

STEEL AT SKIMMER BEAM DETAIL BEND REBAR AROUND SKIMMER NOTCH-OUT FOR CONTINUOUS BEAM (2) #3 BARS (2" MIN. COVERAGE) _POOL SHELL STEEL #3 BAR @ 12" O.C.E.W.

Determine System Flow Rate:
Minimum Flow Rate Required: 35gpm per skimmer (Required: 1 Skimmer per 800 sf)

ave depth x 7.481 gal/cf = 15,000

gallons

SAMPLE ONLY. EACH APPLICATION FOR PERMIT SHALL BE BASED ON A TOTAL DYNAMIC HEAD OF 60 $\hat{\pi}$.

PUMPS 3 HP AND LESS SHALL MEET ANSI/UL 1081
CORROSION RESISTANT WITH STRAINER AND MEET
THE REQUIRED FLOW.

SURFACE SKIMMERS SHALL MEET NSF 50 AND
THERE SHALL BE ONE FOR EVERY 800 SQUARE FEET
OF SURFACE AREA.

APPROVED MANUFACUTRED INLET FITTINGS FOR THE
RETURN OF RECIRCULATED POOL WATER SHALL BE
PROVIDED ON THE BASIS OF AT LEAST ONE PER 300
SQUARE FEET (28 m2) OF SURFACE AREA. SUCH INLET
FITTINGS SHALL BE DESIGNED AND CONSTRUCTED TO
INSURE AN ADEQUATE SEAL TO THE POOL STRUCTURE
AND SHALL INCORPORATE A CONVENIENT MEANS OF
SEALING FOR PRESSURE TESTING OF THE POOL
CIRCULATION PIPING. WHEN MORE THAN ONE INLET IS
CONTROLLED THE ROCETEST INSTANCE BETWEEN ANY THE

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FLORIDA BUILDING CODE R4501

SKIMMER REQUIRED
FOR SPA WITH
INDEPENDENT
FILTRATION SYSTEM

CODES INCLUDING PLUMBING, ELECTRICAL AND GAS. PIPING SHALL BE SCH. 40 PVC, NSFpw, MAX. PRESSURE VELOCITY 10 FPS, SUCTION 6 FPS.
THE POOL PLAN SHALL SHOW THE DESIGN PLUMBING AS PER THE SAMPLE WITH THE INFORMATION REQUIRED SHOWN. MAIN DRAIN PLUMBING SHALL BE TWO DRAINS SEPARATED BY 3' WITH APPROVED ANSI/ASME A112.19.8.2009 COVERS. AS AN ALTERNATE THE APPROVED DRAINS MAY BE PLACED ON DIFFERENT PLANES. THE TWO DRAINS SHALL HAVE A COMMON SUCTION LINE. SUCTION GRATES MAY BE USED IF APPROVED A MAXIMUM THE FLORIDA BUILDING CODE, AND ALL CONSTRUCTION SHALL MEET ALL APPLICABLE FURNISHING ALL DETAIL DESIGN REQUIREMENTS FOR EACH INDIVIDUAL POOL IN ACCORDANCE WITH THE POOL CONTRACTOR IS RESPONSIBLE FOR

-MAXIM 28", M -FLOOR: -STEPS: I RISER THE SI BE UN INTER TURNO

UM WATER DEPTH 4', MAXIMUM SEAT DEPTH AX.

SPECIAL SPA REQUIREMENTS:

OR SLOPE 1:12

OR SLOPE 1:12

PS: MIN. TREAD 10" X 12", 7" MIN. RISER, 12" MAX. PS: MIN. TREAD 10" X 12", 7" MIN. RISER, 12" MAX. PS: MIN. TREAD 10" X 12", 7" MIN. RISER, 12" MAX. PS: REXCEPT THE BOTTOM STEP MAY BE 14" IF IT IS IE SEAT. INTERMEDIATE TREADS AND RISERS TO ELUNIFORM. IF THE SPA IS OPERATED TERMITTENTLY IT SHALL HAVE A ONE HOUR TRANOVER, IF CONTINUOUS A SIX HOUR TURNOVER. RIRNOVER, IF CONTINUOUS A SIX HOUR TURNOVER. RIRNOVER, IT ANSINGSI ARTICLE XVII, SAFETY SIGNS. SSURE TEST PIPING AT 35 PSI FOR 15 MINUTES OR SET LOCAL CODE IF GREATER.

