CLASS 2 MODULAR VAULT SYSTEM
(6) SIDED USED WITH CLASS 2 TITAN VAULT DOOR
(FREE SPAN VAULT SIZES)

SPECIFICATIONS:

- PANEL CONSTRUCTION:
  HIGH SECURITY REINFORCED MODULAR CONCRETE PANELS.
- PANEL CONNECTIONS:
  BUTT JOINT AND WELDED
- PANEL THICKNESS:
  229mm (9")
- COMpressive STRENGTH:
  11,500 PSI
- UL LISTINGS:
  CLASS 2 - 60 MINUTE

TOTAL VAULT PANEL WEIGHT PER SQUARE FOOT:

- INSIDE DEPTH X INSIDE HEIGHT X 2 X 56kg (123 LBS.) PER SQ. FOOT = A
- INSIDE HEIGHT X OUTSIDE WIDTH X 2 X 56kg (123 LBS.) PER SQ. FOOT = B
- OUTSIDE WIDTH X OUTSIDE DEPTH X 2 X 56kg (123 LBS.) PER SQ. FOOT = C

SUBTRACT FOR WALL OPENING:

- OUTSIDE WIDTH X OUTSIDE DEPTH X 2 X 56kg (123 LBS.) PER SQ. FOOT = C
- INSIDE DEPTH X INSIDE HEIGHT X 2 X 56kg (123 LBS.) PER SQ. FOOT = A
- INSIDE DEPTHT X OUTSIDE WIDTH X 2 X 56kg (123 LBS.) PER SQ. FOOT = B

OUTLINE OF 254mm (10") DEEP FLOOR RECESS
(INSIDE DIMENSION) HEIGHT EXCEEDING 2591mm (8'-6") STANDARD HEIGHT

MAXIMUM HEIGHT 4572mm (15'-0")
(INSIDE DIMENSION) HEIGHT EXCEEDING 15'-0" REQUIRES SPECIAL ENGINEERING

MINIMUM HEIGHT WITH DOOR
2235mm (7'-4")

VIEW FROM OUTSIDE VAULT
STANDARD ALARM AND ELECTRICAL POWER CONDUIT PENETRATIONS IN VAULT DOOR HEADER PANEL AS SHOWN.
ALTERNATE LOCATION OF ALARM AND ELECTRICAL CONDUIT PENETRATION CAN BE IN THE WALL OR CEILING PANELS.
SPECIFY PREFERRED LOCATIONS.
GENERAL SPECIFICATIONS:

1. PARALLEL PANELS - SIDE WALL PANELS EXTEND PAST THE FRONT AND REAR WALL PANELS TO FORM THE OUTSIDE VAULT CORNERS. PERPENDICULAR PANELS - VAULT FRONT AND REAR WALL PANELS EXTEND PAST THE SIDE WALL PANELS TO FORM THE OUTSIDE VAULT CORNERS.

2. ALL CLASS 2 (6) SIDED VAULTS UTILIZE 813mm (2'-6") AND 1321mm (4'-4") WIDE PANELS TO MAKE UP WALLS, FLOORS AND CEILINGS. A MAKE-UP PANEL (ONE OR TWO PER SIDE) WILL BE USED TO ACHIEVE VAULT SIZES NOT IN MULTIPLES OF 813mm (2'-6") AND 1321mm (4'-4") THE MAKE-UP PIECE MAY NOT BE NARROWER THAN 457mm (1'-6").

3. THE OWNERS ELECTRICAL CONTRACTOR MUST FURNISH AND INSTALL ALL CONDUIT AND JUNCTION BOXES, PROVIDE AND PULL ALL POWER WIRES AND MAKE ALL ELECTRICAL POWER CONNECTIONS. OWNERS E.G. TO PROVIDE AND PULL ALL ALARM WIRING, TAG AND CONTINUITY TEST UNLESS PART OF DIEBOLD NIXDORF CONTRACT.

4. ALL CONNECTIONS ON ALL CLASSES OF VAULTS ARE WELDED BUTT JOINT. SEAMS LINE UP ON FLOOR, SIDE WALLS AND CEILING IN DIRECTION PANELS RUN.

