
        1. Maximum Door Size (WxH): 24 ft, 2 inches s 18 ft (7.4 x 5.5 m).
        2. Steel Skin Thickness: Exterior: 24 gauge 0.022 inch (0.56 mm). Interior: 27 gauge 0.016 inch (0.40 mm) interior.
        3. Steel Reinforcement: Galvanized and primed. Located under each hinge location. Pre-punched for hinge attachment.
        4. End Stiles: Pre-painted steel. 0.049 inch (1.25 mm) thick. Easy hardware attachment through pre-punched holes.
        5. Astragal: U-shaped flexible PVC in full-length retainer of 0.055 inch (1.4 mm) rigid PVC.
        6. Thermal Resistance (R-value) calculated in accordance with DASMA TDS-163: 9.1 deg F hr sq ft/Btu (1.6 (K sq m)/W).
        7. U-Factor: 0.23.
        8. Air Infiltration: 0.34 cfm at 25 mph.

\*\* NOTE TO SPECIFIER \*\* Delete windows and glazing options not required.

* + - 1. Windows: None.
      2. PVC Windows (WxH): 12 x 19-1/2 inches (305 x 495 mm):
         1. Glazing: 1/8 inch (3 mm) DSB sheet glass.
         2. Glazing: 1/8 inch (3 mm) acrylic sheet.
         3. Glazing: 1/2 inch (12 mm) insulated glass glazing.
      3. Finish: Raised panel exterior design. Interior Color: White.

\*\* NOTE TO SPECIFIER \*\* Delete exterior colors not required.

* + - * 1. Exterior Color: White.
        2. Exterior Color: Brown.
        3. Exterior Color: Almond.
        4. Exterior Color: Desert Tan.
        5. Exterior Color: Sandtone.
        6. Exterior Color: Trinar White.
        7. Exterior Color: Trinar Beige.
        8. Exterior Color: Black.

\*\* NOTE TO SPECIFIER \*\* Option below is Sherwin Williams Solar reflective Polane paint system.

* + - * 1. Exterior Color Blast.

SW Color Code No: \_\_\_\_\_\_\_.

SW Color Name: \_\_\_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete lock type not required.

* + - 1. Lock Type: One inside slide lock.
      2. Lock Type: Two inside slide locks.
      3. Lock Type: Five pin cylinder lock with outside key.
      4. Lock Type: No Lock

\*\* NOTE TO SPECIFIER \*\* Drop door safety device is optional. Available on vertical and high lift track types only. Delete if not required.

* + - 1. Door Drop Safety Device: Brackets to stop door from falling if lift cables fail.
      2. Weatherstripping: Complete perimeter seals.

\*\* NOTE TO SPECIFIER \*\* Delete track size option not required. Select track as required by size and weight of door.

* + - 1. Track Size: 2 inches (51 mm) track for 2 inch (51 mm) diameter rollers.
         1. Vertical Tracks: 0.061 inch (1.55 mm) galvanized steel.
         2. Horizontal Tracks 0.075 inch (1.91 mm) galvanized steel.
      2. Track Size: 3 inches (76 mm) track for 3 inch (76 mm) diameter rollers.
         1. Vertical and Horizontal Tracks: 0.096 inch (2.43 mm) galvanized steel.
      3. Track configuration to maximize headroom available per plans.
      4. Torsion Spring Counterbalance: Mechanism sized to weight of door, with high strength galvanized aircraft cable. 7 to 1 safety factor.

\*\* NOTE TO SPECIFIER \*\* Delete spring options not required.

* + - * 1. Standard Cycle Spring: 10,000 cycles.
        2. High Cycle Spring: 25,000 cycles.
        3. High Cycle Spring: 50,000 cycles.
        4. High Cycle Spring: 100,000 cycles
        5. Maximum cycles in a single shaft line.
    1. Clopay Model 3154. Standard duty raised panel woodgrain embossed steel doors, thermally-broken, polystyrene insulated.
       1. Maximum Door Size (WxH): 18 ft 2 inches x 16 ft (5.54 x 4.88 m).
       2. Overall Panel Thickness: 1-3/8 inches (35 mm).
       3. Steel Skin Thickness: Exterior and Interior: 27 gauge, 0.016 inch (0.40 mm)
       4. Steel Reinforcement: Galvanized and primed. Located under each hinge location. Pre-punched for hinge attachment.
       5. End Stiles: Pre-painted steel. 0.034 inch (0.86 mm) thick. Easy hardware attachment through pre-punched holes.
       6. Astragal: U-shaped flexible PVC in full-length retainer of 0.055 inch (1.4 mm) rigid PVC.
       7. Thermal Resistance (R-value) calculated in accordance with DASMA TDS-163: 6.5 deg F hr sq ft/Btu (1.15 (K sq m)/W).
       8. U-Factor: 0.27.
       9. Air Infiltration: 0.41 cfm at 25 mph.

\*\* NOTE TO SPECIFIER \*\* Delete windows and glazing options not required.

* + - 1. Windows: None.
      2. PVC Windows (WxH): 12 x 19-1/2 inches (305 x 495 mm):
         1. Glazing: 1/8 inch (3 mm) DSB sheet glass.
         2. Glazing: 1/8 inch (3 mm) acrylic sheet.
         3. Glazing: 1/2 inch (12 mm) insulated glass glazing.
      3. Finish: Wood grain embossed texture with 0.040 inch (100 mm) elegant, raised panel.

\*\* NOTE TO SPECIFIER \*\* Delete exterior colors not required.

* + - * 1. Exterior Color: White.
        2. Exterior Color: Brown.
        3. Exterior Color: Almond.
        4. Exterior Color: Sandtone.
        5. Exterior Color: Bronze.
        6. Exterior Color: Gray.
        7. Exterior Color: Desert Tan
        8. Exterior Color: Hunter Green

\*\* NOTE TO SPECIFIER \*\* Option below is Sherwin Williams Solar reflective Polane paint system.

* + - * 1. Exterior Color Blast.

SW Color Code No: \_\_\_\_\_\_\_.

SW Color Name: \_\_\_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete lock type not required.

* + - 1. Lock Type: One inside slide lock.
      2. Lock Type: Two inside slide locks.
      3. Lock Type: Five pin cylinder lock with outside key.
      4. Lock Type: No Lock

\*\* NOTE TO SPECIFIER \*\* Drop door safety device is optional. Available on vertical and high lift track types only. Delete if not required.

* + - 1. Door Drop Safety Device: Brackets to stop door from falling if lift cables fail.
      2. Weatherstripping: Complete perimeter seals.

\*\* NOTE TO SPECIFIER \*\* Delete track size option not required. Select track as required by size and weight of door.

* + - 1. Track Size: 2 inches (51 mm) track for 2 inch (51 mm) diameter rollers.
         1. Vertical Tracks: 0.061 inch (1.55 mm) galvanized steel.
         2. Horizontal Tracks 0.075 inch (1.91 mm) galvanized steel.
      2. Track Size: 3 inches (76 mm) track for 3 inch (76 mm) diameter rollers.
         1. Vertical and Horizontal Tracks: 0.096 inch (2.43 mm) galvanized steel.
      3. Track configuration to maximize headroom available per plans.
      4. Torsion Spring Counterbalance: Mechanism sized to weight of door, with high strength galvanized aircraft cable. 7 to 1 safety factor.

\*\* NOTE TO SPECIFIER \*\* Delete spring options not required.

* + - * 1. Standard Cycle Spring: 10,000 cycles.
        2. High Cycle Spring: 25,000 cycles.
        3. High Cycle Spring: 50,000 cycles.
        4. High Cycle Spring: 100,000 cycles
        5. Maximum cycles in a single shaft line.

\*\* NOTE TO SPECIFIER \*\* Delete article if not required or delete Clopay models not required.

