

176-25 Union Turnpike Suite 175 Fresh Meadows NY 11366

# **SECTION 08316**

# WATERTIGHT AIRTIGHT SPECIAL ACCESS DOORS & HATCHES, PART 1 GENERAL

#### HIGHLIGHTED AREAS TO BE INSERTED BY SPECIFYING ENGINEER.

#### 1.1 WORK OF THIS SECTION

- A. THE WORK OF THIS SECTION INCLUDES PROVIDING ALL LABOR MATERIALS, TOOLS, EQUIPMENT AND ALL APPURTENANT WORK NECESSARY TO FURNISH DELIVER & INSTALL SPECIAL DOORS AS OUTLINED IN THE CONTRACT DRAWINGS.
- B. Types of special doors required shall include watertight closures as identified in the project specifications and project drawings.
- C. SIZE & LOCATION OF SPECIAL DOORS SHALL CONSIST OF

# (INSERT PROPER AREAS)

AS INDICATED BY THE CONTRACT DRAWINGS.

#### 1.2 RELATED SECTIONS

A THE WORK OF THE FOLLOWING SECTIONS APPLIES TO THE WORK OF THIS SECTION.

OTHER SECTIONS OF THE SPECIFICATIONS, NOT REFERENCED BELOW, SHALL ALSO APPLY TO THE EXTENT REQUIRED FOR PROPER PERFORMANCE OF THIS WORK

1. SECTION

#### (INSERT PROPER SECTION #)

CAST-LN-PLACE CONCRETE

#### 1.3 CODES

A THE WORK OF THIS SECTION SHALL COMPLY WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY

# (INSERT PROPER JURISDICTION)

1. Uniform Building Code

### 1.4 SHOP DRAWINGS AND SAMPLES

A. THE FOLLOWING SHALL BE SUBMITTED IN COMPLIANCE WITH SECTION

# (INSERT PROPER SECTION)

- PRODUCT DATA: CONTRACTOR SHALL SUBMIT MANUFACTURER'S PRODUCT SPECIFICATIONS, STANDARD
  DETAILS, CERTIFIED PRODUCT TEST RESULTS, INSTALLATION INSTRUCTIONS AND GENERAL THE
  RECOMMENDATIONS, AS -APPLICABLE TO MATERIALS AND FINISHES FOR EACH COMPONENT AND FOR
  TOTAL SYSTEM
- 2. SAMPLES: CONTRACTOR SHALL SUBMIT THE FOLLOWING SAMPLES AND ACCOMPANYING DESCRIPTIVE DATA:



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- A. FASTENERS: TWO OF EACH TYPE TO BE USED, WITH STATEMENT REGARDING INTENDED USE.
- B. CLOSURES: GASKET SEAL.
- SHOP DRAWINGS: CONTRACTOR SHALL SUBMIT SMALL SCALE LAYOUTS OF DOORS AND LARGE SCALE
  details of edge conditions, joints, comers, custom profiles, support, anchorage, trim
  sections, closures and special details. Distinction shall be made between factory & field assembly
  work.
- 4. Engineering Data: Design calculations, certified by a structural engineer licensed that the proposed special doors will meet the specified design criteria.

#### 1.5 EXPERIENCE & QUALIFICATIONS

A. MANUFACTURER'S QUALIFICATIONS: THE MANUFACTURER SHALL HAVE HAD AT LEAST FIVE YEARS EXPERIENCE IN PRODUCING THE SPECIFIC SPECIAL DOORS INDICATED.

#### 1.6 QUALITY ASSURANCE

A. THE MANUFACTURER SHALL OBSERVE AND APPROVE THE INSTALLATION OF THE SPECIAL DOORS.

#### PART 2 - PRODUCTS

#### 2.1 GENERAL

- A. PERFORMANCE TEST STANDARDS: CONTRACTOR SHALL PROVIDE SPECIAL DOORS HAVE BEEN PRE TESTED AND CERTIFIED BY THE MANUFACTURER TO PROVIDE THE INDICATED RESISTANCE TO AIR AND WATER INFILTRATION AND STRUCTURAL DEFLECTION AND FAILURE WHEN INSTALLED AS INDICATED AND WHEN TESTED IN ACCORDANCE WITH TEST PROCEDURES DESCRIBED HEREIN.
- B. THE SPECIAL DOORS SHALL BE MODEL

