

APPENDIX G

SWIMMING POOLS, SPAS AND HOT TUBS

(The provisions contained in this appendix are not mandatory unless specifically referenced in the adopting ordinance.)

SECTION AG101 GENERAL

AG101.1 General. The provisions of this appendix shall control the design and construction of swimming pools, spas and hot tubs installed in or on the *lot* of a one- or two-family dwelling.

AG101.2 Pools in flood hazard areas. Pools that are located in flood hazard areas established by Table R301.2(1), including above-ground pools, on-ground pools and in-ground pools that involve placement of fill, shall comply with Sections AG101.2.1 or AG101.2.2.

Exception: Pools located in riverine flood hazard areas which are outside of designated floodways.

AG101.2.1 Pools located in designated floodways. Where pools are located in designated floodways, documentation shall be submitted to the *building official*, which demonstrates that the construction of the pool will not increase the design flood elevation at any point within the *jurisdiction*.

AG101.2.2 Pools located where floodways have not been designated. Where pools are located where design flood elevations are specified but floodways have not been designated, the applicant shall provide a floodway analysis that demonstrates that the proposed pool will not increase the design flood elevation more than 1 foot (305 mm) at any point within the *jurisdiction*.

SECTION AG102 DEFINITIONS

AG102.1 General. For the purposes of these requirements, the terms used shall be defined as follows and as set forth in Chapter 2.

ABOVE-GROUND/ON-GROUND POOL. See "Swimming pool."

BARRIER. A fence, wall, building wall or combination thereof which completely surrounds the swimming pool and obstructs access to the swimming pool.

HOT TUB. See "Swimming pool."

IN-GROUND POOL. See "Swimming pool."

RESIDENTIAL. That which is situated on the premises of a detached one- or two-family dwelling or a one-family *townhouse* not more than three stories in height.

SPA, NONPORTABLE. See "Swimming pool."

SPA, PORTABLE. A nonpermanent structure intended for recreational bathing, in which all controls, water-heating and water-circulating *equipment* are an integral part of the product.

SWIMMING POOL. Any structure intended for swimming or recreational bathing that contains water over 24 inches (610

mm) deep. This includes in-ground, above-ground and on-ground swimming pools, hot tubs and spas.

SWIMMING POOL, INDOOR. A swimming pool which is totally contained within a structure and surrounded on all four sides by the walls of the enclosing structure.

SWIMMING POOL, OUTDOOR. Any swimming pool which is not an indoor pool.

SECTION AG103 SWIMMING POOLS

AG103.1 In-ground pools. In-ground pools shall be designed and constructed in conformance with ANSI/NSPI-5 as listed in Section AG108.

AG103.2 Above-ground and on-ground pools. Above-ground and on-ground pools shall be designed and constructed in conformance with ANSI/NSPI-4 as listed in Section AG108.

AG103.3 Pools in flood hazard areas. In flood hazard areas established by Table R301.2(1), pools in coastal high hazard areas shall be designed and constructed in conformance with ASCE 24.

SECTION AG104 SPAS AND HOT TUBS

AG104.1 Permanently installed spas and hot tubs. Permanently installed spas and hot tubs shall be designed and constructed in conformance with ANSI/NSPI-3 as listed in Section AG108.

AG104.2 Portable spas and hot tubs. Portable spas and hot tubs shall be designed and constructed in conformance with ANSI/NSPI-6 as listed in Section AG108.

SECTION AG105 BARRIER REQUIREMENTS

AG105.1 Application. The provisions of this chapter shall control the design of barriers for residential swimming pools, spas and hot tubs. These design controls are intended to provide protection against potential drownings and near-drownings by restricting access to swimming pools, spas and hot tubs.

AG105.2 Outdoor swimming pool. An outdoor swimming pool, including an in-ground, above-ground or on-ground pool, hot tub or spa shall be surrounded by a barrier which shall comply with the following:

1. The top of the barrier shall be at least 48 inches (1219 mm) above *grade* measured on the side of the barrier which faces away from the swimming pool. The maximum vertical clearance between grade and the bottom of