* 1. DEEP RIBBED STEEL DOORS, POLYSTYRENE INSULATED
     1. Clopay Model 520S. Premium Duty Deep ribbed steel polystyrene insulated doors.
        1. Maximum Door Size (WxH): 32 ft, 2 inches x 24 ft (9.8 x 7.3 m).
        2. Interior Backer Cover: Pre-painted 30 gauge steel.
        3. Exterior Steel Skin Thickness: 20 ga 0.034 inch (0.86 mm).
        4. End Stiles: Galvanized, primed, and polyester top-coated turn-down steel. Easy hardware attachment through pre-punched holes.
        5. Astragal: U-shaped flexible PVC in full-length retainer of 0.055 inch (1.4 mm) rigid PVC.
        6. Insulation: 1-3/8 inches thick (35 mm) polystyrene insulation
        7. Thermal resistance (R-value) calculated in accordance with DASMA TDS-163: 6.6 hr sq ft deg F/BTU (1.2 K sq m/W).

\*\* NOTE TO SPECIFIER \*\* Delete windows and glazing options not required.

* + - 1. Windows: None.
      2. Windows (WxH): 24 x 6 inches (150 x 610 mm). Polypropylene frame to match door color.
         1. Glazing: 1/2 inch (13 mm) dual pane insulated glazing.
         2. Glazing: 1/2 inch (13 mm) dual pane insulated tempered glazing.
      3. Windows (WxH): 24 x 12 inches (610 x 300 mm). Polypropylene frame to match door color.
         1. Glazing: 1/2 inch (13 mm) dual pane insulated glazing.
         2. Glazing: 1/2 inch (13 mm) dual pane insulated tempered glazing.
      4. Windows: Full-view sections, pre-painted to match door finish.
         1. Glazing: 1/8 inch (3 mm) DSB clear float glass
         2. Glazing: 1/4 inch (6 mm) tempered clear float glass
         3. Glazing: 1/2 inch (13 mm) dual pane insulated glazing.
         4. Glazing: Custom \_\_\_\_\_\_\_\_.
      5. Finish: Exterior: 1 mil (.025 mm) coating. Interior: 0.5 mil (0.013 mm) coating.

\*\* NOTE TO SPECIFIER \*\* Delete exterior color not required.

* + - * 1. Exterior Color: White.
        2. Exterior Color: Brown.

\*\* NOTE TO SPECIFIER \*\* Option below is Sherwin Williams Solar reflective Polane paint system.

* + - * 1. Exterior Color Blast.

SW Color Code No: \_\_\_\_\_\_\_.

SW Color Name: \_\_\_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete lock type not required.

* + - 1. Lock Type: One inside slide lock.
      2. Lock Type: Two inside slide locks.
      3. Lock Type: Five pin cylinder lock with outside key.
      4. Lock Type: No Lock

\*\* NOTE TO SPECIFIER \*\* Drop door safety device is optional. Available on vertical and high lift track types only. Delete if not required.

* + - 1. Door Drop Safety Device: Brackets to stop door from falling if lift cables fail.
      2. Weatherstripping: Complete perimeter seals.

\*\* NOTE TO SPECIFIER \*\* Delete track size option not required. Select track as required by size and weight of door.

* + - 1. Track Size: 2 inches (51 mm) track for 2 inch (51 mm) diameter rollers.
         1. Vertical Tracks: 0.061 inch (1.55 mm) galvanized steel.
         2. Horizontal Tracks 0.075 inch (1.91 mm) galvanized steel.
      2. Track Size: 3 inches (76 mm) track for 3 inch (76 mm) diameter rollers.
         1. Vertical and Horizontal Tracks: 0.096 inch (2.43 mm) galvanized steel.
      3. Track configuration to maximize headroom available per plans.
      4. Torsion Spring Counterbalance: Mechanism sized to weight of door, with high strength galvanized aircraft cable. 7 to 1 safety factor.

\*\* NOTE TO SPECIFIER \*\* Delete spring options not required.

* + - * 1. Standard Cycle Spring: 10,000 cycles.
        2. High Cycle Spring: 25,000 cycles.
        3. High Cycle Spring: 50,000 cycles.
        4. High Cycle Spring: 100,000 cycles
        5. Maximum cycles in a single shaft line.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + 1. Clopay Model 524S. Heavy Duty Deep ribbed steel polystyrene insulated doors.
       1. Interior Backer Cover: Pre-painted 30 gauge steel.
       2. Maximum Door Size (WxH): 26 ft, 2 inches x 24 ft (7.97 x 7.31 m).
       3. Exterior Steel Skin Thickness: 24 ga 0.022 inch (0.56 mm).
       4. End Stiles: Galvanized, primed, and polyester top-coated turn-down steel. Easy hardware attachment through pre-punched holes.
       5. Astragal: U-shaped flexible PVC in full-length retainer of 0.055 inch (1.4 mm) rigid PVC.
       6. Insulation: 1-3/8 inches thick (35 mm) polystyrene insulation
       7. Thermal resistance (R-value) calculated in accordance with DASMA TDS-163: 6.6 hr sq ft deg F/BTU (1.2 K sq m/W).

\*\* NOTE TO SPECIFIER \*\* Delete windows and glazing options not required.

* + - 1. Windows: None.
      2. Windows (WxH): 24 x 6 inches (150 x 610 mm). Polypropylene frame to match door color.
         1. Glazing: 1/2 inch (13 mm) dual pane insulated glazing.
         2. Glazing: 1/2 inch (13 mm) dual pane insulated tempered glazing.
      3. Windows (WxH): 24 x 12 inches (610 x 300 mm). Polypropylene frame to match door color.
         1. Glazing: 1/2 inch (13 mm) dual pane insulated glazing.
         2. Glazing: 1/2 inch (13 mm) dual pane insulated tempered glazing.
      4. Windows: Full-view sections, pre-painted to match door finish.
         1. Glazing: 1/8 inch (3 mm) DSB clear float glass
         2. Glazing: 1/4 inch (6 mm) tempered clear float glass
         3. Glazing: 1/2 inch (13 mm) dual pane insulated glazing.
         4. Glazing: Custom \_\_\_\_\_\_\_\_.
      5. Finish: Exterior: 1 mil (.025 mm) coating. Interior: 0.5 mil (0.013 mm) coating.

\*\* NOTE TO SPECIFIER \*\* Delete colors not required.

* + - * 1. Exterior Color: White.
        2. Exterior Color: Brown.
        3. Exterior Color: Tan.
        4. Exterior Color: Gray.
        5. Exterior Color: Trinar White.
        6. Clopay ColorBlast, a two part paint system utilizing Sherwin Williams Solar reflective Polane Paint system. Sherwin Williams color number SW \_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete lock type not required.

* + - 1. Lock Type: One inside slide lock.
      2. Lock Type: Two inside slide locks.
      3. Lock Type: Five pin cylinder lock with outside key.
      4. Lock Type: No Lock

\*\* NOTE TO SPECIFIER \*\* Drop door safety device is optional. Available on vertical and high lift track types only. Delete if not required.

* + - 1. Door Drop Safety Device: Brackets to stop door from falling if lift cables fail.
      2. Weatherstripping: Complete perimeter seals.

\*\* NOTE TO SPECIFIER \*\* Delete track size option not required. Select track as required by size and weight of door.

* + - 1. Track Size: 2 inches (51 mm) track for 2 inch (51 mm) diameter rollers.
         1. Vertical Tracks: 0.061 inch (1.55 mm) galvanized steel.
         2. Horizontal Tracks 0.075 inch (1.91 mm) galvanized steel.
      2. Track Size: 3 inches (76 mm) track for 3 inch (76 mm) diameter rollers.
         1. Vertical and Horizontal Tracks: 0.096 inch (2.43 mm) galvanized steel.
      3. Track configuration to maximize headroom available per plans.
      4. Torsion Spring Counterbalance: Mechanism sized to weight of door, with high strength galvanized aircraft cable. 7 to 1 safety factor.

\*\* NOTE TO SPECIFIER \*\* Delete spring options not required.

