

**APPENDIX A:
FLORIDA STATUTE**

Section 215.5586, Florida Comprehensive Hurricane Damage Mitigation Program –

There is established within the Department of Financial Services the Florida Comprehensive Hurricane Damage Mitigation Program. This section does not create an entitlement for property owners or obligate the state in any way to fund the inspection or retrofitting of residential property in this state. Implementation of this program is subject to annual legislative appropriations. The program shall be administered by an individual with prior executive experience in the private sector in the areas of insurance, business, or construction. The program shall develop and implement a comprehensive and coordinated approach for hurricane damage mitigation that shall include the following:

(1) WIND CERTIFICATION AND HURRICANE MITIGATION INSPECTIONS –

(a) Free home-retrofit inspections of site-built, residential property, including single-family, two-family, three-family, or four-family residential units, shall be offered to determine what mitigation measures are needed and what improvements to existing residential properties are needed to reduce the property's vulnerability to hurricane damage. The Department of Financial Services shall establish a request for proposals to solicit proposals from wind certification entities to provide at no cost to homeowners wind certification and hurricane mitigation inspections. The inspections provided to homeowners, at a minimum, must include:

1. A home inspection and report that summarizes the results and identifies corrective actions a homeowner may take to mitigate hurricane damage.
2. A range of cost estimates regarding the mitigation features.
3. Insurer-specific information regarding premium discounts correlated to recommended mitigation features identified by the inspection.
4. A hurricane resistance rating scale specifying the home's current as well as projected wind resistance capabilities.

(b) To qualify for selection by the department as a provider of wind certification and hurricane mitigation inspections, the entity shall, at a minimum:

1. Use wind certification and hurricane mitigation inspectors who:
 - a. Have prior experience in residential construction or inspection and have received specialized training in hurricane mitigation procedures.
 - b. Have undergone drug testing and background checks.
 - c. Have been certified, in a manner satisfactory to the department, to conduct the inspections.
2. Provide a quality assurance program including a reinspection component.

(2) GRANTS -

Financial grants shall be used to encourage single-family, site-built, owner-occupied, residential property owners to retrofit their properties to make them less vulnerable to hurricane damage.

(a) To be eligible for a grant, a residential property must:

1. Have been granted a homestead exemption under chapter 196.
2. Be a dwelling with an insured value of \$500,000 or less.
3. Have undergone an acceptable wind certification and hurricane mitigation inspection.

A residential property which is part of a multi-family residential unit may receive a grant only if all homeowners participate and the total number of units does not exceed four.

(b) All grants must be matched on a dollar-for-dollar basis for a total of \$10,000 for the mitigation project with the state's contribution not to exceed \$5,000.

(c) The program shall create a process in which mitigation contractors agree to participate and seek reimbursement from the state and homeowners select from a list of participating contractors. All mitigation must be based upon the securing of all required local permits and inspections. Mitigation projects are subject to random reinspection of up to at least 10 percent of all projects.

(d) Matching fund grants shall also be made available to local governments and nonprofit entities for projects that will reduce hurricane damage to single-family, site-built, owner-occupied, residential property.

(e) Grants may be used for the following improvements:

1. Roof deck attachment
2. Secondary water barrier;
3. Roof covering;
4. Brace gable ends;
5. Reinforce roof-to-wall connections;
6. Opening protection; and
7. Exterior doors, including garage doors.

(f) Low-income homeowners, as defined in s.420.0004(9), who otherwise meet the requirements of paragraphs (a) and (c) are eligible for a grant of up to \$5,000 and are not required to provide a matching amount to receive the grant. Such grants shall be used to retrofit single-family, site-built, owner-occupied, residential properties in order to make them less vulnerable to hurricane damage.

(3) EDUCATION AND CONSUMER AWARENESS -

Multimedia public education, awareness, and advertising efforts designed to specifically address mitigation techniques shall be employed, as well as a component to support ongoing consumer resources and referral services.

(4) ADVISORY COUNCIL -

There is created an advisory council to provide advice and assistance to the program administrator with regard to his or her administration of the program. The advisory council shall consist of:

- (a) A representative of lending institutions, selected by the Financial Services Commission from a list of at least three persons recommended by the Florida Bankers Association.
- (b) A representative of residential property insurers, selected by the Financial Services Commission from a list of at least three persons recommended by the Florida Insurance Council.
- (c) A representative of home builders, selected by the Financial Services Commission from a list of at least three persons recommended by the Florida Home Builders Association.
- (d) A faculty member of a state university, selected by the Financial Services Commission, who is an expert in hurricane-resistant construction methodologies and materials.
- (e) Two members of the House of Representatives, selected by the Speaker of the House of Representatives.
- (f) Two members of the Senate, selected by the President of the Senate.
- (g) The Chief Executive Officer of the Federal Alliance for Safe Homes, Inc., or his or her designee.
- (h) The senior officer of the Florida Hurricane Catastrophe Fund.
- (i) The executive director of Citizens Property Insurance Corporation.
- (j) The director of the Division of Emergency Management of the Department of Community Affairs.

Members appointed under paragraphs (a)-(d) shall serve at the pleasure of the Financial Services Commission. Members appointed under paragraphs (e) and (f) shall serve at the pleasure of the appointing officer. All other members shall serve voting ex officio. Members of the advisory council shall serve without compensation but may receive reimbursement as provided in s. 112.061 for per diem and travel expenses incurred in the performance of their official duties.

(5) FEDERAL FUNDING -

The department shall use its best efforts to obtain grants or funds from the federal government to supplement the financial resources of the program.

(6) RULES -

The Department of Financial Services shall adopt rules pursuant to ss. 120.536(1) and 120.54 governing the Florida Comprehensive Hurricane Damage Mitigation Program. The department shall also adopt rules establishing priorities for grants provided under this section based on objective criteria that gives priority to reducing the state's probable maximum loss from hurricanes. However, pursuant to this overall goal, the department may further establish priorities based on the insured value of the dwelling, whether or not the dwelling is insured by Citizens Property Insurance Corporation and whether or not the area under consideration has sufficient resources and the ability to perform the retrofitting required.

APPENDIX B:
EXAMPLE OF A COMPLETED CHECKLIST

Example of a Completed Checklist

The information entered on the checklist represents what the surveyor is to complete for each checklist. Specific notes have been added to clarify the requirements. Be sure to check the appropriate section of this manual for more detailed information.

The photos included in this Appendix show the features of the subject house and should be referred to when checking the features reported.

SR Number: Example

My Safe Florida Home Survey Checklist

Section A Inspector Information	
Date Assigned: _____	WCE: _____ Date Inspected: <u>10-1-06</u>
Inspector: _____	Inspection Company: _____
Start time: <u>10:00 AM</u>	Finish Time: <u>10:45 AM</u>
Dates of Attempted Calls: 1st _____ 2nd _____ 3rd _____	

Section B Owner Information	
Owner's Name: _____	Contact Person: _____
Property Address: _____	Home Phone: _____
City: _____	Work Phone: _____
County: _____	Cell Phone: _____
Zip Code: _____	E-Mail Address: _____
Insurance Co: _____	Policy Number: _____

Section C General Building Information			
Year Built <u>1940</u>	Number of Stories ☒ 1 Story ☐ 2 Story ☐ 3 Story ☐ 4 Story	Foundation ☒ Pier/Piling ☐ Slab on Grade ☐ Stem wall	Foundation Restraint ☐ Anchor Bolts ☐ Cut Nails ☒ Rebar ☐ None

WCE Office to Complete the following information

Wind Speed	Exposure Cat	B	C	WEDR	No	Yes
(Circle one)						

I acknowledge that (inspector name) _____ ID Number _____
inspected the home at the address shown above and no damage was caused to the home and/or any property.
I also acknowledge that I received the DFS Homeowner Tips Guide or the FLASH Tips flyer.