- the barrier shall be 2 inches (51 mm) measured on the side of the barrier which faces away from the swimming pool. Where the top of the pool structure is above grade, such as an above-ground pool, the barrier may be at ground level, such as the pool structure, or mounted on top of the pool structure. Where the barrier is mounted on top of the pool structure, the maximum vertical clearance between the top of the pool structure and the bottom of the barrier shall be 4 inches (102 mm).
2. Openings in the barrier shall not allow passage of a 4-inch-diameter (102 mm) sphere.
 3. Solid barriers which do not have openings, such as a masonry or stone wall, shall not contain indentations or protrusions except for normal construction tolerances and tooled masonry joints.
 4. Where the barrier is composed of horizontal and vertical members and the distance between the tops of the horizontal members is less than 45 inches (1143 mm), the horizontal members shall be located on the swimming pool side of the fence. Spacing between vertical members shall not exceed $1\frac{3}{4}$ inches (44 mm) in width. Where there are decorative cutouts within vertical members, spacing within the cutouts shall not exceed $1\frac{3}{4}$ inches (44 mm) in width.
 5. Where the barrier is composed of horizontal and vertical members and the distance between the tops of the horizontal members is 45 inches (1143 mm) or more, spacing between vertical members shall not exceed 4 inches (102 mm). Where there are decorative cutouts within vertical members, spacing within the cutouts shall not exceed $1\frac{3}{4}$ inches (44 mm) in width.
 6. Maximum mesh size for chain link fences shall be a $2\frac{1}{4}$ -inch (57 mm) square unless the fence has slats fastened at the top or the bottom which reduce the openings to not more than $1\frac{3}{4}$ inches (44 mm).
 7. Where the barrier is composed of diagonal members, such as a lattice fence, the maximum opening formed by the diagonal members shall not be more than $1\frac{3}{4}$ inches (44 mm).
 8. Access gates shall comply with the requirements of Section AG105.2, Items 1 through 7, and shall be equipped to accommodate a locking device. Pedestrian access gates shall open outward away from the pool and shall be self-closing and have a self-latching device. Gates other than pedestrian access gates shall have a self-latching device. Where the release mechanism of the self-latching device is located less than 54 inches (1372 mm) from the bottom of the gate, the release mechanism and openings shall comply with the following:
 - 8.1. The release mechanism shall be located on the pool side of the gate at least 3 inches (76 mm) below the top of the gate; and
 - 8.2. The gate and barrier shall have no opening larger than $\frac{1}{2}$ inch (12.7 mm) within 18 inches (457 mm) of the release mechanism.
 9. Where a wall of a *dwelling* serves as part of the barrier, one of the following conditions shall be met:
 - 9.1. The pool shall be equipped with a powered safety cover in compliance with ASTM F 1346; or
 - 9.2. Doors with direct access to the pool through that wall shall be equipped with an alarm which produces an audible warning when the door and/or its screen, if present, are opened. The alarm shall be listed and *labeled* in accordance with UL 2017. The deactivation switch(es) shall be located at least 54 inches (1372 mm) above the threshold of the door; or
 - 9.3. Other means of protection, such as self-closing doors with self-latching devices, which are *approved* by the governing body, shall be acceptable as long as the degree of protection afforded is not less than the protection afforded by Item 9.1 or 9.2 described above.
 10. Where an above-ground pool structure is used as a barrier or where the barrier is mounted on top of the pool structure, and the means of access is a ladder or steps:
 - 10.1. The ladder or steps shall be capable of being secured, locked or removed to prevent access; or
 - 10.2. The ladder or steps shall be surrounded by a barrier which meets the requirements of Section AG105.2, Items 1 through 9. When the ladder or steps are secured, locked or removed, any opening created shall not allow the passage of a 4-inch-diameter (102 mm) sphere.

AG105.3 Indoor swimming pool. Walls surrounding an indoor swimming pool shall comply with Section AG105.2, Item 9.

AG105.4 Prohibited locations. Barriers shall be located to prohibit permanent structures, *equipment* or similar objects from being used to climb them.

AG105.5 Barrier exceptions. Spas or hot tubs with a safety cover which complies with ASTM F 1346, as listed in Section AG107, shall be exempt from the provisions of this appendix.