* + - * 1. Standard Cycle Spring: 10,000 cycles.
        2. High Cycle Spring: 25,000 cycles.
        3. High Cycle Spring: 50,000 cycles.
        4. High Cycle Spring: 100,000 cycles
        5. Maximum cycles in a single shaft line.
    1. Clopay Model 524V. Heavy duty deep ribbed steel polystyrene insulated doors.
       1. Panel Sections: 2 inches (52 mm) thick roll formed commercial quality steel panel sections; hot-dip galvanized with interior polyethylene vinyl back cover.
       2. Exterior Steel Skin Thickness: Minimum 24 ga 0.022 inch (0.56 mm).
       3. Maximum Door Size (WxH): 26 ft, 2 inches x 24 ft (7.97 x 7.31 m).
       4. End Stiles: Galvanized, primed, and polyester top-coated turn-down steel. Easy hardware attachment through pre-punched holes.
       5. Astragal: U-shaped flexible PVC in full-length retainer of 0.055 inch (1.4 mm) rigid PVC.
       6. Insulation: 1-3/8 inches thick (35 mm) polystyrene
       7. Thermal Resistance (R-value): 6.6 hr sq ft deg F/BTU (1.2 K sq m/W).

\*\* NOTE TO SPECIFIER \*\* Delete windows and glazing options not required.

* + - 1. Windows: None.
      2. Windows (WxH): 24 x 6 inches (150 x 610 mm). Polypropylene frame to match door color.
         1. Glazing: 1/2 inch (13 mm) dual pane insulated glazing.
         2. Glazing: 1/2 inch (13 mm) dual pane insulated tempered glazing.
      3. Windows (WxH): 24 x 12 inches (610 x 300 mm). Polypropylene frame to match door color.
         1. Glazing: 1/2 inch (13 mm) dual pane insulated glazing.
         2. Glazing: 1/2 inch (13 mm) dual pane insulated tempered glazing.
      4. Windows: Full-view sections, pre-painted to match door finish.
         1. Glazing: 1/8 inch (3 mm) DSB clear float glass
         2. Glazing: 1/4 inch (6 mm) tempered clear float glass
         3. Glazing: 1/2 inch (13 mm) dual pane insulated glazing.
         4. Glazing: Custom \_\_\_\_\_\_\_\_.
      5. Finish: Exterior: 1 mil (.025 mm) coating. Interior: 0.5 mil (0.013 mm) coating.

\*\* NOTE TO SPECIFIER \*\* Delete exterior colors not required.

* + - * 1. Exterior Color: White.
        2. Exterior Color: Brown.
        3. Exterior Color: Tan
        4. Exterior Color: Gray
        5. Exterior Color: Trinar White.

\*\* NOTE TO SPECIFIER \*\* Option below is Sherwin Williams Solar reflective Polane paint system.

* + - * 1. Exterior Color Blast.

SW Color Code No: \_\_\_\_\_\_\_.

SW Color Name: \_\_\_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete lock type not required.

* + - 1. Lock Type: One inside slide lock.
      2. Lock Type: Two inside slide locks.
      3. Lock Type: Five pin cylinder lock with outside key.
      4. Lock Type: No lock.

\*\* NOTE TO SPECIFIER \*\* Drop door safety device is optional. Available on vertical and high lift track types only. Delete if not required.

* + - 1. Door Drop Safety Device: Brackets to stop door from falling if lift cables fail.
      2. Weatherstripping: Complete perimeter seals.

\*\* NOTE TO SPECIFIER \*\* Delete track size option not required. Select track as required by size and weight of door.

* + - 1. Track Size: 2 inches (51 mm) track for 2 inch (51 mm) diameter rollers.
         1. Vertical Tracks: 0.061 inch (1.55 mm) galvanized steel.
         2. Horizontal Tracks 0.075 inch (1.91 mm) galvanized steel.
      2. Track Size: 3 inches (76 mm) track for 3 inch (76 mm) diameter rollers.
         1. Vertical and Horizontal Tracks: 0.096 inch (2.43 mm) galvanized steel.
      3. Track configuration to maximize headroom available per plans.
      4. Torsion Spring Counterbalance: Mechanism sized to weight of door, with high strength galvanized aircraft cable. 7 to 1 safety factor.

\*\* NOTE TO SPECIFIER \*\* Delete spring options not required.

* + - * 1. Standard Cycle Spring: 10,000 cycles.
        2. High Cycle Spring: 25,000 cycles.
        3. High Cycle Spring: 50,000 cycles.
        4. High Cycle Spring: 100,000 cycles
        5. Maximum cycles in a single shaft line.
    1. Clopay Model 525S. Heavy duty deep ribbed steel polystyrene insulated doors.
       1. Maximum Door Size (WxH): 20 ft 2 inches x 18 ft (6.15 x 5.5 m).
       2. Interior Backer Cover: Pre-painted 30 gauge steel.
       3. Exterior Steel Skin Thickness: 25 ga 0.019 inch (0.48 mm).
       4. End Stiles: Galvanized, primed, and polyester top-coated turn-down steel. Easy hardware attachment through pre-punched holes.
       5. Insulation: 1-3/8 inches thick (35 mm) polystyrene insulation
       6. Astragal: U-shaped flexible PVC in full-length retainer of 0.055 inch (1.4 mm) rigid PVC.
       7. Thermal resistance (R-value): 6.6 hr sq ft deg F/BTU (1.2 K sq m/W).

\*\* NOTE TO SPECIFIER \*\* Delete windows and glazing options not required.

* + - 1. Windows: None.
      2. Windows (WxH): 24 x 6 inches (150 x 610 mm). Polypropylene frame to match door color.
         1. Glazing: 1/2 inch (13 mm) dual pane insulated glazing.
         2. Glazing: 1/2 inch (13 mm) dual pane insulated tempered glazing.
      3. Windows (WxH): 24 x 12 inches (610 x 300 mm). Polypropylene frame to match door color.
         1. Glazing: 1/2 inch (13 mm) dual pane insulated glazing.
         2. Glazing: 1/2 inch (13 mm) dual pane insulated tempered glazing.
      4. Windows: Full-view sections, pre-painted to match door finish.
         1. Glazing: 1/8 inch (3 mm) DSB clear float glass
         2. Glazing: 1/4 inch (6 mm) tempered clear float glass
         3. Glazing: Custom \_\_\_\_\_\_\_\_.
      5. Finish: Exterior: 1 mil (0.025 mm) coating. Interior: 0.5 mil (0.013 mm) coating.

\*\* NOTE TO SPECIFIER \*\* Delete exterior color not required.

* + - * 1. Exterior Color: White.
        2. Exterior Color: Brown.

\*\* NOTE TO SPECIFIER \*\* Option below is Sherwin Williams Solar reflective Polane paint system.

* + - * 1. Exterior Color Blast.

SW Color Code No: \_\_\_\_\_\_\_.

SW Color Name: \_\_\_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete lock type not required.

* + - 1. Lock Type: One inside slide lock.
      2. Lock Type: Two inside slide locks.
      3. Lock Type: Five pin cylinder lock with outside key.
      4. Lock Type: No Lock

\*\* NOTE TO SPECIFIER \*\* Drop door safety device is optional. Available on vertical and high lift track types only. Delete if not required.

* + - 1. Door Drop Safety Device: Brackets to stop door from falling if lift cables fail.
      2. Weatherstripping: Complete perimeter seals.

\*\* NOTE TO SPECIFIER \*\* Delete track size option not required. Select track as required by size and weight of door.

* + - 1. Track Size: 2 inches (51 mm) track for 2 inch (51 mm) diameter rollers.
         1. Vertical Tracks: 0.061 inch (1.55 mm) galvanized steel.
         2. Horizontal Tracks 0.075 inch (1.91 mm) galvanized steel.
      2. Track Size: 3 inches (76 mm) track for 3 inch (76 mm) diameter rollers.
         1. Vertical and Horizontal Tracks: 0.096 inch (2.43 mm) galvanized steel.
      3. Track configuration to maximize headroom available per plans.
      4. Torsion Spring Counterbalance: Mechanism sized to weight of door. Helically wound, oil tempered spring on steel shaft. Cable drum of die cast aluminum with high strength galvanized aircraft cable. 7 to 1 safety factor.