5. THE VAULT DOOR VESTIBULE PANELS ARE STANDARD WALL PANELS. STEEL CHANNELS RUNNING THE FULL HEIGHT OF THE VAULT DOOR MASONRY OPENING WILL BE WELDED TO THE TITAN VAULT DOOR AND VAULT PANELS WHEN VAULT DOOR IS INSTALLED.

6. VAULT SIZES MUST BE SHOWN IN EVEN INCHES. NO FRACTIONS OF INCHES WILL BE ACCEPTED IN VAULT SIZING.

7. STRUCTURAL CALCULATIONS REQUIRED FOR INSIDE HEIGHT OF WALL PANELS OVER 457mm (1'-6`).

8. THE FLOOR PANELS ARE DESIGNED TO CARRY A LIVE LOAD OF 500 LBS PSF. STRUCTURAL SUPPORT PROVIDED BY PURCHASER MUST BE LOCATED AT INTERVALS OF 2667mm (9'-6")

9. NO LIVE LOADS OF ANY KIND ARE PERMITTED ON ANY VAULT CEILING.

10. IT IS "MANDATORY" THAT THE OWNERS GENERAL CONTRACTOR GROUT IN THE SPACE BETWEEN THE FLOOR AND ROUGH RECESS AFTER VAULT DOOR IS INSTALLED BY DIEBOLD NIXDORF. GROUT TO CONSIST OF CLEAN SAND AND CEMENT USING FORMULATION TO PROVIDE AT LEAST 3,000 P.S.I. (EQUIVALENT TO 6 BAG MIX).

11. THE INTERIOR SEAMS AND CONNECTING PLATES TO BE CAULKED AND COVERED BY APPLICATION OF WALL COVERING, FLOOR COVERING, OR CEILING TILE BY PURCHASER. IT IS RECOMMENDED THAT THE EXTERIOR EXPOSED SURFACES BE CAULKED AS NECESSARY AND/OR BE COVERED WITH AN APPLIED FINISHING MATERIAL BY PURCHASER.

MODULAR VAULT APPLICATIONS

(SPECIFY SPECIAL CONDITIONS THAT MAY APPLY )

- JOB SITE CONDITIONS WILL NOT ALLOW EXTRA WIDE VAULT PANELS TO BE USED. (COORDINATE WITH SERVICE AND INSTALLATION ) MAXIMUM WIDTH OF OVERSIZE PANELS: 1321mm (4'-4")

- SPECIAL CEILING SUPPORT IS REQUIRED FOR VAULTS WITH WIDTH AND DEPTH DIMENSIONS LARGER THAN 5791mm (19'-0")

- HVAC PORT- SPECIFY LOCATION. SEE CUT SHEET FILE NO. 186-166

- SPRINKLER PENETRATIONS - SPECIFY LOCATION. *25mm (1") MAXIMUM DIAMETER PENETRATIONS

- TITAN VAULT DOOR IS STANDARD OTHER VAULT DOOR (SPECIFY DOOR INFORMATION)

- MUST SPECIFY VAULT DOOR MODEL NUMBER.
- MUST SPECIFY WALL OPENING SIZE

- VAULT VENTILATOR IN PANEL MAY BE REQUIRED WITH OTHER VAULT DOOR (STANDARD IN TITAN)

- MUST SPECIFY LOCATION ON HINGE SIDE OR JAMB SIDE OF VAULT DOOR OPENING

- VAULTS REQUIRING PENETRATIONS LARGER THAN 25mm (1") WILL REQUIRE SPECIAL VAULT PANELS CONSTRUCTED TO MEET UL REQUIREMENTS. SEE CUT SHEET FILE NO. 186-209

NOTE:

OWNER'S G.C. TO VERIFY FLOOR COVERING THICKNESS TO BE APPLIED INSIDE AND OUTSIDE VAULT. OWNER'S G.C. TO PREPARE FLOOR AS REQUIRED SO FINISHED FLOOR HEIGHT MEETS OR IS FEATHERED TO EDGE OF VAULT DOOR SILL HEIGHT, BUT DOES NOT EXCEED TOP OF SILL PLATE.

FINISH FLOOR MATERIAL INSIDE AND OUTSIDE VAULT SHOULD MEET OR BE FEATHERED TO THIS EDGE OF VAULT DOOR SILL PLATE.

