

New Home Limited Warranty Agreement



This one year new home limited warranty agreement is to be used solely by members of the Oklahoma Home Builders Association. The Oklahoma Home Builders Association adopted the language herein on September 1, 2015. The Oklahoma Home Builders Association is neither a party to nor a warrantor under this New Home Limited Warranty Agreement.

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INTRODUCTION

The Residence (as defined below) has been constructed in accordance with the Warranty Standards defined in Section E below and has been accepted by Purchaser as evidenced by the Certificate of Acceptance executed by Purchaser.

Section A of this Warranty describes the protection the Warranty affords you, the Purchaser;
Section B describes what is excluded from coverage under this Warranty;
Section C explains the procedure for making claims under this Warranty;
Section D contains the general conditions of the Warranty, including the Purchaser's responsibilities;
Section E contains Warranty standards and operation of the Warranty; and
Section F defines the capitalized terms used in this Warranty.

YOU SHOULD READ THIS WARRANTY IN ITS ENTIRETY TO UNDERSTAND THE PROTECTION THIS WARRANTY PROVIDES, THE APPLICABLE EXCLUSIONS, THE WARRANTY STANDARDS, AND YOUR RESPONSIBILITIES.

SECTION A. WHAT IS COVERED BY THIS WARRANTY Subject to the exclusions set forth in Section B, this Warranty provides Purchaser with the following protection:

1. DEFECTS IN MATERIALS AND WORKMANSHIP For a period of one year from the Commencement Date, the Residence will be free from defects in materials and workmanship due to nonconformity with the Warranty Standards set forth in Section E of this Warranty.

2. MAJOR STRUCTURAL DEFECTS Beginning on the Commencement Date, and subject to the terms and conditions listed in this Warranty, the Builder warrants that the Residence will be free from Major Structural Defects (defined below).

3. BUILDER'S RESPONSIBILITIES If a defect arises in the Residence due to nonconformity with the Warranty Standards during the one year period of the Warranty, the Builder will repair, replace, or pay the Purchaser the reasonable cost of repairing or replacing the defect, as reasonably determined by Builder. If a Major Structural Defect arises in the Residence during the one year Warranty, the Builder will repair, replace or pay the Purchaser the reasonable cost of repairing or replacing the defect, limited to such actions as are necessary to restore load-bearing capability to the portion of the Residence damaged by the Major Structural Defect and which makes the Residence physically unsafe. In each instance, the Builder's responsibility for Warranty coverage under this Warranty is subject to the following:

a. In the event of a Warranty claim, the decision to repair or replace a defective item, or to pay the reasonable cost of repair or replacement, is solely the Builder's.

b. The Builder's total liability for all claims made during the term of the Warranty is limited to and shall not exceed the sale price of the Residence.

c. Action taken to cure defects will not extend the one year period of coverage specified in this Agreement.

d. In the event the Builder repairs, replaces, or pays the reasonable cost of repairs or replacement of a defective item, prior to such action, Purchaser must sign and deliver to the Builder a full and

unconditional release of all legal obligations with respect to the defect, any condition arising from the defect, and any repair or replacement of the defective item.

e. In the event the Builder repairs, replaces, or pays the reasonable cost of the repair or replacement of any defect covered by this Agreement, the Builder shall be subrogated to all of the Purchaser's rights of recovery against any person or entity. Purchaser shall execute and deliver any and all instruments and papers and to take any and all other actions necessary to secure such rights, including, but not limited to, assignment of the proceeds of any other insurance or warranties to the Builder. Purchaser shall do nothing to prejudice such rights of subrogation.

f. Notwithstanding anything to the contrary contained in this Warranty, if a claim is resolved by the payment of cash in lieu of repair or replacement, the payment shall be made to or on behalf of Purchaser and any mortgagees (or their successors), as their interests may appear, provided the Builder shall have no obligation to make payment jointly to the Purchaser and Purchaser's mortgagee, where the mortgagee has not notified the Builder in writing of its security interest in the Residence prior to the payment of the claim.

4. EMERGENCY WARRANTY SERVICE. Emergency Warranty Service, as that term is defined in Section F shall be provided by the Builder.

SECTION B. WHAT IS NOT COVERED BY THIS WARRANTY

1. ASSIGNMENT OF CONSUMER PRODUCT WARRANTIES. Consumer products are not covered by this Warranty. The Builder hereby assigns to Purchaser all rights under manufacturers' warranties covering consumer products. 'Consumer products' means all appliances, equipment and other items which are defined as consumer products for the purposes of the Magnuson-Moss Warranty Act (15 USC, §§' s 2301-2312) and which are located in the Residence on the Commencement Date. Purchaser is directed to follow the procedures in each respective manufacturer's warranty, if any, if defects are found in any consumer products.

2. DISCLAIMER OF OTHER WARRANTIESBUILDER SPECIFICALLY DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTY OF HABITABILITY, THE IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE. FURTHER, THIS WARRANTY DOES NOT COVER ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES.

3. EXCLUSIONS FROM COVERAGEExcept as otherwise specifically provided in this Warranty, the following are excluded from coverage under this Warranty:

- a. Any defect which does not result in actual physical damage or loss.
- b. All consequential and incidental damages including but not limited to damage caused by a covered defect, cost of shelter, transportation, food, moving, storage, or other incidental expenses related to relocation or loss of use during repairs.
- c. Personal property damage or bodily injury.

- d. Any claim not reported to the Builder within a reasonable time.
- e. Loss, damage or injury caused to the Residence, person or property directly or indirectly by insects (including termites), birds, vermin, rodents, or wild or domestic animals.
- f. Any loss or defect which arises while the Residence is used primarily for nonresidential purposes.
- g. Loss or damage caused by soil movement, including expansion or lateral movement of the soil which is covered by any other insurance or for which compensation is granted by legislation.
- h. Normal deterioration or normal wear and tear.
- i. Any deficiencies in or damage caused by material or work supplied by anyone other than the Builder or its employees, agents, or subcontractors, including but not limited to, the items listed as additional exclusions on the Warranty Waiver for Purchaser's Construction Activity attached to the Warranty.
- j. Damages or losses not caused by a defect in construction of the Residence by the Builder or its employee, agents, or subcontractors, but resulting instead from acts of God, including but not limited to, tornadoes, riots, civil commotion, terrorism, nuclear hazard, natural occurrences, fire, explosions, blasting, smoke, water escape, windstorms, hail, lightning, falling trees, aircraft, vehicles, flood, mud slides, sinkholes, faults, crevices, earthquakes, including land shock waves or tremors before, during or after a volcanic eruption.
- k. Loss or damage resulting from the Purchaser's failure to perform routine maintenance.
- l. Loss or damage resulting from the Purchaser's failure to minimize or prevent loss or damage in a timely manner.
- m. Loss or damage to or resulting from defects in improvements detached from the Residence, including, but not limited to, detached carports, swimming pools and other recreational facilities, driveways, walkways, patios not structurally attached, boundary and retaining walls, bulkheads, fences, shrubs, trees and plantings, french drains, septic systems, off-site improvements, or any other improvements not a part of the Residence itself.
- n. Loss or damage to real or personal property which is not part of the Residence.
- o. Loss or damage to any landscape items including, but not limited to, trees (whether existing or newly planted), shrubs and sod.
- p. Loss or damage resulting from, or made worse by, changes in the grading of the property surrounding the Residence by anyone except the Builder, his employees, agents, or subcontractors, or changes in the grading or drainage resulting from erosion or subsidence.

q. Loss or damage resulting from, or made worse by, modifications or additions to the Residence, or property under or around the Residence, made after the Commencement Date.

r. Loss or damage resulting from, or made worse by, dampness, condensation or heat build-up caused by the failure of the Purchaser to maintain proper ventilation.

s. Any defect, damage or loss which is caused, or made worse by, failure to comply with a manufacturer's warranty requirements concerning Fixtures, Appliances or Items of Equipment (defined below).

t. Loss or damage resulting from, or made worse by, negligent maintenance or operation of the Residence or its systems by anyone other than the Builder or its employees, agents or subcontractors.

u. Loss or damage resulting from a condition not resulting in actual physical damage to the Residence, including uninhabitableness or health risk due to the presence or consequences of insects, unacceptable levels of mold, mildew, radon, formaldehyde, carcinogenic substances or other pollutants and contaminants, or the presence of hazardous or toxic materials or other fungi, dampness of atmosphere or extremes of temperature.

v. Loss or damage caused directly by or indirectly by flood, surface water, overflow of body of water, humidity or spray from any of those (whether or not driven by wind), water which backs up from sewers or drains, changes in the water table which are not reasonably foreseeable, or water below the surface of the ground (including water which exerts pressure on or seeps or leaks through the building, sidewalk, driveway, foundation, swimming pool or other structure), wetlands, springs or aquifers.

w. Violations of applicable building codes or ordinances after final approval from the applicable governmental agency unless such violation results in an observable defect.

x. Any loss or damage resulting from weight and/or performance of any overly heavy object, such as a waterbed or pool table.

SECTION C. HOW TO MAKE A CLAIM UNDER THIS WARRANTY Before making a claim, Purchaser is encouraged to carefully read and review the Warranty in its entirety and particularly the Warranty Standards contained herein to determine whether the defect is covered.

1. Give Notice To Builder of Defects To invoke the protection offered by this Warranty, Purchaser must send a written notice to the Builder clearly describing the defect in reasonable detail.

2. Giving Notice for Emergency Warranty Service. If the claim qualifies for Emergency Warranty Service as defined in Section F, Purchaser may call the Builder directly or the subcontractor responsible for such area (if known) directly. If the Purchaser contacts anyone other than the Builder for Emergency Warranty Service, then the Purchaser is responsible for the costs associated with any repair until such time as the Builder determines that the work qualified as Emergency Warranty Service. Regardless of the type of notice given, the Builder is only responsible for the cost of repairs that qualify as Emergency Warranty Service.

3. Information Which Must Be Provided Purchaser's claim and request for Warranty service should include, at a minimum:

- a. Purchaser's name, address and phone number where Purchaser can be reached during business hours;
- b. The lot number and subdivision where the Residence is located (if known) and/or the street address of the Residence.
- c. A complete description of the problem. (For example, "Guest bath-cold water line leaks under sink" rather than "plumbing problem in bathroom.")

Upon receipt of a request for Warranty service, Builder's representative will contact Purchaser to discuss the request and to determine appropriate action. If subcontractors are required to complete repairs, the Builder will notify the appropriate persons/entities and the Purchaser will be contacted directly by such subcontractors to schedule the Warranty work.

4. Deadline for Making Claim In order to constitute a valid claim under this Warranty, written notice of a coverage defect occurring within the one year Warranty period must be received by the Builder prior to the expiration of the one year Warranty period.

5. Right of Access and Cooperation Purchaser shall provide the Builder and subcontractors with reasonable weekday access during normal business hours in order to perform Warranty repairs. Failure by Purchaser to provide such access shall relieve the Builder of all obligations under this Warranty Agreement with regard to the claim in question.

6. Cooperation. Purchaser must cooperate with Builder's inspection and investigation of Purchaser's claim. Builder may request information from Purchaser regarding your claim. Purchaser agrees to provide information from Builder's reasonable requests.

7. Latent Defects. When a claim is made for a defective condition that cannot be observed or determined under normal conditions, it is the Purchaser's responsibility to substantiate that the defective condition exists. The costs involved in substantiating the condition shall be paid by the Purchaser.

8. Warranty Disputes. Any and all claims, disputes, and controversies between the Purchaser and Builder relating to the condition of the Residence or the method of construction used by Builder shall be subject to this Section C and the method of dispute resolution provided in this Section C(8) is a condition precedent to pursuing any such matter in arbitration, as required in Section D(3)(h). Such disputes shall be handled as follows:

- a. At least ninety (90) days before submitting any claim involving a defective condition within the Residence to arbitration, Purchaser shall send to Builder a Notice of Defects (as defined herein) via certified mail, return receipt requested. The Notice of Defects shall be a letter from Purchaser addressed to Builder, and which contains the following information: (i) the name, address and telephone number of Purchaser; (ii) the address of the Residence; (iii) a detailed and itemized list of each and every item or condition which Purchaser deems defective; and (iv) copies of all documentation produced by third-parties who have inspected the items or conditions which Purchaser deems defective (the "Notice of Defects").

b. Within fifteen (15) days after receipt of the Notice of Defects, Builder shall provide a written response to the Purchaser which either: (i) offers to repair, replace or compensate Purchaser; or (ii) requests an inspection of the Residence. Builder's offer to repair, replace or compensate must provide reasonable details of the repairs or replacements Builder will make and a reasonable estimate of when the repair, replacement or compensation will be made.

c. Within fifteen (15) days of the Builder's response, Purchaser must provide written response to the Builder and may include a counteroffer to Builder's offer to compensate for, repair, or replace any alleged defects, if applicable. Within fifteen (15) days of Purchaser's response, Builder may make a final offer to repair some or all of the defects identified in the Notice of Defects.

d. If Builder's response to the Notice of Defects requests the opportunity to inspect the defects identified in the Notice of Defects, Purchaser shall make the Residence available for such inspection within fifteen (15) days after Purchaser receives the Builder's response.

e. If Builder and Purchaser cannot resolve any outstanding issues between after following the procedure provided in this Section C(8), then either party may proceed with an action against the other in arbitration as provided in Section D(2)(h) of this Warranty.

