

SOLAR COIL, LLC

(PASSIVE SOLAR WATER HEATER)

INSTALLATION ANCHORAGE DETAILS

GENERAL NOTES:

1. THE SC092809BK IS DESIGNED AND TESTED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE (FBC) AND TEST PROTOCOLS TAS-201 (IMPACT), TAS-202 (UNIFORM STATIC PRESSURE), AND TAS 203 (CYCLIC FATIGUE). THE SC092809BK HAS BEEN TESTED IN ACCORDANCE WITH TAS100(A)-95 (WIND DRIVEN RAIN).
2. IN AREAS WHERE WIND-BORNE DEBRIS PROTECTION REQUIREMENTS EXIST, USE OF AN APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED.
3. FRAME: ABS BACK COVER
Plastic data not provided.
4. GLAZING:
 - 4.1. MATERIAL: 0.375" THICK MAKROLON SL POLYCARBONATE GLAZING MEETING ~~NOA NO. 08-0926-15~~ (MIAMI-DADE COUNTY REQUIREMENTS)
 - 4.2. SMOKE DENSITY RATING ACCORDING TO ASTM D2843 TESTING IS 57.7 WHICH IS LESS THAN 75 REQUIRED BY SECTION ~~2606.4~~ OF THE FLORIDA BUILDING CODE AND MIAMI-DADE REQUIREMENTS. (2612)
 - 4.3. RATE OF BURNING CLASS IS CC1 ACCORDING TO ASTM D635 WHICH MEETS SECTION ~~2606.2~~ OF THE FLORIDA BUILDING CODE AND MIAMI-DADE REQUIREMENTS. (2612)
 - 4.4. SELF IGNITION TEMPERATURE IS 1022 DEG. F ACCORDING TO ASTM D1929 WHICH IS GREATER THAN 650 DEG. F REQUIRED BY SECTION ~~2606.4~~ OF THE FLORIDA BUILDING CODE AND MIAMI-DADE REQUIREMENTS. (2612)
5. INSULATION:
 - 5.1. MATERIAL: BAY SEAL CC, CLOSED CELL POLYURETHANE FOAM BRAND INSULATION, (CC ES REPORT NO. ESR-2072)
 - 5.2. FLAME SPREAD INDEX ACCORDING TO ASTM E84 TESTING IS LESS THAN 75 REQUIRED BY SECTION ~~2606.4~~ OF THE FLORIDA BUILDING CODE AND MIAMI-DADE REQUIREMENTS. (2612)
 - 5.3. SMOKE DENSITY INDEX ACCORDING TO ASTM E84 TESTING IS IS LESS THAN 450 REQUIRED BY SECTION ~~2606.4~~ OF THE FLORIDA BUILDING CODE AND MIAMI-DADE REQUIREMENTS. (2612)