\*\* NOTE TO SPECIFIER \*\* Delete spring options not required.

* + - * 1. Standard Cycle Spring: 10,000 cycles.
        2. High Cycle Spring: 25,000 cycles.
        3. High Cycle Spring: 50,000 cycles.
        4. High Cycle Spring: 100,000 cycles
        5. Maximum cycles in a single shaft line.
    1. Clopay Model 525V. Heavy duty deep ribbed steel polystyrene insulated doors.
       1. Panel Sections: 2 inches (52 mm) thick roll formed commercial quality steel panel sections; hot-dip galvanized with interior polyethylene vinyl back cover.
       2. Maximum Door Size (WxH): 20 ft 2 inches x 18 ft (6.15 x 5.5 m).
       3. End Stiles: Galvanized, primed, and polyester top-coated turn-down steel. Easy hardware attachment through pre-punched holes.
       4. Astragal: U-shaped flexible PVC in full-length retainer of 0.055 inch (1.4 mm) rigid PVC.
       5. Exterior Steel Skin Thickness: 25 ga 0.019 inch (0.48 mm).
       6. Insulation: 1-3/8 inches thick (35 mm) polystyrene insulation
       7. Thermal Resistance (R-value): 6.6 hr sq ft deg F/BTU (1.2 K sq m/W).

\*\* NOTE TO SPECIFIER \*\* Delete windows and glazing options not required.

* + - 1. Windows: None.
      2. Windows (WxH): 24 x 6 inches (150 x 610 mm). Polypropylene frame to match door color.
         1. Glazing: 1/2 inch (13 mm) dual pane insulated glazing.
         2. Glazing: 1/2 inch (13 mm) dual pane insulated tempered glazing.
      3. Windows (WxH): 24 x 12 inches (610 x 300 mm). Polypropylene frame to match door color.
         1. Glazing: 1/2 inch (13 mm) dual pane insulated glazing.
         2. Glazing: 1/2 inch (13 mm) dual pane insulated tempered glazing.
      4. Windows: Full-view sections, pre-painted to match door finish.
         1. Glazing: 1/8 inch (3 mm) DSB clear float glass
         2. Glazing: 1/4 inch (6 mm) tempered clear float glass
         3. Glazing: Custom \_\_\_\_\_\_\_\_.
      5. Finish: Exterior: 1 mil (.025 mm) coating. Interior: 0.5 mil (0.013 mm) coating.

\*\* NOTE TO SPECIFIER \*\* Delete exterior color not required.

* + - * 1. Exterior Color: White.
        2. Exterior Color: Brown.

\*\* NOTE TO SPECIFIER \*\* Option below is Sherwin Williams Solar reflective Polane paint system.

* + - * 1. Exterior Color Blast.

SW Color Code No: \_\_\_\_\_\_\_.

SW Color Name: \_\_\_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* NOTE TO SPECIFIER \*\* Delete lock type not required.

* + - 1. Lock Type: One inside slide lock.
      2. Lock Type: Two inside slide locks.
      3. Lock Type: Five pin cylinder lock with outside key.
      4. Lock Type: No Lock.

\*\* NOTE TO SPECIFIER \*\* Drop door safety device is optional. Available on vertical and high lift track types only. Delete if not required.

* + - 1. Door Drop Safety Device: Brackets to stop door from falling if lift cables fail.
      2. Weatherstripping: Complete perimeter seals.

\*\* NOTE TO SPECIFIER \*\* Delete track size option not required. Select track as required by size and weight of door.

* + - 1. Track Size: 2 inches (51 mm) track for 2 inch (51 mm) diameter rollers.
         1. Vertical Tracks: 0.061 inch (1.55 mm) galvanized steel.
         2. Horizontal Tracks 0.075 inch (1.91 mm) galvanized steel.
      2. Track Size: 3 inches (76 mm) track for 3 inch (76 mm) diameter rollers.
         1. Vertical and Horizontal Tracks: 0.096 inch (2.43 mm) galvanized steel.
      3. Track configuration to maximize headroom available per plans.
      4. Torsion Spring Counterbalance: Mechanism sized to weight of door, with high strength galvanized aircraft cable. 7 to 1 safety factor.

\*\* NOTE TO SPECIFIER \*\* Delete spring options not required.

* + - * 1. Standard Cycle Spring: 10,000 cycles.
        2. High Cycle Spring: 25,000 cycles.
        3. High Cycle Spring: 50,000 cycles.
        4. High Cycle Spring: 100,000 cycles.
        5. Maximum cycles in a single shaft line.

\*\* NOTE TO SPECIFIER \*\* Delete article if not required. Industrial Series.

* 1. FLUSH STEEL DOORS, POLYSTYRENE INSULATED
     1. Clopay Model 522S. Premium duty flush steel polystyrene insulated doors.
        1. Maximum Door Size (WxH): 24 ft, 2 inches x 24 ft (7.37 x 7.32 m).
        2. Interior Backer Cover: Pre-painted 30 gauge steel.
        3. Exterior Steel Skin Thickness: 20 ga 0.034 inch (0.86 mm).
        4. End Stiles: Galvanized, primed, and polyester top-coated turn-down steel. Easy hardware attachment through pre-punched holes.
        5. Astragal: U-shaped flexible PVC in full-length retainer of 0.055 inch (1.4 mm) rigid PVC.
        6. Insulation: 1-3/8 inches thick (35 mm) polystyrene insulation
        7. Thermal resistance (R-value): 6.6 hr sq ft deg F/BTU (1.2 K sq m/W)

\*\* NOTE TO SPECIFIER \*\* Delete windows and glazing options not required.

* + - 1. Windows: None.
      2. Windows (WxH): 24 x 6 inches (150 x 610 mm). Polypropylene frame to match door color.
         1. Glazing: 1/2 inch (13 mm) dual pane insulated glazing.
         2. Glazing: 1/2 inch (13 mm) dual pane insulated tempered glazing.
      3. Windows (WxH): 24 x 12 inches (610 x 300 mm). Polypropylene frame to match door color.
         1. Glazing: 1/2 inch (13 mm) dual pane insulated glazing.
         2. Glazing: 1/2 inch (13 mm) dual pane insulated tempered glazing.
      4. Windows: Full-view sections, pre-painted to match door finish.
         1. Glazing: 1/8 inch (3 mm) DSB clear float glass
         2. Glazing: 1/4 inch (6 mm) tempered clear float glass
         3. Glazing: 1/2 inch (13 mm) dual pane insulated glazing.
         4. Glazing: Custom \_\_\_\_\_\_\_\_.
      5. Finish: Exterior: 1 mil (.025 mm) coating. Interior: 0.5 mil (0.013 mm) coating.

\*\* NOTE TO SPECIFIER \*\* Delete exterior color not required.

* + - * 1. Exterior Color: White.
        2. Exterior Color: Brown.

\*\* NOTE TO SPECIFIER \*\* Delete lock type not required.

* + - 1. Lock Type: Provide one inside slide lock.
      2. Lock Type: Provide two inside slide lock.
      3. Lock Type: Provide five pin cylinder lock with outside key.
      4. Lock Type: No lock

\*\* NOTE TO SPECIFIER \*\* Drop door safety device is optional. Available on vertical and high lift track types only. Delete if not required.

* + - 1. Door Drop Safety Device: Brackets to stop door from falling if lift cables fail.
      2. Weatherstripping: Complete perimeter seals.

\*\* NOTE TO SPECIFIER \*\* Delete track size option not required. Select track as required by size and weight of door.