(PLEASE SELECT & INSERT PROPER MODEL #)				
Model #	DESCRIPTION	OPERATION	GASKET TYPE	Material
WTD2004-I2 -	HINGED DOOR	Manual – Swing	Dual Inflatable	ALUMINUM
H-ALM	(VERTICAL PLAIN)			
WTD2004-Dc -	HINGED DOOR	Manual – Swing	SINGLE COMPRESSION	ALUMINUM
H-ALM	(VERTICAL PLAIN)		Dog Lever	
WTD2004-Dc -	HINGED DOOR	Manual – Swing	SINGLE COMPRESSION	MILD STEEL
H- STL	(VERTICAL PLAIN)		Dog Lever	
WTD2004-Dc -	HINGED DOOR	Manual – Swing	SINGLE COMPRESSION	STAINLESS
H- SS	(VERTICAL PLAIN)		Dog Lever	STEEL
WTD2004-I2-	HINGED DOOR	Manual – Swing	Dual Inflatable	ALUMINUM
QA –H-ALM	(VERTICAL PLAIN)			
	QUICK ACTING WHEEL /			
	LEVER OPERATED			
WTD2004-Dc-	HINGED DOOR	Manual – Swing	MULTIPLE COMPRESSION	ALUMINUM
QA –H-ALM	(VERTICAL PLAIN)		Dog Lever	
	QUICK ACTING WHEEL /			
	LEVER OPERATED			
WTD2004-Dc-	HINGED DOOR	Manual – Swing	MULTIPLE COMPRESSION	MILD STEEL
QA –H- STL	(VERTICAL PLAIN)		Dog Lever	
	QUICK ACTING WHEEL /			