Printed Name: _____ Date: _____
Signature: _____

Section D Signature			

Section E Codes			
Window Type	Door Type	Protection Codes:	
Single Hung SH	Single Hinged (out swing) SO	Hurricane	H
Double Hung DH	Double Hinged (out swing) DO	Basic	B
Horizontal Sliding HS	Single Hinged (in swing) SI	Ordinary	O
Awning / Jarouse AW	Double Hinged (in swing) DI	NOT RATED (pre 1994)	NR
Casement CS	Sliding Glass SG	None	X
Fixed glass FG	Garage (Single) GS		
	Garage (Double) GD		

Version 10.1 1 10-16-06

SR Number: Example

Front Elevation											
Section F-1 Exterior Roof Information						Section G-1 Window Openings					
Roof Shape			Roof Complexity			Roof Covering (Front Elevation Only)			Protection		
☒ Gable	☐ Hip	☐ Mansard	☐ Flat	☐ Other	☐ Simple Roof Shape	☒ Moderate Roof Shape	☒ Complex Roof Shape	☐ Shingles	☐ Tile	☐ Metal	☐ Other
								Year Installed: <u>2004</u>		☒ Year Known ☐ Year Estimated	
Section F-1 Exterior Roof Information						Section G-1 Window Openings					
Number	Quantity	Window Type	Floor	Opening in Inches	Width	Height	Code	Yr. Installed			
1	1	SH	1	12	12	16	X	2003			
2	1	SH	1	12	12	16	X				
3	1	SH	1	12	12	16	X				
4	1	SH	1	12	12	16	X				
5											
6											
7											
Section H-1 Doors											
Number	Quantity	Door Type	Floor	Opening in Inches	Width	Height	Code	Yr. Installed	Glazed		
1	1	DE	1	12	12	16	X	2003	Yes	No	
2	1	DE	1	12	12	16	X				
3											
4											
Section I-1 Skylights											
Quantity	Width	Height	Code	Yr. Installed	Protection	Section J-1 Gable Ends					
						Bottom	Chord Width	Width	Height		
Section K-1 Wall Cladding (circle floor)											
Aluminum Siding	1	2	3	4	Stucco	1	2	3	4		
Vinyl Siding	1	2	3	4	Brick Veneer	1	2	3	4		
Wood Siding	1	2	3	4	Painted Block	1	2	3	4		
Section L-1 Wall Construction (circle floor)											
Concrete Block Un-Reinforced	1	2	3	4	Solid Concrete	1	2	3	4		
Concrete Block Reinforced	1	2	3	4	Wood Light Metal Frame	1	2	3	4		
Section M-1 Reinforcement Check: (check 3-5 locations for entire house)											
Not Applicable						Window/Door					
Left Corner						Right Corner					
Section N-1 Carport											
(Circle Applicable)						Section O-1 Porches					
None						(Exclude Pool Screen Enclosure)					
Attached						Size					
Detached						Type					
Built-In						Open					
Screened						Enclosed					
Enclosed						Type					
None						Solid/Wood/Other					
Vinyl/Aluminum						None					
Number of Cars:						Length					
						(linear feet)					
						12					
						100					

On the front of this house are three small gables so the roof shape is reported "Gable." The roof complexity on this elevation is "Complex" due to the number of different surfaces and angles of the roof.

Window Opening dimensions include the clear fixed glass sections above the windows where they exist.

The door dimensions include the clear glass above the front door. The front door contains glazing and is so noted. The homeowner had paperwork to show the door was MDC approved in 2003 for impact.

Three gable ends are reported with no Vent.

Wall finish is reported

Reinforcing is checked in two places on the front elevation. There locations could have been checked but access to the far right is difficult so another location was checked on the right side.

A small porch is reported and solid soffits 12 inches wide for the full length of the front walls is recorded.

SR Number: Example

Right Elevation									
Section F-2 Exterior Roof Information					Roof Complexity				
Roof Shape					Roof Complexity				
☐ Gable ☐ Gambrel ☒ Hip ☐ Mansard ☐ Other					☒ Simple Roof Shape ☐ Moderate Roof Shape ☐ Complex Roof Shape				
Section G-2 Window Openings									
Number	Quantity	Window Type	Floor	Opening in Inches Width Height	Protection Code Yr. Installed				
1	1	SH	1	72 96	X				
2									
3									
4									
5									
6									
7									
Section H-2 Doors									
Number	Quantity	Door Type	Floor	Opening in Inches Width Height	Protection Code Yr. Installed	Glazed Yes/No			
1									
2									
3									
4									
Section I-2 Skylights									
Quantity	Daylight Buck Width Height	Protection Code Yr. Installed	Section J-2 Gable Ends						
			Quantity	Height	Bottom Chord Width	Width	Vent Height		
Section K-2 Wall Cladding (circle floor)									
	Aluminum Siding	1 2 3 4	Stucco	1 2 3 4					
	Vinyl Siding	1 2 3 4	Brick Veneer	1 2 3 4					
	Wood Siding	1 2 3 4	Painted Block	1 2 3 4	Other 1 1 2 3 4				
Section L-2 Wall Construction (circle floor)									
	Concrete Block Un-Reinforced	1 2 3 4	Solid Concrete	1 2 3 4					
	Concrete Block Reinforced	1 2 3 4	Wood/Light Metal Frame	1 2 3 4					
Section M-2 Reinforcement Check: (check 3-5 locations for entire house)									
Not Applicable	Left Corner	Window/Door	Right Corner						
Section N-2 Carport			Section O-2 Porches			Section P-2 Soffits			
(Circle Applicable) None Attached Detached Number of Cars: _____			(Exclude Pool Screen Enclosure) Size Type Small Open Medium Screened Large Enclosed			Overhang (inches) Length (linear feet) 12 43			
						Type ☒ Solid/Wood/Other ☐ Vinyl/Aluminum ☐ None			

This side of the house has a simple roof hip shape.

One window opening is reported so the sizes noted include the fixed glass section above.

Stucco on reinforced masonry is reported here too..

The final reinforcing check is performed and recorded here.

Soffit type and dimensions are recorded.

SR Number: Example

Back Elevation											
Section F-3 Exterior Roof Information						Section G-3 Window Openings					
Roof Shape			Roof Complexity			Opening in Inches			Protection		
☐ Gable	☒ Hip	☐ Mansard	☐ Flat	☐ Other	☒ Simple Roof Shape	☐ Moderate Roof Shape	☐ Complex Roof Shape	Width	Height	Code	Yr. Installed
						1			2004		
						2					
						3					
						4					
						5					
						6					
						7					

Section H-3 Doors											
Quantity			Door Type			Opening in Inches			Protection		
Number	Quantity	Door Type	Floor	Width	Height	Code	Yr. Installed	Glazed	Yes	No	
1	1	SO	1	36	132	H	2004				
2	6	SG	1	72	132	X	2004				
3	1	SO	1								
4	6	SG	1								

Section I-3 Skylights											
Quantity			Protection			Opening in Inches			Protection		
Daylight/Buck	Width	Height	Code	Yr. Installed	Quantity	Height	Bottom Chord Width	Width	Height	Vent	

Section K-3 Wall Cladding (circle floor)											
Aluminum Siding			Stucco			Brick Veneer			Painted Block		
1	2	3	4	1	2	3	4	1	2	3	4

Section L-3 Wall Construction (circle floor)											
Concrete Block Un-Reinforced			Solid Concrete			Wood/Light Metal Frame			Other		
1	2	3	4	1	2	3	4	1	2	3	4

Section M-3 Reinforcement Check: (check 3-5 locations for entire house)											
Not Applicable			Left Corner			Window/Door			Right Corner		

Section N-3 Carport				Section O-3 Porches				Section P-3 Soffits			
(Circle Applicable)				(Exclude Foot Screen Enclosure)				(Linear feet)			
Built-In				Size				Overhang			
Attached				Small				12			
Detached				Medium				Length			
Number of Cars:				Type				100			
				None							

Hip roof with "Moderate" shape rating due to the multi-surface roof.

The entire lanai is protected with one of the Fabric hurricane screens (MDC approved). Therefore, all openings are considered "H" rated, thus recording the dimensions is not required.

If the lanai was not protected and the windows and doors did not have other protection, you must record the dimensions of the Openings.

The checklist shows the correct way to record this information in both cases.

The exterior finish is Stucco but the majority of the back wall is wood frame as evidenced by the lack of set-back for the windows and sliding glass doors.

A large open porch is reported (the fact that there are two is not significant). A solid soffit and the dimensions are recorded at the bottom.