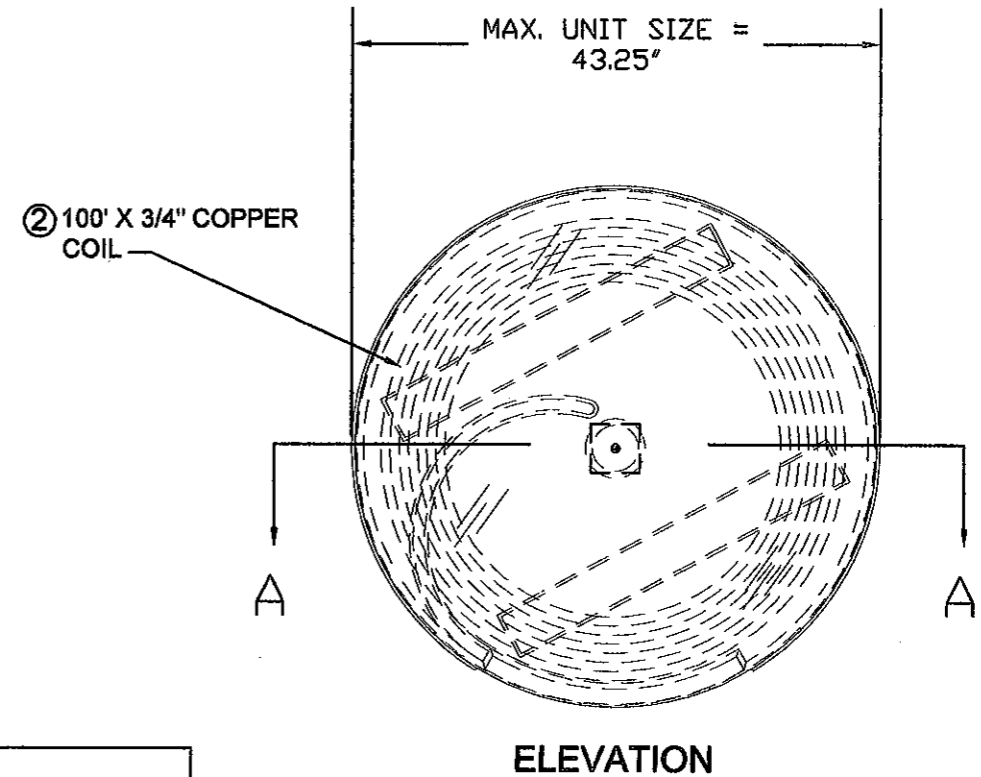



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3	---	PIPING DIAGRAM & WORKING PRESSURES