176- 25 Union Turnpike Suite 175 Fresh Meadows NY 11366

WTD2004-DC-RH-ALM (HORIZONTAL RAISED PLAIN) WTH2004-DC -RH-ALM (HORIZONTAL RAISED PLAIN) WTH2004-DC -RH-SS WTH2004-DC -FH-SS WTH2004-DC -FH-SS WTH2004-DC -FH-STL (HORIZONTAL RAISED PLAIN) WTH2004-DC -FH-STL (HORIZONTAL FLUSH PLAIN) WTH2004-DC -FH-STL (HORIZONTAL FLUSH PLAIN) WTH2004-DC -FH-STL (HORIZONTAL FLUSH PLAIN) WTH2004-DC -FH-STL SINGE HATCH (HORIZONTAL FLUSH PLAIN) WTH2004-DC -FH-SS SINGLE COMPRESSION DOG LEVER WT2004-DC -SLD - SLIDE DOOR SLIDE IN TRACK SINGLE COMPRESSION ALUMINUM DOG LEVER WT2004-DC -SLD - STL WING SINGLE COMPRESSION DOG LEVER WT2004-DC - SLIDE DOOR SLIDE IN TRACK SINGLE COMPRESSION ALUMINUM DOG LEVER WT2004-DC - SLIDE DOOR SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER WT2004-DC - SLIDE DOOR SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER WT2004-DC - SLIDE DOOR SLIDE IN TRACK SINGLE COMPRESSION STAINLESS STEEL WT2004-DC - SLIDE DOOR SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER WT2004-DC - SLIDE DOOR SLIDE IN TRACK SINGLE COMPRESSION STAINLESS STEEL WT2004-DC - SLIDE DOOR SLIDE IN TRACK SINGLE COMPRESSION STAINLESS STEEL WT2004-DC - SLIDE DOOR SLIDE IN TRACK SINGLE COMPRESSION STAINLESS STEEL WT2004-DC - SLIDE DOOR SLIDE IN TRACK SINGLE COMPRESSION STAINLESS STEEL WT2004-DC - SLIDE DOOR SLIDE IN TRACK SINGLE COMPRESSION STAINLESS STEEL WT2004-DC - SLIDE DOOR SLIDE IN TRACK SINGLE COMPRESSION STAINLESS STEEL	170 20 011101	Trampike saite 17	T	T T T T T T T T T T T T T T T T T T T	1
DC-QA -H- SS (VERTICAL PLAIN) QUICK ACTING WHEEL / LEVER OPERATED  WTH2004-DC -RH-ALM WTH2004-DC -RH- STL WTH2004-DC -RH- SS WTH2004-DC -FH- ALM WTH2004-DC -FH- STL WTH2004-DC -FH- SS STEEL WTH2004-DC -FH- SS WTH2004-DC -FH- SS WTH2004-DC -FH- SS WTH2004-DC -FH- SS STEEL WTH2004-DC -FH- SS WTH2004-DC -FH- SS STEEL WTH2004-DC -FH- ST -FH- ST -FH- SS -FH- SS -FH- ST -FH- SS -FH-					
WTH2004-DC -RH-ALM WTH2004-DC -RH-STL WTH2004-DC -RH-ALM WTH2004-DC -RH-SS WTH2004-DC -RH-SS WTH2004-DC -FH-ALM WTH2004-DC -FH-SS WTEE WT2004-DC -FH-SS WT2004-DC -FH-SS WT2004-DC -FH-SS WT2004-DC -FH-STL WT2004-DC -FH-SS WT2004-DC -FH-SS WT2004-DC -SLD-STL WT2004-DC -SLD-STL WT2004-DC -SLD-STL WT2004-DC -SLD-SS SLIDE DOOR SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER STEEL WT2004-DC -SLIDE DOOR SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER STEEL WT2004-DC -SLIDE DOOR SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER STEEL WT2004-DC -SLIDE DOOR SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER STEEL WT2004-DC -SLIDE DOOR SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER STEEL WT2004-DC -SLIDE DOOR SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER STEEL WT2004-DC -SLIDE DOOR SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER STEEL WT2004-DC -SLIDE DOOR SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER STEEL WT2004-DC -SLIDE DOOR SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER STEEL WT2004-DC -SLIDE DOOR SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER STEEL	WTD2004-	HINGED DOOR	Manual – Swing	MULTIPLE COMPRESSION	STAINLESS
WTH2004-DC -RH- STL WTH2004-DC -FH-ALM WTH2004-DC -FH-STL WTH2004-DC -	Dc-QA -H- SS	(VERTICAL PLAIN)		Dog Lever	STEEL
WTH2004-DC -RH-ALM WTH2004-DC -RH-STL WTH2004-DC -RH-SS WTH2004-DC -RH-SS WTH2004-DC -RH-SS WTH2004-DC -RH-SS WTH2004-DC -RH-SS WTH2004-DC -RH-SS WTH2004-DC -FH-ALM WTH2004-DC -FH-ALM WTH2004-DC -FH-SS WT2004-DC -SLD - SLIDE DOOR WT2004-DC - SLIDE DOOR WT2004-DC - SLIDE DOOR WT2004-DC - SLIDE DOOR SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER WT2004-DC - SLIDE DOOR SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER WT2004-DC - SLIDE DOOR SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER WT2004-DC - SLIDE DOOR SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER STEEL WT2004-DC - SLIDE DOOR SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER STAINLESS STEEL WT2004-DC - SLIDE DOOR SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER STAINLESS STEEL WT2004-DC - SLIDE DOOR SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER STAINLESS STEEL WT2004-DC - SLIDE DOOR SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER STAINLESS STEEL WT2004-DC - SLIDE DOOR SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER WT2004-DC - SLIDE DOOR SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER WT2004-DC - SLIDE DOOR SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER WT2004-DC - SLIDE DOOR SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER WT2004-DC - SLIDE DOOR SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER  WT2004-DC - SLIDE DOOR SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER  WT2004-DC - SLIDE DOOR SLIDE IN TRACK DOG LEVER  WT2004-DC - SLIDE DOOR SLIDE IN TRACK DOG LEVER  WT2004-DC - SLIDE DOOR SLIDE IN TRACK DOG LEVER  WT2004-DC - SLIDE DOOR SLIDE IN TRACK DOG LEVER  WT2004-DC - SLIDE DOOR SLIDE IN TRACK DOG LEVER  WT2004-DC - SLIDE DOOR SLIDE IN TRACK DOG LEVER  WT2004-DC - SLIDE DOOR SLIDE IN TRACK DOG LEVER  WT2004-DC - SLIDE DOOR SLIDE IN TRACK DOG LEVER  WT2004-DC - SLIDE DOOR  WT		QUICK ACTING WHEEL /			