DETAIL "E"
CLASS 2 MODULAR VAULT SYSTEM
(5) SIDED USED WITH CLASS 2 TITAN VAULT DOOR
(FREE SPAN VAULT SIZES)

FREE SPAN VAULT SIZES (INSIDE DIMENSIONS)

<table>
<thead>
<tr>
<th>SPECIFY DIRECTION CEILING PANELS RUN (PARALLEL OR PERPENDICULAR) TO THE VAULT WALL WITH VAULT DOOR OPENING.</th>
<th>WIDTH X DEPTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>PERPENDICULAR</td>
<td>VARIABLE WIDTH X UP TO 5791mm (19'-0&quot;)</td>
</tr>
<tr>
<td>PARALLEL</td>
<td>UP TO 5791mm (19'-0&quot;) X VARIABLE DEPTH</td>
</tr>
</tbody>
</table>

NOTE:
SPECIAL CEILING SUPPORT IS REQUIRED FOR VAULTS WITH WIDTH AND DEPTH DIMENSIONS LARGER THAN 5791mm (19'-0").

LOCATION OF VAULT DOOR OPENING CENTERLINE FROM LEFT INSIDE WALL. MINIMUM DISTANCE 1219mm (4'-0")

FLOOR SHOWN FOR RAISED SILL DETAIL SEE DETAIL "F" FOR RECESSED SILL DETAIL

VAULT PLAN
RAISED SILL

VIEW FROM OUTSIDE VAULT
STANDARD ALARM AND ELECTRICAL POWER CONDUIT PENETRATIONS IN VAULT DOOR HEAD PANEL AS SHOWN.
ALTERNATE LOCATION OF ALARM AND ELECTRICAL CONDUIT PENETRATION CAN BE IN THE WALL OR CEILING PANELS. SPECIFY PREFERRED LOCATIONS.

SPECIFICATIONS:

- PANEL CONSTRUCTION:
  HIGH SECURITY REINFORCED MODULAR CONCRETE PANELS.
- PANEL CONNECTIONS:
  BUTT JOINT AND WELDED
- PANEL THICKNESS:
  229mm (9")
- COMPRESSIVE STRENGTH:
  11,500 PSI
- UL LISTINGS:
  CLASS 2 - 60 MINUTE
- TOTAL VAULT PANEL WEIGHT PER SQUARE FOOT:
  INSIDE DEPTH X INSIDE HEIGHT X 2 X 56kg (123 LBS.) PER SQ. FOOT = A
  INSIDE HEIGHT X OUTSIDE WIDTH X 2 X 56kg (123 LBS.) PER SQ. FOOT = B
  OUTSIDE WIDTH X OUTSIDE DEPTH X 56kg (123 LBS.) PER SQ. FOOT = C
  SUBTRACT FOR WALL OPENING:
  1499mm (4'-11") X 2235mm (7'-4") X 56kg (123 LBS.) PER SQ. FOOT = 2007kg (4426 LBS.)
  (A+B+C) - 2007kg (4426 LBS.) = TOTAL VAULT PANEL WEIGHT
- ALLOW 76mm (3") MINIMUM CLEARANCE FROM VAULT WALLS TO ANY EXISTING STRUCTURE DURING INSTALLATION OF VAULT PANELS (TYPICAL FOR ANY SIZE VAULT).
**GENERAL SPECIFICATIONS:**

1. **PARALLEL PANELS** - SIDE WALL PANELS EXTEND PAST THE FRONT AND REAR WALL PANELS TO FORM THE OUTSIDE VAULT CORNERS. PERPENDICULAR PANELS - VAULT FRONT AND REAR WALL PANELS EXTEND PAST THE SIDE WALL PANELS TO FORM THE OUTSIDE VAULT CORNERS.

2. **ALL CLASS 2 (5) SIDED VAULTS** UTILIZE 813mm (2'-8") AND 1321mm (4'-4") WIDE PANELS TO MAKE UP WALLS AND CEILINGS. A MAKE-UP PANEL (ONE OR TWO PER SIDE) WILL BE USED TO ACHIEVE VAULT SIZES NOT IN MULTIPLES OF 813mm (2'-8") AND 1321mm (4'-4") THE MAKE-UP PIECE MAY NOT BE NARROWER THAN 457mm (1'-6")

3. **THE OWNERS ELECTRICAL CONTRACTOR** MUST FURNISH AND INSTALL ALL CONDUIT AND JUNCTION BOXES, PROVIDE AND PULL ALL POWER WIRES AND MAKE ALL ELECTRICAL POWER CONNECTIONS. OWNERS E.C. TO PROVIDE AND PULL ALL ALARM WIRES, TAG AND CONTINUITY TEST UNLESS PART OF DIEBOLD NIXDORF CONTRACT.