SECTION D. GENERAL TERMS AND CONDITIONS

1. PURCHASER'S RESPONSIBILITIES. It is the Purchaser's sole responsibility to maintain the Residence, including but not limited to preserving soil drainage conditions, caulking, cleaning, resealing or repainting of finished surfaces as necessary, routine maintenance of mechanical systems, etc. The Warranty Standards describe many of these items in the "Discussion" section. Any damage or defect caused or worsened by neglect, or improper maintenance and operation of the Residence or the surrounding property will not be covered by this Warranty. Of particular importance is the maintenance of lot drainage patterns established by the Builder. The lot final grade is established to ensure adequate drainage away from the Residence. It is the Purchaser's responsibility to maintain the drainage as established. If the drainage pattern is altered either by action taken directly or instigated by the Purchaser, or as a result of neglect of maintenance, this Warranty does not provide a remedy. To minimize the probability of movement and displacement in the foundation caused by moisture content variations, the following post-construction maintenance and requirements must be performed by the Purchaser (failure to do so by the Purchaser will void the coverage provided by the Warranty):

a. Purchaser is responsible for maintaining lot grades. The grade around the foundation of the Residence must be maintained by the Purchaser so as to cause surface drainage to flow away from the foundation. Furthermore, water must not be permitted to "pond" or become trapped in localized areas against the foundation as this can cause variations in moisture content that can damage the foundation.

b. Watering must be done by Purchaser in a uniform systematic manner as equally as possible on all sides of the foundation of the Residence to keep the soil moist, NOT SATURATED. Areas of soil that do not have ground cover may require more moisture as they are more susceptible to evaporation, causing a moisture content imbalance.

c. During extreme hot and dry periods, close observation should be made around the foundation to ensure adequate watering is provided, preventing soil from separating or pulling back from the foundation.

d. Gutters and downspouts must be maintained by the Purchaser to prevent injection of moisture in to soil from roof run-off in localized areas. Downspout extensions must be maintained to discharge a minimum of five feet away from the foundation wall.

e. If the Purchaser plants a tree closer than 20 feet to the foundation, this Warranty will not address damage caused thereby. Precautionary measures such as the installation of root shields or root injection system should be taken to maintain moisture equilibrium.

f. Placing flower gardens and beds or shrubs next to the foundation and watering these areas heavily will generally result in a net increases of the soil moisture content in that localized area. This may result in soil expansion in that localized area of the foundation. The Purchaser must maintain a balanced soil moisture content around the perimeter of the foundation.

2. OTHER GENERAL TERMS AND CONDITIONS The following terms and conditions of general applicability will govern the interpretation and operation of this Warranty:

a. This Warranty is separate and apart from and cannot be affected, altered or amended in any way by any other agreement which Purchaser may have.

b. The Warranty period for any item completed by the Builder after the Commencement Date shall be deemed to have begun on the Commencement Date.

c. All notices required under the Warranty must be in writing and sent by certified mail, postage prepaid, return receipt requested. Written notice may also be sent by email or text message, so long as the email address or mobile telephone number from which the notice was sent is owned by the sender of the notice and known by the receiver of such notice.

d. Should any provision of the Warranty be determined by a court of competent jurisdiction or applicable arbitration panel or arbitrator to be unenforceable, that determination will not affect the validity of the remaining provisions.

e. This Warranty is binding on the Builder, its successors and assigns and binding on the Purchaser. This Warranty shall not be assignable by Purchaser by operation of law or otherwise. No beneficiaries are or shall be created hereunder, including but not limited to persons or entities who have purchased the Residence from the Purchaser.

f. This Warranty shall be interpreted and enforced in accordance with laws of the State of Oklahoma.

g. If performance by the Builder of any of its obligations under the Warranty is delayed by an event not resulting from the Builder's own conduct, such performance will be excused until the delaying effects of the event are remedied. Such events include, but are not limited to, acts of God or a common enemy, war, riot, terrorism, civil commotion or sovereign conduct, or acts or omissions by the Purchaser or any other person not a party to this Warranty.

h. Any and all claims, disputes and controversies of every kind and nature between the Builder and

Purchaser, including but not limited to unresolved disputes over Warranty claims shall be submitted to binding arbitration pursuant to the procedures established and maintained by the _____ . Subject to the foregoing obligations to arbitrate all disputes between the parties hereto, the parties may elect to proceed with other Better Business Bureau alternative dispute resolution means, including conciliation and/or mediation. The parties hereby stipulate and agree that the provisions of this section shall be a complete defense to any suit, action or proceeding instituted in any federal, state or local court or before any administrative tribunal with respect to any controversy, dispute or claim arbitrable as set forth herein. Furthermore, the obligations inuring to each party under this section to submit any and all claims, disputes and controversies to binding arbitration shall survive the execution of this Warranty and expiration of all Warranty periods under this Warranty.

i. Whenever appropriate, it is intended that the use of one gender in this Agreement includes all genders and the use of the singular includes the plural.

SECTION E. WARRANTY STANDARDS

1. PURPOSE OF THE STANDARDS This section establishes the standards by which it shall be determined if the Residence has a problem which is covered by the Warranty and the obligation of the Builder to correct it. Where specific standards and obligations are not provided, the standard shall be the accepted industry practice for workmanship and materials in existence during construction.

2. CONDITIONS APPLICABLE Warranty coverage is conditioned upon Purchaser's proper maintenance of the Residence and surrounding property to prevent damage due to neglect, abnormal use or improper maintenance.

3. STANDARDS APPLICABLE DURING WARRANTY TERM The following "Observations," "Performance Guidelines," "Corrective Measures" and "Discussions" outline the various standards for residential construction and shall apply to all substantive areas of coverage under this Warranty:

9-2-3 Observation: A stair riser or tread squeaks.

Performance Guideline: Loud squeaks caused by a loose stair riser or tread are considered excessive; however, totally squeak-proof stair risers or treads cannot be guaranteed.

Corrective Measure: The contractor will refasten any loose risers or treads or take other reasonable and cost-effective corrective action to eliminate squeaking without removing treads or ceiling finishes.

Discussion: Squeaks in risers or treads may occur when a riser has come loose from the tread, and is deflected by the weight of a person and rubs against the nails that hold it in place. Movement may occur between the riser and the tread or other stairway members when one tread is deflected while the other members remain stationary. Using trim screws to fasten the tread to the riser from above sometimes will reduce squeaking. If there is no ceiling below, gluing or nailing the riser to the tread or shimming will reduce squeaks but the complete elimination of squeaks is practically impossible.

Site Work

1-1-1 Observation: The ground has settled around the foundation, over utility trenches, or in other areas.

Performance Guideline: Settled ground around foundation walls, over utility trenches, or in other filled

areas will not interfere with water drainage away from the home.

Corrective Measure: If the contractor provided final grading, one time only during the warranty period, the contractor will fill areas that settle more than 6 inches and that affect proper drainage. It is the consumer's responsibility to replace shrubs, grass, other landscaping, pavement, sidewalks, or other improvements affected by placement of such fill.

1-1-2 Observation: The property does not properly drain.

Performance Guideline: To ensure proper drainage within 10 feet around the home, the contractor will establish necessary grades and swales within the property if the work is included in the contract. Standing water will not remain for extended periods within 10 feet of the home after a rain (generally no more than 24 hours), except in swales that drain other areas or in areas where sump pumps receive discharge. In these areas a longer period can be anticipated (generally no more than 48 hours). Water may stand longer during periods of heavy rains, especially when heavy rains occur on successive days. No grading determination will be made while frost or snow is on the ground or while the ground is saturated.

Corrective Measure: If grading is part of the contract, the contractor is responsible for initially establishing the proper grades and swales.

Discussion: Grass and other landscaping are integral components of the storm water management practice needed to minimize erosion from the property. It is the consumer's responsibility to maintain grass and other landscaping to help ensure the property drainage system functions properly. The consumer is responsible for maintaining such grades and swales once the contractor has properly established them.

1-1-3 Observation: The property has soil erosion.

Performance Guideline: The contractor is not responsible for soil erosion.

Corrective Measure: No corrective action is required by the contractor. The contractor is not responsible for erosion due to acts of God, weather conditions, property alteration by the consumer, construction on adjacent properties, utility company's work, improper consumer maintenance, or other conditions beyond the contractor's control.

1-1-4 Observation: Water from a nearby or adjacent property flows onto the consumer's property.

Performance Guideline: The contractor is responsible for providing a reasonable means of draining water from rain, melting snow, or ice on the property and in the immediate area of the home, but the contractor is not responsible for water flowing from a nearby or adjacent property.

Corrective Measure: No corrective action is required by the contractor.

1-1-5 Observation: Existing trees, shrubs, or other vegetation have been damaged in the course of construction.

Performance Guideline: The contractor will make a reasonable and cost-effective effort to preserve existing landscaping as predetermined by the contractor and consumer, but the survival of existing landscaping cannot be guaranteed.

Corrective Measure: No corrective action is required by the contractor.

Foundation

General

2-1-1 Observation: The foundation is out of square.

Performance Guideline: As measured at the top of the foundation wall, the diagonal of a triangle with sides of 12 feet and 16 feet will be no more than 1 inch more or less than 20 feet.

Remodeling Specific Guideline: A contractor and consumer may agree to build an addition out of square in order to keep a new exterior wall on line with an existing wall of an out-of-square home.

Corrective Measure: The contractor will make necessary modifications to the foundation not complying with the performance guideline for squareness to provide a satisfactory appearance. The contractor may square the first-floor deck or walls by cantilevering over the foundation or locating the deck or walls inset from the outside face of the foundation.

Discussion: Squareness is primarily an aesthetic consideration. The corrective measure emphasizes the primarily aesthetic nature of squareness and makes the criterion for correction a satisfactory appearance. This allows the contractor to make either a structural change or some cosmetic modification as is most appropriate. There are many instances in which the squareness of a foundation is inconsequential because subsequent construction provides an opportunity to make corrections.

2-1-2Observation: The foundation is not level.

Performance Guideline: This guideline applies only when the levelness of the foundation adversely impacts subsequent construction. As measured at the top of the foundation wall, no point will be more than 1/2 inch higher or lower than any point within 20 feet.

Remodeling Specific Guideline: The contractor and the consumer may agree to build an addition out of level in order to keep the floor of an addition on the same plane, and the roof ridge on the same line, as those of an existing, out-of-level structure.

Corrective Measure: The contractor will make necessary modifications to any part of the foundation or to subsequent construction to meet the performance guideline for levelness. This can be affected by leveling the sills with shims, mortar, appropriate fillers, or other methods.

Discussion: There are many instances in which the levelness of a foundation is not of consequence because subsequent construction provides an opportunity to make corrections.

2-1-3Observation: There is a crack in a concrete footing.

Performance Guideline: Cracks greater than 1/4 inch in width are considered excessive.

Corrective Measure: The contractor will repair any cracks in excess of the performance guideline, using a material designed to fill cracks in concrete.

Concrete Slabs

2-2-1Observation: A concrete slab within the structure has separated or moved at control (expansion and contraction) joints.

Performance Guideline: Concrete slabs within the structure are designed to move at control joints.

Corrective Measure: Because this is a normal occurrence, no corrective action is required by the contractor.

Discussion: Control joints are placed in concrete for the very purpose of encouraging cracking to take place at the joints instead of in random locations.

2-2-2Observation: Efflorescence is present on the surface of the basement floor.

Performance Guideline: If the efflorescence is caused by basement water leakage (actual flow and accumulation), the contractor will eliminate the leaks into the structure.

Corrective Measure: The contractor will repair to meet the performance guideline.

Discussion: Efflorescence is evidenced by the presence of a white film on the surface of the concrete. It is a particularly common occurrence where masonry or concrete are in contact with high moisture levels as may be found in basements.

2-2-3Observation: The concrete floor or slab is uneven.

Performance Guideline: Except where the floor or portion of the floor has been designed for specific drainage purposes, concrete floors in living areas will not have pits, depressions, or areas of unevenness exceeding 3/8 inch in 32 inches.

Corrective Measure: The contractor will correct or repair the floor to meet the performance guideline.

Discussion: A repair can be accomplished by leveling the surface with a material designed to repair uneven concrete.

Remodeling Specific Guideline: Existing concrete floors or slabs may be uneven. In these situations, no corrective action is required by the contractor.

2-2-4Observation: The concrete floor slab is cracked.

Performance Guideline: Minor cracks in concrete floor slabs are normal. Cracks exceeding 3/16 inch in width or 3/16 inch in vertical displacement will be repaired if the slab is in conditioned space or the crack interferes with the installation of finish flooring.

Corrective Measure: The contractor will repair cracks that do not meet the performance guideline using a material designed to fill cracks in concrete.

2-2-5Observation: Interior concrete is pitting or spalling. Pitting is evidenced by concrete that has chipped. Spalling is evidenced by concrete that has flaked or peeled from the outer surface.

Performance Guideline: Interior concrete surfaces will not pit or spall unless the deterioration is caused by factors outside of the contractor's control.