-RH-ALM  WTH2004-DC -RH- STL  WTH2004-DC -RH- SS  WTH2004-DC -RH- SS  WTH2004-DC -FH-ALM  WTH2004-DC -FH-ALM  WTH2004-DC -FH-STL  WTH2004-DC -FH-STL  WTH2004-DC -FH-STL  WTH2004-DC -FH-STL  WTH2004-DC -FH-STL  WTH2004-DC -FH-STL  WTH2004-DC -FH-SS  WTH2004-DC -SLD - STL  WTHANN  MANUAL - SWING SINGLE COMPRESSION DOG LEVER  WHILD STEEL  WHINDM  MANUAL - SWING SINGLE COMPRESSION DOG LEVER  STAINLESS STEEL  WTHANN  WILD STEEL  WHINDM  ALUMINUM  ALUMIN		LEVER OPERATED			
WTH2004-DC -RH- STL WTH2004-DC -RH- SS WTH2004-DC -RH- SS WTH2004-DC -RH- SS WTH2004-DC -RH- SS WTH2004-DC -FH-ALM WTH2004-DC -FH-ALM WTH2004-DC -FH-STL WTH2004-DC -FH-STL WTH2004-DC -FH-STL WTH2004-DC -FH-STL WTH2004-DC -FH- STL WTH2004-DC -FH- SS SLIDE DOOR SLIDE DOOR SLIDE DOOR SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER STEEL WT2004-DC -SLD - STL WT2004-DC - SLD - STL WT2004-DC - SLD - SS STAINLESS STEEL WT2004-DC - SLD - SS SLIDE DOOR SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER STAINLESS STEEL WT2004-DC - SLIDE DOOR SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER STEEL WT2004-DC - SLIDE DOOR SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER STAINLESS STEEL WT2004-DC - SLIDE DOOR SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER STAINLESS STEEL WT2004-DC - SLIDE DOOR SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER STAINLESS STEEL WT2004-DC - SLIDE DOOR SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER STEEL WT2004-DC - SLIDE DOOR SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER STEEL WT2004-DC - SLIDE DOOR SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER ALUMINUM	WTH2004-Dc	HINGED HATCH	Manual – Swing	SINGLE COMPRESSION	ALUMINUM
WTH2004-DC -RH- STL WTH2004-DC -RH- SS WTH2004-DC -RH- SS WTH2004-DC -RH- SS WTH2004-DC -FH- ALM WTH2004-DC -FH- STL SLIDE DOOR SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER STAINLESS STEEL WT2004-DC -FH- STL WT2004-DC -FH- SS WT2004-DC -FH- SS STEEL WT2004-DC -SLD - STL WT2004-DC -SLD - STL SLIDE DOOR SLIDE DOOR SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER STEEL WT2004-DC -SLD - STL WT2004-DC -SLD - STL SLIDE DOOR SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER STEEL WT2004-DC -SLD - STL WT2004-DC - SLD - SS STEEL WT2004-DC - SLD - SS STEEL WT2004-DC - SLD - SS SLIDE DOOR SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER STAINLESS STEEL WT2004-DC - SLIDE DOOR SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER STAINLESS STEEL WT2004-DC - SLIDE DOOR SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER STAINLESS STEEL WT2004-DC - SLIDE DOOR SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER STAINLESS STEEL WT2004-DC - SLIDE DOOR SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER STAINLESS STEEL WT2004-DC - SLIDE DOOR SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER STEEL	-RH-AIM	(HORIZONTAL RAISED		Dog Lever	
-RH- STL (HORIZONTAL RAISED PLAIN)  WTH2004-DC -RH- SS (HORIZONTAL RAISED PLAIN)  WTH2004-DC -FH-ALM (HORIZONTAL FLUSH PLAIN)  WTH2004-DC -FH-STL (HORIZONTAL FLUSH PLAIN)  WTH2004-DC -FH-SS (HORIZONTAL FLUSH PLAIN)  WTH2004-DC -FH- STL (HORIZONTAL FLUSH PLAIN)  WTH2004-DC -FH-SS (HORIZONTAL FLUSH PLAIN)  WTH2004-DC -FH-SS (HORIZONTAL FLUSH PLAIN)  WTH2004-DC -FH-SS (HORIZONTAL FLUSH PLAIN)  WT2004-DC -SLIDE DOOR  WT2004-DC - SLIDE DOOR  SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER  STAINLESS STEEL  WT2004-DC - SLIDE DOOR  SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER  WT2004-DC - SLIDE DOOR  SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER  WT2004-DC - SLIDE DOOR  SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER  WT2004-DC - SLIDE DOOR  SLIDE IN TRACK SINGLE COMPRESSION STAINLESS STEEL  WT2004-DC - SLIDE DOOR  SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER  STAINLESS STEEL  WT2004-12 - SLIDE DOOR  SLIDE IN TRACK DOG LEVER  STAINLESS STEEL		PLAIN)			
WTH2004-DC -RH- SS  WTH2004-DC -FH-ALM  WTH2004-DC -FH-ST  WTH2004-DC -FH-ST  WTH2004-DC -FH-ST  WTH2004-DC -FH-SS  WTH2004-DC -FH-SS  WTH2004-DC -FH-ST  WTH2004-DC -FH-SS  WTH2004-DC -FH-SS  WTH2004-DC -FH-SS  WTH2004-DC -FH-SS  WTH2004-DC -FH-SS  WTH2004-DC -FH-SS  WTEL  MANUAL – SWING SINGLE COMPRESSION DOG LEVER  SINGLE COMPRESSION DOG LEVER  WING  SINGLE COMPRESSION DOG LEVER  WING  SINGLE COMPRESSION DOG LEVER  WING  SINGLE COMPRESSION DOG LEVER  STEEL  WT2004-DC -FH-SS  STEEL  WT2004-DC -SLIDE DOOR  SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER  WT2004-DC -SLIDE DOOR  SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER  WT2004-DC -SLIDE DOOR  SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER  WT2004-DC -SLIDE DOOR  SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER  WT2004-DC -SLIDE DOOR  SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER  STAINLESS STEEL  WT2004-DC -SLIDE DOOR  SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER  STAINLESS STEEL  WT2004-12 — SLIDE DOOR  SLIDE IN TRACK DUAL INFLATABLE  ALUMINUM	WTH2004-Dc	HINGED HATCH	Manual – Swing	SINGLE COMPRESSION	MILD STEEL