RAIL OPTIONAL

STEPS OPTIONAL

CIRCULATION: LINE

MAIN DRAIN REQUIRE (TAMPER PROOF/SEE NOTES)

PROTECTION AND
MUST BE DESIGNED FOR A MINIMUM 25 gpm.
THE FOLLOWING SHALL BE LABELED WITH
LABEL MARKER TAPE AT THE FILTER LOCATION: PIPES, VALVES, PUMP(S) OFF SWITCH.

OF 1 ½ FPS AND THE SUCTION PIPING IS RECESSED FROM THE GRATE THE DISTANCE EQUAL TO THE

-MEET A INSTR -PRESSU MEET

SUCTION PIPE SIZE. SKIMMERS DO NOT REQUIRE

GENERAL SPA PLAN

> NO LIMITATIONS ON SHAPE > LIGHTING & BONDING SAME AS POOL

-WIRING AND BONDING AND ALL ELECTRICAL TO COMPLY WITH CHAPTER 27, 2023 FLORIDA BUILDING CODE 8TH EDITION-RESIDENTIAL AND NEC 2020.

PROVIDE END WHI MM). IN I FEET (15: UNDERW WHERE A

N PRIVATE POOLS WHERE WATER DEPTH EXCEEDS 5 1524 MM) THERE SHALL BE LADDERS, STAIRS OR LEVANTER BENCHES/ SWIM-OUTS IN THE DEEP END. E MANUFACTURED DIVING EQUIPMENT IS TO BE BENCHES OR SWIM-OUTS SHALL BE RECESSED OR ED IN A CORNER.

3" MIN. STEEL COVERAGE

Pool Volume: 500 sq. ft x. 4 ave depth x. Turnover Time in Hours: 6 hours x 60 min/hr = Flow Rate: 15,000 gallons / 360 minutes = hours x 60 min/hr = 360 minutes gpm 3,-0" 01 MIN. GRATE OPEN AREA = FLOW/17.8 FOR VELOCITY 6/SEC MAIN DRAINS AS OF 12-19-08 ANSI/ASME A112.19.8-2007 POOL CLEANER

FOOTING OPTIONAL

PAVERS OR 4" DECK 2,500 psi (Min.) CONC. W/FIBER MESH

DECK FINISH -PER CONTRACT (NON-SLIP)

PROVIDE EXPANSION JOINT MATERIAL FOR POURED DECK CONDITION

4 3 2 2 2

35 GPM 60 90 135 235

65 GPM 105 147 230 396

PIPE

SUCTION

PRESSURE

PIPE SIZING CHART (MAXIMUN)

CONFIRM WITH OWNER

FOR POOLS WITH VOLUME = 15,000 GALS.

FOR BONDING AND GROUNDING SYSTEMS FOR SWIMMING POOLS, THE USE OF AN UNDERGROUND BONDING CONDUCTOR MADE OF #8 AWG. BARE SOLID COPPER WIRE BURIED TO A MINIMUM DEPTH OF 4 INCHES TO 6 INCHES BELOW SUBGRADE, AND 18 TO 24 INCHES FROM INSIDE WALL OF A SWIMMING POOL OR SPA, IS DEEMED A PERMISSIBLE ALTERNATIVE OR EQUIVALENT TO COMPLIANCE

WITH s. 680.26(c) OF THE NATIONAL ELECTRICAL CODE.

SB836, 6-20-07

POOL/SPA, DECK, BEAM, WALL, FLOOR

CLEANER/VAC PIPE SIZE 12"

SKIMMER SUCTION PIPE SIZE 2" MAIN SUCTION PIPE SIZE 2"

RETURN SUCTION PIPE SIZE 12"

LOCATION

RESIDENCE

COMPLIES

VITH 2023 FLORIDA BUILDING CODE, 8TH EDITION

965h

6" Min. WALL & FLOOR THICKNESS. 3,000 psi (MIN.) CONC. #3 BARS ON 12" CENTERS EITHER WAY, TIE ALT. INTERSECTIONS 15" MIN. OVERLAP 2" MIN.COVERAGE ON STEEL W/CONC. TO ASTM A15, A16, ASTM A30-5