SR Number: Example

Left Elevation											
Section F-4 Exterior Roof Information						Roof Complexity					
Roof Shape		Flat				Other		Roof Complexity			
☐ Gable	☐ Gambrel	☒ Hip	☐ Mansard	☐ Simple Roof Shape		☐ Moderate Roof Shape		☐ Complex Roof Shape			
Section G-4 Window Openings											
Number	Quantity	Window Type	Floor	Opening in Inches		Code	Protection				
				Width	Height		Yr. Installed				
1	3	SH	1	36	50	X					
2	1	SH	1	30	30						
3											
4											
5											
6											
7											
Section H-4 Doors											
Number	Quantity	Door Type	Floor	Opening in Inches		Code	Protection		Glazed		
				Width	Height		Yr. Installed	Yes	No		
1	1	SO	1	36	80	X					
2											
3											
4											
Section I-4 Skylights											
Quantity	Width	Height	Code	Protection							
				Yr. Installed							
1	32	82	X								
Section J-4 Gable Ends											
Quantity	Width	Height	Bottom		Vent						
			Chord	Width	Width	Height					
1	32	82									
Section K-4 Wall Cladding (circle floor)											
Aluminum Siding	1	2	3	4	Stucco	1	2	3	4	Other	
Vinyl Siding	1	2	3	4	Brick Veneer	1	2	3	4		
Wood Siding	1	2	3	4	Painted Block	1	2	3	4		
Section L-4 Wall Construction (circle floor)											
Concrete Block Un-Reinforced	1	2	3	4	Solid Concrete	1	2	3	4		
Concrete Block Reinforced	1	2	3	4	Wood/Light Metal Frame	1	2	3	4		
Section M-4 Reinforcement Check: (check 3-5 locations for entire house)											
Not Applicable	Left Corner		Window/Door		Right Corner						
Section N-4 Carport											
(Circle Applicable)											
Built-In											
Attached											
Detached											
Number of Cars: _____											
Section O-4 Porches											
(Exclude Pool Screen Enclosure)											
(Circle Size and Type)											
Size											
Small											
Medium											
Large											
Type											
Open											
Screened											
Enclosed											
Section P-4 Soffits											
Overhang (inches)											
Length (linear feet)											
12											
68											
Type											
☒ Solid Wood/Other											
☐ Vinyl/Aluminum											
☐ None											

Completed items here include a small non rated skylight. Walls are all reinforced masonry.

SR Number: _____

Materials		Section Q Roof Deck	
		Deck Thickness	Roof Deck Attachment
☐ No Access ☒ Plywood ☐ OSB ☐ Planks/Dimensional Lumber ☐ Concrete ☐ Deck over Battens ☐ Battens ☐ Metal Deck ☐ Other		(Nominal) ☐ 3/8" ☐ 7/16" ☒ 1/2" ☐ 5/8" ☐ 3/4" ☐ >1" ☐ Other	No Access ☐ Staples ☐ 6d Nail ☒ 8d Nail ☐ 10d Nail ☐ Screws (=> #8 x 2.5") ☐ Spray Foam Adhesive ☐ Construction Adhesive
Roof Slope: <u>6</u> / <u>12</u>		Average # of missed nails in 4' of structure: ☒ 0 ☐ 1 ☐ 2 ☐ 3 ☐ 4+	
Section R Roof Structure Materials			
☐ No Access ☐ Rafters ☒ Wood Trusses ☐ Light Metal Trusses		How verified: (Circle Applicable) Photos ☐ Documents ☐ Other ☐ Spray Foam Adhesive: ☐ Y ☐ N	
Spacing: <u>12" 16" 24"</u> >24" (Circle one)		None ☒ None if none, is there > than 4 feet of height? Y ☐ N ☐	
Section T Roof to Wall Connection			
Severe Corrosion Y ☐ N ☒		Every Truss/Rafter Within 1.5' of Trusses Y ☐ N ☒	
No Access ☐		Single Wrap ☐ Double Wrap ☐ Unknown ☐	
None ☐ Toe Nail ☐ Clips ☒			
If Unknown, Explain why: _____			
Section U Gable End Wall Construction			
Count		Count # Gables = 4 or more feet high	
Total Number of ALL Gables	3	No Access	Count
Number Less than 4' high	3	Not Braced Cathedral Ceiling	Balloon
		Gable Wall Sheathing (check type)	Deck/Diaphragm
		Plywood	Diagonal Bottom or X Bracing
		OSB	Horizontal Continuous
		Planks	Masonry Cathedral
			Masonry Flat Ceiling
Section V Building Footprint Area:			
Plan View of House (for calculating building footprint area Square Feet)->		sq. ft.	
<i>From building plans</i>		3200	

Version 10.1

6

10-16-06

The photos clearly show plywood, the grade stamp shows 15/32 which is nominal 1/2 inch material. The missed nail is an 8d nail (deck was refastened when the roof covering was replaced in 2004). Spacing checked out to be 6/6. Missed nails are actually very few so the average is "0"

Wood Trusses are obvious and spacing is 24". No SWR was observed and owner said they did not do that in 2004.

Photos show single wrap straps on each truss with three nails and no corrosion.

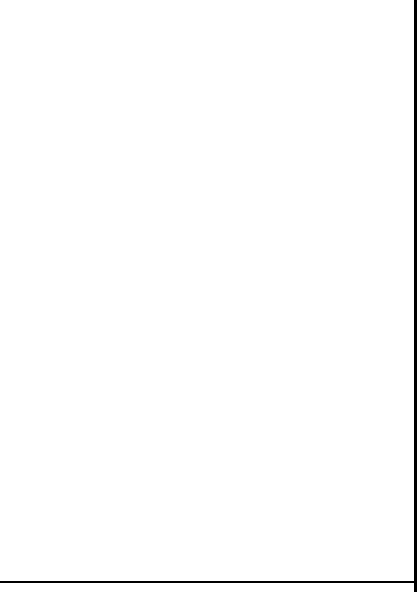
Form the elevation pages, three gable ends were reported. Because the height of all of them is under 4 feet, no bracing information is needed. If they were over 4 feet in height these gables would all be marked "no access" because there is no way to get to any of them.

The owner had a set of plans to enable the surveyor to determine the footprint square feet.

	Front Left		Front Door and windows		Side of Garage
	Front door and more windows		Front Right and windows		

		
Right Front Corner	Right Back Corner	Right Rear Corner

		
Back Left Side	Back Center	Back Right Side

			Roof Shape
			



Missed nail = 8d



Grading Stamp shows 15/32



Single Wrap Tie-Down Straps on each truss

**APPENDIX C:
SUGGESTED PROTOCOLS
FOR SURVEYORS/INSPECTORS**

Surveyor/Inspector Responsibilities

The Surveyor will:

1. Have an in-depth understanding of the certification criteria and methods.
2. Achieve an acceptable score on the tests and all follow-up tests (if necessary) to ensure understanding of all changes in the program.
3. Use the latest approved forms for the survey. Electronic forms will be shipped to you with changes included.
4. Upon receipt of a request, contact the homeowner by phone to set up the appointment time. Professional and courteous language must be used. A suggested script is provided below.
5. Arrive at your appointment on time. If you will be more than 10 minutes late, call the homeowner.
6. At the dwelling, complete the entire survey and check it for completeness before you leave.
7. Be courteous and professional at all times.
8. Send completed surveys to the WCE within 24 hours of completion.
9. Respond reasonably to homeowner follow-up questions on your survey. This may include, in rare cases, revisiting the house if the homeowner can make a case that something you did was in error.

Setting Survey Appointments

The survey must be completed with the homeowner, or adult representative, present, to allow access to the attic of the building. **DO NOT ENTER THE HOME IF ONLY MINOR CHILDREN ARE PRESENT.** The surveyor should call the homeowner to arrange for an appropriate person to provide access to the home.

When scheduling the appointment, request that the homeowner locate and have available copies of any papers related to any existing hurricane protection devices like shutters. The papers for the protection devices are needed to verify that the present products meet the required standards. If the home was built between March 1, 2002, and January 1, 2003, they will have to show you information regarding compliance with the Florida Building Code.

Survey Tools

In addition to normal inspector tools and equipment, the following list shows some suggested additional items you can use to complete a Mitigation Survey of a residential house. There are a couple of tools that may be unique to this survey program. One is the Zircon Metalliscanner% 6.0 or MT 6 which is used for measuring nail spacing and location of rebar in masonry construction. Another is a telescoping pole needed to check the presence of hurricane straps in low slope roofs.

- Latest version of the Survey Checklist
- Laser Pointer for Laminated Glass Testing
- Flashlight—high intensity with 1,000,000 Candle Power is suggested
- Head mounted flashlight

- Step ladder or folding ladder to access attic
- 6" steel ruler to measure deck thickness
- Zircon MetalliScanner™ MT-6 (approximately \$100)
- 3' telescoping pole (such as a golf ball retriever)– to gently part insulation around rafter/wall connection to examine straps in low slope roofs
- Inspection Mirror
- Binoculars – for examining skylights from the ground
- Long sleeved shirt to protect skin from insulation in attic
- Dust mask and Bump of Hard Hat for use in attic
- Tyvec suit

At the dwelling

1. Look for shutters/attachment brackets and notice garage door type (if any).
2. Knock on front door and request owner or the person you talked to when making the appointment.
3. Show owner your ID badge and remind him/her of purpose of visit and confirm he/she will be here during your inspection. Ask for any paperwork on shutters.
4. Conduct the exterior inspection.
5. Make sure shoes are clean and/or ask if you need to remove shoes before entering the house (if necessary) to conduct the attic inspection.
6. Examine documentation regarding shutters.

