**SECTION 08 34 53**

Kontek BR DOOR AND FRAME ASSEMBLY – STEEL

(Specifier Note: The purpose of this guide specification is to assist the Specifier in correctly specifying bullet-resistant steel door assemblies with their installation as security doors.

The Specifier must edit this guide specification to fit the needs of each specific project.

Throughout the guide specification, there are Specifier Notes to assist in the editing of the file. Brackets have been used to indicate when a selection is required. Contact a Kontek representative for further assistance with appropriate product selections.)

PART 1 - GENERAL

1.1 SECTION INCLUDES

Bullet resistant steel door and frame assembly.

1.2 REFERENCES

UL 752 - Standard for Bullet Resisting Equipment

NIJ Standard 0108.01 - Ballistic Resistant Protective Materials

ANSI/SDI A250.8 - Standard for Steel Doors and Frames

1.3 ACTION SUBMITTALS

Refer to Section [Insert section number and title].

Product Data: For each type of assembly including manufacturer recommended installation instructions.

Shop Drawings: Include plans, elevations, sections, details, and attachment to other work.

Samples: For each exposed finish.

1.4 INFORMATION SUBMITTALS

Product Test Reports: Indicating compliance with requirements.

Warranty: Sample of finish warranty.

1.5 CLOSEOUT SUBMITTALS

Punchlist.

Maintenance data.

1.6 DELIVERY, STORAGE AND HANDLING

Deliver materials to the project site with manufacturer’s labels intact and legible. Handle materials with care to prevent damage. Store materials inside and under cover, stacked flat and off the floor. Maintain environmental conditions as recommended by manufacturer. Do not install products stored outside recommended limits.

1.7 WARRANTY

Workmanship Warranty: All materials shall be warranted against defects for a period of [1] year from the date of receipt at the project site. Provide manufacturer’s standard limited warranty with closeout documents.

Finish Warranty: Manufacturer’s warranty against deterioration of finishes for the period of [5] years from the date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURED UNITS

Basis of Design:

Subject to compliance with requirements, provide products by the following:

Kontek Industries, Inc., 805 McCombs Ave, Kannapolis NC 28083

Subject to compliance with requirements, manufacturers of products of equivalent design may be acceptable if approved.

2.2 DESIGN PERFORMANCE

Door and frame assemblies shall be manufactured to defeat ballistic assaults in accordance with UL Standard 752 or NIJ.

Standard door assemblies constructed of materials with a ballistic resistant up to Level 3 (.44 Magnum) or [higher] as specified (e.g., UL 752 Level 5 or NIJ III/IV).

2.3 MATERIALS

Door Leaf:

* Core: Bullet-resistant steel core or composite core compliant with UL 752 or NIJ Level.
* Face Sheets: 16-gauge minimum cold-rolled or hot-rolled steel.
* Reinforcement: Internal reinforcements for hinges, locks, and closers.
* Thickness: Minimum 1.75" or as required for ballistic level.

Frame:

* Material: Minimum 16-gauge steel.
* Type: Welded frame with reinforcement for anchoring and hardware.
* Anchors: Minimum of 6 heavy-duty anchors per frame.

2.4 DOOR HARDWARE

* Hinges: Continuous, concealed or face mounted depending.
  + Standard Option: Select SL11 LL XHD Alum. Gear Hinge or EQ.
* Locking Mechanism: Mortise lock or lever handle with separate deadbolt; electric strike or magnetic lock optional.
  + Standard Options: Lynn Heavy Duty, Designer Commercial Deadbolt or EQ., Lynn Commercial Door Lever Lock or EQ.
* Closer: Automatic Hydraulic Heavy Duty Door closer
  + Standard Option: Lynn Extra Heavy Duty, #9016 Automatic Hydraulic Door Closer or EQ.
* Weather Stripping: Silicone perimeter gasketing and door bottom sweep
  + Standard Options: Pemko 29310 CS Astragal with Concealed Fasteners or EQ., Pemko 3452\_NB Rain Drip Door Sweep or EQ.
* Accessory Options: Exit devices, access control, custom hardware upgrades as selected by Architect.

2.5 VISION LITE (OPTIONAL)

Glazing: Bullet-resistant glass rated to match door ballistic level.

Glazing Type: Polycarbonate or laminated glass per UL 752 [3] or [NIJ Level 3][NIJ level 4].

2.6 FACTORY FINISH

Factory-applied rust-inhibitive primer.

Finish Options:

* [Powder Coat or Paint]: Custom color as selected by Architect.
* [Anti-Graffiti or Antimicrobial Coatings]: Optional upgrades.

Coating System:

* Primer: High-performance epoxy primer, 2.0 mils minimum DFT
* Top Coat: Polyurethane, 2.5 mils minimum DFT

Surface Preparation: Clean per SSPC-SP 2.

PART 3 - EXECUTION

3.1 PREPARATION

Verify that supports have been installed as required by the Contract Documents. Confirm that Shop Drawings have been approved.

Notify Architect of any unsatisfactory conditions.

Clean and prepare surfaces per manufacturer recommendations.

Verify field dimensions before fabrication.

Coordinate structural requirements for proper attachment and support.

3.2 INSTALLATION

Install in accordance with manufacturer's instructions and UL 752 or NIJ.

Set all components plumb, level, and square.

Door and frame shall be delivered prefabricated to dimensions approved in Shop Drawings.

Anchor assembly securely. Seal per installation instructions.

Remove excess sealant and clean surfaces.

3.3 PROTECTION

Protect door and frame during construction. If damaged, replace to match original condition.

Clean product prior to Substantial Completion. Remove all protective films, labels, and excess sealant.

Touch-up, repair, or replace damaged components as required.

END OF SECTION