Corrective Measure: The contractor will repair concrete surfaces using materials designed for this purpose.

2-2-6Observation: The interior concrete slab has a loose, sandy surface, sometimes referred to as "dusting."

Performance Guideline: The surface will not be so sandy that it causes a problem when the finish flooring is applied.

Corrective Measure: The surface will be repaired to be suitable for the finish flooring that the contractor had reason to anticipate would be applied.

Concrete Block Basement and Crawl Space Walls

2-3-10Observation: A concrete block basement or crawl space wall is cracked.

Performance Guideline: Cracks in concrete block basement or crawl space walls will not exceed 1/4 inch in width.

Corrective Measure: The contractor will repair cracks to meet the performance guideline using a material designed to fill cracks in concrete.

Discussion: Shrinkage cracks are common in concrete block masonry and should be expected in crawl space and basement walls. Cracks may be vertical, diagonal, horizontal, or in stepped-in masonry joints.

2-3-2Observation: A concrete block basement wall is out of plumb.

Performance Guideline: Block concrete walls will not be out of plumb greater than 1 inch in 8 feet when measured from the base to the top of the wall.

Remodeling Specific Guideline: If tying into an existing foundation that is out of plumb, the contractor and consumer will review the existing conditions and scope of work. The contractor will make a reasonable and cost-effective effort to meet the performance guideline while complying with the existing building code.

Corrective Measure: The contractor will repair any deficiencies in excess of the performance guideline. If the wall is to remain unfinished according to the contract, and the wall meets building codes requirements as evidenced by passed inspections, then no corrective action is required by the contractor.

2-3-3Observation: A concrete block basement wall is bowed.

Performance Guideline: Concrete block walls will not bow in excess of 1 inch in 8 feet.

Corrective Measure: The contractor will repair any deficiencies in excess of the performance guideline. If the wall is to remain unfinished according to the contract, and the wall meets building codes requirements as evidenced by passed inspections, then no corrective action is required.

2-3-4Observation: Efflorescence is present on the surface of the basement or crawl space block.

Performance Guideline: If the efflorescence is caused by water leakage (actual flow and accumulation), the contractor will eliminate the leak into the structure.

Corrective Measure: The contractor will repair to meet the performance guideline.

Discussion: Efflorescence is a typical condition caused by moisture reacting with the soluble salts in concrete and forming harmless carbonate compounds. It is evidenced by the presence of a white film on the surface of the concrete. It is a particularly common occurrence where masonry or concrete are in contact with high moisture levels as may be found in basements or crawl spaces.

Poured Concrete Basement and Crawl Space Walls

2-4-1Observation: A poured concrete basement wall is out of plumb.

Performance Guideline: Finished concrete walls will not be out of plumb greater than 1 inch in 8 feet when measured vertically.

Remodeling Specific Guideline: If tying into an existing foundation that is out of plumb, the contractor and consumer will review the existing conditions and scope of work. The contractor will make a reasonable and cost-effective effort to meet the performance guideline while complying with the existing building code.

Corrective Measure: The contractor will repair any deficiencies in excess of the performance guideline. If the wall is to remain unfinished according to contract and the wall meets building codes requirements as evidenced by passed inspections, then no corrective action is required by the contractor.

2-4-2Observation: An exposed concrete wall has pits, surface voids, or similar imperfections in it.

Performance Guideline: Surface imperfections larger than 1 inch in diameter or 1 inch in depth are considered excessive.

Corrective Measure: The contractor will repair imperfections that do not meet the performance guideline, using a material designed to fill holes in concrete.

Discussion: Pits, surface voids, and similar imperfections are called "air surface voids" and are caused by air trapped between the concrete and concrete form interface. Air surface voids are not structurally significant. The technical term for larger voids is honeycomb. These must be dealt with in accordance with this guideline. The repaired area is unlikely to match the color or texture of the surrounding concrete.

2-4-3Observation: A poured concrete basement wall is bowed.

Performance Guideline: Concrete walls will not bow in excess of 1 inch in 8 feet when measured from the base to the top of the wall.

Corrective Measure: The contractor will repair any deficiencies in excess of the performance guideline. If the wall is to remain unfinished according to contract and the wall meets building codes as evidenced by passed inspections, then no corrective action is required by the contractor.

2-4-4Observation: A poured concrete basement or crawl space wall is cracked.

Performance Guideline: Cracks in poured walls will not exceed 1/4 inch in width.

Corrective Measure: The contractor will cosmetically repair any cracks to meet the performance guideline, using a material designed to fill cracks in concrete.

Discussion: Shrinkage cracks and other cracks are common and are inherent in the drying process of poured concrete walls. They should be expected in these walls due to the nature of concrete. The only cracks considered under warranty claims are cracks that permit water penetration or horizontal cracks that cause a bow in the wall.

2-4-5Observation: A cold joint is visible on exposed poured concrete foundation walls.

Performance Guideline: A cold joint is a visible joint that indicates where the pour terminated and continued. Cold joints are normal and should be expected to be visible. Cold joints should not be an actual separation or a crack that exceeds 1/4 inch in width.

Corrective Measure: The contractor will cosmetically repair any cold joint to meet the performance guideline, using a material designed to fill cracks in concrete.

2-4-6Observation: Efflorescence is present on the surface of the poured concrete basement wall.

Performance Guideline: If the efflorescence is caused by basement water leakage, (actual flow or accumulation), the contractor will eliminate the leak into the structure.

Corrective Measure: The contractor will repair to meet the performance guideline.

Discussion: Efflorescence is a typical condition caused by moisture reacting with the soluble salts in concrete and forming harmless carbonate compounds. It is evidenced by the presence of a white film on the surface of the concrete. It is a particularly common occurrence where masonry or concrete are in contact with high moisture levels as may be found in basements or crawl spaces.

Moisture and Water Penetration

Basement Walls and Floor

2-5-1Observation: Dampness is evident on basement walls or the floor.

Performance Guideline: The contractor is not responsible for dampness caused by condensation of water vapor on cool walls and floors. Dampness caused by moisture intrusion is unacceptable.

Corrective Measure: The contractor will repair to meet the performance guideline unless the consumer's action caused the dampness.

Discussion: Excessive dampness may be caused by consumer action, such as changing the grade around the home or irrigation systems, and is not the contractor's responsibility.

2-5-2Observation: Water has accumulated in the basement.

Performance Guideline: Water will not accumulate in the basement.

Corrective Measure: The contractor will take such actions as are necessary to prevent water from accumulating in the basement unless consumer action caused the accumulation.

Discussion: The consumer should maintain proper grade away from the dwelling. Crawl Spaces

2-5-3Observation: Water accumulates in a vented crawl space.

Performance Guideline: Crawl spaces should be graded and proper exterior foundation drains installed as required by the prevailing building codes to prevent water from accumulating.

Corrective Measure: The contractor will take corrective measures to meet the performance guideline.

2-5-4Observation: Condensation is evident on the vented crawl space surfaces.

Performance Guideline: The contractor will install the ventilation and vapor barrier required by the prevailing building code.

Corrective Measure: The contractor will take corrective actions to meet the performance guideline. If the crawl space is ventilated as required by applicable building codes, then no corrective action is required by the contractor. Further reduction of condensation is a consumer maintenance responsibility.

Discussion: Temporary conditions that cause condensation that cannot be eliminated by ventilation and a vapor barrier may include:

- Night air gradually cools the interior surfaces of the crawl space. In the morning, moisture picked up by sun-warmed air migrates into the crawl space and condenses on cool surfaces.
- At night, outside air may rapidly cool foundation walls and provide a cool surface on which moisture may condense.
- If the home is left unheated in the winter, floors and walls may provide cold surfaces on which moisture in the warmer crawl space air may condense.
- Excessive moisture inside a heated home may reach the dew point within, or on the colder bottom surface of, vapor permeable floor insulation. Moisture on or under the poly vapor barrier may result from condensation or hydrostatic pressure. This is normal. The consumer can reduce condensation, if necessary, by enclosing the crawl space and dehumidifying (closed crawl) or by enclosing and intentionally heating and cooling the crawl space (conditioned crawl).

Structural Columns, Posts, or Piers

2-6-1Observation: An exposed wood column is bowed or is out of plumb.

Performance Guideline: Exposed wood columns will not bow or be out of plumb more than 3/4 inch in 8 feet at substantial completion of the project.

Corrective Measure: The contractor will repair any deficiencies in excess of the performance guideline.

Discussion: Wood columns may become distorted as part of the drying process. Bows and other imperfections that develop after installation cannot be prevented or controlled by the contractor.

2-6-2Observation: An exposed concrete column is installed bowed or out of plumb.

Performance Guideline: Exposed concrete columns will not be installed with a bow in excess of 1 inch in 8 feet. They should not be installed out of plumb in excess of 1 inch in 8 feet.

Corrective Measure: The contractor will repair any deficiencies in excess of the performance guideline.

2-6-3Observation: A masonry column or pier is out of plumb.

Performance Guideline: Masonry columns or piers should not be constructed out of plumb in excess of 1 inch in 8 feet.

Corrective Measure: The contractor will repair any deficiencies in excess of the performance guideline.

2-6-4Observation: A steel post is out of plumb.

Performance Guideline: Steel posts will not be out of plumb in excess of 3/8 inch in 8 feet when measured vertically.

Corrective Measure: The contractor will repair any deficiencies in excess of the performance guideline.

Interior Floor Construction

Floor System

3-1-1Observation: Springiness, bounce, shaking, or visible sag is present in the floor system.

Performance Guideline: All beams, joists, headers, and other dimensional or manufactured structural members will be sized according to the manufacturers' specifications or applicable building codes.

Corrective Measure: The contractor will reinforce or modify, as necessary, any member of the floor system not meeting the performance guideline.

Discussion: Deflection may indicate insufficient stiffness in the lumber, or may reflect an aesthetic consideration independent of the strength and safety requirements of the lumber. Structural members are required to meet standards for both stiffness and strength. If a consumer expresses a preference to the contractor before construction, the contractor and the consumer may agree upon a higher standard.

Beams, Columns, and Posts

3-2-1Observation: An exposed wood column, post, or beam is split.

Performance Guideline: Sawn wood columns, posts, or beams will meet the grading standard for the species used.

Corrective Measure: The contractor will repair or replace any wood column, post, or beam that does not meet the performance guideline. Filling splits with appropriate filler is an acceptable method of repair.

Discussion: Columns, posts, and beams will sometimes split as they dry after installation. Splitting is

acceptable and is not a structural concern if the columns, posts, or beams have been sized according to manufacturer's specifications or applicable building codes. Some materials have inherent cracks or imperfections; these do not require repair.

3-2-2Observation: An exposed wood beam or post is twisted or bowed.

Performance Guideline: Exposed wood posts and beams will meet the grading standard for the species used. Posts and beams with bows and twists exceeding 3/4 inch in an 8-foot section will not be installed, and those that develop bows and twists exceeding 3/4 inch in an 8-foot section are considered excessive.

Corrective Measure: The contractor will repair or replace any beam or post with a bow or twist that exceeds the performance guideline.

Discussion: Beams and posts, especially those 3 and 1/2 inches or greater in thickness (which normally are not kiln dried) will sometimes twist or bow as they dry after milling or installation. Twisting or bowing is usually not a structural concern if posts and beams have been sized according to manufacturers' specifications or applicable building codes.

3-2-3Observation: An exposed wood beam or post is cupped.

Performance Guideline: Cups exceeding 1/4 inch in 5 and 1/2 inches are considered excessive.

Corrective Measure: The contractor will repair or replace any beam or post with a defect that does not meet the performance guideline.

Discussion: Cupped lumber is lumber that has warped or cupped across the grain in a concave or convex shape. Beams and posts, especially those 3 and 1/2 inches or greater in thickness (which normally are not kiln dried), will sometimes cup as they dry after milling or installation.

Subfloor and Joists

3-3-1Observation: The wood subfloor squeaks or appears loose.

Performance Guideline: Although a totally squeak-proof floor cannot be guaranteed, frequent, loud squeaks caused by improper installation or loose subflooring are deficiencies.

Corrective Measure: The contractor will refasten any loose subfloor or take other corrective action to attempt to reduce squeaking to the extent possible within reasonable repair capability without removing floor or ceiling finishes.

Discussion: There are many possible causes of floor squeaks. One of the more common sources of squeaks is wood moving along the shank of a nail. Squeaking frequently occurs when lumber, floor sheathing, or boards move slightly when someone walks over them. Boards and floor sheathing may become loose due to shrinkage of the floor structure or subfloor as it dries after installation or seasonal changes in temperature and humidity. Nails used to fasten metal connectors (joist hangers, tie-down straps, etc.) may cause squeaks. The nature of wood and construction methods makes it practically impossible to eliminate all squeaks during all seasons. Fastening loose subflooring with casing nails into carpet and counter sinking the head is an acceptable method of repair. Snap-off screws may also be used to refasten subflooring through carpet.

3-3-2Observation: A wood subfloor is uneven.

Performance Guideline: Subfloors will not have more than a 1/4 inch ridge or depression within any 32-inch measurement. Measurements should not be made at imperfections that are characteristic of the material used. This guideline does not cover transition points between different materials.