WTH2004-DC -RH- SS  WTH2004-DC -FH-ALM  WTH2004-DC -FH-ST  WTH2004-DC -FH-SS  WTH2004-DC -FH-SS  WTH2004-DC -FH-SS  WTH2004-DC -FH-SS  WTH2004-DC -FH-SS  SINGLE COMPRESSION DOG LEVER  WING  STAINLESS STEEL  WING  WING  WING  WING  WING  WING  WING  SINGLE COMPRESSION DOG LEVER  STAINLESS STEEL  WING  WING  WING  WING  WING  WING  WING  SINGLE COMPRESSION DOG LEVER  STAINLESS STEEL  WING  WING  WING  WING  WING  WING  WING  SINGLE COMPRESSION DOG LEVER  STAINLESS STEEL  WING  WING  WING  WING  WING  WING  WING  SINGLE COMPRESSION DOG LEVER  SINGLE COMPRESSION DOG LEVER  SINGLE COMPRESSION DOG LEVER  SINGLE COMPRESSION DOG LEVER  STAINLESS STEEL  WING  WILD STEEL  WILD  WILD STEEL  WILD	-RH- STI	(HORIZONTAL RAISED		Dog Lever	
-RH- SS (HORIZONTAL RAISED PLAIN)  WTH2004-DC -FH-ALM (HORIZONTAL FLUSH PLAIN)  WTH2004-DC -FH-STL (HORIZONTAL FLUSH PLAIN)  WTH2004-DC -FH- STL (HORIZONTAL FLUSH PLAIN)  WTH2004-DC -FH- STL (HORIZONTAL FLUSH PLAIN)  WTH2004-DC -FH-SS (HORIZONTAL FLUSH PLAIN)  WT2004-DC -SLD - ALM  WT2004-DC -SLD - SLIDE DOOR  SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER  STAINLESS STEEL  MANUAL – SWING SINGLE COMPRESSION DOG LEVER  STAINLESS STEEL  STEEL  WT2004-DC - SLIDE DOOR  SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER  STEEL  MILD STEEL  STAINLESS STEEL  WIT2004-DC – SLIDE DOOR  SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER  SINGLE COMPRESSION DOG LEVER  STEEL  WIT2004-DC – SLIDE DOOR  SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER  WIT2004-DC – SLIDE DOOR  SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER  STAINLESS STEEL  WIT2004-I2 – SLIDE DOOR  SLIDE IN TRACK DOG LEVER  STAINLESS STEEL		PLAIN)			
WTH2004-DC -FH-ALM WTH2004-DC -FH-ALM WTH2004-DC -FH-STL WTH2004-DC -FH-STL WTH2004-DC -FH-STL WTH2004-DC -FH-STL WTH2004-DC -FH-STL WTH2004-DC -FH-SS WTH2004-DC -FH-SS WTH2004-DC -FH-SS WTH2004-DC -FH-SS WTT2004-DC -SLIDE DOOR SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER SINGLE COMPRESSION DOG LEVER WT2004-DC -SLIDE DOOR WT2004-DC -SLIDE DOOR SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER WT2004-DC -SLIDE DOOR SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER WT2004-DC -SLIDE DOOR SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER WT2004-DC -SLIDE DOOR SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER WT2004-DC -SLIDE DOOR SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER WT2004-DC -SLIDE DOOR SLIDE IN TRACK DOG LEVER WT2004-I2 -SLIDE DOOR SLIDE IN TRACK DOG LEVER ALUMINUM	WTH2004-Dc	HINGED HATCH	Manual – Swing	SINGLE COMPRESSION	STAINLESS
WTH2004-DC -FH-ALM WTH2004-DC -FH-STL WTH2004-DC -FH-SS WTT2004-DC -FH-SS WTT2004-DC -SLIDE DOOR SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER WT2004-DC -SLIDE DOOR WT2004-DC -SLIDE DOOR SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER WT2004-DC -SLIDE DOOR WT2004-DC -SLIDE DOOR SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER WT2004-DC -SLIDE DOOR SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER WT2004-DC -SLIDE DOOR SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER WT2004-DC -SLIDE DOOR SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER WT2004-I2 — SLIDE DOOR SLIDE IN TRACK DUAL INFLATABLE ALUMINUM	-RH- SS	(HORIZONTAL RAISED		Dog Lever	STEEL
-FH-ALM (HORIZONTAL FLUSH PLAIN)  WTH2004-DC -FH- STL HINGED HATCH (HORIZONTAL FLUSH PLAIN)  WTH2004-DC -FH-SS HINGED HATCH (HORIZONTAL FLUSH PLAIN)  WT2004-DC -FH-SS STEEL  WT2004-DC -SLD - ALM  WT2004-DC SLIDE DOOR  SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER  STEEL  WT2004-DC SLIDE DOOR  SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER  SINGLE COMPRESSION DOG LEVER  SINGLE COMPRESSION DOG LEVER  WT2004-DC SLIDE DOOR  SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER  WT2004-DC SLIDE DOOR  SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER  WT2004-DC SLIDE DOOR  SLIDE IN TRACK SINGLE COMPRESSION STAINLESS STEEL  WT2004-I2 SLIDE DOOR  SLIDE IN TRACK DOG LEVER  WT2004-I2 SLIDE DOOR  SLIDE IN TRACK SINGLE COMPRESSION STAINLESS STEEL	1	PLAIN)			01222
WTH2004-DC -FH- STL WTH2004-DC -FH-SS WTH2004-DC -FH-SS WT2004-DC SLD - ALM WT2004-DC SLD - STL WT2004-DC SLD - STL WT2004-DC SLD - SS WT2004-DC SLD - SS SLIDE DOOR SLIDE DOOR SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER STAINLESS STEEL SINGLE COMPRESSION DOG LEVER STEEL SINGLE COMPRESSION DOG LEVER STEEL STEEL WIT2004-DC - SLIDE DOOR SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER STAINLESS STEEL WIT2004-I2 - SLIDE DOOR SLIDE IN TRACK DUAL INFLATABLE ALUMINUM	WTH2004-Dc	HINGED HATCH	Manual – Swing	SINGLE COMPRESSION	ALUMINUM