4. **ALL CONNECTIONS ON ALL CLASSES OF VAULTS ARE WELDED BUTT JOINT. SEAMS LINE UP ON SIDE WALLS AND CEILING IN DIRECTION PANELS RUN.**

5. **THE VAULT DOOR VESTIBULE PANELS ARE STANDARD WALL PANELS. STEEL CHANNELS RUNNING THE FULL HEIGHT OF THE VAULT DOOR MASONRY OPENING WILL BE WELDED TO THE VAULT DOOR AND VAULT PANELS WHEN VAULT DOOR IS INSTALLED.**

6. **VAULT SIZES MUST BE SHOWN IN EVEN INCHES. NO FRACTIONS OF INCHES WILL BE ACCEPTED IN VAULT SIZING.**

7. **STRUCTURAL CALCULATIONS REQUIRED FOR INSIDE HEIGHT OF WALL PANELS OVER 4572mm (15'-0').**

8. **FOR VAULTS WITHOUT FLOOR PANELS A 10mm (7/8") SHOE PLATE IS PREFERRED (BY DIEBOLD NIXDORF OR OWNERS G.C.) AROUND THE PERIMETER OF THE VAULT. THE PLATE IS 25mm (1") WIDER THAN THE PANEL THICKNESS. IT SHALL HAVE COUNTERSUNK HOLE EVERY 610mm (2'-0") TO ATTACH THE PLATE TO EXISTING FLOOR. THE PANEL IS THEN SET ON THE SHOE PLATE AND WELDED TO IT BY DIEBOLD NIXDORF. A 13mm (1/2") THICK BED PLATE AND ANCHORS ARE REQUIRED TO BE PROVIDED AND INSTALLED BY THE OWNERS G.C. FOR THE VAULT DOOR OPENING. (SEE PAGES 5, 6 AND 7 OF 7)**

9. **PRIVATE LOADS OF ANY KIND ARE PERMITTED ON ANY VAULT CEILING.**

10. **IT IS "MANDATORY" THAT THE OWNERS GENERAL CONTRACTOR GROUT IN THE SPACE BETWEEN THE PIT AND FLOOR RECESS AFTER VAULT DOOR IS INSTALLED BY DIEBOLD NIXDORF. GROUT TO CONSIST OF CLEAN SAND AND CEMENT USING FORMULATION TO PROVIDE AT LEAST 3,000 P.S.I. (EQUIVALENT TO 6 BAG MIX).**

11. **THE INTERIOR SEAMS AND CONNECTING PLATES TO BE CAULKED AND COVERED BY APPLICATION OF WALL COVERING. FLOOR COVERING, OR CEILING TILE BY PURCHASER. IT IS RECOMMENDED THAT THE EXTERIOR EXPOSED SURFACES BE CAULKED AS NECESSARY AND/OR BE COVERED WITH AN APPLIED FINISHING MATERIAL BY PURCHASER.**

**NOTICE:**

- **OWNER'S G.C. TO VERIFY FLOOR COVERING THICKNESS TO BE APPLIED INSIDE AND OUTSIDE VAULTS. OWNER'S G.C. TO PREPARE FLOOR AS REQUIRED SO FINISHED FLOOR HEIGHT MEETS OR IS FEATHERED TO EDGE OF VAULT DOOR SILL HEIGHT, BUT DOES NOT EXCEED TOP OF SILL PLATE.**

- **FINISH FLOOR MATERIAL INSIDE AND OUTSIDE VAULT SHOULD MEET OR BE FEATHERED TO THIS EDGE OF VAULT DOOR SILL PLATE.**

**MODULAR VAULT APPLICATIONS**

(SPECIFY SPECIAL CONDITIONS THAT MAY APPLY)