SECTION AG106 ENTRAPMENT PROTECTION FOR SWIMMING POOL AND SPA SUCTION OUTLETS

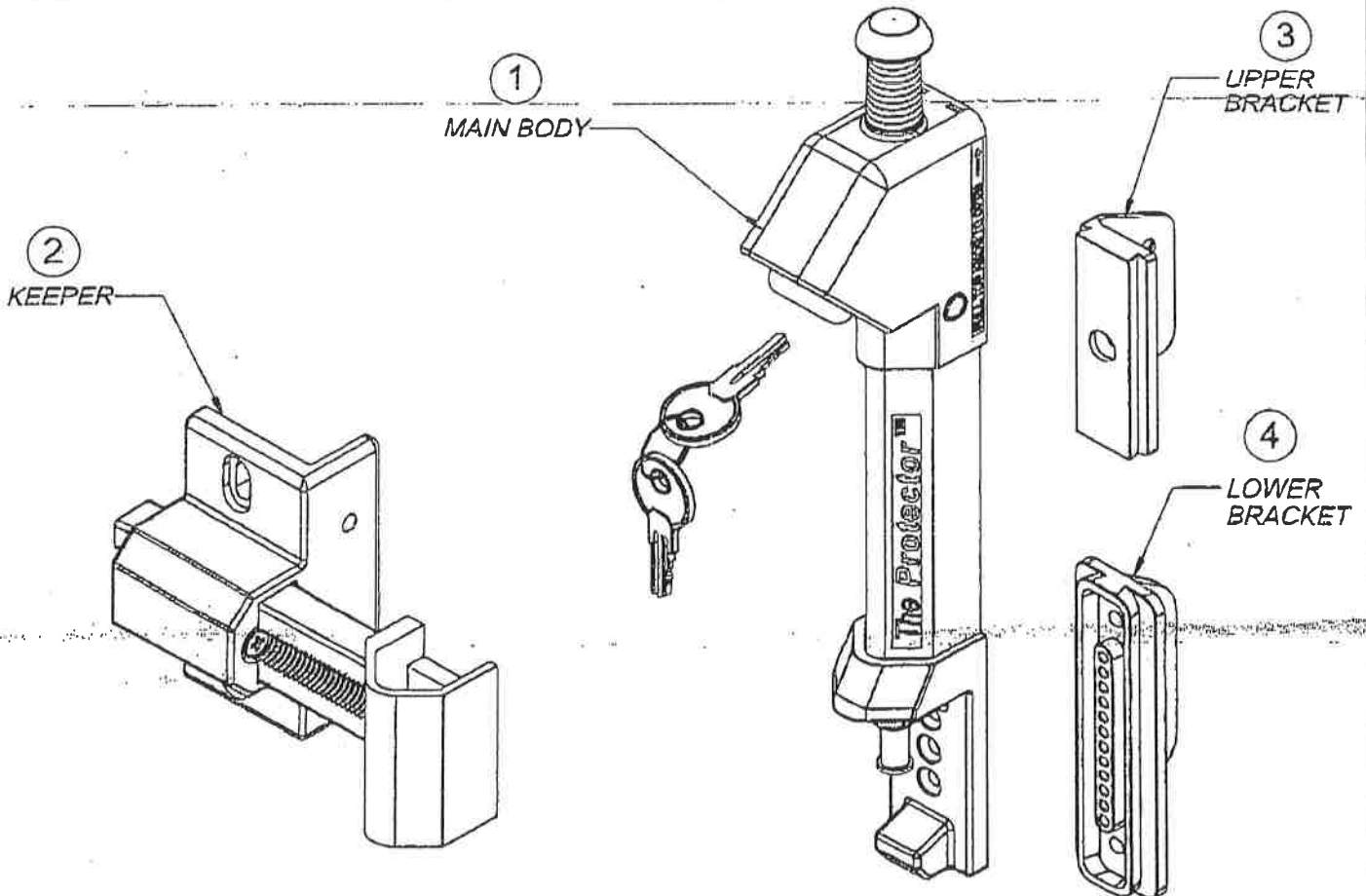
AG106.1 General. Suction outlets shall be designed and installed in accordance with ANSI/APSP-7.

**INSTALLATION, ADJUSTMENT AND
MAINTENANCE INSTRUCTIONS**

PARTS LIST:

1. Gate Latch Main Body Assembly w/2 keys
2. Adjustable Latch Keeper
3. Upper Mounting Bracket
4. Lower Mounting Bracket
5. Screw Pack: Total of 12 screws
 - (6) #10 x 3/4" self-drilling pan head
 - (5) #10 x 3/4" self-drilling flat head
 - (1) #8 x 3/8" flat head
6. Installation and maintenance instructions

Swimming pool fences, gates and latches cannot be substituted for adult supervision. If using this latch on a swimming pool gate, consult all appropriate local authorities for safety requirements.



PROTECTOR[®] INSTALLATION PROCEEDURE

STEP-1

Determine mounting height based upon local code requirements.

STEP-2

Install Upper Bracket using (3) self-drilling flat head screws, as near to the top of the fence post as possible (Fig 2).