Conclusion to Survey:

7. Complete the “Date of inspection” and the time you started and completed the inspection.
8. If the homeowner information is not correct make appropriate changes
9. Leave the provided information letter/flyer with the homeowner.
10. Have the homeowner sign Check List on page 1
10. Tell the homeowner that
 - (a) Data will be forwarded to the office for processing.
 - (b) Their report will be issued within 30 days.

Example Script for Contacting Homeowner to Set Up Appointment

► Introduction:

- ▷ My name is _____ with (WCE's name) .
- ▷ I am calling to schedule the FREE home inspection you requested through the My Safe Florida Home Program.

► Inform about Inspection Process:

- ▷ This certification inspection will take between 30 minutes and 1 hour.
- ▷ What days and times are convenient for you?
 - Decide on a mutually agreeable time
- ▷ You or an adult to represent you will need to be present during that time.
- ▷ I will need to get inside attic to complete my work.
- ▷ Do you have impact rated window or shutters on the house now?
 - If yes, ask them to have a copy of any available paperwork showing the year installed and the model name, number, or any other documents you have regarding your hurricane protection systems.

► Confirmation and closing:

- ▷ Thank you. I will meet you at _____ (Confirm time and date).
- ▷ My name again is _____. If you must cancel or change the appointment, please call me at _____. Thank you again.

APPENDIX D: CHECKLIST

My Safe Florida Home Survey Checklist

Section A Inspector Information									
Date Assigned: _____			WCE: _____			Date Inspected: _____			
Inspector: _____					Inspection Company: _____				
Start time: _____					Finish Time: _____				
Dates of Attempted Calls: 1st _____			2nd _____			3rd _____			
Section B Owner Information									
Owner's Name: _____					Contact Person: _____				
Property Address: _____					Home Phone: _____				
City: _____					Work Phone: _____				
County: _____					Cell Phone: _____				
Zip Code: _____					E-Mail Address: _____				
Insurance Co: _____					Policy Number: _____				
Section C General Building Information									
Year Built		Number of Stories		Foundation		Foundation Restraint			
		☐ 1 Story		☐ Pier/Piling		☐ Anchor Bolts			
☐ Year Known		☐ 2 Story		☐ Slab on Grade		☐ Cut Nails			
☐ Year Estimated		☐ 3 Story		☐ Stem wall		☐ Rebar			
		☐ 4 Story				☐ None			
WCE Office to Complete the following information									
Wind Speed		Exposure Cat B C				WBDR No Yes			
		(Circle one)				(Circle one)			
Section D Signature									
I acknowledge that (inspector name) _____ ID Number _____									
inspected the home at the address shown above and no damage was caused to the home and/or any property.									
I also acknowledge that I received the DFS Homeowner Tips Guide or the FLASH Tips flyer.									
Printed Name: _____					Date: _____				
Signature: _____									
Section E Codes									
Window Type		Door Type				Protection Codes:			
Single Hung	SH	Single Hinged (out swing)	SO			Hurricane	H		
Double Hung	DH	Double Hinged (out swing)	DO			Basic	B		
Horizontal Sliding	HS	Single Hinged (in swing)	SI			Ordinary	O		
Awning / Jalousie	AW	Double Hinged (in swing)	DI			NOT RATED (pre 1994)	NR		
Casement	CS	Sliding Glass	SG			None	X		
Fixed glass	FG	Garage (Single)	GS						
		Garage (Double)	GD						

Front Elevation																																	
Section F-1 Exterior Roof Information																																	
Roof Shape										Roof Complexity																							
☐ Gable		☐ Hip		☐ Flat		☐ Simple Roof Shape						☐ Moderate Roof Shape						☐ Complex Roof Shape															
☐ Gambrel		☐ Mansard		☐ Other																													
Roof Covering (Front Elevation Only)																																	
☐ Shingles		☐ Tile		Year installed:						Year Known ☐						Year Estimated ☐																	
☐ Wood		☐ Metal																															
☐ Other																																	
Section G-1 Window Openings																																	
Number	Quantity	Window Type	Floor	Opening in Inches		Protection																											
				Width	Height	Code	Yr. Installed																										
1																																	
2																																	
3																																	
4																																	
5																																	
6																																	
7																																	
Section H-1 Doors																																	
Number	Quantity	Door Type	Floor	Opening in Inches		Protection		Glazed																									
				Width	Height	Code	Yr. Installed	Yes	No																								
1																																	
2																																	
3																																	
4																																	
Section I-1 Skylights										Section J-1 Gable Ends																							
Quantity	Daylight/Buck		Protection		Quantity	Height	Bottom Chord Width	Vent-inches																									
	Width	Height	Code	Yr. Installed				Width	Height																								
Section K-1 Wall Cladding (circle floor)										Section L-1 Wall Construction (circle floor)																							
Aluminum Siding		1		2		3		4		Stucco		1		2		3		4		Other													
		Vinyl Siding		1		2		3				4		Brick Veneer		1		2								3		4					
		Wood Siding		1		2		3				4		Painted Block		1		2								3		4					
Section M-1 Reinforcement Check: (check 3- 5 locations for entire house)										Section N-1 Carport								Section O-1 Porches								Section P-1 Soffits							
Not Applicable ☐		Left Corner ☐		Window/Door ☐		Right Corner ☐												(Circle Applicable) None ☐ Built-In ☐ Attached ☐ Detached ☐ Number of Cars:				(Exclude Pool Screen Enclosure) (Circle Size and Type) Size ☐ Type ☐ Small ☐ Open ☐ Medium ☐ Screened ☐ Large ☐ Enclosed ☐				Overhang (inches) Length (linear feet) Type ☐ Solid/Wood/Other ☐ Vinyl/Aluminum ☐ None							

Right Elevation																		
Section F-2 Exterior Roof Information																		
Roof Shape										Roof Complexity								
☐	Gable	☐	Hip	☐	Flat													
☐	Gambrel	☐	Mansard	☐	Other	☐	Simple Roof Shape											
						☐	Moderate Roof Shape											
						☐	Complex Roof Shape											
Section G-2 Window Openings																		
Number	Quantity	Window Type	Floor	Opening in Inches		Protection												
				Width	Height	Code	Yr. Installed											
1																		
2																		
3																		
4																		
5																		
6																		
7																		
Section H-2 Doors																		
Number	Quantity	Door Type	Floor	Opening in Inches		Protection		Glazed										
				Width	Height	Code	Yr. Installed	Yes	No									
1																		
2																		
3																		
4																		
Section I-2 Skylights																		
Quantity	Daylight/Buck		Protection		Quantity	Height	Bottom Chord Width	Vent										
	Width	Height	Code	Yr. Installed				Width	Height									
Section K-2 Wall Cladding (circle floor)																		
	Aluminum Siding	1	2	3	4		Stucco	1	2	3	4							
	Vinyl Siding	1	2	3	4		Brick Veneer	1	2	3	4	Other			1	2	3	4
	Wood Siding	1	2	3	4		Painted Block	1	2	3	4							
Section L-2 Wall Construction (circle floor)																		
	Concrete Block Un-Reinforced	1	2	3	4		Solid Concrete	1	2	3	4							
	Concrete Block Reinforced	1	2	3	4		Wood/Light Metal Frame	1	2	3	4							
Section M-2 Reinforcement Check: (check 3- 5 locations for entire house)																		
Not Applicable ☐		Left Corner ☐		Window/Door ☐		Right Corner ☐												
Section N-2 Carport					Section O-2 Porches					Section P-2 Soffits								
(Circle Applicable) <i>None</i> <i>Built-In</i>					(Exclude Pool Screen Enclosure) (Circle Size and Type)					Overhang (inches)		Length (linear feet)						
<i>Attached</i> <i>Detached</i>					<u>Size</u> <u>Type</u> <i>Small</i> <i>Open</i> <i>Medium</i> <i>Screened</i> <i>Large</i> <i>Enclosed</i>													
Number of Cars: _____										Type								
											☐	Solid/Wood/Other						
										☐	Vinyl/Aluminum							
										☐	None							

Back Elevation																	
Section F-3 Exterior Roof Information																	
Roof Shape							Roof Complexity										
☐ Gable		☐ Hip		☐ Flat			☐ Simple Roof Shape										
☐ Gambrel		☐ Mansard		☐ Other			☐ Moderate Roof Shape										
							☐ Complex Roof Shape										
Section G-3 Window Openings																	
Number	Quantity	Window Type	Floor	Opening in Inches		Protection											
				Width	Height	Code	Yr. Installed										
1																	
2																	
3																	
4																	
5																	
6																	
7																	
Section H-3 Doors																	
Number	Quantity	Door Type	Floor	Opening in Inches		Protection		Glazed									
				Width	Height	Code	Yr. Installed	Yes	No								
1																	
2																	
3																	
4																	
Section I-3 Skylights							Section J-3 Gable Ends										
Quantity	Daylight/Buck		Protection		Quantity	Height	Bottom Chord Width	Vent									
	Width	Height	Code	Yr. Installed				Width	Height								
Section K-3 Wall Cladding (circle floor)																	
Aluminum Siding		1	2	3	4	Stucco		1	2	3	4	Other 1 2 3 4					
Vinyl Siding		1	2	3	4	Brick Veneer		1	2	3	4						
Wood Siding		1	2	3	4	Painted Block		1	2	3	4						
Section L-3 Wall Construction (circle floor)																	
Concrete Block Un-Reinforced					1	2	3	4	Solid Concrete					1	2	3	4
Concrete Block Reinforced					1	2	3	4	Wood/Light Metal Frame					1	2	3	4
Section M-3 Reinforcement Check: (check 3- 5 locations for entire house)																	
Not Applicable ☐		Left Corner ☐		Window/Door ☐		Right Corner ☐											
Section N-3 Carport					Section O-3 Porches					Section P-3 Soffits							
(Circle Applicable) <i>None Built-In</i>					(Exclude Pool Screen Enclosure) (Circle Size and Type)					Overhang (inches)		Length (linear feet)					
<i>Attached Detached</i>					Size Type												
Number of Cars: _____					<i>Small Open</i> <i>Medium Screened</i> <i>Large Enclosed</i>					Type ☐ Solid/Wood/Other ☐ Vinyl/Aluminum ☐ None							

Left Elevation																	
Section F-4 Exterior Roof Information																	
Roof Shape										Roof Complexity							
☐ Gable		☐ Hip		☐ Flat		☐ Simple Roof Shape ☐ Moderate Roof Shape ☐ Complex Roof Shape											
☐ Gambrel		☐ Mansard		☐ Other													
Section G-4 Window Openings																	
Number	Quantity	Window Type	Floor	Opening in Inches		Protection											
				Width	Height	Code	Yr. Installed										
1																	
2																	
3																	
4																	
5																	
6																	
7																	
Section H-4 Doors																	
Number	Quantity	Door Type	Floor	Opening in Inches		Protection		Glazed									
				Width	Height	Code	Yr. Installed	Yes	No								
1																	
2																	
3																	
4																	
Section I-4 Skylights					Section J-4 Gable Ends												
Quantity	Daylight/Buck		Protection		Quantity	Height	Bottom Chord Width	Vent									
	Width	Height	Code	Yr. Installed				Width	Height								
Section K-4 Wall Cladding (circle floor)																	
Aluminum Siding		1	2	3	4	Stucco		1	2	3	4	☐ Other 1 2 3 4					
Vinyl Siding		1	2	3	4	Brick Veneer		1	2	3	4						
Wood Siding		1	2	3	4	Painted Block		1	2	3	4						
Section L-4 Wall Construction (circle floor)																	
Concrete Block Un-Reinforced					1	2	3	4	Solid Concrete					1	2	3	4
Concrete Block Reinforced					1	2	3	4	Wood/Light Metal Frame					1	2	3	4
Section M-4 Reinforcement Check: (check 3- 5 locations for entire house)																	
Not Applicable ☐		Left Corner ☐		Window/Door ☐		Right Corner ☐											
Section N-4 Carport					Section O-4 Porches					Section P-4 Soffits							
(Circle Applicable) <i>None</i> <i>Built-In</i> <i>Attached</i> <i>Detached</i> Number of Cars: _____					(Exclude Pool Screen Enclosure) (Circle Size and Type) Size Type <i>Small</i> <i>Open</i> <i>Medium</i> <i>Screened</i> <i>Large</i> <i>Enclosed</i>					Overhang		Length					
										(inches)		(linear feet)					
										Type		☐ Solid/Wood/Other ☐ Vinyl/Aluminum ☐ None					

Section Q Roof Deck			
Materials	Deck Thickness	Roof Deck Attachment	Spacing
☐ No Access ☐ Plywood ☐ OSB ☐ Planks/Dimensional Lumber ☐ Concrete ☐ Deck over Battens ☐ Battens ☐ Metal Deck ☐ Other	(Nominal) ☐ No Access ☐ 3/8" ☐ 7/16" ☐ 1/2" ☐ 5/8" ☐ 3/4" ☐ =>1" ☐ Other	☐ No Access ☐ Staples ☐ 6d Nail ☐ 8d Nail ☐ 10d Nail ☐ Screws (=> #8 x 2.5") ☐ Spray Foam Adhesive ☐ Construction Adhesive	☐ > 6"/12" ☐ 6"/12" ☐ 6"/6"
Roof Slope: _____ /12		Average # of missed nails in 4' of structure: ☐ 0 ☐ 1 ☐ 2 ☐ 3 ☐ 4+	
Section R Roof Structure Materials		Section S Secondary Water Barrier	
No Access ☐ Rafters ☐ Wood Trusses ☐ Light Metal Trusses ☐ Spacing: 12" 16" 24" >24" (Circle one)	☐ Exterior ☐ Interior ☐ None How verified: <i>Photos</i> <i>Documents</i> <i>Other</i> (Circle Applicable) Spray Foam Adhesive: ☐ ☐ If none, is there > than 4 feet of height? ☐ ☐		
Section T Roof to Wall Connection			
No Access ☐ ☐ None	Severe Corrosion Y N ☐ ☐	3 or More Nails Y N ☐ ☐	Every Truss/Rafter Y N ☐ ☐
	Within 1.5" of Trusses Y N ☐ ☐	☐ Toe Nail ☐ Clips ☐ Single Wrap ☐ Double Wrap ☐ Unknown	
If Unknown, Explain why: _____			
Section U Gable End Wall Construction			
Count	Count # Gables = 4 or more feet high		
Total Number of ALL Gables	☐ No Access	☐ Count	# of BRACED Gables
	☐ Not Braced Cathedral Ceiling		
Number Less than 4' high	☐ Not Braced Flat Ceiling	☐	☐
	Gable Wall Sheathing (check type)		
	☐ Plywood	☐	☐
	☐ OSB		
	☐ Planks		
	☐ Non-wood / Insulation		☐ Diagonal Bottom or X Bracing
	☐ None		☐ Horizontal Continuous
	☐ Masonry		☐ Masonry Cathedral
			☐ Masonry Flat Ceiling
Section V Building Footprint Area:			
Plan View of House (for calculating building footprint area Square Feet)-->			sq. ft.

APPENDIX E: METALLISCANNER INSTRUCTIONS

MT 6

Electronic Metal Locator

Caution:

1. The MT 6 will only locate metal objects. Nonmetallic objects such as wood studs or PVC pipe cannot be located with this product.
2. Avoid wearing any jewelry, including watches, when using this product. The metal may cause inaccurate results.

The diagram shows the Zircon MT 6 with labels for: Crosshairs, Liquid Crystal Display, Recalibration Switch, Power/Mode Switch, and Battery Compartment.

ZIRCON

MT 6

LIMITED 1 YEAR WARRANTY

Zircon Corporation, ("Zircon") warrants this product to be free from defects in materials and workmanship for one year from the date of purchase. Any in-warranty defective product returned to Zircon*, freight prepaid with proof of purchase date and \$5.00 to cover postage and handling, will be repaired or replaced at Zircon's option. This warranty is limited to the electronic circuitry and original case of the product and specifically excludes damage caused by abuse, unreasonable use or neglect. This warranty is in lieu of all other warranties, express or implied, and no other representations or claims of any nature shall bind or obligate Zircon. Any implied warranties applicable to this product are limited to the one year period following its purchase.

IN NO EVENT WILL ZIRCON BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM POSSESSION, USE OR MALFUNCTION OF THIS PRODUCT.

In accordance with government regulations, you are advised that:
(i) some states do not allow limitations on how long an implied warranty lasts and/or the exclusion or limitation of incidental or consequential damages, so the above limitations and/or exclusions may not apply to you, and further (ii) this warranty gives you specific legal rights and you may also have other rights which vary from state to state.

Return product freight prepaid with proof of purchase date (dated sales receipt) and \$5.00 to cover postage and handling, to:

Zircon Corporation
*Attn: Returns Department
2390 Boswell Road, Suite 300
Chula Vista, CA 91914-3510 USA
E-mail: customer.service@zircon.com

Be sure to include your name and return address. Out of warranty service and repair, where proof of purchase is not provided, shall be returned with repairs charged C.O.D. Allow 4 to 6 weeks for delivery.

Customer Service, 1-800-245-9265 or 1-408-866-8600
U.S. Patent #5729143
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INSTALLING THE BATTERY

- 1 Slide open the battery compartment door and connect the 9-volt battery to the battery clip. Insert the battery into the MT 6 battery compartment and replace the door. With normal use, one 9-volt battery should last approximately one year.

The diagram shows the battery compartment being inserted into the MT 6. Below it, the MT 6 display is shown with labels for: Plus/Minus Sign, Depth Range Numbers, Silent Icon, Audible Icon, Low Battery Icon, Magnetic/Non-Magnetic Icon, and Depth Bars.

GETTING FAMILIAR WITH THE DISPLAY

- 2 The display has indicators that indicate status (targets), and show information about detected objects (targets).

There are 3 status indicators: low battery, audible, and silent icons. The low battery icon is displayed when the battery has less than five hours of use remaining. The AUDIBLE icon will always be on when the unit is in the AUDIBLE mode. In the SILENT mode, the SILENT icon will be active.

The remaining icons indicate information about a target:

- The magnetic icon is displayed whenever the unit detects magnetic material, such as iron. If nonmagnetic material (copper, for example) is detected, the icon will show a line through the magnet. Neither icon is displayed until the MT 6 detects metal at less than 6 in. (152 mm) deep.
- The depth bars represent the depth of the target. Depth is indicated in both inches and centimeters. The bars begin from the bottom of the display and sequentially turn on as the MT 6 gets closer to the metal. The depth numbers correspond to the depth to the top surface of the metal target.

TURNING THE MT 6 ON AND OFF

- 3 The 3 position mode select switch turns the MT 6 on and off and selects either audible or silent operation.
 - Turn the unit on by moving the mode switch to either the AUDIBLE or SILENT position. This should be done in air and away from any metal.
 - The MT 6 performs a calibration immediately after it is turned on.

Note: If the unit fails to calibrate, you will hear a long, low-pitched tone and all the depth bars will be displayed. If this happens, check the area for any large metal objects and remove them or move the unit to a different location. Then try turning the unit on again.

- To turn the MT 6 off, move the mode switch to the OFF position.
- The auto power off feature turns off the MT 6 after five minutes of inactivity. After it turns off, the unit loses its calibration.

PRESCANNING THE TARGET AREA

- 4 *Note: 1. Before scanning, wipe the area to be scanned clean of sand and pebbles.*

2. If the scanning surface is fairly rough, place a thin piece of cardboard between the surface and the unit. The thickness of the cardboard must be subtracted from the depth reading to determine the actual depth to the target when using this procedure.

 - Turn on the unit away from the surface to be scanned.
 - Place the unit on the scanning surface and move from side to side. As a target is approached, an increasing number of depth bars will show. At the point closest to metal, the plus sign will change to a minus sign and there will be a beep (in AUDIBLE mode.)

- The type of metal detected will be indicated by the magnetic/nonmagnetic icon.
- Once you have located a target, reposition the MT 6 over it and scan perpendicular to your original scanning direction to be sure you have determined the extent of the target. If the target is a rod or pipe, the depth indicator will remain constant as you scan along the length.
- Continue scanning to determine if there are multiple targets. If precise depth is important, determine an area that is free of metal for recalibration. (See next section).
- If desired, mark target locations. Crosshairs on the top and front of the unit show where sensitivity is maximum.

RECALIBRATION FOR MAXIMUM DEPTH ACCURACY

5 The MT 6 automatically calibrates at turn on. However, depth accuracy is dependent on the materials in the vicinity of the measurement, in particular, when the materials may contain metal or metallic minerals, as is common with various mixes of concrete. Thus, it is often beneficial to recalibrate after prescanning targets before making a final determination of depth. Recalibration will not affect the positioning accuracy.

- To recalibrate:
- Locate an area on the surface where there is no indication of metal.

Note: If a grid pattern exists, such as may occur with rebar in concrete, there may be no area free of metal. In this case, best results may be obtained by calibrating midway between targets. However, accuracy may be affected and recalibration may not improve overall depth accuracy.

- Press and release the PRESS TO RECALIBRATE switch. All icons on the display will light momentarily during calibration.
- Rescan target areas. A final determination of depth can now be obtained from the depth indicator.

DEPTH ACCURACY AND TARGET SIZE

- 6** The depth readings are specifically tuned for measuring 1/2 inch copper pipe or #4 rebar. For any other metal object, the depth reading of the MT 6 will be less accurate.
- Small objects such as nail heads will be shallower than indicated.
 - For rebar other than #4, the depth reading is accurate to about ± 1 inch (± 2.54 cm).
 - For 1/4 inch copper pipe, actual depth will be about 30% shallower than indicated.
 - For 3/4 inch copper pipe, actual depth may be about 20% deeper than indicated.
 - Large metallic objects, such as pieces of sheet metal, at very shallow depths may give erroneous indications of metal type (magnetic vs nonmagnetic).

CAUTION

- 7** 1. Always turn off power when working near electrical wires.
2. In situations involving multiple, closely spaced targets, the MT 6 may be unable to detect the exact location and/or depth of each piece of metal. Always use caution and wear safety glasses when nailing, cutting, or drilling in walls, floors, and ceilings that may contain metal objects.
3. If a magnetic and nonmagnetic object (ex., rebar and copper pipe) are positioned side-by-side or on top of each other, the MT 6 may have difficulty locating them.

SPECIAL CONSIDERATIONS

- **Rough Surfaces:** Wipe area to be scanned clean of sand and pebbles. If scanning surface is still fairly rough, place very thin cardboard between surface and unit. Cardboard thickness must be subtracted from the depth reading to determine actual depth to the target.
- **Temperature Changes:** MT 6 is designed to operate at approximately 70°F (21°C). Sensitivity decreases slightly at higher temperatures, but is not noticeably affected at lower temperatures.
- **Nonmetallic Objects:** MT 6 will only locate metal objects. Nonmetallic objects such as wood studs and ceramic or PVC pipe cannot be located with this product.

HELPFUL HINTS

Situation	Probable Causes	Solutions
Difficulty detecting metal accurately.	• Metal spaced too closely together prevents calibration.	• Avoid wearing any jewelry, including watches, when using the MT 6 and move large metal tools away from target, when feasible.
Inaccurate calibration and/or depth reading because magnetic/nonmagnetic objects positioned side-by-side or on top of each other.	• Calibrated directly over a metal target. • Concrete and rebar are in segments that could have been poured at different times.	• Use constant, light pressure during scan. • Allow 5 to 10 minutes for temperature to stabilize before operating if unit has been moved to an area with a 10°F (-12°C) change or greater (e.g., from air-conditioned building to outdoors on a warm day).
Calibration is lost.	• Unit was turned off or mode changed.	• Calibrate away from metal to accurately determine depths. Move the unit over a few inches and recalibrate. • Make sure the MT 6 touches the surface it is scanning. • Do not rely on single calibration for the entire area. Prescan each segment separately, calibrate and determine depth of targets for each segment of concrete. • For maximum accuracy on concrete, make sure concrete is fully cured.
Beep doesn't seem relative to targets.	• Scanning near the edge of a piece of concrete. • Target is more than 4 in. (10 cm) deep; unit will not beep at the same time as plus/minus change and maximum depth bars appear.	• Ignore beep and rely on depth bars to locate target.
Unit makes long, low-pitched tone and display does not return to normal.	• Calibration error has occurred.	• Reposition the MT 6 and recalibrate.
Low battery indicator.	• Battery has less than 5 hours of use remaining.	• Replace battery to maintain sensitivity.

Questions? Check our Web site at www.zircon.com and click "Product Support."

FCC Part 15 Class B Registration Warning

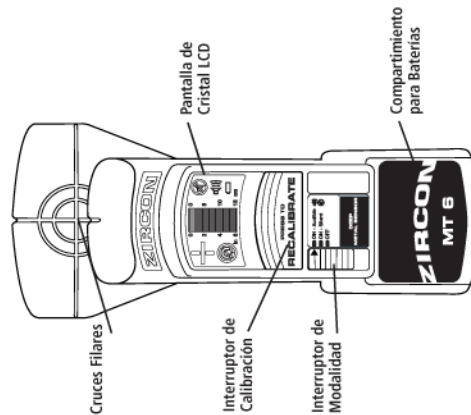
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- (1) Reorient or relocate the receiving antenna.
- (2) Increase the separation between the equipment and receiver.
- (3) Connect the equipment into an outlet on a circuit, different from that which the receiver is connected (if applicable).
- (4) Consult the dealer or an experienced radio/TV technician for help.

MT 6

Precaución:

1. El MT 6 solamente puede localizar objetos metálicos. Este producto no puede localizar productos que no sean metálicos, como postes de madera o tubería de cerámica o de PVC.
2. Al utilizar este producto evite usar joyería, incluyendo relojes. El metal puede provocar resultados poco precisos.



GARRANTIA LIMITADA DE 1 AÑO

Zircon Corporation ("Zircon") garantiza este producto como libre de defectos en materiales y mano de obra por un año a partir de la fecha de compra. Cualquier producto defectuoso dentro de la garantía emitida a Zircon* con el envío pagado, comprobante de fecha de compra y \$5.00 para cubrir parte y manejo, se reparará o reemplazará a opción de Zircon. Esta garantía se limita a los circuitos electrónicos y a la caja original del producto y excluye específicamente los daños provocados por uso indebido, uso no razonable o descuido. Esta garantía está en lugar de todas las demás garantías, expresa o implícita, y ninguna otra declaración o reclamación de cualquier naturaleza es obligatoria para Zircon. Cualquier garantía implícita aplicable para este producto se limita al periodo de un año inmediato a su compra.

EN NINGUN CASO, ZIRCÓN SERA RESPONSABLE DE NINGUN DAÑO ESPECIAL, INCIDENTAL O RESULTANTE DE LA POSESIÓN, USO O MAL FUNCIONAMIENTO DE ESTE PRODUCTO.

(i) en algunos estados no se permiten limitaciones del tiempo de vigencia de una garantía implícita y/o de la exclusión o limitación de daños incidentales o

consecutivos; así que las limitaciones y/o exclusiones anteriores tal vez no se apliquen para usted, y además, (ii) esta garantía le otorga derechos legales específicos y usted tal vez tenga otros derechos que varían de estado en estado. Devuelva el producto con envío pagado y comprobante de la fecha de compra (recibo de venta fechado) y \$5.00 para cubrir el porte y el manejo, a:

* Attn: Returns Department

2390 Boswell Road, Suite 300
Chula Vista, CA 91914-3510 USA

Asegúrese de incluir su nombre y dirección. El servicio y reparación fuera de garantía donde no se incluya el comprobante de compra se registrará con carcos de reparación C.O.D. Permita de 4 a 6 semanas para la entrega.

Servicio a clientes: 1-800-245-9265 ó 1408-866-8600

De lunes a viernes de 8 a.m. a 5 p.m. hora del Pacífico,
servicio a clientes: 1-800-45-3242 o 1-800-880-0080

A la dirección de correo electrónico: customer.service@circon.com

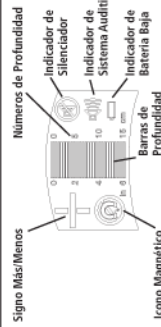
de EE.UU. #5729143

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INSTALACION DE LA BATERIA

- 1** Deslice y abra la puerta del compartimiento para baterías. Inserte la batería de 9 V en el conector. Coloque la batería dentro del compartimiento. Vuelva a colocar la puerta de la batería y cerrarla. Bajo condiciones normales, la batería durará aproximadamente 1 año.

COMO FAMILIARIZARSE CON LA PANTALLA



- 2** La pantalla tiene indicadores de estado y muestra información sobre los objetos detectados (objetivos).
- Existen 3 indicadores de estado: iconos de batería baja, audible y silencioso. El icono de batería baja aparece cuando a la batería le quedan menos de cinco horas de uso. El icono audible (AUDIBLE) siempre estará encendido cuando la unidad esté en modo AUDIBLE. En modo de SILENT (SILENCIO), el icono SILENT estará activo. El resto de los iconos muestra información acerca de un objetivo:
- El icono de magnético aparece siempre que la unidad detecte material magnético, como hierro. Si se detecta material no magnético (por ejemplo, cobre), se mostrará una línea a través del icono. No aparece ningún icono hasta que el MIT 6 detecte metal a menos de 6 pulgadas (152 mm) de profundidad.
 - Las barras de profundidad representan la profundidad del objetivo. La profundidad se indica en pulgadas y en centímetros. Las barras se inician desde la parte inferior de la pantalla y se encienden en secuencia, conforme el MIT 6 se acerca más al metal. Los números

**EXPLORACION PREVIA DEL
AREA OBJETIVO**

- 4** Nota: 1. Antes de explorar, limpie el área de exploración y asegúrese que este libre de arena y piedras pequeñas.

2. Si la superficie de exploración es irregular, coloque un pedazo de cartón delgado entre la superficie y la unidad. Debe restar el grosor del cartón de la lectura de profundidad, para determinar la profundidad real del objetivo al utilizar este procedimiento.

- Encienda la unidad lejos de la superficie que va a explorar.
- Coloque la unidad sobre la superficie de exploración y muévala de lado a lado. Al acercarse a un objetivo, se mostrará un número cada vez mayor de barras de profundidad. En el punto más cercano al metal, el signo

- de la profundidad corresponden a la profundidad hasta la superficie superior del objetivo metálico.
- El signo más (+) indica que usted avanza hacia el metal, mientras que el signo menos (-) indica que se aleja. Si la unidad está sin moverse, el tono señala el movimiento más reciente. Cuando se pasa por un objetivo, el signo cambia de más a menos y el MT 6 emite un sonido (en el modo AUDIBLE).

ENCENDIDO Y APAGADO DEL MT 6

- 3** El interruptor de selección de modo de 3 posiciones enciende y apaga el MT 6 y selecciona modo de operación silenciosa o audible.
- Encienda la unidad moviendo el interruptor de modo a la posición **AUDIBLE** o **SILENT**. Esto debe hacerse en el aire y lejos de cualquier metal.
 - El MT 6 se calibra inmediatamente después de encenderlo.

Nota: Si la unidad no se calibra, escuchará un sonido largo y de tono bajo, y se mostrarán todas las barras de profundidad. Si esto sucede, revise el área por si hubiera objetos metálicos grandes, y retírelos o mueva la unidad a un lugar diferente. Luego intente encender la unidad otra vez.

- Para apagar el MT 6, mueva el interruptor de modo a la posición OFF (APAGADO).
- La función de apagado automático apaga el MT 6 después de cinco minutos de inactividad. Después de apagarse, la unidad pierde su calibración.

más cambiará a signo menos y se escuchará un sonido (en modo AUDIBLE).

- El tipo de metal detectado se indicará por el icono que indica magnético/no magnético.
- Una vez que haya localizado un objetivo, coloque nuevamente el MT 6 sobre él y explore en dirección perpendicular a su dirección original de exploración, para asegurarse de que determine el alcance del objetivo. Si el objetivo es una varilla o tubo, el indicador de profundidad se mantendrá constante mientras explora a lo largo de la longitud.
- Continúe explorando para determinar si hubiera objetivos múltiples. Si es importante que la profundidad sea precisa, determine un área que esté libre de metal para recalibrarlo (vea la siguiente sección).
- Si lo desea, marque las ubicaciones de los objetivos. La sensibilidad máxima se señala por cursores finos en la parte superior y frontal de la unidad (vea la sección COMPONENTES DEL MT 6).

RECALIBRACION PARA MAXIMA PRECISION DE PROFUNDIDAD

El MT 6 se calibra automáticamente al entenderse. Sin embargo, la precisión de la profundidad depende de los materiales en las cercanías de la medición, en particular cuando los materiales pudieran contener metal o minerales metálicos, como es usual en diversas mezclas de concreto. Por lo tanto, a menudo es útil recalibrarlo después de la exploración previa de los objetivos y antes de realizar la determinación final de la profundidad. La recalibración no afectará la precisión del posicionamiento.

- Para recalibrarlo:
 - Localice un área en la superficie donde no exista indicación de metal.

Nota: Si existe un patrón de rejilla, como pudiera suceder con las barras de refuerzo en el concreto, tal vez no exista un área libre de metal. En este caso, tal vez obtenga mejores resultados calibrando a media distancia entre los objetivos. La exactitud puede verse afectada y la recalibración puede no mejorar la exactitud de la lectura de profundidad.

- Presione y suelte el interruptor PRESS TO RECALIBRATE (Presione para recalibrar). Todos los iconos de la pantalla se encenderán momentáneamente durante la calibración.
- Explore nuevamente las áreas del objetivo. Ahora puede obtener una determinación final de profundidad con el indicador de profundidad.

RECALIBRACION PARA MAXIMA PRECISION DE PROFUNDIDAD

Las lecturas de profundidad se sincronizan específicamente para medir tuberías de cobre de 1/2 pulg. o barras de refuerzo #4. Para cualquier otro objeto de metal, la lectura de profundidad del MT 6 será menos precisa.

- Los objetos pequeños, como las cabezas de los clavos, estarán a menos profundidad de la indicada.
- Para barras de refuerzo diferente a la #4, la lectura de profundidad es precisa aproximadamente a ± 1 pulg (± 2.54 cm).
- Para tuberías de cobre de 1/2 de pulg., la profundidad real será aproximadamente 30% menor de la indicada.
- Para tubería de cobre de 3/4 de pulg., la profundidad real puede ser aproximadamente 70% mayor de la indicada.
- Los objetos metálicos grandes, como piezas de chapa metálica a muy poca profundidad, pueden dar indicaciones erróneas del tipo de metal (magnético contra no magnético).

PRECAUCION

1. Siempre apague la alimentación eléctrica cuando trabaje cerca de alambres eléctricos.
2. En situaciones que involucren objetivos múltiples y que estén muy cercanos, el MT 6 tal vez no pueda detectar la ubicación y/o profundidad exacta de cada pieza de metal. Siempre tenga cuidado y use lentes de seguridad al cortar, cortar o perforar sobre paredes, pisos y techos que pudieran contener objetos metálicos.
3. Si un objeto magnético y uno no magnético (ej., una barra de refuerzo y un tubo de cobre) están colocados lado a lado o uno arriba del otro, el MT 6 podría tener problemas para localizarlos.

CONSIDERACIONES ESPECIALES

- **Superficies Rugosas:** Limpie el área que se debe explorar extirpando la arena y los pedras pequeñas. Si la superficie de exploración continúa siendo rugosa, coloque una placa de cartulina delgada entre la superficie y la unidad.
- **Cambios de temperatura:** El MT 6 está diseñado para operar en una temperatura de aproximadamente 70°F (21°C). La sensibilidad disminuye levemente a temperaturas más altas, pero no se ve considerablemente afectada a temperaturas más bajas.
- **Objetos No Metálicos:** El MT 6 solo buscará objetos de metal. Los objetos no metálicos tales como vigas de madera, tubería de cerámica o PVC no pueden ser encontrados con este producto.

CONSEJOS UTILES

Situación	Causas Probables	Soluciones
Dificultad para detectar metales con precisión.	• Los metales colocados muy juntos impiden la calibración.	• Evite usar alfileres, incluso reloj, cuando use el MT 6 y aleje las herramientas grandes de metal del objetivo, cuando le resulte posible. • Use presión constante y leve durante la exploración. • Espere entre 5 y 10 minutos hasta que se establezca la temperatura antes de usar la unidad si fue llevada a un área con un cambio de temperatura de 5°F o mayor (por ejemplo, de un edificio con aire acondicionado al exterior en un día caluroso).
Calibración y/o lectura de profundidad no precisa debido a objetos magnéticos/ no magnéticos ubicados uno al lado del otro o encima del otro.	• Calibrado directamente sobre un objetivo de metal. • El concreto y los varillas se encuentran en segmentos que podrían fluir en momentos diferentes.	• Calibre lejos de los metales para determinar la profundidad con precisión. Mueva la unidad unas pocas pulgadas y vuelva a calibrar. • Asegúrese de que el MT 6 toque la superficie que está explorando. • No confíe en una única calibración de todo el área. Explore previamente cada segmento por separado, calibre y determine la profundidad de los objetivos de cada segmento de concreto. • Para la máxima precisión, use solo en concreto completamente seco.
Se perdió la calibración.	• Se apagó la unidad o se cambió la modalidad.	• Vuelva a calibrar cada vez que cambie la modalidad o encienda la unidad.
La alarma no parece encontrarse cerca de objetos.	• Se está explorando cerca del borde de una porción de concreto. • El objetivo está a más de 4 pulgadas (10 cm) de profundidad; la unidad no suena al mismo tiempo que cambia máximos y aparecen las barras de profundidad máxima.	• Ignore la alarma y confíe en la rueda de exploración y las barras de profundidad para buscar el objetivo.
La unidad emite un tono largo, grave y la pantalla no vuelve la normalidad.	• Se produjo un error de calibración.	• Vuelva a ubicar el MT 6 y vuelva a calibrar.
Indicador de baja batería.	• Todavía le restan menos de 5 horas de uso a la batería.	• Reemplace la batería para mantener la sensibilidad.

Advertencia de registro de la FCC, Sección 15, Clase B

Este equipo se ha probado y se encontró que cumple con los límites para un dispositivo digital Clase B, conforme a la Sección 15 de las Reglas de la FCC. Estos límites se diseñaron para ofrecer una protección razonable contra la interferencia dañina cuando el equipo se opere en una instalación residencial. Este equipo genera, usa y puede radiar energía de radio frecuencia y, si no se instala y utiliza en conformidad con las instrucciones, puede provocar interferencia dañina a las comunicaciones de radio. Sin embargo, no hay garantía de que no ocurra interferencia en una instalación en particular. Si este equipo provoca interferencia dañina a la recepción de radio o televisión, lo cual puede determinarse encendiendo y apagando el equipo, se exhorta al usuario a tratar de corregir la interferencia mediante una o más de las siguientes medidas:

- (1) Reorientar o reubicar la antena de recepción.
- (2) Incrementar la separación entre el equipo y el receptor.
- (3) Conectar el equipo en una toma eléctrica en un circuito diferente al que se conectó el receptor (si aplica).
- (4) Consultar al distribuidor o a un técnico experimentado en radio y televisión para recibir ayuda.

APPENDIX F:
FLORIDA BUILDING CODE REFERENCES
FOR GABLE END WALL CONSTRUCTION

Appendix F

Florida Building Code References for Gable End Wall Construction

Florida Building Code References for Gable End Wall Construction.

1918.3 Gable endwalls.

1918.3.1 General.

Gable endwalls shall be structurally continuous between points of lateral support.

1918.3.2 Cathedral endwalls.

Gable endwalls adjacent to cathedral ceilings shall be structurally continuous from the uppermost floor to ceiling diaphragm or to the roof diaphragm.

2115.1 Gable endwalls.

2115.1.1 General.

Gable endwalls shall be structurally continuous between points of lateral support.

2115.1.2 Cathedral endwalls.

Gable endwalls adjacent to cathedral ceilings shall be structurally continuous from the uppermost floor to the ceiling diaphragm or to the roof diaphragm.

2212.1 Gable end walls.

Gable endwalls shall be structurally continuous between points of lateral support.

2212.2 Cathedral end walls.

Gable endwalls adjacent to cathedral ceilings shall be continuous from the uppermost floor to ceilings shall be continuous from the uppermost floor to ceiling diaphragm or to the roof diaphragm.

2304.3.4 Gable endwalls.

2304.3.4.1 General.

Gable endwalls shall be structurally continuous between points of lateral support.

2304.3.4.2 Cathedral endwalls.

Gable endwalls adjacent to cathedral ceilings shall be structurally continuous from the uppermost floor to the ceiling diaphragm or to the roof diaphragm.

2304.3.4.3 Full height studs.

Full height studs may be sized using the bracing at a ceiling diaphragm for determining stud length requirements.

2318.1.8 Framing types.

2318.1.8.1

Wood framing may be any one, or a combination of, the following types: platform, balloon, plank and beam or pole type.

2318.1.8.2

Exterior stud walls of two-story buildings shall be balloon-framed with studs continuous from foundation to second floor ceiling and with second floor joists supported as indicated in Section 2319.3.3. Gable end walls in wood frame buildings shall be balloon framed with studs continuous from foundation to roof.

Exception: Platform framing is allowed in buildings over one story in height provided an additional mandatory inspection for floor level connectors is made before the framing/firestopping inspection. Gable end walls shall be balloon framed with studs continuous from top floor to roof.

2319.17.2.4.4

At gable ends, this diaphragm shall be designed to transmit lateral loads imposed on the gable to roof diaphragms and/or ceiling diaphragms where available. Where the wall supporting the gable is not designed to withstand lateral loads independent of the gable (by using shear walls or other methods), anchorage of the gable to the wall shall be designed to transmit the loads from the wall to the bracing and the bracing designed to transmit the lateral loads from the gable and wall to the roof diaphragms and/or ceiling diaphragms where available. Ceiling diaphragms that provide lateral support at gable walls shall be designed by the architect or professional engineer of record, and shall have continuous bottom chord bracing, end restraints, intermediate restraints and conditions so as to sufficiently transfer the lateral loads at the top of the gable end walls to the intersecting shear walls. In no case shall the rigid ceiling as defined in Section 2319.17.1.2 be used as an integral part of the system needed for lateral bracing of the gable end walls.