

Designer's and Builder's Durability Checklist

Design Phase

Durability Driver	Responsible Party <small>(D = Designer; B= Builder)</small>
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




Ground and Surface Water—Chapter 3

<input type="checkbox"/>	Have gutters been sized and specified?	D
<input type="checkbox"/>	Have downspout size, location, and outlet point been detailed?	D
<input type="checkbox"/>	Does site have adequate slope to remove roof run-off?	D
<input type="checkbox"/>	Has adequate foundation backfill material been specified?	D
<input type="checkbox"/>	Is grade compaction specifically included in construction documents / contracts?	B
<input type="checkbox"/>	Are ground clearances between framing, siding, and ground properly maintained?	B
<input type="checkbox"/>	Is foundation drain specified with proper aggregate and filter fabric?	D
<input type="checkbox"/>	Are drainpipes located below the top surface of the basement slab?	B
<input type="checkbox"/>	Is the foundation drainage system properly installed to provide positive flow of foundation water away from the building?	B
<input type="checkbox"/>	Is foundation drain outlet specified— either through daylighting or sump pump?	D
<input type="checkbox"/>	Is ground vapor barrier specified to be placed directly below the concrete slab?	D
<input type="checkbox"/>	Is foundation wall damp proofing or waterproofing specified as required?	D
<input type="checkbox"/>	Have foundation wall insulation materials been specified to limit air leakage and allow inward drying?	D
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		



Rain and Water Vapor—Chapter 4

<input type="checkbox"/>	Have adequate roof overhangs been specified, considering rain protection, wind, and shading?	D
<input type="checkbox"/>	Does the roof have adequate slope for the roofing material being used?	D
<input type="checkbox"/>	Has valley flashing been adequately detailed?	D
<input type="checkbox"/>	Has step/kickoff flashing been specified and detailed?	D
<input type="checkbox"/>	Have all roofing penetrations been adequately flashed and detailed?	B
<input type="checkbox"/>	Has roof drip edge been specified?	D
<input type="checkbox"/>	Has attic vent location and design been specified?	D
<input type="checkbox"/>	Has a secondary drainage plane been specified?	D
<input type="checkbox"/>	Has eave ice flashing been specified, if required?	D
<input type="checkbox"/>	Are the drainage plane and flashings at windows and doors properly detailed?	D
<input type="checkbox"/>	Have window head, jamb, and sill flashing details been specified?	D
<input type="checkbox"/>	Have door head flashing details been specified?	D
<input type="checkbox"/>	Has siding corner detail been specified?	D

<input type="checkbox"/>	Has air barrier detailing been specified, taking into account if the barrier is interior, exterior, or both?	D
<input type="checkbox"/>	Has the thermal envelope design been reviewed to ensure sufficient water vapor management and the ability to dry?	D
 HVAC & Plumbing—Chapter 5		
<input type="checkbox"/>	Do HVAC plans and specs include a deliberate strategy for indoor RH control, including accurate load and equipment sizing, accurate duct design, and specified exhaust ventilation?	D
<input type="checkbox"/>	Has whole-house ventilation been specified as necessary? If so, has the outside air flow been included in the load/equipment sizing?	D
<input type="checkbox"/>	Has supplemental dehumidification been considered and specified as necessary?	D
<input type="checkbox"/>	Have details been specified for plumbing located in exterior walls?	D
 Sunlight—Chapter 6		
<input type="checkbox"/>	Has shading of the building been considered and planned?	D
<input type="checkbox"/>	If reservoir cladding is used on exterior walls, have they been detailed to limit rain exposure and/or walls designed to manage inward vapor diffusion?	D
<input type="checkbox"/>	Have UV resistant materials been specified for susceptible exterior components?	D
 Insects—Chapter 7		
<input type="checkbox"/>	Are termite protection measures specified?	D
 Decay & Corrosion—Chapter 8		
<input type="checkbox"/>	Is the minimum 8” clearance (or greater) to protect wood from ground moisture clearly specified and integrated into plans?	D
<input type="checkbox"/>	Is treated lumber adequately specified (and field verified) given the exposure and the application?	D
 Natural Hazards—Chapter 9		
<input type="checkbox"/>	Have the location-specific natural hazards been evaluated, with above minimum-code details included in the design to enhance long-term durability and disaster resistance?	B & D

Communications & Education

<input type="checkbox"/>	Is the builder “taking credit” for their enhanced durability efforts in the form of third party labeling, at-a-glance communications products, etc.? See text box in Section 2.1.	
<input type="checkbox"/>	Is the builder providing home buyers with clear maintenance-related educational materials and checklists? See Section 2.2 for resources.	

