

ALL METAL PARTS SPECIFIED IN 680.26(B) MUST BE BONDED TO AN EQUIPOTENTIAL BONDING GRID WITH A SOLID COPPER CONDUCTOR NOT SMALL THAN 8 AWG. THE TERMINATION OF THE BONDING CONDUCTOR MUST BE MADE BY EXOTHERMIC WELDING, LISTED PRESSURE CONNECTORS, OR LISTED CLAMPS THAT ARE LABELED AS SUITABLE FOR THE PURPOSE. THE EQUIPOTENTIAL BONDING GRID MUST EXTEND UNDER PAVED WALKING SURFACES FOR 3 FEET HORIZONTALLY FROM THE WATER (680.26(C)).

THE STRUCTURAL REINFORCING STEEL OF A CONCRETE PERMANENTLY INSTALLED POOL, OUTDOOR SPA, OR OUTDOOR HOT TUB, TIED TOGETHER BY THE USUAL STEEL TIE WIRES.

THE EQUIPOTENTIAL BONDING GRID CAN BE CONSTRUCTED WITH 8 AWG BARE SOLID COPPER CONDUCTORS BONDED TO EACH OTHER AT ALL POINTS OF CROSSING BY EXOTHERMIC WELDING, LISTED PRESSURE CONNECTORS OF THE SET SCREW OR COMPRESSION TYPE, LISTED CLAMPS, OR OTHER LISTED FITTINGS (250.8).

EXCEPTION: THE EQUIPOTENTIAL BONDING GRID SHALL NOT BE REQUIRED TO BE INSTALLED UNDER THE BOTTOM OR VERTICALLY ALONG THE WALLS OF VINYL LINED POLYMER WALL, FIBERGLASS COMPOSITE, OR OTHER POOLS CONSTRUCTED OF NON-CONDUCTIVE MATERIALS.

GENERAL NOTES:

- 1) Per UL listing, pool motors require GFCI protection
- 2) FSPA requires the motor controller to be capable of 2 speeds, a time clock will not satisfy this unless it has 2 trip settings.
- 3) If heater installed (other than solar), it must comply with FBC-EC403.9.1 & have a cover per 403.9.3 (this applies to mechanical (not solar) heaters--cover required)
- 4) Outdoor swimming pools shall be provided with a barrier complying with Sections R4501.17.1.1 through R4501.17.1.14.
- 5) NEC 680.26(C) requires a conductive metal part of 9 sq. in. in direct contact with the pool water.
- 6) R4501.17.1.9 All doors and windows providing direct access from the home to the pool shall be equipped with an exit alarm complying with UL 217 that has a minimum sound pressure rating of 85 dB at 10 feet.

The diagram illustrates a cross-section of a wall and its connection to a deck. The wall is 6 inches thick and has a height of 3000 PSI. It is reinforced with #3 steel rebar, with one rebar per 12 inches on center for each way. The wall is topped with a 6x6 #10-10 wire mesh. The deck is 8x8 FTG W/ (1) #3 CONT. The water level is indicated by a horizontal line. A note specifies that the soil must be compacted to 90% in max 12" lifts.

DECK

WATER LEVEL

8x8 FTG W/
(1) #3 CONT.

6" WALL &
FLOOR, 3000
PSI

#3 STEEL REBAR
12" O.C. EA WAY

NOTE: SOIL MUST BE COMPACTED
TO 90% IN MAX 12" LIFTS

6x6 #10-10 WIRE
MESH, REFER TO NEC
FOR BONDING &
GROUNDING REQ'MNTS

**TYPICAL
WALL
SECTION**

ENGINEERING NOTES:


1. ALL WORK IS TO COMPLY WITH ALL APPLICABLE CODES AND ORDINANCES.
2. CONSTRUCTED OF 3000 PSI CONCRETE OR EQUAL WITH #3 REBAR 12" O.C. EACH END AT EVERY OTHER INTERSECTION. MIN COVER FOR REBAR IS 2.5" MIN OVERLAP IS 18".
3. N/A
4. ASSUMED SOIL BEARING = 2 KSF
5. CORROSION SYSTEMS, COMPONENTS, & EQUIPMENT SHALL COMPLY W/ NSF 50
6. INSTALL CONTROL JOINTS @ 20'-0" ON CENTER IN POOL DECKING.
7. PLANS TO CONFORM TO NEC 2020
8. 2023 FBC REVISION 8th EDITION