* + - 1. Track Size: 2 inches (51 mm) track for 2 inch (51 mm) diameter rollers.
         1. Vertical Tracks: 0.061 inch (1.55 mm) galvanized steel.
         2. Horizontal Tracks 0.075 inch (1.91 mm) galvanized steel.
      2. Track Size: 3 inches (76 mm) track for 3 inch (76 mm) diameter rollers.
         1. Vertical and Horizontal Tracks: 0.096 inch (2.43 mm) galvanized steel.
      3. Track configuration to maximize headroom available per plans.
      4. Torsion Spring Counterbalance: Mechanism sized to weight of door, with high strength galvanized aircraft cable. 7 to 1 safety factor.

\*\* NOTE TO SPECIFIER \*\* Delete spring options not required.

* + - * 1. Standard Cycle Spring: 10,000 cycles.
        2. High Cycle Spring: 25,000 cycles.
        3. High Cycle Spring: 50,000 cycles.
        4. High Cycle Spring: 100,000 cycles
        5. Maximum cycles in a single shaft line.

\*\* NOTE TO SPECIFIER \*\* Delete article if not required or delete the Clopay model not required. Industrial Series.

* 1. RAISED PANEL STEEL DOORS, POLYSTYRENE INSULATED
     1. Clopay Model 664V. Heavy duty steel woodgrain embossed raised panel steel door. Polystyrene insulation with vinyl back cover.
        1. Maximum Door Size (WxH): 20 ft x 18 ft (6.10 x 5.49 m).
        2. Overall Panel Thickness: 2 inches (51 mm).
        3. Exterior Skin Thickness: 24 ga 0.022 inch (0.56 mm) exterior.
        4. Interior Skin: Polyethylene vinyl backer. Color: White.
        5. End Stiles: Pre-painted steel.
           1. Up to 16 ft - 2 inches (4.9 m) Wide: 18 ga 0.049 inch (1.25 mm) thick.
           2. Over 16 ft - 2 inches (4.9 m) Wide: Double end stile of one 18 ga 0.049 inch (1.25 mm) plus one 20 ga 0.035 inch (.89 mm) center stile.
        6. Astragal: U-shaped flexible PVC in full-length retainer of 0.055 inch (1.4 mm) rigid PVC.
        7. Thermal Resistance (R-value) calculated in accordance with DASMA TDS-163: 6.3 deg F hr sq ft/Btu (1.1 (K sq m)/W).

\*\* NOTE TO SPECIFIER \*\* Delete windows and glazing options not required.

* + - 1. Windows: None.
      2. PVC Windows (WxH): 12 x 19-1/2 inches (305 x 495 mm):
         1. Glazing: 1/8 inch (3 mm) DSB sheet glass.
         2. Glazing: 1/8 inch (3 mm) acrylic sheet.
         3. Glazing: 1/2 inch (12 mm) insulated glass glazing.
      3. Finish: Raised panel wood grain exterior design, pre-finished exterior with 1 mil, three coat baked-on polyester topcoat over primer on a phosphate coating.

\*\* NOTE TO SPECIFIER \*\* Delete exterior color options not required.

* + - * 1. Exterior Color: White.
        2. Exterior Color: Brown
        3. Exterior Color: Almond.
        4. Exterior Color: Desert Tan.
        5. Exterior Color: Sandtone.

\*\* NOTE TO SPECIFIER \*\* Option below is Sherwin Williams Solar reflective Polane paint system.

* + - * 1. Exterior Color Blast.

SW Color Code No: \_\_\_\_\_\_\_.

SW Color Name: \_\_\_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete lock type not required.

* + - 1. Lock Type: Five pin cylinder lock with outside key.
      2. Lock Type: Inside spring loaded slide bolt lock on end stile that engages slot in track.
      3. Lock Type: No Lock
      4. Door Drop Safety Device: Brackets to stop door from falling if lift cables fail.
      5. Weatherstripping: Complete perimeter seals.
      6. Hinge and Roller Assemblies: Hinges and Brackets: 14 ga 0.070 inch (1.78 mm) galvanized steel. Ten, full-floating ball bearing steel rollers; case hardened steel bearing races. Mounted to fit track taper.

\*\* NOTE TO SPECIFIER \*\* Delete track size option not required. Select track as required by size and weight of door.

* + - 1. Track Size: 2 inches (51 mm) track for 2 inch (51 mm) diameter rollers.
         1. Vertical Tracks: 0.061 inch (1.55 mm) galvanized steel.
         2. Horizontal Tracks 0.075 inch (1.91 mm) galvanized steel.
      2. Track Size: 3 inches (76 mm) track for 3 inch (76 mm) diameter rollers.
         1. Vertical and Horizontal Tracks: 0.096 inch (2.43 mm) galvanized steel.
      3. Track configuration to maximize headroom available per plans.
      4. Torsion Spring Counterbalance: Low stress, helically wound, oil-tempered spring on galvanized steel tube or solid steel shaft. Die cast aluminum. Pre-formed galvanized steel aircraft cable. 7 to 1 safety factor.

\*\* NOTE TO SPECIFIER \*\* Delete spring options not required.

* + - * 1. Standard Cycle Spring: 10,000 cycles.
        2. High Cycle Spring: 25,000 cycles.
        3. High Cycle Spring: 50,000 cycles.
        4. High Cycle Spring: 100,000 cycles
        5. Maximum cycles in a single shaft line.

\*\* NOTE TO SPECIFIER \*\* Retain the following paragraph for the model in this group.

* + 1. Door Construction:
       1. Panels: Steel woodgrain embossed raised panel steel door. Polystyrene insulation with vinyl back cover.
       2. Steel Skin: Roll formed commercial or drawing quality steel sheet, hot-dip galvanized per ASTM A924/A924M and ASTM A653/A653M, pre-painted with primer and baked-on polyester topcoat.
       3. Section Joints: Panel sections form a weather-tight tongue and groove joint.
       4. Steel Reinforcement: Galvanized and primed. Located under each hinge location. Pre-punched for hinge attachment.
       5. Handle: 3 inch (76 mm) horizontal galvanized steel step plate / lift handle located on bottom section.

\*\* NOTE TO SPECIFIER \*\* Delete article if not required or delete Clopay models not required. Industrial Series.

* 1. DEEP RIBBED STEEL DOORS, NON-INSULATED
     1. Clopay Model 520. Premium duty deep ribbed steel doors, non-insulated.
        1. Maximum Door Size (WxH): 32 ft, 2 inches x 24 ft (9.8 x 7.3 m).
        2. Steel Skin Thickness: 20 ga 0.034 inch (0.86 mm).

\*\* NOTE TO SPECIFIER \*\* Delete windows and glazing options not required.

* + - 1. Windows: None.
      2. Windows (WxH): 24 x 6 inches (610 x 150 mm). Polypropylene frame to match door color.
         1. Glazing: 1/8 inch (3 mm) DSB clear float glass.
         2. Glazing: 1/8 inch (3 mm), tempered clear float glass
         3. Glazing: 1/8 inch (3 mm) acrylic glazing.
      3. Windows (WxH): 24 x 12 inches (610 x 300 mm). Polypropylene frame to match door color.
         1. Glazing: 1/8 inch (3 mm) DSB clear float glass.
         2. Glazing: 1/8 inch (3 mm), tempered clear float glass.
         3. Glazing: 1/8 inch (3 mm) acrylic glazing.
      4. Windows: Full-view sections, pre-painted to match door finish.
         1. Glazing: 1/8 inch (3 mm) DSB clear float glass
         2. Glazing: 1/4 inch (6 mm) tempered clear float glass
         3. Glazing: Custom: \_\_\_\_\_\_\_\_\_\_
      5. Finish: Exterior: 1 mil (.025 mm) coating. Interior: 0.5 mil (0.013 mm) coating.

\*\* NOTE TO SPECIFIER \*\* Delete exterior colors not required.

* + - * 1. Exterior Color: White.
        2. Exterior Color: Brown.

\*\* NOTE TO SPECIFIER \*\* Option below is Sherwin Williams Solar reflective Polane paint system.

* + - * 1. Exterior Color Blast.

SW Color Code No: \_\_\_\_\_\_\_.