Designer's and Builder's Durability Checklist

Construction Phase

Sitework		
<i>Durability Driver</i>		<i>Ch. Reference</i>
<input type="checkbox"/>	Verify site has adequate slope to remove roof run-off.	3
<input type="checkbox"/>	Verify shading of the building has been considered and planned.	6
<input type="checkbox"/>	Proved termite protection measures when appropriate.	7
<input type="checkbox"/>		
<input type="checkbox"/>		
Foundation		
<i>Durability Driver</i>		<i>Ch. Reference</i>
<input type="checkbox"/>	Verify adequate foundation backfill material is provided.	3
<input type="checkbox"/>	Provide grade compaction as specified in construction documents.	3
<input type="checkbox"/>	Provide adequate ground clearances between framing/siding and soil.	3
<input type="checkbox"/>	Provide specified foundation drain with proper aggregate and filter fabric.	3
<input type="checkbox"/>	Verify drainpipes are located below the top surface of the basement slab.	3
<input type="checkbox"/>	Properly installed foundation drainage system to provide positive flow of foundation water away from the building.	3
<input type="checkbox"/>	Verify foundation drain outlet goes either through daylighting or sump pump.	3
<input type="checkbox"/>	Verify ground vapor barrier is placed directly below the concrete slab.	3
<input type="checkbox"/>	Verify foundation wall damp proofing or waterproofing is as specified.	3
<input type="checkbox"/>	Verify foundation wall insulation materials has installed as specified to limit air leakage and allow inward drying.	3
<input type="checkbox"/>	Provide minimum 8" clearance (or greater) to protect wood from ground moisture.	8
<input type="checkbox"/>		
<input type="checkbox"/>		
Framing		
<i>Durability Driver</i>		<i>Ch. Reference</i>
<input type="checkbox"/>	Verify attic vent locations as specified.	4
<input type="checkbox"/>	Verify secondary drainage plane is installed as specified.	4
<input type="checkbox"/>	Verify eave ice flashing in installed as specified.	4
<input type="checkbox"/>	Verify the drainage plane and flashings at windows and doors are installed as specified.	4
<input type="checkbox"/>	Verify window head, jamb, and sill flashing details are installed as specified.	4
<input type="checkbox"/>	Verify air barrier construction is installed as specified.	4
<input type="checkbox"/>	Verify building shading has been installed as specified.	6
<input type="checkbox"/>	Verify treated lumber is installed as specified.	8
<input type="checkbox"/>		
<input type="checkbox"/>		
Roof		
<i>Durability Driver</i>		<i>Ch. Reference</i>
<input type="checkbox"/>	Verify adequate roof overhangs are installed as specified.	4
<input type="checkbox"/>	Verify the roof has adequate slope for the roofing material being used.	4
<input type="checkbox"/>	Verify valley flashing has been installed as specified.	4

<input type="checkbox"/>	Provide step/kickoff flashing as detailed.	4
<input type="checkbox"/>	Verify all roofing penetrations been adequately flashed.	4
<input type="checkbox"/>	Provide roof drip edge as specified.	4
<input type="checkbox"/>	Verify door head flashing details are installed as specified.	4
<input type="checkbox"/>		
<input type="checkbox"/>		
Rough-in		
<i>Durability Driver</i>		<i>Ch. Reference</i>
<input type="checkbox"/>	Verify siding corner detail is installed as specified.	4
<input type="checkbox"/>	Verify thermal envelope installation to ensure sufficient water vapor management and the ability to dry as specified.	4
<input type="checkbox"/>	Verify equipment for indoor RH control, equipment sizes, installation of duct design, and specified exhaust ventilation are as specified.	5
<input type="checkbox"/>	Verify whole-house ventilation installation if specified. If so, verify the outside air flow volume is as specified.	5
<input type="checkbox"/>	Verify supplemental dehumidification is installed as specified.	5
<input type="checkbox"/>	Verify construction details for plumbing located in exterior walls.	5
<input type="checkbox"/>		
<input type="checkbox"/>		
Finishes		
<i>Durability Driver</i>		<i>Ch. Reference</i>
<input type="checkbox"/>	When reservoir cladding is used on exterior walls, verify it is detailed to limit rain exposure and/or walls designed to manage inward vapor diffusion.	6
<input type="checkbox"/>	Provide UV resistant materials for susceptible exterior components as specified.	6
<input type="checkbox"/>		
<input type="checkbox"/>		
Landscaping		
<i>Durability Driver</i>		<i>Ch. Reference</i>
<input type="checkbox"/>	Provide gutters if sized and specified.	3
<input type="checkbox"/>	Verify downspout sizes, locations, and outlet point(s) as specified.	3
<input type="checkbox"/>		
<input type="checkbox"/>		
Miscellaneous		
<i>Durability Driver</i>		<i>Ch. Reference</i>
<input type="checkbox"/>	Insure the efforts for enhanced durability are recognized in form of third party labeling. See text box in Section 2.1.	2
<input type="checkbox"/>	Provide home buyers with clear maintenance-related educational materials and checklists. See Section 2.2 for resources.	2
<input type="checkbox"/>	Verify location-specific natural hazards been evaluated and above minimum-code details are included in the design to enhance long-term durability and disaster resistance.	9
<input type="checkbox"/>		
<input type="checkbox"/>		