ANSI-SP-1

CONCRETE STAIRS ARE 12" TREAD WIDTH AND 10" MAXIMUM HEIGHT

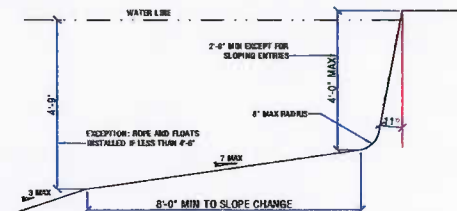
AND ALL CONSTRUCTION SHALL COMPLY WITH ANSI-5-03, 2020 NEC ARTICLE 680, & ANSI-NSPI 3-99 IN-GROUND SPA CONSTR.

***11. ENGINEERS DESIGN IS FOR STRUCTURAL ONLY. DESIGN OF PIPING/EQUIPMENT ETC.**

BY POOL CONTRACTOR 

FENCE REQUIREMENTS:

1. MINIMUM 48" HEIGHT
2. 2" MAX VERTICAL CLEARANCE BETWEEN GRADE & BARRIER BOTTOM.
3. MAX OPENING SHALL NOT ALLOW PASSAGE OF 4" SPHERE.
4. FENCE POSTS WILL BE LOCATED ON POOL-SIDE OF FENCE.
5. GATE WILL BE SELF-LOCKING WITH APPROVED LOCKING DEVICE.



OPTIONAL
10" x 12" DEEP STRIP FOOTING
w/ (2) #5s CONTINUOUS

PAVERS BY CONTRACTOR

2" SAND BASE

COPING BY CONTRACTOR

WATER LEVEL

4" COMPACTED STONE BASE

6" WALL & FLOOR, 3000 PSI

#3 STEEL REBAR
12" O.C. EA WAY

NOTE: SOIL MUST BE COMPACTED TO 90% IN MAX 12" LIFTS

ALTERNATIVE TYPICAL WALL SECTION

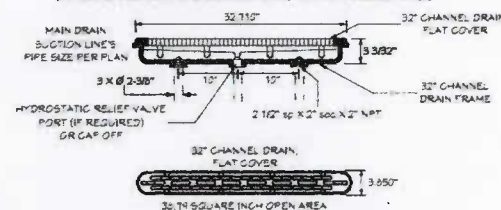
NOTE: IF ANY PART OF THE POOL ENCHRONES UPON THE ANGLE OF REPOSE, PLUG STEEL @ 6" o.c. EA WAY IN AREAS OF QUESTION

ALTERNATIVE TYPICAL WALL SECTION

NOTE: IF ANY PART OF THE POOL
ENCROACHES UPON THE ANGLE OF
REPOSE, PLACE STEEL @ 6" o.c. EA WAY
IN AREAS OF QUESTION

MODEL
** CUSTOM MOLDED PRODUCTS - C-MP# 25506-32X-000 32" CHANNEL DRAIN COVER
W/ CMP# 25508-320-010 PUMP - 3 PORTS**
ONE PORT CENTER 200 GPM. ON FLOOR & 165 GPM. ON WALL W/ 2 1/2" PLUMBING
OUTER 2 PORTS 305 GPM. ON FLOOR & 212 GPM. ON WALL W/ 2 1/2" PLUMBING
OPEN AREA OF SUCTION COVER 36.19 SQ IN

“NOT APPROVED FOR THREE PORT CONNECTION”
(DO NOT EXCEED MAX. FLOW-SUCTION RATE) CAP OFF UNUSE



- * owner will be having a screen enclosure constructed.
- * no pool heater

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ENGINEER'S SEAL

IGC
CA
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PAUL D. RIDDLE, P.E.
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A CUSTOM DESIGN FOR
THE FOXX
RESIDENCE
AQUATIC ART

Page:

1 of 3

3/16" = 1'-0" SCALE