DESIGN PRESSURE RATING (PSF)	IMPACT RATING
±70.0	LARGE MISSILE IMPACT

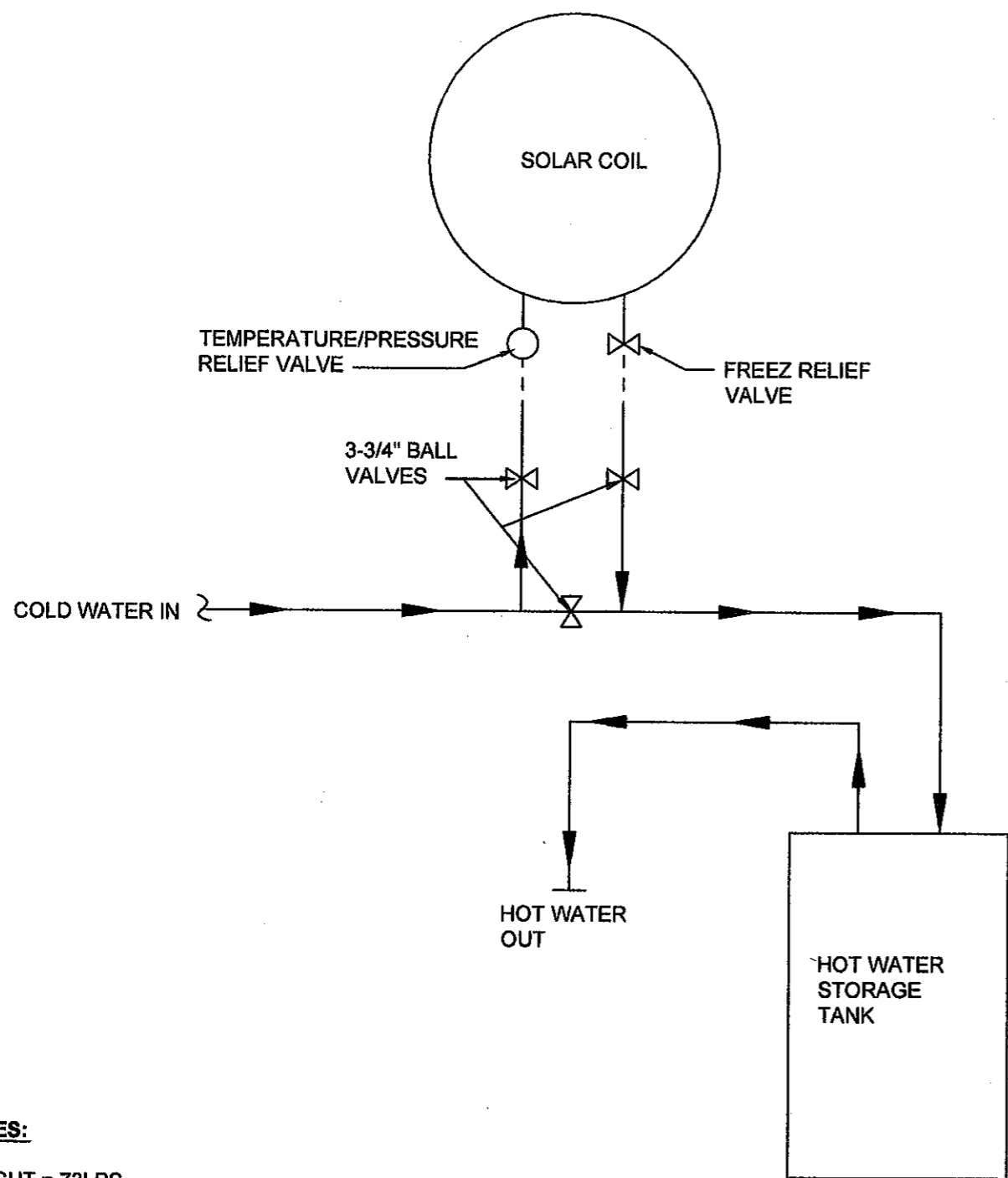
INSTALLATION NOTES:

1. ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN.
2. THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION AT THE TESTED SIZE SHOWN.
3. ANCHORS ARE TO MATCH TYPE, SIZE, AND SPACING OF THOSE SHOWN HEREIN.
4. FOR INSTALLATION INTO ROOF DECKING, USE 1/4" SNAPTGGLE 6" IN LENGTH TO ACHIEVE FULL ENGAGEMENT INTO ROOF DECKING. WHERE CONFLICT OCCURS BETWEEN FASTENER LOCATION AND EXISTING WOOD TRUSSES ANCHOR DIRECTELY WITH 5/16" X 6" GALVANIZED LAG BOLTS.
5. ALL ROOFING MATERIALS SHALL COMPLY WITH CHAPTER 15 OF THE FLORIDA BUILDING CODE. 4" MINIMUM DISTANCE FROM BASE LIP TO ROOF SURFACE FOR SHINGLE OR BUR W/O INSULATION.

REV	SYM	REVISION


 10/6/2011
 PAUL E. WINTER, P.E.
 Florida P. E. No. 22693

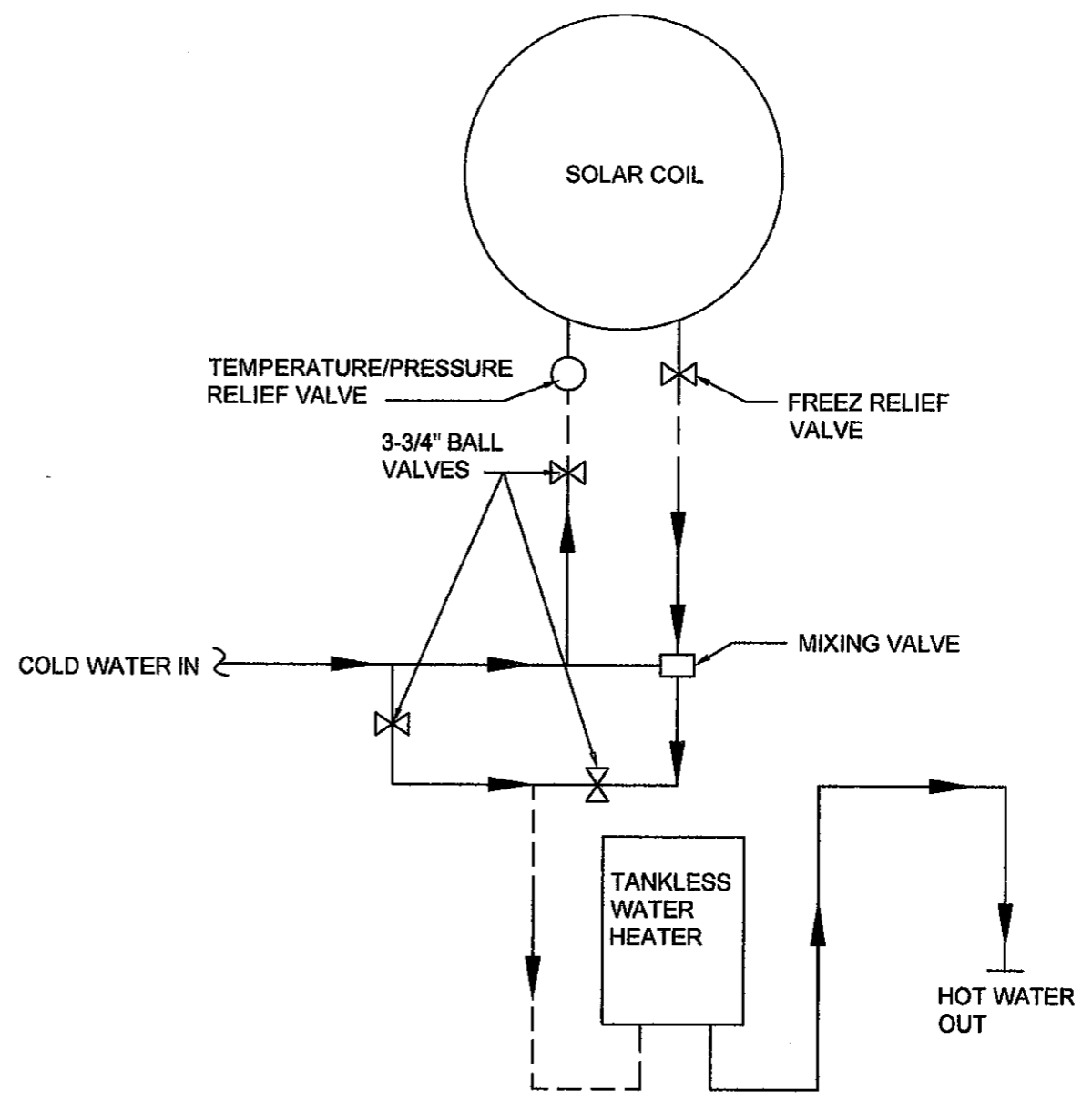
SOLAR COIL, LLC 1257 FLUSHING AVENUE CLEARWATER, FL 33764	
TITLE: SC092809BK PASSIVE SOLAR COLLECTOR GENERAL NOTES AND TABLE OF CONTENTS	
DRN: RM	DATE: 05/31/11
SCALE: N.T.S.	DWG. NO: SC_00
REV:	SHEET: 1 OF 1



**TANK TYPE WATER HEATER
PIPING DIAGRAM**

GENERAL NOTES:

1. SAMPLE WEIGHT = 73LBS
WHEN FULL OF WATER
2. MAXIMUM WORKING PRESSURE
AT 2 X 80 PSI = 160 PSI.



**TANKLESS WATER HEATER
PIPING DIAGRAM**

REV	SYMBOL	REVISION	DATE	BY

Paul Winter
10/6/2011

PAUL E. WINTER, P.E.
Florida P. E. No. 22693

SOLAR COIL, LLC 1257 FLUSHING AVENUE CLEARWATER, FL 33764	
TITLE:	SC092809BK PASSIVE SOLAR COLLECTOR PIPING DIAGRAM & WORKING PRESSURES
DRN:	RM
SCALE:	N.T.S.
REV:	
DATE:	05/31/11
DWG. NO.:	SC_000
SHEET:	3 OF 3