SW Color Name: \_\_\_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete lock type not required.

* + - 1. Lock Type: One inside slide lock.
      2. Lock Type: Two inside slide locks.
      3. Lock Type: Five pin cylinder lock with outside key.
      4. Lock Type: No Lock

\*\* NOTE TO SPECIFIER \*\* Drop door safety device is optional. Available on vertical and high lift track types only. Delete if not required.

* + - 1. Door Drop Safety Device: Brackets to stop door from falling if lift cables fail.
      2. Weatherstripping: Complete perimeter seals.

\*\* NOTE TO SPECIFIER \*\* Delete track size option not required. Select track as required by size and weight of door.

* + - 1. Track Size: 2 inches (51 mm) track for 2 inch (51 mm) diameter rollers.
         1. Vertical Tracks: 0.061 inch (1.55 mm) galvanized steel.
         2. Horizontal Tracks 0.075 inch (1.91 mm) galvanized steel.
      2. Track Size: 3 inches (76 mm) track for 3 inch (76 mm) diameter rollers.
         1. Vertical and Horizontal Tracks: 0.096 inch (2.43 mm) galvanized steel.
      3. Track configuration to maximize headroom available per plans.
      4. Torsion Spring Counterbalance: Mechanism sized to weight of door, with high strength galvanized aircraft cable. 7 to 1 safety factor.

\*\* NOTE TO SPECIFIER \*\* Delete spring options not required.

* + - * 1. Standard Cycle Spring: 10,000 cycles.
        2. High Cycle Spring: 25,000 cycles.
        3. High Cycle Spring: 50,000 cycles.
        4. High Cycle Spring: 100,000 cycles
        5. Maximum cycles in a single shaft line.
    1. Clopay Model 524. Heavy duty deep ribbed steel doors, non-insulated.
       1. Maximum Door Size (WxH): 26 ft 2 inches x 24 ft (7.97 x 7.31 m).
       2. Steel Skin Thickness: 24 ga 0.022 inch (0.56 mm).

\*\* NOTE TO SPECIFIER \*\* Delete windows and glazing options not required.

* + - 1. Windows: None.
      2. Windows (WxH): 24 x 6 inches (150 x 610 mm). Polypropylene frame to match door color.
         1. Glazing: 1/8 inch (3 mm) DSB clear float glass.
         2. Glazing: 1/8 inch (3 mm), tempered clear float glass
         3. Glazing: 1/8 inch (3 mm) acrylic glazing.
      3. Windows (WxH): 24 x 12 inches (610 x 300 mm). Polypropylene frame to match door color.
         1. Glazing: 1/8 inch (3 mm) DSB clear float glass.
         2. Glazing: 1/8 inch (3 mm), tempered clear float glass.
         3. Glazing: 1/8 inch (3 mm) acrylic glazing.
      4. Windows: Full-view sections, pre-painted to match door finish.
         1. Glazing: 1/8 inch (3 mm) DSB clear float glass
         2. Glazing: 1/4 inch (6 mm) tempered clear float glass
         3. Glazing: Custom: \_\_\_\_\_\_\_\_\_\_
      5. Finish: Exterior: 1 mil (.025 mm) coating. Interior: 0.5 mil (0.013 mm) coating.

\*\* NOTE TO SPECIFIER \*\* Delete exterior colors not required.

* + - * 1. Exterior Color: White.
        2. Exterior Color: Brown.
        3. Exterior Color: Commercial Tan.
        4. Exterior Color: Gray.
        5. Exterior Color: Trinar White.

\*\* NOTE TO SPECIFIER \*\* Option below is Sherwin Williams Solar reflective Polane paint system.

* + - * 1. Exterior Color Blast.

SW Color Code No: \_\_\_\_\_\_\_.

SW Color Name: \_\_\_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete lock type not required.

* + - 1. Lock Type: One inside slide lock.
      2. Lock Type: Two inside slide locks.
      3. Lock Type: Five pin cylinder lock with outside key.
      4. Lock Type: No Lock

\*\* NOTE TO SPECIFIER \*\* Drop door safety device is optional. Available on vertical and high lift track types only. Delete if not required.

* + - 1. Door Drop Safety Device: Brackets to stop door from falling if lift cables fail.
      2. Weatherstripping: Complete perimeter seals.

\*\* NOTE TO SPECIFIER \*\* Delete track size option not required. Select track as required by size and weight of door.

* + - 1. Track Size: 2 inches (51 mm) track for 2 inch (51 mm) diameter rollers.
         1. Vertical Tracks: 0.061 inch (1.55 mm) galvanized steel.
         2. Horizontal Tracks 0.075 inch (1.91 mm) galvanized steel.
      2. Track Size: 3 inches (76 mm) track for 3 inch (76 mm) diameter rollers.
         1. Vertical and Horizontal Tracks: 0.096 inch (2.43 mm) galvanized steel.
      3. Track configuration to maximize headroom available per plans.
      4. Torsion Spring Counterbalance: Mechanism sized to weight of door, with high strength galvanized aircraft cable. 7 to 1 safety factor.

\*\* NOTE TO SPECIFIER \*\* Delete spring options not required.

* + - * 1. Standard Cycle Spring: 10,000 cycles.
        2. High Cycle Spring: 25,000 cycles.
        3. High Cycle Spring: 50,000 cycles.
        4. High Cycle Spring: 100,000 cycles
        5. Maximum cycles in a single shaft line.
    1. Clopay Model 525. Standard duty deep ribbed steel doors, non-insulated.
       1. Maximum Door Size (WxH): 20 ft 2 inches x 18 ft (6.15 x 5.5 m).
       2. Steel Skin Thickness: 25 gauge 0.019 inch (0.48 mm).

\*\* NOTE TO SPECIFIER \*\* Delete windows and glazing options not required.

* + - 1. Windows: None.
      2. Windows (WxH): 24 x 6 inches (610 x 150 mm). Polypropylene frame to match door color.
         1. Glazing: 1/8 inch (3 mm) DSB clear float glass.
         2. Glazing: 1/8 inch (3 mm), tempered clear float glass
         3. Glazing: 1/8 inch (3 mm) acrylic glazing.
      3. Windows (WxH): 24 x 12 inches (300 x 610mm). Polypropylene frame to match door color.
         1. Glazing: 1/8 inch (3 mm) DSB clear float glass.
         2. Glazing: 1/8 inch (3 mm), tempered clear float glass.
         3. Glazing: 1/8 inch (3 mm) acrylic glazing.
      4. Windows: Full-view sections, pre-painted to match door finish.
         1. Glazing: 1/8 inch (3 mm) DSB clear float glass
         2. Glazing: 1/4 inch (6 mm) tempered clear float glass
         3. Glazing: Custom: \_\_\_\_\_\_\_\_\_\_
      5. Finish: Exterior: 1 mil (.025 mm) coating. Interior: 0.5 mil (0.013 mm) coating.

\*\* NOTE TO SPECIFIER \*\* Delete exterior colors not required.

* + - * 1. Exterior Color: White.
        2. Exterior Color: Brown.

\*\* NOTE TO SPECIFIER \*\* Option below is Sherwin Williams Solar reflective Polane paint system.

* + - * 1. Exterior Color Blast.

SW Color Code No: \_\_\_\_\_\_\_.

SW Color Name: \_\_\_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete lock type not required.

* + - 1. Lock Type: One inside slide lock.
      2. Lock Type: Two inside slide locks.
      3. Lock Type: Five pin cylinder lock with outside key.
      4. Lock Type: No Lock

\*\* NOTE TO SPECIFIER \*\* Drop door safety device is optional. Available on vertical and high lift track types only. Delete if not required.

* + - 1. Door Drop Safety Device: Brackets to stop door from falling if lift cables fail.
      2. Weatherstripping: Complete perimeter seals.

\*\* NOTE TO SPECIFIER \*\* Delete track size option not required. Select track as required by size and weight of door.