Remodeling Specific Guideline: The consumer and the contractor may agree to build a wood

floor out of level in order to match or otherwise compensate for preexisting conditions. **Corrective Measure:** The contractor will correct or repair the subfloor to meet the performance guideline.

3-3-3Observation: A wood subfloor is out of level.

Performance Guideline: The floor should not slope more than 1/2 inch in 20 feet. Crowns and other lumber characteristics that meet the standards of the applicable grading organization for the grade and species used are not defects. Deflections due to overloading by the consumer are not the contractor's responsibility.

Remodeling Specific Guideline: The contractor and the consumer may agree to build an addition out of level in order to keep the floor of an addition on the same plane, and the roof ridge on the same line, as those of an existing, out-of-level structure, or to compensate for some other preexisting condition.

Corrective Measure: The contractor will make a reasonable and cost-effective effort to modify the floor to comply with the performance guideline.

Discussion: Sloped floors have both an aesthetic and functional consideration. Measurements for slope should be made across the room, not in a small area.

3-3-4Observation: Deflection and/or flex is observed in a floor system constructed of wood I-joists, floor trusses, or similar products.

Performance Guideline: All wood I-joists and other manufactured structural components in the floor system will be sized and installed as provided in the manufacturers' instructions and applicable building codes.

Corrective Measure: The contractor will reinforce or modify as necessary any floor component that does not meet the performance guideline.

Discussion: Some deflection and/or flex is normal and is not an indication of deficiency in the strength and safety of the product. If a consumer requests it, the contractor and consumer may agree to more stringent criteria in writing prior to construction.

3-3-5Observation: Remodeling Specific Guideline: Wood flooring is not level at the transition of an existing floor to a room addition floor.

Performance Guide

line: Flooring at a transition area will not slope more than 1/8 inch over 6 inches unless a threshold is added. Overall step-down, unless previously agreed upon with the consumer, will not exceed 1 1/8 inches. Variations caused by seasonal or temperature changes are not a defect.

Corrective Measure: The contractor will correct the floor transition to meet the performance guideline.

Discussion: All wood members shrink and expand seasonally, with variations in temperature and humidity, and with aging. After installation, dimensional lumber can shrink up to 1/2 inch for some boards. If the flooring, subfloor, or underlayment was not purposely overlapped onto the existing floor, the resulting irregularity is not a defect, but a natural result and characteristic of the wood's aging process. Either the old or the new floors may slope along the floor joist span. Joists in an older home may have deflected under load. This and other conditions may cause a hump at the juncture of the old to new.

3-3-6Observation: Remodeling Specific Guideline: The floor pitches to one side in the door opening between the existing construction and the addition.

Performance Guideline: If the pitch is the result of the floor of the existing dwelling not being level,

then in most situations a transition threshold will be the most appropriate and acceptable means of addressing the condition.

Corrective Measure: The contractor will make a reasonable and cost-effective effort to meet the performance guideline.

Walls

Wall Framing

4-1-1Observation: A framed wall is not plumb.

Performance Guideline: The interior face of wood-framed walls will not be more than 3/8 inch out of plumb for any 32 inches in any vertical measurement.

Remodeling Specific Guideline: The contractor and consumer may agree to intentionally build walls out of plumb to match the existing structure to accommodate or compensate for inaccuracies in the existing structure, and to disregard the performance guideline to match a preexisting structural condition.

Corrective Measure: The contractor will repair the wall to meet the performance guideline.

4-1-2Observation: The wall is bowed.

Performance Guideline: Walls will not bow more than 1/2 inch out of line within any 32 inch horizontal measurement, or 1/2 inch out of line within any 8 foot vertical measurement.

Remodeling Specific Guideline: If new wall cladding is installed on existing framed walls, the contractor and consumer may agree to straighten the wall as part of the scope of work, or to install new cladding over existing framing, and to disregard the performance guideline to match a preexisting structural condition.

Corrective Measure: The contractor will repair the wall to meet the performance guideline.

Discussion: All interior and exterior walls have slight variances in their finished surface. On occasion, the underlying framing may warp, twist, or bow after installation.

4-1-3Observation: Deflection is observed in a beam, header, girder, or other dimensional or manufactured structural member in a wall.

Performance Guideline: All beams, headers, girders, and other dimensional or manufactured structural members in the wall system will be sized according to the manufacturers' specifications and applicable building codes.

Corrective Measure: The contractor will reinforce or modify, as necessary, any beam, header, girder, or other dimensional or manufactured structural member in the wall system that does not meet the performance guideline.

Moisture Barriers and Flashing

4-2-1Observation: Bulk water is penetrating around a window or door.

Performance Guideline: Windows and doors will be installed and flashed in accordance with manufacturer's specifications and/or as required by prevailing building codes.

Corrective Measure: The contractor will correct to meet the performance guideline.

4-2-2Observation: An exterior wall leaks because of improper caulking installation or failure of the caulking material.

Performance Guideline: Joints and cracks in exterior wall surfaces and around openings will be caulked to prevent the entry of water.

Corrective Measure: One time only during the warranty period, the contractor will repair or caulk joints and cracks in exterior wall surfaces, as necessary, to correct deficiencies.

Discussion: Even when properly installed, caulking eventually will shrink and crack. Maintenance of caulking is the consumer's responsibility.

Wall Insulation

4-3-1Observation: Wall insulation is insufficient.

Performance Guideline: The contractor will install insulation according to R-values designated in the contract documents or as required by the prevailing building code.

Corrective Measure: The contractor will install insulation to meet the performance guideline.

Windows and Glass

4-4-1Observation: A window is difficult to open or close.

Performance Guideline: Windows should require no greater operating force than that described in the manufacturer's specifications.

Remodeling Specific Guideline: The contractor is not responsible for inoperable windows not covered by the remodeling contract.

Corrective Measure: The contractor will correct or repair the window as required to meet the performance guideline.

4-4-2Observation: Window glass is broken and a screen or window hardware is missing or damaged.

Performance Guideline: Glass should not be broken and screens and hardware should not be damaged or missing at the time of substantial completion of the project. Screens included in the original contract will be installed.

Corrective Measure: Broken glass, missing or damaged screens, or missing or damaged hardware reported to the contractor prior to substantial completion of the project will be installed or replaced. Broken glass, missing or damaged screens, or missing or damaged hardware reported after substantial completion of the project are the consumer's responsibility.

4-4-3Observation: Water is observed in the home around a window unit during or after rain.

Performance Guideline: Window installation will be performed in accordance with manufacturer's specifications so that water does not intrude beyond the drainage plane of the window during normal rain conditions. Windows will resist water intrusion as specified by the window manufacturer.

Corrective Measure: The contractor will correct any deficiencies attributed to improper installation. Any deficiencies attributed to the window unit's performance will be addressed by the window manufacturer's warranty.

Discussion: Leakage at the glazing interface is covered under the manufacturer's warranty. Windows have a limited ability to resist excessive wind-driven rain, but should perform according to manufacturer's

specifications. The consumer is responsible for keeping weep holes clean of debris as they are designed to allow wind-driven rain to be diverted from the window sill.

4-4-4Observation: Window grids, grilles, or muntins fall out or become out of level.

Performance Guideline: Window grids, grilles, or muntins will not disconnect, fall, or become out of level.

Corrective Measure: One time only during the warranty period, window grids, grilles, or muntins will be repaired or replaced.

4-4-5Observation: Glass surfaces are scratched.

Performance Guideline: Glass surfaces will not have scratches visible from 10 feet under normal lighting conditions at the time of substantial completion of the project.

Remodeling Specific Guideline: This guideline does not apply to existing windows unless they are part of the remodeling contract or are damaged by the contractor. The contractor and consumer should examine existing windows prior to contract execution.

Corrective Measure: The contractor will repair or replace any scratched glass surface if noted prior to substantial completion of the project.

Exterior Doors

4-5-1Observation: An exterior door is warped.

Performance Guideline: Exterior doors will not warp to the extent that they become inoperable or cease to be weather-resistant. A 1/4 inch tolerance as measured diagonally from corner to corner is acceptable.

Corrective Measure: The contractor will correct or replace exterior doors that do not meet the performance guideline.

Discussion: Most exterior doors will warp to some degree due to the difference in the temperature and humidity between inside and outside surfaces; 1/4 inch across the plane of the door measured diagonally from corner to corner is an acceptable tolerance. Warping may also be caused by improper or incomplete finishing of the door including sides, top, and bottom. The contractor is not responsible for warpage if painting of doors is not within the contractor's scope of work.

4-5-2Observation: Raw wood shows at the edges of an inset panel inserted into a wood exterior door during the manufacturing process.

Performance Guideline: This is a common occurrence in wood doors with panels.

Corrective Measure: Since this occurrence is common, no corrective action is required by the contractor.

Discussion: Wood products expand and contract with changes in temperature and humidity. Wooden inserts are intentionally loosely fitted into the rails by the manufacturer to allow the inserts to move, which minimizes splitting of the panel or other damage to the door.

4-5-3Observation: A wooden door panel is split.

Performance Guideline: A split in a panel will not allow light to be visible through the door.

Corrective Measure: One time only during the warranty period, the contractor will repair and paint or stain the split panel that does not meet the performance guideline. Caulking and fillers are acceptable.

Discussion: Wooden inserts are loosely fitted into the door to allow the inserts to move, which minimizes splitting of the panel or other damage to the door. On occasion, a panel may become "locked" by paint or expansion of the edges with changes in temperature and humidity and no longer "float" between the rails. This may result in the panel splitting. The repainted area may not blend with the remainder of the door or other doors on the home.

4-5-4Observation: An exterior door sticks or binds.

Performance Guideline: Exterior doors will operate smoothly, except that doors may stick during occasional periods of high humidity or with variations in temperature.

Corrective Measure: The contractor will adjust or replace the door to meet the performance guideline if the problem is caused by faulty workmanship or materials.

Discussion: Exterior doors may warp or bind to some degree because of the difference in the temperature and/or humidity between inside and outside surfaces. The contractor is not responsible for warpage if painting of doors was not within the contractor's scope of work. Any changes to originally installed door hardware, weather stripping or other door components that cause improper operation are not the contractor's responsibility.

4-5-5Observation: An exterior door will not close and latch.

Performance Guideline: Exterior doors will close and latch.

Corrective Measure: One time only during the warranty period, the contractor will adjust the door or latching mechanism to meet the performance guideline.

Discussion: Exterior doors may warp or bind to some degree because of the difference in the temperature, humidity, or both, between inside and outside surfaces. Latching also can be affected by natural settling. Subsequent adjustments may be necessary by the consumer. The contractor is not responsible for warpage if painting of doors was not within the contractor's scope of work.

4-5-6Observation: The plastic molding on the primary door behind the storm door melts from exposure to sunlight.

Performance Guideline: It is a common occurrence for the plastic molding behind storm doors to melt.

Corrective Measure: No corrective action is required by the contractor.

Discussion: Plastic moldings may melt or deform if the exterior door is covered by a storm door during a warm season, or if it faces the sun. This is not a defect of the door, but a problem caused by the trapping of heat between the primary door and the storm door. The storm door should be removed and reinstalled by the consumer as a part of normal seasonal maintenance (i.e., removed in the spring and reinstalled in the fall). The consumer is also cautioned to follow the manufacturer's recommendations on painting the moldings. Dark colors will tend to absorb more heat.

4-5-7Observation: Caulking or glazing on the primary door behind the storm door cracks or peels.

Performance Guideline: It is a common occurrence for caulking or glazing on the primary door behind the storm door to crack or peel.

Corrective Measure: No corrective action is required by the contractor.

Discussion: High temperatures may cause glazing and caulking to harden and/or fail prematurely if the door is covered by a storm door during a warm season or if it faces the sun. This is not a defect of the door, caulking, or glazing, but a problem caused by the trapping of heat between the primary door and the storm door. The storm door should be removed and reinstalled by the consumer as a part of normal

seasonal maintenance (i.e., removed in the spring and reinstalled in the fall). The consumer is also cautioned to follow the manufacturer's recommendations on painting the moldings. Dark colors will tend to absorb more heat.

4-5-8 Observation: A door swings open or closed by the force of gravity.

Performance Guideline: Exterior doors will not swing open or closed by the force of gravity alone.

Remodeling Specific Guideline: This guideline does not apply where a new door is installed in an existing wall that is out of plumb.

Corrective Measure: The contractor will adjust the door to prevent it from swinging open or closed by the force of gravity.

4-5-9 Observation: The reveal around an exterior door edge, doorjamb, and/or threshold is uneven.

Performance Guideline: Gaps between adjacent components will not vary by more than 3/16 inch along each side of the door.

Remodeling Specific Guideline: This guideline does not apply where a new door is installed in an existing wall that is out of plumb or an existing opening that is out of square.

Corrective Measure: The contractor will repair existing unit to meet performance guideline.

Discussion: Doors must have gaps at their perimeter to accommodate expansion/contraction due to variations in temperature and/or humidity and to enable the door to operate over a wide range of environmental conditions.

4-5-10 Observation: Air movement or light is observed around a closed exterior door.

Performance Guideline: Weather stripping will be installed and sized properly to seal the exterior door when closed in order to prevent excessive air infiltration.

Corrective Measure: The contractor will adjust exterior door unit or weather stripping to meet performance guideline.