STEP-3

Install Lower Bracket:

1.) Align the rear groove in the Main Latch Body with the tab in the Upper Bracket and slide the latch into position. Using a measuring device, locate the top of the latch at the proper height (Fig 1). **"REFER TO ALL LOCAL BUILDING CODES"**

2.) Temporarily insert the Bottom Bracket and align the holes with the (3) countersunk holes at the bottom of the Main Body (Fig 3). With the latch at the proper height, mark the location on the post.

3.) Remove main body and attach the lower bracket with the supplied self-drilling screws: (2) flat head and (2) pan head.

STEP-4

Install Main Latch Body

1.) Re-install main body as described in STEP 3 by sliding over both the Upper and Lower Brackets.

2.) Align the holes of the Latch and the Bottom Bracket making sure that the overall latch height is maintained, and secure with (1) #8 flat head screw (Fig 3).

STEP-5

Install "Keeper"

1.) With gate closed, position keeper and align with Main Latch Body. Secure Keeper to gate with (4) self-drilling pan head screws provided.

STEP-6

Final Adjustments

If any final adjustments are needed, use the Horizontal adjustment screw in the Keeper assembly, and or the Vertical adjustment holes located in the Lower Bracket

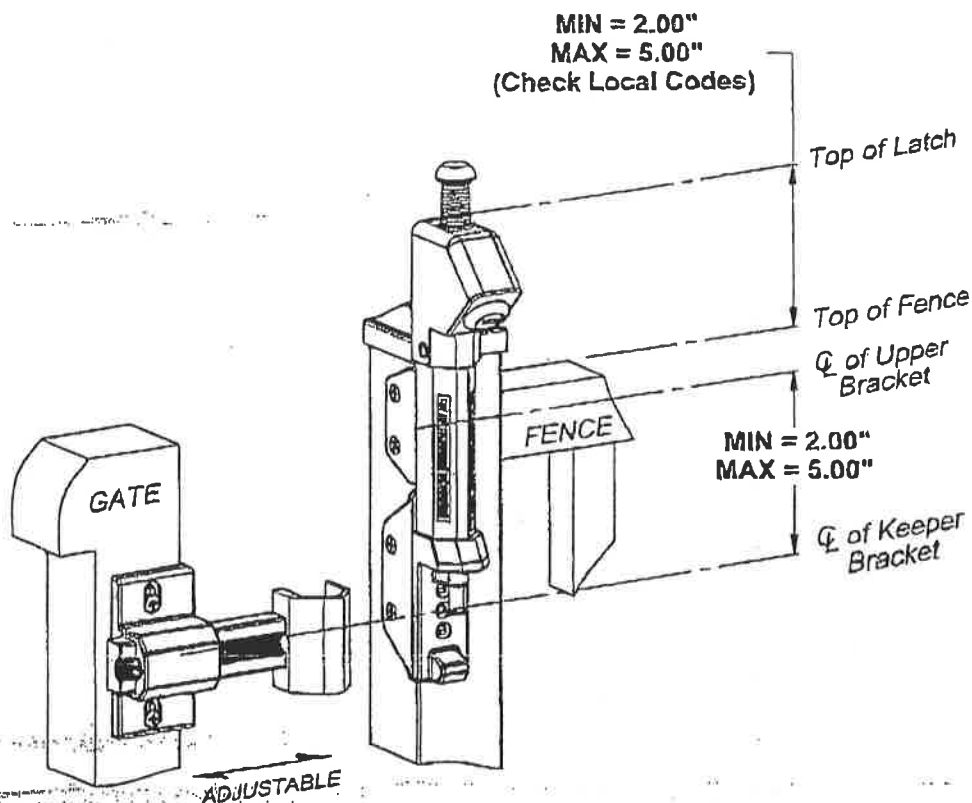


FIGURE 1

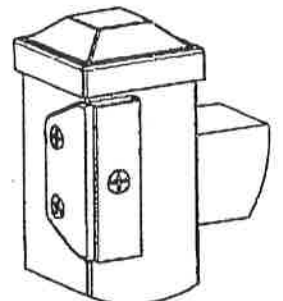


FIGURE 2

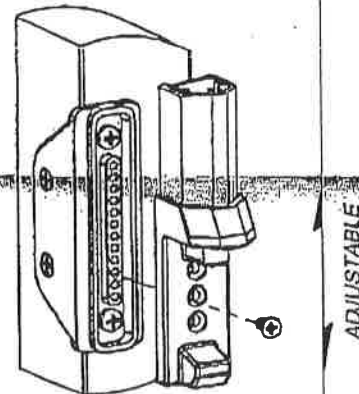


FIGURE 3



MEMO

Date: July 3, 2007

To: To Whom it May Concern

From: Harold Rogers, V.P. Sales

Re: Coverstar safety covers; UL and ASTM standard F 1346-91 for safety covers for swimming pools