* + - 1. Track Size: 2 inches (51 mm) track for 2 inch (51 mm) diameter rollers.
         1. Vertical Tracks: 0.061 inch (1.55 mm) galvanized steel.
         2. Horizontal Tracks 0.075 inch (1.91 mm) galvanized steel.
      2. Track Size: 3 inches (76 mm) track for 3 inch (76 mm) diameter rollers.
         1. Vertical and Horizontal Tracks: 0.096 inch (2.43 mm) galvanized steel.
      3. Track configuration to maximize headroom available per plans.
      4. Torsion Spring Counterbalance: Mechanism sized to weight of door, with high strength galvanized aircraft cable. 7 to 1 safety factor.

\*\* NOTE TO SPECIFIER \*\* Delete spring options not required.

* + - * 1. Standard Cycle Spring: 10,000 cycles.
        2. High Cycle Spring: 25,000 cycles.
        3. High Cycle Spring: 50,000 cycles.
        4. High Cycle Spring: 100,000 cycles
        5. Maximum cycles in a single shaft line.

\*\* NOTE TO SPECIFIER \*\* Paragraph applies for all models in this article.

* + 1. Door Construction:
       1. Panel Sections: 2 inch (52 mm) thick.
       2. Steel Skin: Roll formed commercial quality steel sheet, hot-dip galvanized per ASTM A924/A924M and ASTM A653/A653M, phosphatized and pre-painted with primer and baked-on polyester topcoat.
       3. Panel Face Reinforcement: Two, 1/2 inch (13 mm) deep ribs on 8 inches (200 mm) centers, complemented by six, 1/8 inch (3 mm) beads on 2 inch (50 mm) centers.
       4. Section Joints: Panel sections form a weathertight tongue and groove joint Bottom Panel Section: Reinforced with continuous 0.050 inch (1.27 mm) aluminum astragal retainer with U-shaped flexible PVC astragal.
       5. Door End Stiles: Galvanized, primed, and polyester top-coated turn-down steel end stiles. Wrap face of panel sections a full 1-3/8 inches (35 mm).
          1. Engineered for easy hardware attachment through pre-punched holes.
          2. For Door Widths up to 14 ft 2 inches (4.32 m): 0.049 inch (1.25 mm) thick.
          3. For Door Widths greater than 14 ft 2 inches (4.32 m): 0.61 inch (1.55 mm) thick.
       6. Connections: Fasten panel sections and stiles with manufacturer's Tog-L-Loc joining system.

\*\* NOTE TO SPECIFIER \*\* Delete article if not required or delete Clopay model not required. Industrial Series.

* 1. FLUSH STEEL DOORS, NON-INSULATED
     1. Clopay Model 522. Premium Duty Flush steel doors, non-insulated.
        1. Maximum Door Size (WxH): 24 ft, 2 inches x 24 ft (7.37 x 7.32 m).
        2. Steel Skin Thickness: 20 gauge 0.034 inch (0.86 mm).

\*\* NOTE TO SPECIFIER \*\* Delete windows and glazing options not required.

* + - 1. Windows: None.
      2. Windows (WxH): 24 x 6 inches (610 x 150 mm). Polypropylene frame to match door color.
         1. Glazing: 1/8 inch (3 mm) DSB clear float glass.
         2. Glazing: 1/8 inch (3 mm), tempered clear float glass
         3. Glazing: 1/8 inch (3 mm) acrylic glazing.
      3. Windows (WxH): 24 x 12 inches (610 x 300 mm). Polypropylene frame to match door color.
         1. Glazing: 1/8 inch (3 mm) DSB clear float glass.
         2. Glazing: 1/8 inch (3 mm), tempered clear float glass.
         3. Glazing: 1/8 inch (3 mm) acrylic glazing.
      4. Windows: Full-view sections, pre-painted to match door finish.
         1. Glazing: 1/8 inch (3 mm) DSB clear float glass
         2. Glazing: 1/4 inch (6 mm) tempered clear float glass
         3. Glazing: Custom: \_\_\_\_\_\_\_\_\_\_
      5. Finish: Interior: 0.5 mil (0.013 mm) coating. Exterior: 1 mil (.025 mm) coating. Exterior color as follows:

\*\* NOTE TO SPECIFIER \*\* Delete color option not required.

* + - * 1. Color: White.
        2. Color: Brown.

\*\* NOTE TO SPECIFIER \*\* Delete lock type not required.

* + - 1. Lock Type: One inside slide lock.
      2. Lock Type: Two inside slide locks.
      3. Lock Type: Five pin cylinder lock with outside key.
      4. Lock Type: No Lock

\*\* NOTE TO SPECIFIER \*\* Drop door safety device is optional. Available on vertical and high lift track types only. Delete if not required.

* + - 1. Door Drop Safety Device: Brackets to stop door from falling if lift cables fail.
      2. Weatherstripping: Complete perimeter seals.

\*\* NOTE TO SPECIFIER \*\* Delete track size option not required. Select track as required by size and weight of door.

* + - 1. Track Size: 2 inches (51 mm) track for 2 inch (51 mm) diameter rollers.
         1. Vertical Tracks: 0.061 inch (1.55 mm) galvanized steel.
         2. Horizontal Tracks 0.075 inch (1.91 mm) galvanized steel.
      2. Track Size: 3 inches (76 mm) track for 3 inch (76 mm) diameter rollers.
         1. Vertical and Horizontal Tracks: 0.096 inch (2.43 mm) galvanized steel.
      3. Track configuration to maximize headroom available per plans.
      4. Torsion Spring Counterbalance: Mechanism sized to weight of door, with high strength galvanized aircraft cable. 7 to 1 safety factor.

\*\* NOTE TO SPECIFIER \*\* Delete spring options not required.

* + - * 1. Standard Cycle Spring: 10,000 cycles.
        2. High Cycle Spring: 25,000 cycles.
        3. High Cycle Spring: 50,000 cycles.
        4. High Cycle Spring: 100,000 cycles
        5. Maximum cycles in a single shaft line.
    1. Door Construction:
       1. Panel Sections: 2 inch (52 mm) thick.
       2. Steel Skin: Roll formed commercial quality steel sheet, hot-dip galvanized per ASTM A924/A924M and ASTM A653/A653M, phosphatized and pre-painted with primer and baked-on polyester topcoat.
       3. Panel Face Reinforcement: Two, 1/2 inch (13 mm) deep ribs on 8 inches (200 mm) centers, complemented by six, 1/8 inch (3 mm) beads on 2 inch (50 mm) centers.
       4. Section Joints: Panel sections form a weathertight tongue and groove joint Bottom Panel Section: Reinforced with continuous 0.050 inch (1.27 mm) aluminum astragal retainer with U-shaped flexible PVC astragal.
       5. Door End Stiles: Galvanized, primed, and polyester top-coated turn-down steel end stiles. Wrap face of panel sections a full 1-3/8 inches (35 mm).
          1. Engineered for easy hardware attachment through pre-punched holes.
          2. For Door Widths up to 14 ft 2 inches (4.32 m): 0.049 inch (1.25 mm) thick.
          3. For Door Widths greater than 14 ft 2 inches (4.32 m): 0.61 inch (1.55 mm) thick.
       6. Connections: Fasten panel sections and stiles with manufacturer's Tog-L-Loc joining system.

\*\* NOTE TO SPECIFIER \*\* Delete article if not required or delete Clopay model not required. Industrial Series.

* 1. RAISED PANEL STEEL DOORS, NON-INSULATED
     1. Clopay Model 664. Heavy duty raised panel steel doors, non-insulated.
        1. Maximum Door Size (WxH): 20 ft x 18 ft (6.10 x 5.49 m).
        2. Exterior Skin Thickness: 24 gauge 0.022 inch (0.56 mm).
        3. Interior Finish of Exterior Skin: White.
        4. End Stiles: Pre-painted steel.
           1. For Door Widths up to 16 ft 2 inches (4.9 m): 18 ga 0.049 inch (1.25 mm) thick.
           2. For Door Widths over 16 ft 2 inches (4.9 m): Provide double end stiles composed of one 18 ga 0.049 inch (1.25 mm) plus one 20 ga 0.035 inch (0.89 mm) center stile.