Discussion: Doors must have gaps at their perimeter to accommodate expansion/contraction due to variations in temperature and/or humidity and to enable the door to operate over a wide range of environmental conditions. Weather stripping seals the gaps required for proper operations to prevent excessive air infiltration. At times of high wind or temperature differentials inside the home and outside, there may be noticeable air movement around a closed door's perimeter. A small glimmer of light seen at the corners of the door unit is normal. Weather stripping should be kept cleaned and maintained by the consumer.

4-5-11 Observation: Exterior door hardware or kickplate has tarnished.

Performance Guideline: Finishes on door hardware or kickplates installed by the contractor are covered by the manufacturer's warranty.

Corrective Measure: No corrective action is required by the contractor.

4-5-12 Observation: A sliding patio door or screen will not stay on track.

Performance Guideline: Sliding patio doors and screens will slide properly on their tracks at the time of substantial completion of the project. The cleaning and maintenance necessary to preserve proper operation are consumer responsibilities.

Corrective Measure: One time only during the warranty period, the contractor will adjust the door or screen.

Discussion: Proper operation should be verified by the consumer and the contractor at the time of substantial completion of the project.

4-5-13 Observation: A sliding patio door does not roll smoothly.

Performance Guideline: Sliding patio doors will roll smoothly at the time of substantial completion of the project. The cleaning and maintenance necessary to preserve proper operation are consumer responsibilities.

Corrective Measure: One time only during the warranty period, the contractor will adjust the door.

Discussion: Proper operation should be verified by the consumer and the contractor at the time of substantial completion of the project.

4-5-14 Observation: A doorknob, deadbolt, or lockset does not operate smoothly.

Performance Guideline: A doorknob, deadbolt, or lockset should not stick or bind during operation.

Corrective Measure: One time only during the warranty period, the contractor will adjust, repair, or replace knobs that are not damaged by the consumer.

Discussion: Locksets may feel heavy or stiff but are operating as intended by the manufacturer. This can be true for locksets of all price ranges.

Exterior Finish

Wood and Wood Composite Siding

5-1-10 Observation: Siding is bowed.

Performance Guideline: Bows exceeding 1/2 inch in 32 inches are considered excessive.

Remodeling Specific Guideline: If new wall covering is installed on existing framed walls, the contractor and consumer may agree to straighten out the walls as part of the scope of work. Alternatively, the parties may agree to install new wall covering over existing framing and disregard the performance guideline to match a preexisting structural condition.

Corrective Measure: The contractor will replace any wood siding with bows that does not meet the performance guideline and will finish the replacement siding to match the existing siding as closely as practical.

Discussion: If the siding is fastened by nails driven into studs, expansion caused by changing relative temperatures and/or humidity may cause bulges or waves. Even with proper installation, siding will tend to bow inward and outward in adjacent stud spaces.

5-1-20 Observation: An edge or gap is visible between adjacent pieces of siding or siding panels and other materials.

Performance Guideline: Gaps wider than 3/16 inch are considered excessive, unless the siding is installed as prescribed by manufacturer's instructions.

Corrective Measure: The contractor will repair gaps that do not meet the performance guideline.

Discussion: Proper repair can be completed by providing joint covers or by caulking the gap. This is

important if the gaps were intentionally made for expansion joints. If the siding is painted, the contractor will paint the new caulking to match the existing siding as closely as practical, but an exact match cannot be achieved.

5-1-3Observation: Siding is not parallel with the course above or below.

Performance Guideline: A piece of siding may not be more than 1/2 inch off parallel with contiguous courses in any 20-foot measurement.

Remodeling Specific Guideline: The contractor and consumer may agree to install siding to match existing conditions on the existing structure and to disregard the performance guideline for this item. If the contractor and consumer have agreed that the floor of an addition is to be on a different plane from an existing floor (e.g., out of level), the siding on the addition may not be parallel and in line with the existing siding.

Corrective Measure: The contractor will reinstall siding to meet the performance guideline for straightness, and will replace with new siding any siding damaged during removal.

5-1-4Observation: Face nails have been driven below the surface of wood composite siding.

Performance Guideline: Siding nails will be driven in accordance with the manufacturer's installation instructions.

Corrective Measure: The contractor will repair as necessary to meet the performance guideline by filling with appropriate filler. Touch-up paint may not match the surrounding area.

5-1-5Observation: Siding boards have buckled, warped, or cupped.

Performance Guideline: Boards that project more than 3/16 inch in 5 and 1/2 inches are considered excessive.

Corrective Measure: The contractor will repair or replace any boards that do not meet the performance guideline.

Discussion: Buckling, warping, or cupping is caused by wood expanding as a result of increased temperature, relative humidity, or both.

5-1-6Observation: Siding boards have split.

Performance Guideline: Splits wider than 1/8 inch and longer than 1 inch are considered excessive.

Corrective Measure: The contractor will repair siding boards that do not meet the performance guideline by filling with appropriate filler. Touch-up paint may not match the surrounding area.

5-1-7Observation: Wood siding, shakes, or shingles have bled through paint or stain applied by the contractor.

Performance Guideline: Resins and extractives bleeding through paint or stain, or blackening of siding, shakes, or shingles is considered normal, and is especially noticeable if natural weathering, white paint, or semitransparent stain is specified for the project.

Corrective Measure: No corrective action is required by the contractor.

5-1-8Observation: Siding has delaminated.

Performance Guideline: Siding will not delaminate.

Corrective Measure: Delaminating of siding is covered under the manufacturer's warranty, unless the delaminating was caused by the consumer's actions or negligence. The consumer should contact the manufacturer for warranty coverage.

5-1-9Observation: Nail stains are visible on siding or ceiling boards.

Performance Guideline: Stains exceeding 1/2 inch from the nail which are readily visible from a distance of more than 20 feet are considered excessive.

Corrective Measure: The contractor will remove stains that do not meet the performance guideline.

Discussion: Stains can be caused by oxidation of nails or leaching of extractives from the wood. Use of galvanized nails (even double hot dipped) will not necessarily prevent staining. Aluminum or Vinyl Siding

5-2-1Observation: Aluminum or vinyl siding is bowed or wavy.

Performance Guideline: Some waviness in aluminum or vinyl siding is expected. Waves or similar distortions in aluminum or vinyl lap siding are considered excessive only if they exceed 1/2 inch in 32 inches.

Remodeling Specific Guideline: If the new siding is applied to existing walls, the siding will follow the underlying surface. Prior to commencement of the work, the contractor and consumer should agree on whether or not the existing surface is to be modified. If the walls will not be modified, the performance guideline will be disregarded.

Corrective Measure: The contractor will correct any waves or distortions to comply with the performance guideline by reinstalling or replacing siding as necessary.

5-2-2Observation: Siding is faded.

Performance Guideline: Any color siding, when exposed to the ultraviolet rays of the sun, will fade. Fading cannot be prevented by the contractor. However, panels installed on the same wall and under the same conditions should fade at the same rate.

Corrective Measure: No corrective action is required by the contractor. The consumer should contact the siding manufacturer for issues with inconsistent fading.

Discussion: Color warranties are provided by the siding manufacturer. The consumer should contact the manufacturer with questions or claims regarding changes in color of vinyl or aluminum siding. Color and fade imperfections beyond an expected degree may be covered by the manufacturer's warranty, except where siding is shaded differently from the rest of the wall, such as under shutters or behind vegetation.

5-2-3Observation: Aluminum or vinyl siding trim is loose.

Performance Guideline: Trim will not separate from the home by more than 1/4 inch.

Corrective Measure: The contractor will reinstall trim as necessary to comply with the performance guideline.

Discussion: Vinyl siding and accessories should not be caulked in most circumstances, as caulking could impact the product's contraction and expansion characteristics.

5-2-4Observation: Aluminum or vinyl siding courses are not parallel with eaves or wall openings.

Performance Guideline: Any piece of aluminum or vinyl siding more than 1/2 inch off parallel in 20 feet with a break such as an eave or wall opening is considered excessive.

Remodeling Specific Guideline: If the contractor and consumer agree that the floor of an addition is to be on a different plane from the existing floor (for example, a preexisting out-of-level condition), the siding on the addition may not be parallel and in line with existing siding. The contractor and consumer may agree to install siding to match existing conditions on the existing structure and to disregard the performance guideline for this item.

Corrective Measure: The contractor will reinstall siding to comply with the performance guideline and will replace with new siding any siding damaged during removal.

5-2-5Observation: Nail heads show in aluminum or vinyl siding.

Performance Guideline: No nail heads in the field of the siding will be exposed.

Corrective Measure: The contractor will install trim as necessary to cover the nails and will install proper trim accessories to avoid face nailing.

Discussion: Vinyl siding generally should not be face nailed. However, there are appropriate and typical occasions when a single face nail may be needed to reinforce a joint or fasten the siding to the wall when it is cut to fit around window frames, doors, roofs, or other obstructions on the wall. In most cases (the only exception would be the top piece on a gable end), vinyl siding should not be face nailed when proper accessory products are used. For example, under a window application the contractor can use the J-channel trim and utility trim, and snap punch the top of the vinyl siding. If face nailing is the only option, the contractor should predrill a 1/8 inch diameter hole to allow for expansion and contraction.

5-2-6Observation: Aluminum or vinyl siding trim accessory is loose from caulking at windows or other wall openings.

Performance Guideline: Siding trim accessories will not separate from caulking at windows or other wall openings during the warranty period.

Corrective Measure: One time only during the warranty period, the contractor will repair or recaulk, as necessary, to eliminate the separation.

5-2-7Observation: Aluminum or vinyl siding is cut unevenly.

Performance Guideline: Gaps will comply with the manufacturer's guidelines.

Remodeling Specific Guideline: The contractor and consumer may agree to install siding to match conditions on the existing structure and to disregard the performance guideline for this item.

Corrective Measure: The contractor will ensure that the appropriate trim/accessory is installed to eliminate potentially revealing site cuts. If cuts in siding panels are so uneven that they are not concealed by trim, the panel will be replaced.

Discussion: Cut edges of vinyl siding should never be visible when proper trim and accessories are used.

5-2-8Observation: Aluminum or vinyl siding is not correctly spaced from moldings.

Performance Guideline: Prescribed spacing between siding and accessory trim is typically 1/4 inch, or should comply with the manufacturer's installation instructions.

Remodeling Specific Guideline: The contractor and consumer may agree to install siding to match conditions on the existing structure and to disregard the performance guideline for this item.

Corrective Measure: The contractor will correct the spacing to meet the performance guideline.

Cement Board Siding

5-3-1Observation: Cement board siding is cracked or chipped.

Performance Guideline: As a cement product, this siding is susceptible to the same characteristic limitations as other cement products. Cracks more than 2 inches in length and 1/8 inch in width are considered excessive. Chips or dents not reported at time of substantial completion of the project are not covered.

Corrective Measure: Cracked or chipped cement board will be repaired or replaced as necessary, as determined by the contractor.

Discussion: The manufacturer's instructions include guidelines to reduce chipping or cracking of siding.

5-3-2Observation: Cement board siding is improperly fastened.

Performance Guideline: Siding will be nailed flush and perpendicular per the manufacturer's instructions. Staples will not be used.

Corrective Measure: The contractor will correct or repair improperly fastened boards. Overdriven nail heads or nails driven at an angle can be filled with siding manufacturer's specified product.

Masonry and Veneer

5-4-1Observation: A masonry or veneer wall or mortar joint is cracked.

Performance Guideline: Cracks visible from distances in excess of 20 feet or larger than 1/4 inch in width are not acceptable.

Corrective Measure: The contractor will repair cracks in excess of the performance guideline by tuck pointing, patching, or painting, as deemed most appropriate by the contractor. The contractor will not be responsible for color variation between the original and new mortar or between the brick or stone and the pointing material.

Discussion: Hairline cracks resulting from shrinkage and cracks due to minor settlement are common in masonry or veneer walls and mortar joints and do not necessarily represent a defect.

5-4-2 Observation: Cut bricks below openings in masonry walls are of different thickness.

Performance Guideline: Cut bricks used in the course directly below an opening will not vary from one another in thickness by more than 1/4 inch. The smallest dimension of a cut brick should be greater than 1 inch.

Corrective Measure: The contractor will repair the wall to meet the performance guideline.

Discussion: Bricks are cut to achieve required dimensions at openings and ends of walls when it is not possible to match unit/mortar coursing. An exact match of brick and mortar after a repair cannot be guaranteed.

5-4-3Observation: A brick course is not straight.

Performance Guideline: No point along the bottom of any course will be more than 1/4 inch higher or lower than any other point within 10 feet along the bottom of the same course, or 1/2 inch in any length.

Remodeling Specific Guideline: The contractor and consumer may agree to install brick veneer to match conditions on the existing structure and to disregard the performance guideline for this item.

Corrective Measure: The contractor will rebuild the wall as necessary to meet the performance guideline.

Discussion: Dimensional variations of the courses depend upon the variations in the brick selected. An exact match of brick and mortar after a repair cannot be guaranteed.

5-4-4Observation: Brick veneer is spalling.

Performance Guideline: Spalling of newly manufactured brick should not occur and is considered excessive. Spalling of used brick is acceptable.