WTH2004-DC -FH- STL WTH2004-DC -FH-SS WTH2004-DC -FH-SS WT2004-DC SLD - ALM WT2004-DC SLD - STL WT2004-DC SLD - SS WT2004-DC SLIDE DOOR SLIDE DOOR SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER SINGLE COMPRESSION DOG LEVER SINGLE COMPRESSION STAINLESS STEEL SINGLE COMPRESSION DOG LEVER STAINLESS STEEL WT2004-I2 — SLIDE DOOR SLIDE IN TRACK DUAL INFLATABLE ALUMINUM	-FH-ALM	(HORIZONTAL FLUSH		Dog Lever	
-FH- STL (HORIZONTAL FLUSH PLAIN)  WTH2004-DC HINGED HATCH (HORIZONTAL FLUSH PLAIN)  WT2004-DC- SLIDE DOOR  WT2004-DC SLIDE DOOR  WT2004-DC SLIDE DOOR  SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER  WT2004-DC SLIDE DOOR  SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER  WT2004-DC SLIDE DOOR  SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER  WT2004-DC SLIDE DOOR  SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER  WT2004-DC SLIDE DOOR  SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER  WT2004-DC SLIDE DOOR  SLIDE IN TRACK SINGLE COMPRESSION STAINLESS STEEL  WT2004-I2 SLIDE DOOR  SLIDE IN TRACK DUAL INFLATABLE  ALUMINUM	,	PLAIN)			
WTH2004-DC -FH-SS -FH-S	WTH2004-Dc	HINGED HATCH	Manual – Swing	SINGLE COMPRESSION	MILD STEEL
PLAIN)  WTH2004-DC -FH-SS  HINGED HATCH (HORIZONTAL FLUSH PLAIN)  WT2004-DC- SLIDE DOOR  WT2004-DC - SLIDE DOOR  SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER  SINGLE COMPRESSION DOG LEVER  ALUMINUM DOG LEVER  WI2004-DC - SLIDE DOOR  SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER  WI2004-DC - SLIDE DOOR  SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER  WT2004-DC - SLIDE DOOR  SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER  STAINLESS STAINLESS STEEL  WT2004-12 - SLIDE DOOR  SLIDE IN TRACK DUAL INFLATABLE ALUMINUM	-FH- STI	(HORIZONTAL FLUSH		Dog Lever	
-FH-SS (HORIZONTAL FLUSH PLAIN)  WT2004-DC- SLIDE DOOR SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER  WT2004-DC - SLIDE DOOR SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER  WT2004-DC - SLIDE DOOR SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER  WT2004-DC - SLIDE DOOR SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER  STAINLESS STEEL  WT2004-12 - SLIDE DOOR SLIDE IN TRACK DUAL INFLATABLE ALUMINUM		PLAIN)			
WT2004-DC- SLIDE DOOR SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER WT2004-DC - SLIDE DOOR SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER WT2004-DC - SLIDE DOOR SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER WT2004-DC - SLIDE DOOR SLIDE IN TRACK SINGLE COMPRESSION STAINLESS SLD - SS DOG LEVER STEEL WT2004-12 - SLIDE DOOR SLIDE IN TRACK DUAL INFLATABLE ALUMINUM	WTH2004-Dc	HINGED HATCH	Manual – Swing	SINGLE COMPRESSION	STAINLESS
PLAIN)  WT2004-DC- SLIDE DOOR SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER  WT2004-DC - SLIDE DOOR SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER  WT2004-DC - SLIDE DOOR SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER  WT2004-DC - SLIDE DOOR SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER STAINLESS STEEL  WT2004-12 - SLIDE DOOR SLIDE IN TRACK DUAL INFLATABLE ALUMINUM	-FH-SS	(HORIZONTAL FLUSH		Dog Lever	STEEL
SLD - ALM     DOG LEVER       WT2004-DC - SLIDE DOOR     SLIDE IN TRACK     SINGLE COMPRESSION DOG LEVER       WT2004-DC - SLIDE DOOR     SLIDE IN TRACK     SINGLE COMPRESSION DOG LEVER       SLD - SS     STAINLESS STEEL       WT2004-12 - SLIDE DOOR     SLIDE IN TRACK     DUAL INFLATABLE     ALUMINUM		PLAIN)			
WT2004-DC –       SLIDE DOOR       SLIDE IN TRACK       SINGLE COMPRESSION DOG LEVER       MILD STEEL         WT2004-DC –       SLIDE DOOR       SLIDE IN TRACK       SINGLE COMPRESSION DOG LEVER       STAINLESS STEEL         WT2004-I2 –       SLIDE DOOR       SLIDE IN TRACK       DUAL INFLATABLE       ALUMINUM	WT2004-DC-	SLIDE DOOR	SLIDE IN TRACK	SINGLE COMPRESSION	ALUMINUM
SLD - STL     Dog Lever       WT2004-DC - SLIDE DOOR     SLIDE IN TRACK     SINGLE COMPRESSION DOG LEVER     STAINLESS STEEL       WT2004-12 - SLIDE DOOR     SLIDE IN TRACK     DUAL INFLATABLE     ALUMINUM	SLD - ALM			Dog Lever	
WT2004-DC - SLIDE DOOR SLIDE IN TRACK SINGLE COMPRESSION DOG LEVER STEEL WT2004-12 - SLIDE DOOR SLIDE IN TRACK DUAL INFLATABLE ALUMINUM	WT2004-DC -	SLIDE DOOR	SLIDE IN TRACK	SINGLE COMPRESSION	MILD STEEL
SLD - SS DOG LEVER STEEL WT2004-12 — SLIDE DOOR SLIDE IN TRACK DUAL INFLATABLE ALUMINUM	SLD - STL			Dog Lever	
SLD - SS     Dog Lever     STEEL       WT2004-12 -     SLIDE DOOR     SLIDE IN TRACK     DUAL INFLATABLE     ALUMINUM	WT2004-DC -	SLIDE DOOR	SLIDE IN TRACK	SINGLE COMPRESSION	STAINLESS
WT2004-12 - SLIDE DOOR SLIDE IN TRACK DUAL INFLATABLE ALUMINUM	SLD - SS			Dog Lever	
	WT2004-I2 -	SLIDE DOOR	SLIDE IN TRACK	Dual Inflatable	
	SLD - ALM				