- **JOB SITE CONDITIONS WILL NOT ALLOW EXTRA WIDE VAULT PANELS TO BE USED. (COORDINATE WITH SERVICE AND INSTALLATION)**
- **MAXIMUM WIDTH OF OVERSIZE PANELS: 1321mm (4'-4")**
- **SPECIAL CEILING SUPPORT IS REQUIRED FOR VAULTS WITH WIDTH AND DEPTH DIMENSIONS LARGER THAN 5791mm (19'-0")**
- **HVAC PORT - SPECIFY LOCATION. SEE CUT SHEET FILE NO. 186-166**
- **SPRINKLER PENETRATIONS - SPECIFY LOCATION.**
- **TITAN VAULT DOOR IS STANDARD OTHER VAULT DOOR (SPECIFY DOOR INFORMATION) MUST SPECIFY VAULT DOOR MODEL NUMBER. MUST SPECIFY WALL OPENING SIZE.**
- **VAULT VENTILATOR IN PANEL MAY BE REQUIRED WITH OTHER VAULT DOOR (STANDARD IN TITAN) SPECIFY LOCATION ON HINGE SIDE OR JAMB SIDE OF VAULT DOOR OPENING.**
- **VAULTS REQUIRING PENETRATIONS LARGER THAN 25mm (1") WILL REQUIRE SPECIAL VAULT PANELS CONSTRUCTED TO MEET UL REQUIREMENTS. SEE CUT SHEET FILE NO. 186-209**
BED PLATE DETAILS

PERSPECTIVE

SECTION-RAISED SILL

SECTION-RECESSED SILL

BED PLATE PLAN
SHOE PLATE AND BED PLATE DETAILS

PERSPECTIVE
SURFACE MOUNTED SHOE PLATE SHOWN (OVERLAPS BED PLATE)

PLAN VIEW
SURFACE MOUNTED SHOE PLATE SHOWN (OVERLAPS BED PLATE)
SPECIFICATION
STEEL PLATE .375 HR AISI 1010

OUTSIDE VAULT

254
(10")

INSIDE VAULT

(6) 1/8" DIA. HOLES COUNTERSINK 13/8" DIA. X 82°

ANCHOR BOLT

½" - 13 THREAD

16
(5/8")

13
(1/2")

ANCHOR DROP-IN

254
(10")

SHOE PLATE

229
(9")

VAULT WALL PANEL

102
(4")

152
(6")

OUTSIDE VAULT

INSIDE VAULT

WELDED BY DIEBOLD NIXDORF

SURFACE MOUNTED SHOE PLATE

229
(9")

VAULT WALL PANEL

OUTSIDE VAULT

INSIDE VAULT

WELDED BY DIEBOLD NIXDORF

NOTE:
IT'S THE RESPONSIBILITY OF THE OWNER'S GENERAL CONTRACTOR TO SECURE SHOE PLATE TO THE FLOOR CONSTRUCTION.

RECESSED MOUNTED SHOE PLATE

229
(9")

VAULT WALL PANEL

PLAN VIEW

PANEL

VAULT WALL

CLASS 2

SHOE PLATE

SURFACE MOUNTED SHOE PLATE

RECESSED MOUNTED SHOE PLATE

NOTE:
IT'S THE RESPONSIBILITY OF THE OWNER'S GENERAL CONTRACTOR TO SECURE SHOE PLATE TO THE FLOOR CONSTRUCTION.

FILE NO. 186-178 REV. 9

DIMENSIONS IN MILLIMETRES (DIMENSIONS IN FEET - INCHES)

VAULT WALL PANEL

SHOE PLATE

ANCHOR BOLT

SURFACE MOUNTED SHOE PLATE

RECESSED MOUNTED SHOE PLATE

NOTE:
IT'S THE RESPONSIBILITY OF THE OWNER'S GENERAL CONTRACTOR TO SECURE SHOE PLATE TO THE FLOOR CONSTRUCTION.

FILE NO. 186-178 REV. 9

DIMENSIONS IN MILLIMETRES (DIMENSIONS IN FEET - INCHES)

VAULT WALL PANEL

SHOE PLATE

ANCHOR BOLT

SURFACE MOUNTED SHOE PLATE

RECESSED MOUNTED SHOE PLATE

NOTE:
IT'S THE RESPONSIBILITY OF THE OWNER'S GENERAL CONTRACTOR TO SECURE SHOE PLATE TO THE FLOOR CONSTRUCTION.