

Technical drawing of a rectangular plate with two rows of five oval holes. The top view shows a width of 23 1/2 inches and a hole pitch of 1 1/2 inches typical. The side view shows a thickness of 2 inches and a total height of 23 1/2 inches, with a 3-inch section at the top and bottom.

28 1/2"

DEETER #2433
(OR EQUAL)

(REQUIRES ONE GRATE)
OPEN AREA 184 SQ. IN.
1.28 SQ. FT.

2 1/4"

2 1/4"

29 1/4"

2 1/4"

24 3/4"

21 3/4"

4"

2"

Technical drawing of a rectangular gate. The drawing shows a central rectangular area with a double border. The overall width is 52" and the overall height is 29 1/4". The inner rectangular area has a width of 48" and a height of 29". The text "DEETER #2434 (OR EQUAL)" is centered in the inner area, with "(REQUIRES TWO GRATES)" below it. Below that, the text "OPEN AREA 368 SQ. IN. 2.56 SQ. FT." is centered. The drawing includes dimension lines and arrows indicating the measurements.

52"

29 1/4"

48"

2"

DEETER #2434 (OR EQUAL)

(REQUIRES TWO GRATES)

OPEN AREA 368 SQ. IN.
2.56 SQ. FT.

Diagram illustrating the cross-section of a brick chimney structure, showing the brickwork, concrete top, and internal components.

Top Section:

- IF ASPHALT PAVEMENT, CONSTRUCTION LIMITS FOR CONCRETE TOP.
- Top width: $24 \frac{3}{4}"$
- Top thickness: $2 \frac{1}{4}"$
- Internal width: $1 \frac{1}{2}"$
- Internal thickness: $1 \frac{1}{2}"$
- Top reinforcement: $2 \frac{1}{4}"$

Brickwork Section:

- Brickwork is shown in cross-section, with a central opening.
- Brickwork thickness: $18" \text{ TYP.}$
- Brickwork height: $2" \text{ TYP.}$

Base Section:

- Base material: STD. CONC. PAVING MIX
- Base width: $3'-6"$
- Base height: $3'-6"$
- Base reinforcement: NO 4 BARS @ $12" \text{ CTRS. BOTH WAYS}$
- Base opening: Varies
- Base material: FLOOR SHAPING (8 SACK SAND MIX)

Other Labels:

- NO.1 COMMON BRICK

—FLOOR SHAPING
(8 SACK SAND MIX)

NO 4 BARS @ 12" CTRS.
BOTH WAYS

- IF ASPHALT PAVEMENT,
CONSTRUCTION LIMITS
FOR CONCRETE TOP.

FLOOR SHAPING
(8 SACK SAND MIX)

NO 4 BARS @ 12" CTRS.
BOTH WAYS

IF ASPHALT PAVEMENT,
CONSTRUCTION LIMITS
FOR CONCRETE TOP.

24"

2 1/4"

2 1/4"

5"

18" TYP.

VARIES (3'-0" MIN.)

BRICK MASONRY

FLOOR SHAPING
(8 SACK SAND MIX)

STD. CONC. PAVING MIX

VARIES

3'-6"

6"

2" CLR.(TYP.)

NO 4 BARS @ 12" CTRS.
BOTH WAYS

2" TYP.

P.W.T.

ORIFICE EQUATION		
$Q=C*A*\sqrt{2gh}$		$C=0.60$
h (DEPTH)	#2433 (SINGLE)	#2434 (DOUBLE)
0.1	1.95 cfs	3.89 cfs
0.2	2.75 cfs	5.50 cfs
0.3	3.37 cfs	6.74 cfs
0.4	3.89 cfs	7.78 cfs
0.5	4.35 cfs	8.70 cfs
0.6	4.77 cfs	9.53 cfs
0.7	5.15 cfs	10.30 cfs
0.8	5.50 cfs	11.01 cfs
0.9	5.84 cfs	11.67 cfs
1.0	6.15 cfs	12.30 cfs

DROP INLET DETAILS

Design C.O.W.	Checked by	Checked by	12 / 36
Drawn by	Date	Date	Job No.