C. DISSIMILAR MATERIALS SHALL BE SEPARATED FROM EACH OTHER THROUGH THE USE OF APPROVED GASKETS OR COATINGS.

# 2.2 MATERIALS

Α

R	
SELECT APPROPRIATE MATERIAL	
PANELS AND FRAMES STEEL ASTM A36 SHEET	
PANELS AND FRAMES STAINLESS STEEL ASTM A240 SHEET	SELECT GRADES 304, 304L, 316, 316L
Panels and frames aluminum ASTM B209	SELECT 5052 H32, 5086, 6061 T-6.

B.

SELECT APPROPRIATE MATERIAL	
EXTRUSIONS & SHAPES: STEEL ASTM A36	
EXTRUSIONS & SHAPES: STAINLESS STEEL ASTM A276.	SELECT GRADES 304, 304L, 316, 316L



# 176- 25 Union Turnpike Suite 175 Fresh Meadows NY 11366

EXTRUS	SIONS & SHAPES: ALUMINUM AS IM B209	SELECT 6061 T-6.
C.	FASTENERS: 300 SERIES STAINLESS STEEL.	
D.	GASKETS: NEOPRENE HYPALON, OR EQUAL.	
E.	Expansion Anchor Bolts: Series 300 stainless steel.	
<u>F.</u>		

SELECT APPROPRIATE MATERIAL	
STIFFENER ANGLES: STEEL ASTM A36	
STIFFENER ANGLES EXTRUSIONS & SHAPES: STAINLESS STEEL ASTM A276.	SELECT GRADES 304, 304L, 316, 316L
STIFFENER ANGLES EXTRUSIONS & SHAPES: ALUMINUM ASTM B209	SELECT 6061 T-6.

STRUCTURAL ANGLES AS REQUIRED BY THE MANUFACTURER.

## 2.3 METAL FINISHES

2.3 WE FAL FINISHES		
SELECT APPROPRIATE FINISH		
A. (FOR FLUSH AND WALKED ON SURFACE) INTEGRAL NON-SKID FINISH SHALL BE		
PROVIDED TO ALL SURFACES THAT MAY BE SUBJECT TO FOOT TRAFFIC. THE NON-SKID SURFACE SHALL NOT BE ACHIEVED		
BY THE USE OF PAINT OR ADHESIVE TAPES		
B. (FOR ALL STEEL PRODUCTS) BRUSH OFF BLAST CLEAN PER SSPC-SP7. PRIME WITH ONE		
COAT RUST INHIBITIVE, LEAD FREE PRIMER. APPLY FIELD FINAL COAT AFTER INSTALLATION IN ACCORDANCE WITH		
PAINT AND FINISH SCHEDULE SEE SEC (INSERT APPROPRIATE SECTION)		
C. (FOR STAINLESS STEEL AND ALUMINUM PRODUCTS) ABRASIVE CLEAN, OR ACID WASH AT		
THE OPTION OF THE MANUFACTURER. OR/BRUSH OFF BLAST CLEAN PER SSPC-SP7.		