Corrective Measure: Defective brick is covered by the manufacturer's warranty. The contractor will correct the condition in accordance with the manufacturer's warranty. An exact match of brick and mortar cannot be assured.

5-4-5Observation: Mortar stains are observed on exterior brick or stone.

Performance Guideline: Exterior brick and stone will be free from mortar stains detracting from the appearance of the finished wall when viewed from a distance of 20 feet.

Corrective Measure: The contractor will clean the mortar stains to meet the performance guideline.

5-4-6Observation: Efflorescence is present on the surface of masonry or mortar.

Performance Guideline: This is a common condition caused by moisture reacting with the soluble salts in the mortar.

Corrective Measure: No corrective action is required by the contractor.

Discussion: Efflorescence is evidenced by the presence of a white film on the surface of masonry or mortar. It is a particularly common occurrence where masonry or concrete are in contact with high moisture levels because masonry products absorb and retain moisture.

5-4-7Observation: There is water damage to interior walls as a result of a leak in the exterior brick or stone.

Performance Guideline: Exterior brick and stone walls should be constructed and flashed according to the prevailing building code to prevent water penetration to the interior of the structure under normal weather conditions.

Corrective Measure: The contractor will repair the wall to meet the guideline, unless the water damage resulted from factors beyond the contractor's control.

Discussion: Water penetration resulting from external factors such as extreme weather conditions or sprinkler systems are not the contractor's responsibility.

Stucco and Parged Coatings

5-5-10Observation: An exterior stucco wall surface is cracked.

Performance Guideline: Cracks in exterior stucco wall surfaces will not exceed 1/8 inch in width.

Corrective Measure: One time only during the warranty period, the contractor will repair cracks exceeding 1/8 inch in width. Caulking and touch-up painting are acceptable. An exact color or texture match may not be attainable.

Discussion: Hairline cracks in stucco or cement plaster (parging) are common, especially if the coatings

have been applied directly to masonry back up.

5-5-2 Observation: The color, texture, or both, of exterior stucco walls are not uniform.

Performance Guideline: Exterior stucco walls may not match when applied on different days or under differing environmental conditions (e.g., temperature, humidity, etc.).

Remodeling Specific Guideline: The color, texture, or both, of new exterior stucco walls may not match those of old exterior stucco walls.

Corrective Measure: Stucco finishes are unique and an exact match of color, texture, or both, may not be practical; therefore, no corrective action is required by the contractor.

Discussion: Stucco includes cement-based coatings and similar synthetically-based finishes. A number of variables affect coloring and texture of stucco. It is difficult, if not impossible, to achieve a color match between stucco coatings applied at different times. Approved samples prior to installation can minimize misunderstandings about color and texture.

5-5-3 Observation: Coating has separated from the base on an exterior stucco wall.

Performance Guideline: The coating will not separate from the base on an exterior stucco wall during the warranty period.

Corrective Measure: The contractor will repair areas where the coating has separated from the base.

Discussion: A number of variables affect coloring and texture of stucco. It is not possible to achieve an exact color and/or texture match between stucco coatings applied at different times.

5-5-4 Observation: Lath is visible through stucco.

Performance Guideline: Lath should not be visible through stucco, nor should the lath protrude through any portion of the stucco surface.

Corrective Measure: The contractor will make necessary corrections so that lath is not visible. The finish color and/or texture may not match.

5-5-5 Observation: Rust marks are observed on the stucco finish coat.

Performance Guideline: Rust marks on the stucco surface are considered excessive if more than 5 marks measuring more than 1 inch long occur per 100 square feet.

Corrective Measure: The contractor will repair, replace, or seal the rusted areas of wall.

Discussion: Rusting may be present in more humid climates due to the natural state of sand used in cement-based products which could include metallic components.

5-5-6 Observation: There is water damage to the exterior wall cavity as a result of a leak in the stucco wall system.

Performance Guideline: Stucco walls should be constructed and flashed to prevent water penetration to the interior of the structure under normal weather and water conditions. Damage to the stucco system caused by external factors out of the contractor's control that result in water penetration is not the contractor's responsibility.

Corrective Measure: If water penetration is the result of a system failure and does not result from external factors, the contractor will make necessary repairs to prevent water penetration through the stucco wall system.

Discussion: The contractor is not responsible for water penetration resulting from external factors such as windblown moisture or sprinkler systems.

Exterior Trim

5-6-1 Observation: Gaps show in exterior trim.

Performance Guideline: Joints between exterior trim elements, including siding and masonry, will not be wider than 1/4 inch. In all cases, the exterior trim will perform its function of excluding the elements.

Corrective Measure: The contractor will repair open joints that do not meet the performance guideline. Caulking is an acceptable repair.

5-6-2 Observation: Exterior trim board is split.

Performance Guideline: Splits wider than 1/8 inch and longer than 1 inch are considered excessive.

Corrective Measure: The contractor will repair splits by filling with durable filler. Touch-up painting may not match the surrounding area.

5-6-3 Observation: Exterior trim board is bowed or twisted.

Performance Guideline: Bows and twists exceeding 3/8 inch in 8 feet are considered excessive.

Corrective Measure: The contractor will repair defects that do not meet the performance guideline by refastening or replacing deformed boards. Touch-up painting may not match the surrounding area.

5-6-4 Observation: Exterior trim board is cupped.

Performance Guideline: Cups exceeding 3/16 inch in 5 and 1/2 inches are considered excessive.

Corrective Measure: The contractor will repair defects that do not meet the performance guideline by refastening or replacing cupped boards. Touch-up painting may not match the surrounding area.

Paint, Stain, and Varnish

5-7-1 Observation: Exterior painting, staining, or refinishing required because of repair work does not match existing exterior finish.

Performance Guideline: Repairs required under these performance guidelines will be finished to match the immediate surrounding areas as closely as practical when viewed under normal lighting conditions from a distance of 20 feet.

Corrective Measure: The contractor will finish repaired areas as indicated, matching as closely as possible.

Discussion: Touch-up painting, staining, or refinishing may not match the surrounding area exactly in color or sheen because the original coating may have been exposed to sunlight, pollution, weather, and other conditions over a period of time.

5-7-2 Observation: Exterior paint or stain has peeled or flaked.

Performance Guideline: Exterior paints and stains will not peel or flake during the first year.

Corrective Measure: If exterior paint or stain has peeled, developed an alligator pattern, or blistered, the contractor will properly prepare and refinish the affected areas and match their color as closely as practical. Where deterioration of the finish affects more than 50 percent of the piece of trim or wall area,

the contractor will refinish the affected component.

5-7-3 Observation: Exterior paint or stain has faded.

Performance Guideline: Fading of exterior paints and stains is common. The degree of fading depends on environmental conditions.

Corrective Measure: Because fading is a common occurrence in paint and stains, no corrective action is required by the contractor.

5-7-4 Observation: There is paint or stain overspray on surfaces not intended for paint or stain.

Performance Guideline: Paint or stain overspray on surfaces not intended for paint or stain that is visible at a distance of 6 feet under normal natural lighting conditions is not acceptable.

Corrective Measure: The contractor will clean the affected surfaces without damaging the surface.

Roof

Note: Remodeling Specific Guideline: Where applicable, in the following guidelines the contractor is responsible only for areas of the home where work was performed as specified in the contract, and not for the entire home.

Roof Structure

6-1-1 Observation: The roof ridge beam has deflected.

Performance Guideline: Roof ridge beam deflection greater than 1 inch in 8 feet is considered excessive.

Corrective Measure: The contractor will repair affected ridge beams that do not meet the performance guideline.

6-1-2 Observation: A rafter or ceiling joist bows (up or down).

Performance Guideline: Bows greater than 1 inch in 8 feet are excessive.

Corrective Measure: The contractor will repair the affected rafters or joists that bow in excess of the performance guideline.

6-1-3 Observation: Roof trusses have deflected.

Performance Guideline: All roof trusses and other manufactured structural roof components in the roof system will be sized according to the manufacturers' specifications and prevailing building codes.

Corrective Measure: The contractor will reinforce or modify as necessary any roof truss or other manufactured structural roof components in the roof system that do not meet the performance guideline.

Discussion: Deflection is a normal condition that is considered as part of the engineering design of the roof trusses and other manufactured structural roof components. Deflection may be an aesthetic consideration independent of the strength and safety requirements of the product.

6-1-4 Observation: Roof trusses have lifted from the adjoining interior walls.

Performance Guideline: Moisture differences between the upper chord and lower chord (unheated versus adjacent interior heated spaces) may cause the lower chords to move. Deflection is a normal condition that is considered as part of the engineering design of the roof trusses.

Corrective Measure: No corrective action is required by the contractor.

Discussion: Truss uplift (deflection) is an aesthetic consideration and is independent of the strength and safety requirements of the truss. This situation will be more prevalent in the winter due to greater variance in moisture, temperature and snow load in some regions.

Roof Sheathing

6-2-1 Observation: Roof sheathing is wavy or appears bowed.

Performance Guideline: Roof sheathing will not bow more than 1/2 inch in 2 feet.

Remodeling Specific Guideline: If new sheathing is installed over existing rafters, the sheathing will follow the bows of the existing rafters. The consumer and contractor should agree on whether or not the rafters are to be straightened. If they are not to be straightened, the performance guideline for this item will be disregarded.

Corrective Measure: The contractor will straighten bowed roof sheathing as necessary to meet the performance guideline.

Discussion: In rare instances, the contractor may install blocking between the framing members to straighten the sheathing. Under certain viewing conditions and light, minor irregularities in the roof may be observed. This may be particularly apparent on truss framing with asphalt shingles.

6-2-2 Observation: Nails or staples are visible through sheathing at overhangs.

Performance Guideline: The length of nails and staples used to secure roofing materials is determined by the manufacturer's installation instructions.

Corrective Measure: No corrective action is required by the contractor.

Discussion: Nails and staples may protrude through sheathing at overhangs. Their appearance is only an aesthetic concern.

Roof Vents

6-3-1 Observation: An attic vent or louver leaks.

Performance Guideline: Attic vents and louvers will not leak. Infiltration of wind-driven rain and snow are not considered leaks and are beyond the contractor's control.

Corrective Measure: The contractor will repair or replace the roof vents as necessary to meet the performance guideline.

6-3-2 Observation: Attic ventilation is insufficient.

Performance Guideline: The total roof vent area will meet the requirements of the prevailing building codes.

Corrective Measure: The contractor will correct roof ventilation as necessary to meet the performance guideline.

Discussion: Attic ventilation can be provided in variety of ways and proper ventilation is a calculation of total ventilation that may be obtained through ridge vents, soffit vents, gable vents, attic fans or any combination thereof. Some attics are sealed or finished as conditioned space and do not require outside ventilation. It is the consumer's responsibility to keep the vent locations free from obstructions.

Roof Coverings

Note: There are many kinds of roofing products. For the purpose of the following performance guidelines, regardless of the actual material used, the term "shingle" will be used to refer to all types of roof coverings.

6-4-1 Observation: The roof or flashing leaks.

Performance Guideline: Roofs and flashing will not leak under normal conditions.

Corrective Measure: The contractor will repair any verified roof or flashing leaks not caused by ice buildup, leaves, debris, abnormal weather conditions, or the consumer's actions or negligence.

Discussion: It is the consumer's responsibility to keep the roof drains, gutters, and downspouts free of ice and debris.

6-4-2 Observation: Ice builds up on the roof.

Performance Guideline: During prolonged cold spells ice is likely to build up on a roof, especially at the eaves. This condition can occur naturally when snow and ice accumulate.

Corrective Measure: No corrective action is required by the contractor.

Discussion: Prevention of ice buildup on the roof is a consumer maintenance item.

6-4-3 Observation: Shingles have blown off.

Performance Guideline: Shingles will be installed according to the manufacturer's installation instructions and perform in accordance with the manufacturer's warranty.

Corrective Measure: If shingles were not installed per manufacturer's installation instructions, the contractor will repair or replace shingles in the damage area.

Discussion: Correctly installed shingles are covered by the manufacturer's warranty. Shingles may blow off during wind events in excess of the manufacturer's design and installation instructions. Replacement shingles may not match existing shingles.

6-4-4 Observation: Shingles are not horizontally aligned.

Performance Guideline: Shingles should be installed according to the manufacturer's installation instructions.

Remodeling Specific Guideline: The consumer and the contractor may agree prior to installation that the horizontal line of shingles on the roof of an addition need not line up with those of the existing structure if the floors (and hence, the eaves and ridge) are not to be built on the same plane.

Corrective Measure: The contractor will remove shingles that do not meet the performance guideline, and will repair or replace them with new shingles that are properly aligned.

Discussion: The bottom edge of dimensional shingles may be irregular; the irregularity is an inherent part of the design. Replacement shingles may not match existing shingles.

6-4-5 Observation: Remodeling Specific Guideline: New shingles do not match existing shingles.

Performance Guideline: The color of new shingles may not exactly match the color of the existing shingles because of weathering and manufacturing variations.

Corrective Measure: The contractor is not responsible for precisely matching the color of existing shingles.

6-4-6 Observation: Asphalt shingle edges or corners are curled or cupped.

Performance Guideline: Asphalt shingle edges and corners will not curl or cup. These conditions are a manufacturer's warranty issue.