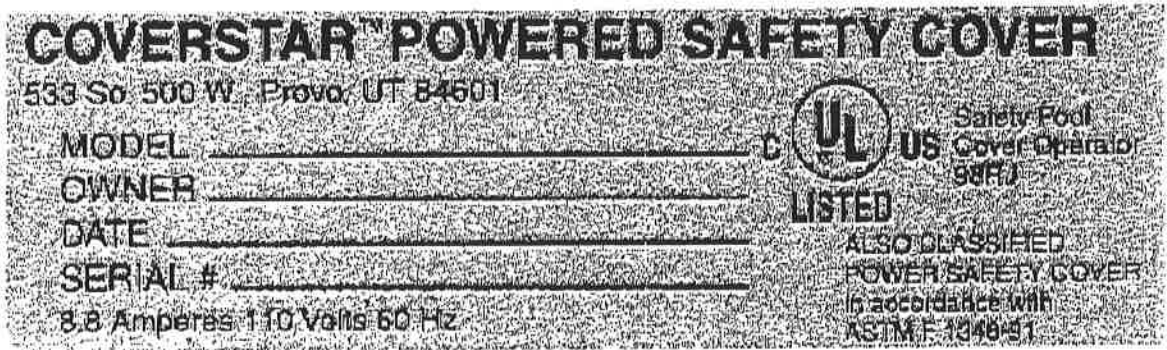
All Coverstar cover systems including the Eclipse (CS 1800 SS), CS1800 (CS 1800), Leading Edge (CS1800 LE), CS1800 SwimWise (CS1800 SW), Omega (CS 1800), CS3000 (CS 1800) are UL listed (UL certification listing is shown in parenthesis). All meet the ASTM standard for safety covers as specified in ASTM standard F 1346-91 when they are installed and maintained properly according to the installation and homeowner instructions which have been provided by Coverstar. On several different occasions, the Coverstar covers, both automatic and manual have been tested by independent testing laboratories and have always been found to be in compliance with all the ASTM requirements for safety covers. Our covers are also listed by UL (File E164833) and classified by UL as a power safety cover in accordance with ASTM F 1346-91

If you wish to verify either of the UL certifications, take the following steps:

- Go to www.ul.com
- Once there click on Search UL.com
- Click on Online Certifications Directory.
- Under General Search click on UL File Number
- Type in E164833 and hit enter
- You should now see Coverstar's listings. If you have problems, you can also search by company or by Automatic Pool Covers

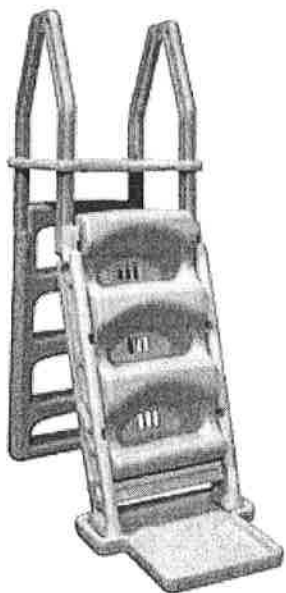
If more information is required about ASTM and its standards, you can go to their website at www.astm.org.

Shown below is the UL authorized label that is attached to the automatic cover system that we ship which shows both UL certification and compliance with ASTM F 1346-91. A label is also placed on the front of every cover stating that we meet the ASTM safety standards.

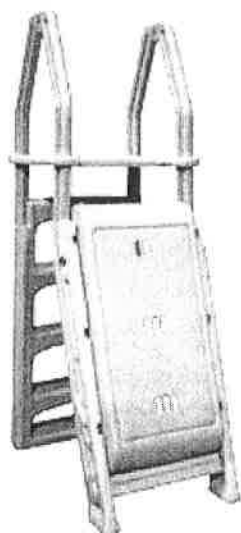


If you have any further questions about our covers, the UL certifications or the ASTM standards, please call or Email me.

L0127 7-3-07



Shown with
footbath



Shown in
"closed"
position