FINISH ¾*
MARCITE OR
EXPOSED
AGGREGATE

PER CONTRACT

MAIN DRAIN: HAYWARD W61048E FILTER: STARITE PTM 50, 50 GPM OR HAYWARD C751, 75 GPM CAPACITY TURNOVER RATE = 6 HOURS = 360 MINS. PUMP: STARITE P6E6DL OR HAYWARD SUPERII 1/4 HP 42 GPM 60' TURN

CLEANER: HAYWARD VAC LOC

BEAM & "7" BAR OPTIONAL

OR (1) #5 BAR

8" X 8" FOOTING W/(2) #3 BARS

Structural subject to suitable soil conditions.

ELECTRICAL REQUIREMENTS:

-NO OUTLET OR OVERHEAD POWER WITHIN 10' IF WITHIN 15' PROTECT BY GFI, TRANSFORMER MIN. 10' FROM POOL, 8" ABOVE WATER, J BOX 4' FROM POOL, BRASS TO J BOX OR TRANSFORMER WHICH EVER IS FIRST EXCEPT WHERE PVC IS APPROVED

-FILTER

EQUII THE M -CIRCUI

LATION SYSTEMS, COMPONENTS AND PMENT SHALL COMPLY WITH NSF 50.
AXIMUM TURNOVER RATE IS 12 HOURS. IS SHALL HAVE AN AIR RELEASE AND

R403.10 (POOLS & -DISINFE NSF 50 WASTE

IT HAS BEEN CERTIFIED THAT THESE DESIGN
REQUIREMENTS ARE IN COMPLIANCE WITH THE
2023 FLORIDA BUILDING CODE 8TH EDITION, R4501,
ANSI/APSP/ICC 3, ANSI/APSP/ICC 4, ANSI/APSP/ICC 5, AND
ANSI/APSP/ICC 6 AND ANSI/APSP/ICC 7, ANSI/APSP/ICC 14,
ANSI/APSP/ICC 15.

-DESIGN, CONSTRUCTION AND WORKMANSHIP SHALL BE IN CONFORMITY WITH THE REQUIREMENTS OF APSP/ICC 3, APSP/ICC 4, APSP/ICC 5, AND APSP/ICC 6 AND APSP/ICC 7 BASED ON THE POOL TYPE.

-SEE NSPI FOR DIVING WATER ENVELOPES.
-SLIDES SHALL MEET THE MANUFACTURE'S

GENERAL DESIGN REQUIREMENTS

INSTALLATION REQUIREMENTS.
-ALL POOLS WHETHER PUBLIC OR PRIVATE SHALL BE PROVIDED WITH A LADDER OR STEPS IN THE SHALLOW

ERE THE WATER DEPTH EXCEEDS 24 INCHES (610

AQUATIC ENGINEERING CONSULTANTS

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STANDARD RESIDENTIAL POOL

G.B. COLLINS ENGINEERING P.A. CERTIFICATE OF AUTHORIZATION 27934

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AQUASCAPE POOLS

AND/OR SPA DESIGN

SEALING FOR PRESSURE TESTING OF THE POOL CIRCULATION PIPING. WHEN MORE THAN ONE INLET IS REQUIRED, THE SHORTEST DISTANCE BETWEEN ANY TWO REQUIRED INLETS SHALL BE AT LEAST 10 FEET (3048 MM).

-HEATER SHALL MEET ANSI-Z21.56 OR UL 1261 OR UL 559. CTANT EQUIPMENT SHALL COMPLY WITH

RESIDENTIAL SWIMMING BARRIER REQUIREMENTS TO JRE TEST PIPING AT 35 PSI FOR 15 MINUTES OR LOCAL CODE IF GREATER.

DISPOSAL TO COMPLY WITH SECTION 454.2.10

POOLS & PERMANENT SPA ENERGY CONSUMPTION
- THE ENERGY CONSUMPTION OF POOLS AND PERMANENT
SPAS SHALL BE IN ACCORDANCE WITH SECTIONS \$\(\text{R403.10.1} \)
THROUGH \$\(\text{R403.10.5} \). (MANDATORY)