\*\* NOTE TO SPECIFIER \*\* Delete windows and glazing options not required.

* + - 1. Windows: None.
      2. PVC Windows (WxH): 12 x 19-1/2 inches (305 x 495 mm):
         1. Glazing: 1/8 inch (3 mm) DSB sheet glass.
         2. Glazing: 1/8 inch (3 mm) clear acrylic sheet.
         3. Glazing: 1/8 inch (3 mm) obscure sheet glass.
      3. Finish: Raised panel wood grain exterior design, pre-finished exterior with 1-mil, three coat baked-on polyester topcoat over primer on a phosphate coating.

\*\* NOTE TO SPECIFIER \*\* Delete exterior color options not required.

* + - * 1. Exterior Color: White.
        2. Exterior Color: Almond.
        3. Exterior Color: Desert Tan.
        4. Exterior Color: Sandtone.
        5. Exterior Color: Brown.

\*\* NOTE TO SPECIFIER \*\* Option below is Sherwin Williams Solar reflective Polane paint system.

* + - * 1. Exterior Color Blast.

SW Color Code No: \_\_\_\_\_\_\_.

SW Color Name: \_\_\_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete lock type not required.

* + - 1. Lock Type: No Lock
      2. Lock Type: Four point cylinder lock with L-handle and a single lock bar.
      3. Door Drop Safety Device: Provide brackets designed to stop the fall of the door should lift cables fail.
      4. Weatherstripping: Complete perimeter seals.
      5. Hinge and Roller Assemblies: Hinges and Brackets: 14 ga 0.070 inch (1.78 mm) galvanized steel. Ten, full-floating ball bearing steel rollers; case hardened steel bearing races. Mounted to fit track taper.

\*\* NOTE TO SPECIFIER \*\* Delete track size option not required. Select track as required by size and weight of door.

* + - 1. Track Size: 2 inches (51 mm) track for 2 inch (51 mm) diameter rollers.
         1. Vertical Tracks: 0.061 inch (1.55 mm) galvanized steel.
         2. Horizontal Tracks 0.075 inch (1.91 mm) galvanized steel.
      2. Track Size: 3 inches (76 mm) track for 3 inch (76 mm) diameter rollers.
         1. Vertical and Horizontal Tracks: 0.096 inch (2.43 mm) galvanized steel.
      3. Track configuration to maximize headroom available per plans.
      4. Torsion Spring Counterbalance: Low stress, helically wound, oil-tempered spring on galvanized steel tube or solid steel shaft. Die cast aluminum. Pre-formed galvanized steel aircraft cable. 7 to 1 safety factor.

\*\* NOTE TO SPECIFIER \*\* Delete spring options not required.

* + - * 1. Standard Cycle Spring: 10,000 cycles.
        2. High Cycle Spring: 25,000 cycles.
        3. High Cycle Spring: 50,000 cycles.
        4. High Cycle Spring: 100,000 cycles
        5. Maximum cycles in a single shaft line.

\*\* NOTE TO SPECIFIER \*\* Retain the following paragraph for the model in this group.

* + 1. Door Construction:
       1. Panels: Steel embossed woodgrain raised panel steel door.
       2. Steel Skin: Formed from roll formed commercial or drawing quality steel sheet, hot-dip galvanized per ASTM A924/A924M and ASTM A653/A 53M, pre-painted with primer and baked-on polyester topcoat.
       3. Section Joint: Sections to form a weather-tight tongue and groove joint.
       4. Steel Reinforcement: Galvanized and primed. Located under each hinge location. Pre-punched for hinge attachment.
       5. Handle: 3 inch (76 mm) horizontal galvanized steel step plate / lift handle located on bottom section.
       6. Delete article if not required.
  1. ELECTRIC DOOR OPERATORS
     1. Electric Door Operator: Comply with NFPA 70. Provided by door manufacturer with operational life specified complete with electric motor and factory pre-wired motor controls, starter, gear-reduction unit, clutch, remote-control stations, control devices, integral gearing for locking door, and accessories required for proper operation.
        1. Design Operator to allow motor to be removed without disturbing limit switch adjustment and without affecting emergency auxiliary operator.

\*\* NOTE TO SPECIFIER \*\*Delete brake option if not required. Standard on openers with 3/4 HP or more.

* + - 1. Solenoid-operated brake.
    1. Disconnect Device: Hand-operated for emergency manual operation while disconnecting motor, without affecting timing of limit switch. Mount disconnect and operator accessible from floor level. Interlock device automatically prevents motor from operating when emergency operator is engaged.
    2. Control Equipment: Comply with NEMA ICS1, NEMA ICS 2, and NEMA ICS 6, with NFPA 70 Class 2 control circuit, maximum 24 V, AC or DC.
    3. Electric Motors: High-starting torque, reversible, continuous-duty, Class A insulated, electric motor, complying with NEMA MG 1, with overload protection, sized to start, accelerate, and operate door in either direction, from any position, at not less than 2/3 fps (0.2 m/s) and not more than 1 fps (.03m/s), without exceeding nameplate ratings or considering service factor.
       1. Reference Electrical Schedules for phase and voltage per location.
       2. Provide horsepower in accordance with manufacturer recommendations per door size and type.
    4. Remote Control Station: Continuous contact, 3-button control station with push - button controls labeled "Open", "Close" and "Stop".
       1. Interior units, fully guarded, surface mounted, heavy-duty type, with general-purpose NEMA ICS 6 enclosure in one of the following types:

\*\* NOTE TO SPECIFIER \*\* Delete all but one of the following enclosure types.

* + - * 1. Enclosure Type: Type 1.
        2. Enclosure Type: Type 4.
        3. Enclosure Type: Type 12.
    1. Obstruction Detection Device: For full width of the door opening. Each motorized door to have external automatic safety sensor. Activation of sensor immediately stops and reverses downward door travel.
       1. Sensor Edge: Automatic safety sensing edge, located within astragal or weather stripping mounted to bottom bar. Contact with sensor immediately stops and reverses downward door travel. Connect to control circuit using manufacturer's standard take-up reel or self-coiling cord.
       2. Sensing Edge Operation:

\*\* NOTE TO SPECIFIER \*\* Delete all but one of the following operation options.

* + - * 1. Electric.
        2. Pneumatic.
        3. Electric fail safe.
        4. Pneumatic fail safe.
        5. Photo-electric control: Provide each motorized door with a photo-electric device that will stop and reverse the downward door travel if the light beam is broken or blocked. Device shall be:

\*\* NOTE TO SPECIFIER \*\* Delete one of the following types.

NEMA Type 1.

NEMA Type 4.

* + 1. Limit Switches: Adjustable switches, interlocked with motor controls and set to automatically stop door at fully opened and fully closed positions.

\*\* NOTE TO SPECIFIER \*\* Delete radio controls option below if not required.

* + 1. Radio Controls: 3 button radio transmitter providing remote open, close, stop functionality. External antenna and coaxial wiring to receiver enhancing radio control reception.

\*\* NOTE TO SPECIFIER \*\* Delete optional safety feature below if not desired. Not commonly used with drawbar type openers.

* + 1. Auxiliary Chain Hoist: For emergency manual operation while disconnecting motor, without affecting timing of limit switch. Disconnect and operator to be accessible from floor level. Interlock Device: Automatically prevents motor from operating when emergency operator is engaged.

1. EXECUTION
   1. EXAMINATION
      1. Examine wall and overhead areas, including opening framing and blocking, with installer present, for compliance with requirements for installation tolerances, clearances, and other conditions affecting performance of Work in this Section.
      2. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.
   2. PREPARATION
      1. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
   3. INSTALLATION
      1. Install overhead doors and track in accordance with approved shop drawings and the manufacturer's printed instructions.
   4. PROTECTION
      1. Protect installed products until completion of project.
      2. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION