

# B

## DATA COLLECTION PROTOCOL

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The following forms were used for data collection by the building scientists visiting the sample homes.

Home ID#:

### B.1 BASIC CONTACT INFORMATION

<b>Reviewer:</b>	
<b>Manufacturer representative:</b>	Name
	Address:
	Phone/fax:
	Email:
<b>Retailer representative:</b>	Name
	Address:
	Phone/fax:
	Email:
<b>Homeowner:</b>	Name
	Address:
	Phone:

## **B.2 SITE CHARACTERIZATION**

1. Investigation Date:	Month, day and year							
2. Location, State and City or County								
3. Number of sections	Single	Double	Triple					
4. House Size:	Square feet							
5. Thermal Zone From HUD Data Plate:	Zone 1	Zone 2	Zone 3					
6. Wind zone From HUD Data Plate:	Zone I	Zone II	Zone III					
7. Date Built:								
8. HUD/Serial No. From HUD Data Plate								
9. Microclimate (not crawlspace):	Dry	Floods during Rain	Damp	Near marsh or Water	Full Sun	Shaded	Wind Exposed	Wind Protected
10. Long side of home faces:	N	S	E	W				

**B.3 OBSERVED MOISTURE PROBLEMS (PRESENT CONDITION, IDENTIFY FOR EACH PROBLEM)**

1. Problem Surface(s):	Floor		Ceiling		Walls		Other	
2. Location:	Furnace Side	Plumbing Side	Center of Home	Ends	Lights	Registers	Other	
3. Wall-Problem Wall Type:	Vinyl		Papered		Luan Tape and Textured		Combination	
4. Wall Problem Location:	Perimeter End	Perimeter Long	Interior	Marriage	Closet	Sunny	Shady	
5. Ceiling-Problem Ceiling Type:	Cathedral		Flat		Transition		Other	
6. Ceiling Problem Location:	Peak	Ex Walls	Interior Walls	Lights	Grilles	Closet	Other	
7. Floor-Problem Floor Type:	Vinyl		Carpet		Other			
8. Floor Problem Location:	Utility	Kitchen	Bath	Bed	Living	Closet	Other	
9. Structural Softening?	Y / N		1-10 sq ft		10-100 sq ft		100+	
10. Bowing and Buckling?	Y / N		1-10 sq ft		10-100 sq ft		100+	
11. Staining Present?	Y / N		1-10 sq ft		10-100 sq ft		100+	
12. Other Problem?	Y / N	Standing Water	Rust	Odors	Interior RH>65%	Condensation	Other	
13. Other Location?	Y / N		Elec. Plates		Ducts		Other	
14. When is problem most active:	Summer	Fall	Winter	Spring	Other			
15. Describe the moisture problem also when it was at its "worst condition"								

**B.4 VISUAL / INTERVIEW FINDINGS**

1. As found interior Temperatures:	___°F							
2. Summer setpoint:	___°F		Reported / Witnessed	Blower Setting On / Auto				
3. Number of People in home + Pets + Other H2O Sources?								
4. Tears in bottom board?	Y / N		Estimate Total Area		___ Sq. Ft.			
5. Ground cover present?	Y / N		Estimate area covered		___%			
6. Dryer duct dumping into crawl?	Y / N							
7. Suspect unsealed marriage line?	Y / N		Evidence:					
8. Doors that are typically closed:	Master bedroom	Bath	Other bedroom	Air Handler Zone	Most Doors		AM	PM
9. Manual vent control:	Blower Setting On / Auto		Bath		Kitchen		Other	
10. Vent control use:	Never		Some		Always			
11. Unbalanced supplies?	Mean: ___%		Std Dev: ___%		All Supplies?		Y / N	
12. Other (e.g., excessive drier use):								

## **B.5 HVAC EQUIPMENT**

1. A/C Capacity:	_____Tons				
2. Indoor Coil Type:	2-row	3-row	4-row		
3. Filter condition:	Very dirty	Dirty	Clean		
4. Coil condition:	Very dirty	Dirty	Clean		
5. Pan condition:	Very dirty	Dirty	Clean		
6. Line-set with durable seal to floor?	Y / N				
7. Condensate to outside?	Y / N				
8. Inside Blower setting (1):	Heat	Cool			
9. Inside Blower setting (2):	Low	Med-Low	Med	Med-High	High
10. Vent strategy:	Blend Air I or II	Dampered Intake at A/H	Up/On/Down-stream of coil	Hall Fan	Other
11. Vent function:	Working as Designed	Failed	Intentionally Disabled	Always Off/On	
12. Ducts:	Metal	Fiber Board	Flex	Floor	Attic
13. Supplies:	No. perim. _____	No. Center _____	No. branch _____	No. ceiling _____	

## **B.6 DIAGNOSTIC TEST RESULTS**

1. House CFM50:	
2. CFM50/sq. ft.	
3. ACH50	
4. Duct leak, total CFM at 25Pa	
5. Total D.L. as % of floor area	
6. Duct leak to out, CFM at 25Pa	
7. D.L. to out as % of floor area	
8. House-floor cavity A/H-side, B-side, house @-50Pa	
9. House-attic, house @-50 Pa and house-attic, house @-0Pa, blend air systems	
10. House-damaged wall cavity house @-50Pa	
11. House-good wall cavity house @-50Pa	
12. House-marriage wall cavity house @-50Pa	
13. House-problem wall – master bedroom closed - AHU only on	

**B.7 PRESSURE MAPPING (PA)**

1. House to out, AHU off	
2. House - out, AHU on, doors open	
3. House-out, master bedroom closed - AHU on	
4. House-out, all bedrooms or all interior doors closed- AHU on	
5. House-out, all bedrooms or all interior doors closed- AHU on - exhaust vents on - worst case	
6. Master bedroom-living room, door closed - AHU on	
7. Bedroom 2-living room, door closed - AHU on	
8. Bedroom 3- living room, door closed - AHU on	

**B.8 OTHER**

1. Describe any previous repairs:	
2. Describe wall layers if possible and if outer sheathing is "ventilated"	

**COMMENTS LEGEND:**

C1: House had extra vents in walls and/or roofs as an ill conceived moisture control measure

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C2: House interior/perimeter wall board was repaired /replaced/covered before

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C3: House floors repaired/ replaced before

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C4: House had both vinyl covered and tape and textured wallboard. Problems seen only on vinyl covered exterior walls

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C5: Very high utility bills >\$300 up to \$500/mo

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C6: Extra window a/c added as house could not be cooled

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C7: Staining on floor on cold spot directly under register

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C8: Return duct disconnected at the outdoor unit.

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C9: Unoccupied home (model center)

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C10: Mechanical attic ventilation

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C11: One room had animal care facility and large exhaust running all the time

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C12: Supply flex fallen off from time to time

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C13: Crossover not directly under furnace.

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C14: Crossover duct poorly connected.

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C15: Through the wall pressure relief vents present

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C16: Staining present – marriage wall ceiling

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C17: Staining present – under vinyl floor

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C18: Staining present – closets

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C19: Staining present – bath

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C20: Staining present – floors

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C21: Staining present – interior walls

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C22: Staining present – exterior walls

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C23: Staining present – exterior wall hallway

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C24: Staining present – switch plate off level

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C25: Standing water in AHU

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C26: Homeowner modifications to ductwork

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C27: Outlets pulled out of wall

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C28: Condensate under home

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