#### 2.4 DESIGN CRITERIA

WITH USE OF SAND / GLASS BEADS

- A. The special doors frame and skin shall be designed in accordance with the specifications as published by the astm association and designed for full dead load plus live load in accordance with the uniform building code latest edition as applicable for this location. Special door deflection shall be less than or equal to L/360 under total dead and live load condition.
- B. WATERTIGHT DOORS SHALL BE DESIGNED WITH A MINIMUM 2:1 FACTOR OF SAFETY BASED ON MATERIAL YIELD STRENGTH.
- C. STIFFENER ANGLES SHALL BE WELDED TO PANEL UNDERSIDE AND CONCEALED FROM VIEW. BOLTED OR RIVETED CONSTRUCTION IS NOT ACCEPTABLE.
- D. THE DIRECT ATTACHMENT OF PANELS TO THE SURFACE OF FRAME MEMBERS BY MEANS OFF BOLTS, SCREWS OR SELF DRILLING FASTENERS EXTENDING THROUGH THE PANELS, OTHER TOP FLANGES, OR OUTER EDGES OF THE PANEL WILL NOT BE ACCEPTABLE
- E. SPECIAL DOORS SHALL BE HINGED TO ASSURE PROPER AND SMOOTH SWING OF THE COVER UP TO 180 DEGREES OR TO THE EXTENT THAT HOLD BACK OR RESTRICTIVE MECHANISMS MAY APPLY. HINGES SHALL HAVE SLOTTED HOLES TO PROTECT THEM FROM SEAL PRESSURE LOADS. SEAL LOADS SHALL NOT BE TRANSMITTED TO THE HINGES. HINGE PINS AND WASHERS SHALL BE OF 304 STAINLESS, UNLESS OTHERWISE SPECIFIED.
- F. THE SPECIAL DOORS SHALL BE EQUIPPED WITH STAINLESS STEEL DOGS. (LATCHING DEVICES). THE NUMBER SIZE AND LOCATION WILL BE DICTATED BY THE SPECIAL DOOR SIZE AS WELL AS THE SPECIFIED DESIGN CONDITIONS. DOGS ARE SPACED TO TRANSMIT THE SEALING LOAD EQUALLY TO THE SURROUNDING FRAME AND GRADE. DOGS SHALL BE FLUSH TO AVOID INTERFERENCE WITH PERSONNEL, EQUIPMENT AND VEHICLE TRAFFIC.
- G. SPECIAL DOORS SHALL BE DESIGNED TO CONFORM TO THE -FOLLOWING CRITERIA FOR WATER



# 176-25 Union Turnpike Suite 175 Fresh Meadows NY 11366

PENETRATION AND AIR INFILTRATION:

#### 1. WATER PENETRATION: NO LEAKAGE AT XX FT OF WATER HEAD STANDING WATER.

- H. THE SPECIAL DOORS SHALL HAVE COMPRESSION STOPS TO ASSURE THAT TRAFFIC AND WATER PRESSURE WILL NOT DAMAGE THE GASKET SEAL. ALL SEALS ARE OF CONTINUOUS MATERIAL AS SPECIFIED AND DETERMINED BY THE CONDITIONS. SEALS ARE SECURELY EMBEDDED IN A SEAL GROOVE.
- I. LIFT POCKETS OR HANDLES WITHOUT THE PENETRATION OF HATCH / DOOR COVER SHALL BE PROVIDED WITH EACH PANEL.
- J. STRAP ANCHOR DEVICES MAY BE FIELD WELDED TO THE FRAME IN ORDER TO ENSURE THEY ARE PROPERLY EMBEDDED IN CONCRETE. OTHER OPTIONS INCLUDE SURFACE GASKETS, BOLTS AND WEDGE ANCHORS.

#### 2.5 INSPECTION & TESTS

- A ALL WELDS IN THE POTENTIAL "LEAK PATH" SHALL BE LIQUID PENETRANT INSPECTED IN ACCORDANCE WITH APPENDIX VIII OF SECTION VIII DIV. 1 OF ASME CODE.
- B. FINISHED ASSEMBLY, OR ASSEMBLY SIMILAR IN DESIGN SHALL BE FACTORY LEAK TESTED IN ACCORDANCE WITH ASTM E283.

#### 2.6 MANUFACTURERS

- A. PRODUCTS OF THE TYPE INDICATED SHALL BE PROVIDED BY THE FOLLOWING MANUFACTURERS:
  - 1. VR CONTAINMENT

176-25 UNION TURNPIKE SUITE 175 FRESH MEADOWS NY 11366 TEL (516) 673 4961 FAX (866) 286 5616

E-Mail: VR\_containment@ymail.com / Web site www.vrcontainment.com

2. OR PRE APPROVED EQUAL.

# 3.1 INSTALLATION

A. GENERAL: CONTRACTOR SHALL COMPLY WITH SPECIAL DOOR MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS FOR INSTALLATION, AS APPLICABLE TO PROJECT CONDITIONS AND SUPPORTING SUBSTRATES. A MANUFACTURER'S BE PRESENT TO SUPERVISE,

INSPECT AND ASSIST IN THE INSTALLATION AT THE START UP STAGE AND "ON AN AS NEEDED BASIS" THEREAFTER AS DETERMINED BY THE ENGINEER.

- 1. EXCESS SCRAP SHALL BE REMOVED AND WORKING SURFACES SHALL BE KEPT FROM DEBRIS ON REGULAR DAILY BASIS.
- 2. FILINGS CAUSED BY DRILLING OR CUTTING SHALL BE REMOVED IMMEDIATELY FROM FINISHED SURFACES.
- B. Installation tolerances: special doors shall be plumb, level, and aligned within an installed tolerance of 1/4-inch in 20 feet and within 1/8-inch onset of adjoining faces and of alignment of matching profiles.
- C. AT THE COMPLETION OF THE INSTALLATION, A CHALK TEST IS TO BE PERFORMED TO DETERMINE THE ACTUAL CONDITIONS OF THE SPECIAL DOORS.

## **END OF SECTION**