Corrective Measure: Excessive curling or cupping is covered under the manufacturer's warranty. The contractor will correct the condition in accordance with the manufacturer's warranty. An exact match of shingle color cannot be assured.

6-4-7 Observation: Asphalt shingles do not overhang the edges of the roof, or they hang too far over the edges of the roof.

Performance Guideline: Asphalt shingles will overhang roof edges by not less than 1/4 inch and not more than 3/4 inch unless the manufacturer's instructions indicate otherwise.

Corrective Measure: The contractor will reposition or replace shingles as necessary to meet the performance guideline.

6-4-8 Observation: Shading or a shadowing pattern is observed on a new shingle roof.

Performance Guideline: Shading or shadowing differences may occur on a new roof.

Corrective Measure: No corrective action is required by the contractor.

6-4-9 Observation: Asphalt shingles have developed surface buckling.

Performance Guideline: Asphalt shingle surfaces need not be perfectly flat. However, buckling higher than 1/4 inch is considered excessive.

Corrective Measure: The contractor will repair or replace the affected shingles to meet the performance guideline.

Discussion: Replacement shingles may not match existing shingles.

6-4-10 Observation: Sheathing nails have loosened from framing and raised the shingles.

Performance Guideline: Nails will not loosen from roof sheathing enough to raise shingles from surface.

Corrective Measure: The contractor will repair all areas as necessary to meet the performance guideline.

Discussion: It is not uncommon for nails to withdraw from the framing because of temperature variations. The contractor can re-drive or remove and replace fasteners that withdraw from the framing. Any resulting holes should be sealed or the shingle should be replaced. Consumer is advised that replacement shingles may not match existing shingles.

6-4-11 Observation: Roofing nails or fasteners are exposed at the ridge or hip of a roof.

Performance Guideline: Nails and fasteners will not be exposed.

Corrective Measure: The contractor will seal and/or repair areas to meet the performance guideline.

6-4-12 Observation: Holes from construction activities are found on the roof surface.

Performance Guideline: Holes from construction activities will be flashed or sealed to prevent leaks.

Corrective Measure: The contractor will repair or replace the affected shingles to meet the performance guideline.

6-4-13 Observation: Remodeling Specific Guideline: Existing roof shingles are telegraphing through new shingles.

Performance Guideline: Some telegraphing is common when re-roofing over existing roofing.

Corrective Measure: Because this is a common occurrence, no corrective action is required by the contractor.

6-4-14 Observation: Water is trapped under membrane roofing.

Performance Guideline: Water will not become trapped under membrane roofing.

Corrective Measure: If water becomes trapped under membrane roofing, the contractor will repair or replace the roofing as necessary to meet the performance guideline.

6-4-15 Observation: Membrane roofing is blistered but does not leak.

Performance Guideline: Surface blistering of membrane roofing is caused by conditions of heat and humidity acting on the membrane and is a common occurrence.

Corrective Measure: No corrective action is required by the contractor.

6-4-16 Observation: There is standing water on a flat roof.

Performance Guideline: Water will drain from a flat roof except for minor ponding within 24 hours of a rainfall. Minor ponding will not exceed 3/8 inch in depth.

Corrective Measure: The contractor will take corrective action to meet the performance guideline.

Chimney

6-5-1 Observation: A crack in a masonry chimney cap or crown causes leakage.

Performance Guideline: It is common for caps to crack from expansion and contraction. As a result, leaks may occur.

Corrective Measure: If cracking causes leakage, the contractor will repair the cap or crown. Applying caulk or other sealant is an acceptable repair.

6-5-2 Observation: New chimney flashing leaks.

Performance Guideline: New chimney flashing will not leak under normal conditions.

Corrective Measure: The contractor will repair leaks in new chimney flashing that are not caused by ice buildup or by the consumer's actions or negligence.

Discussion: The accumulation of ice and snow on the roof is a natural occurrence and cannot be prevented by the contractor.

Gutters and Downspouts

6-6-1 Observation: The gutter or downspout leaks.

Performance Guideline: Gutters and downspouts will not leak.

Corrective Measure: The contractor will repair leaks in gutters and downspouts. Sealants are acceptable.

6-6-2 Observation: The gutter overflows during a heavy rain.

Performance Guideline: Gutters should not overflow during normal rain.

Corrective Measure: The contractor will repair the gutter if it overflows during normal rains.

Discussion: Gutters may overflow during a heavy rain. The consumer is responsible for keeping gutters and downspouts free from debris that could cause overflow.

6-6-3 Observation: Water remains in the gutter after a rain.

Performance Guideline: The water level will not exceed 1/2 inch in depth if the gutter is unobstructed by ice, snow, or debris.

Corrective Measure: The contractor will repair the gutter to meet the performance guideline.

Discussion: The consumer is responsible for maintaining gutters and downspouts and keeping them unobstructed. Contractors install residential gutters with minimal slope in order to maintain an attractive appearance. Installing gutters with 1/32-inch drop in 1 foot generally will prevent water from standing in the gutters. Even so, small amounts of water may remain in some sections of the gutter for a time after a rain. In areas with heavy rainfall and/or ice buildup, a steeper pitch or additional downspouts may be desirable.

Skylights

6-7-1 Observation: A skylight leaks.

Performance Guideline: Skylights will be installed in accordance with the manufacturer's instructions. Leaks resulting from improper installation are considered excessive.

Corrective Measure: The contractor will repair any improperly installed skylight to meet the performance guideline.

Discussion: Condensation on interior surfaces is not a leak.

Plumbing

Note: Remodeling Specific Guideline: Where applicable, in the following guidelines the contractor is responsible only for areas of the home where work was performed as specified in the contract, and not for the entire home.

Water Supply System

7-1-1 Observation: A pipe, valve, or fitting leaks.

Performance Guideline: No leaks of any kind will exist in any water pipe, valve, or fitting.

Corrective Measure: The contractor will make repairs to eliminate leakage.

7-1-2 Observation: Condensation is observed on pipes, fixtures, and plumbing supply lines.

Performance Guideline: Condensation on pipes, fixtures, and plumbing supply lines may occur at

certain temperatures and indoor humidity levels.

Corrective Measure: The consumer is responsible for controlling humidity in the house. No corrective action is required by the contractor.

Discussion: The consumer may insulate pipes and supply lines.

7-1-3 Observation: Water in a plumbing pipe freezes and the pipe bursts.

Performance Guideline: Drain, waste, vent, and water pipes will be adequately protected to reduce the possibility of freezing at the design temperatures and based on the prevailing building or plumbing code.

Corrective Measure: The contractor will correct situations not meeting the applicable code.

Discussion: The consumer is responsible for draining or otherwise protecting pipes and exterior faucets exposed to freezing temperatures.

7-1-4 Observation: The water supply system fails to deliver water.

Performance Guideline: All on-site service connections to the municipal water main or private water supply are the contractor's responsibility.

Corrective Measure: The contractor will repair the water supply system if the failure results from improper installation or failure of materials and if the connections are a part of the construction agreement. Conditions beyond the control of the contractor that disrupt or eliminate the water supply are not covered.

7-1-5 Observation: A water pipe is noisy.

Performance Guideline: Because of the flow of water and pipe expansion/contraction, the water piping system will emit some noise. However, the pipes should not make the pounding noise called water hammer.

Corrective Measure: The contractor cannot eliminate all noises caused by water flow and pipe expansion/contraction. However, the contractor will provide the water hammer protection required by the prevailing plumbing code.

Plumbing Fixtures

7-2-1 Observation: A faucet leaks.

Performance Guideline: A faucet will not leak as a result of defects in material or workmanship.

Corrective Measure: The contractor will repair or replace the leaking faucet if the contractor provided the fixture.

7-2-2 Observation: The bathtub or shower leaks.

Performance Guideline: Bathtubs and showers will not leak.

Corrective Measure: The contractor will repair bathtub or shower leaks as necessary to meet the performance guideline.

Discussion: Proper repair can be achieved by sealing areas around bathtubs and showers. The consumer is responsible for maintaining caulk seals after the point of substantial completion of the project.

7-2-3 Observation: A plumbing fixture, appliance, or trim fitting is defective.

Performance Guideline: Plumbing fixtures, appliances, and trim fittings will not be defective at the time of substantial completion of the project.

Corrective Measure: Defective trim fittings, appliances, and fixtures are covered under the manufacturer's warranty. The contractor will correct the condition in accordance with the manufacturer's warranty.

7-2-4 Observation: The surface of a plumbing fixture is cracked or chipped.

Performance Guideline: Cracks and chips in surfaces of showers, bathtubs, and sinks are considered excessive if they are visible from 3 feet in normal lighting conditions at the time of substantial completion of the project.

Corrective Measure: The contractor will inspect and, if necessary, repair any fixture that does not meet the performance guideline. The contractor is not responsible for repairs unless the damage is reported to the contractor prior to substantial completion of the project. If the problem is the result of a manufacturing defect, the manufacturer's warranty is in effect.

7-2-5 Observation: A bathtub or shower enclosure base flexes excessively.

Performance Guideline: The bathtub or shower enclosure will be installed according to the manufacturer's instructions; however, some noticeable flex is normal.

Corrective Measure: The contractor will inspect and, if necessary, repair the base to meet the performance guideline.

Discussion: It is normal for various bathtub and shower enclosure designs and materials to exhibit some flexing. Minimal noises may be associated with such movement.

7-2-6 Observation: A vanity top with an integrated sink is cracked.

Performance Guideline: Vanity tops will not have cracks.

Corrective Measure: The contractor will repair or replace the vanity top to meet the performance guideline. Cracks must be noted prior to substantial completion of the project.

7-2-7 Observation: A plumbing fixture does not deliver hot water.

Performance Guideline: The plumbing lines and fixtures should be correctly installed and operating to allow fixtures to deliver hot water at a temperature that is similar to the temperature as it leaves the hot water source, given the normal heat loss from delivery from the source to the fixture.

Corrective Measure: The contractor will correct the plumbing lines and/or adjust fixtures to meet the performance guideline.

Discussion: Hot water tanks or tankless water heaters are sometimes set at low temperatures to conserve energy and prevent young children from burning themselves. Likewise, some fixtures include safety devices to prevent scalding and may restrict the fixtures' ability to deliver water as hot as some consumers may desire. The timing of delivery can also be affected by the distance of a fixture from the hot water source.

Sanitary Sewer or Septic System

7-3-1 Observation: Wastewater fixtures and pipes are clogged, frequently clog, or drain slowly.

Performance Guideline: Sewers, fixtures, and drains will drain as designed.

Corrective Measure: If a problem occurs, the consumer should consult the contractor for corrective action. The contractor will correct problems caused by improper installation. If consumer action or negligence caused the problem, the consumer is responsible for the necessary repairs.

Remodeling Specific Guideline: If the problem is sludge contained in the existing system, the consumer is responsible for necessary corrections.

7-3-2 Observation: The septic system does not operate as designed.

Performance Guideline: The septic system will function as designed and specified by the local authority.

Corrective Measure: If a problem occurs, the consumer should consult the contractor for corrective action. The contractor will correct problems caused by improper installation. If consumer action or negligence is the cause, the consumer is responsible for correcting the problem.

Discussion: Consumer actions that constitute negligence under this performance guideline include but are not limited to the following:

- Connection of sump pump, roof drains, or backwash from a water conditioner into the system.
- Placement of non-biodegradable items into the system.
- Use of a food waste disposer not supplied or approved by the contractor.
- Placement of surfaces not permeable to water over the disposal area of the system.
- Allowing vehicles to drive or park over the disposal area of the system.
- Failure to pump out the septic tank periodically, as required.
- Use that exceeds the system's design standards.
- Lack of vegetation maintenance over drain fields.
- Allowing water to pond over the disposal area.

Electrical

Note: Remodeling Specific Guideline: Where applicable, in the following guidelines the contractor is responsible only for areas of the home where work was performed as specified in the contract, and not for the entire home.

Fuses and Circuit Breakers

8-1-1 Observation: A ground fault circuit interrupter (GFCI) or arc fault circuit interrupter (AFCI) trips frequently.

Performance Guideline: GFCIs and AFCIs should perform as intended and will be installed in accordance with applicable electrical codes.

Corrective Measure: The contractor will install ground fault and arc fault circuit interrupters in accordance with the prevailing electrical codes. Tripping is to be expected; however, the contractor will repair or replace components that frequently trip due to component failure or incorrect installation.

Discussion: AFCIs are installed to protect bedroom circuits and some other habitable areas of a residence. GFCIs protect outlets in wet areas (e.g., bathrooms, kitchens, garages, exterior, etc.). Because

outlets protected by GFCIs may be connected in a series, it may not be readily apparent that an inoperative convenience outlet is the result of a tripped GFCI in another room (not necessarily in the electrical panel). Both ground fault and arc fault circuit interrupters are very sensitive devices and consumers occasionally will experience nuisance tripping. The most common causes of nuisance tripping by AFCIs are damaged cords or plugs on consumers' lamps, small appliances, or other devices. Some newer vacuum cleaners and exercise equipment will not work on an AFCI-protected circuit. Static electricity also may cause nuisance tripping of circuit interrupters.

8-1-2 Observation: A fuse blows or a circuit breaker trips (non-GFCI or AFCI breakers).

Performance Guideline: Fuses and circuit breakers will not be tripped by normal usage.

Corrective Measure: The contractor will check wiring, circuits, and components for conformity with applicable electrical code requirements. The contractor will correct noncompliant elements.

Discussion: Blown fuses and tripped breakers are symptoms of a problem in some part of the home's electrical system or a consumer product connected to the system. Although components may be defective, consumer-owned fixtures and appliances usually are responsible for electrical malfunctions and nuisance tripping. The consumer should unplug or disconnect fixtures and appliances on the circuit and then replace the fuse or reset the breaker. If the problem recurs, the consumer should notify the contractor.

Outlets and Fixtures

8-2-1 Observation: Electrical outlets, switches, or fixtures malfunction.

Performance Guideline: All electrical outlets, switches, and fixtures will operate as designed.

Corrective Measure: The contractor will repair or replace malfunctioning electrical outlets, switches, and fixtures if they were supplied and installed by the contractor.

8-2-2 Observation: Wiring fails to carry its designed load.

Performance Guideline: Wiring will be capable of carrying the designed load for normal residential use.

Corrective Measure: The contractor will verify that wiring conforms to applicable electrical code requirements. The contractor will correct wiring that does not conform.

8-2-3 Observation: A light fixture's finish is defective.

Performance Guideline: Finishes on light fixtures may be covered under the manufacturer's warranty.

Corrective Measure: The contractor will correct the condition in accordance with the manufacturer's warranty.

8-2-4 Observation: Receptacle or switch covers protrude from the wall.

Performance Guideline: Receptacle or switch covers should not protrude more than 1/16 inch from the wall.

Remodeling Specific Guideline: Covers installed on an existing wall do not fall under this guideline.

Corrective Measure: The contractor will adjust the covers to meet the performance guideline.

Discussion: Some textured wall finishes may not allow a cover to be installed flush.

8-2-5 Observation: The consumer's 220-volt appliance plug does not fit the outlet provided by the contractor.

Performance Guideline: The contractor will install electrical outlets required by the prevailing electrical code.

Corrective Measure: No corrective action is required by the contractor.

Discussion: The consumer is responsible for obtaining an appliance plug that fits the outlets the contractor is required to provide.

8-2-6 Observation: Low-voltage lighting flickers.

Performance Guideline: Low-voltage lighting should operate as designed.

Corrective Measure: The contractor will repair or replace malfunctioning low-voltage fixtures if they were supplied and installed by the contractor.

Discussion: Low-voltage transformers are sized according to the fixtures that are installed on a circuit. The transformers must have sufficient ventilation around them. Consumers who add fixtures or change the wattage in fixtures after the circuit is designed and installed may cause the transformer to be undersized for a particular application.

8-2-7 Observation: Ceiling fan vibrates excessively and/or is noisy.

Performance Guideline: The contractor will install ceiling fans in accordance with the manufacturer's instructions (including blade balances).

Corrective Measure: The contractor will correct any fan installation not in accordance with the performance guideline if the fan was supplied and installed by the contractor.

Discussion: There are varying levels of performance for ceiling fans and some noise or vibration may be inherent in the specific fan installed.

8-2-8 Observation: A smoke or carbon monoxide detector chirps or otherwise malfunctions.

Performance Guideline: Detectors should operate as designed at substantial completion of the project.

Corrective Measure: The contractor will repair or replace the smoke or carbon monoxide detector. If chirping is caused by low batteries, it is the consumer's responsibility to replace the detector's batteries.

Discussion: Most smoke or carbon monoxide detectors are powered by both the electrical power and a backup battery. Chirping may indicate that the battery is weak or is not installed. If the chirping occurs on a new detector, the contractor will check the battery, verify that the detector is wired correctly, and replace the device if necessary. Safety officials recommend that consumers change the batteries in detectors semiannually when daylight-saving time begins and ends.

Interior Climate Control

Note: Remodeling Specific Guideline: Where applicable, in the following guidelines the contractor is responsible only for areas of the home where work was performed as specified in the contract, not for the entire home.

Air Infiltration and Drafts

9-1-1 Observation: Air infiltrates around exterior doors or windows.

Performance Guideline: Some infiltration is usually noticeable around doors and windows. Weather stripping will be installed and sized properly to seal the exterior door when closed. Windows will be installed per the manufacturer's instructions.

Corrective Measure: The contractor will correct to meet the performance guideline.

Discussion: At times of high wind or temperature differentials inside the home and outside, there may be noticeable air movement around a closed door's perimeter or window. In high-wind areas, the consumer may elect to have storm windows and doors installed to further reduce drafts. Doors must have gaps at their perimeter to accommodate expansion and contraction due to variations in temperature and/or humidity and to enable the door to operate over a wide range of environmental conditions. Weather stripping seals the gaps required for proper operations to prevent excessive air infiltration. A small glimmer of light seen at the corners of the door unit is normal. Weather stripping should be kept clean and maintained by the consumer.

9-1-2 Observation: A draft comes through an electrical outlet.

Performance Guideline: Electrical outlets and switch boxes on exterior walls may allow cold air to flow through or around an outlet into a room.

Corrective Measure: No corrective action is required by the contractor.

Discussion: The consumer may elect to install foam insulation pads under switch and outlet plates to help decrease drafts.

Humidity Control and Condensation

9-2-1 Observation: Water, ice, or frost is observed on the interior frame or glass surface of a window.

Performance Guideline: Windows will be installed in accordance with the manufacturer's instructions and the prevailing building codes.

Corrective Measure: No corrective action is required by the contractor unless the water, ice, or frost is directly attributed to faulty installation.

Discussion: Condensation usually results from conditions beyond the contractor's control. Moisture in the air can condense into water and collect on cold surfaces, particularly in the winter months when the outside temperature is low. Blinds and drapes can prevent air within the home from moving across the cold surface and picking up the moisture. Occasional condensation (water) in the kitchen, bath, or laundry area is common. It is the consumer's responsibility to maintain proper humidity by properly operating heating and cooling systems' exhaust fans and allowing moving air within the house to flow over the interior surface of the windows.

Ducts and Airflow

9-3-1 Observation: The ductwork makes noises.

Performance Guideline: Ductwork will be constructed and installed in accordance with applicable mechanical code requirements.

Corrective Measure: No corrective action is required by the contractor unless the duct does not comply with the prevailing building code.

Discussion: Metal expands when it is heated and contracts when it cools. The ticking or crackling sounds caused by the metal's movement are common.

9-3-2 Observation: The ductwork produces excessively loud noises commonly known as "oil

canning."

Performance Guideline: The stiffening of the ductwork and the thickness of the metal used will be such that ducts do not "oil can." The booming noise caused by oil canning is considered excessive.

Corrective Measure: The contractor will correct the ductwork to eliminate oil canning.

9-3-3 Observation: There is airflow noise at a register.

Performance Guideline: The register should be correctly installed according to the manufacturer's instructions.

Corrective Measure: No corrective action is required by the contractor, unless registers are not installed according to the manufacturer's instructions.

Discussion: Under certain conditions, there will be some noise with the normal flow of air even when registers are installed correctly.

9-3-4 Observation: The ductwork is separated or detached.

Performance Guideline: Ductwork will remain intact and securely fastened.

Corrective Measure: The contractor will reattach and secure all separated or unattached ductwork.

9-3-5 Observation: There is insufficient air flow to registers.

Performance Guideline: The ductwork should be correctly installed according to manufacturer's instructions and the applicable mechanical code.

Corrective Measure: The contractor will correct ductwork to meet the performance guideline. If the air flow is adequate to properly condition the room, no corrective action is required of the contractor.

Discussion: The adequacy of air flow may be subjective. See Sections 9-4-1 and 9-4 -3 regarding the adequacy of the heating and cooling systems.

Heating and Cooling Systems

9-4-1 Observation: The heating system is inadequate.

Performance Guideline: The heating system will be capable of producing an inside temperature of 70 degrees Fahrenheit, as measured in the center of each room at a height of 5 feet above the floor under local outdoor winter design conditions. National, state, or local energy codes supersede this performance guideline where such codes have been adopted. Work should be done in accordance with the prevailing building codes.

Corrective Measure: The contractor will correct the heating system to provide the required temperature in accordance with the performance guideline or applicable code requirements. However, the consumer will be responsible for balancing dampers and registers and for making other necessary minor adjustments.

Discussion: Closed interior doors, closed registers, and dirty filters can restrict air flow and may affect the system's performance.

Remodeling Specific Guideline: For new living spaces created by remodeling jobs, heating guidelines may not apply to areas where living space has been created without providing additional heating and/or resizing the ductwork.

9-4-2 Observation: The radiant floor has cold spots.

Performance Guideline: The radiant floor should be correctly installed according to the manufacturer's instructions.

Corrective Measure: The contractor will correct to meet the performance guideline.

Discussion: Depending on the size, shape, flooring material, manufacturer and type of radiant floor system, the number and size of cold spots in a floor will vary. A normally operating radiant floor system may include cold spots in perimeter areas and in areas between the heating sources.

9-4-3 Observation: The cooling of rooms is inadequate.

Performance Guideline: If air conditioning is installed by the contractor, the cooling system will be capable of maintaining a temperature consistent with the manufacturer's specifications. National, state, or local codes will supersede this guideline where such codes have been adopted. Work should be done in accordance with the prevailing building codes.

Corrective Measure: The contractor will correct the cooling system to provide the required temperature in accordance with the applicable code requirements or manufacturer's specifications, whichever is more restrictive.

Discussion: Closed interior doors, closed registers and dirty filters can restrict air flow and may affect the system's performance.

Remodeling Specific Guideline: For new living spaces created by remodeling jobs, cooling guidelines may not apply to areas where living space has been created without providing additional cooling and/or resizing the ductwork.

9-4-4 Observation: The air handler or furnace vibrates.

Performance Guideline: The units will be installed in accordance with the manufacturer's instructions and the prevailing building codes.

Corrective Measure: If installed incorrectly, the contractor will correct the items according to the manufacturer's instructions and code requirements.

Discussion: Under certain conditions, some vibration may occur with the normal flow of air when air handlers and furnaces are installed correctly. Debris in the furnace or air handler could cause the unit to become out of balance and vibrate. It is the consumer's responsibility to keep units clear of debris.

9-4-5 Observation: A condensate line is clogged.

Performance Guideline: Condensate lines will be free of all clogs at the time of substantial completion of the project.

Corrective Measure: The contractor will provide unobstructed condensate lines at the time of substantial completion of the project. The consumer is responsible for maintaining them in that condition.

Discussion: Condensate lines will eventually clog under normal use. The consumer is responsible for checking and maintaining clear lines.

9-4-6 Observation: Refrigerant lines leak.

Performance Guideline: Refrigerant lines and fittings will not leak.

Corrective Measure: The contractor will repair leaking refrigerant lines and recharge the air-conditioning

unit, unless the damage was caused by the consumer's actions or negligence.

9-4-7 Observation: There is condensation on the outside of air handlers, refrigerant lines or ducts.

Performance Guideline: Moisture may condense on the exterior surfaces of air handlers, lines, and ducts when the air temperature is different from the surface temperature.

Corrective Measure: No corrective action is required by the contractor, unless the condensation is directly attributed to faulty installation.

Discussion: Condensation is most likely to occur when air handlers, refrigerant lines, or ducts are located in unconditioned locations such as a crawl space, basement, attic, or in exterior locations. Condensation usually results from conditions beyond the contractor's control. Moisture in the air can condense to form water and collect on cold duct surfaces, particularly in the summer months when the humidity is high.

Ventilation

9-5-1 Observation: Kitchen or bath fans allow air infiltration.

Guideline: Bath and kitchen fans will be installed in accordance with the manufacturer's instructions and applicable code requirements and perform in accordance with the manufacturer's specifications.

Corrective Measure: No corrective action is required by the contractor if the fan installation meets the performance guideline.

Discussion: It is possible for outside air to enter the home through a ventilation fan. The dampers in most fans do not seal tightly. It is possible for the damper to be lodged open due to animal activity (including nesting in the outside opening), or the accumulation of grease, lint, and other debris. Maintenance of ventilating fans is the consumer's responsibility.

9-5-2 Observation: HVAC vent or register covers protrude from a smooth wall or ceiling surface.

Performance Guideline: Registers will not protrude more than 1/16 inch from a smooth wall or ceiling surface at the time of substantial completion of the project.

Corrective Measure: The contractor will correct to meet the performance guideline.

Discussion: Registers and grills may deflect over time. This can result in gaps occurring between the grill or register and the wall or ceiling. As long as the vent or register is securely attached, this is not a warranty item. Some textured wall finishes may not allow a register to be installed flush.

Interior Finish

Note: Remodeling Specific Guideline: Where applicable, in the following guidelines the contractor is responsible only for areas of the home where work was performed as specified in the contract, not for the entire home.

Interior Doors

10-1-1 Observation: An interior door is warped.

Performance Guideline: Interior doors will not warp to the extent that they become inoperable. A 1/4 inch tolerance, as measured diagonally from corner to corner, is acceptable.

Corrective Measure: The contractor will correct or replace and refinish defective doors to match existing doors as closely as practical.

Discussion: In bathroom or utility areas, exhaust fans or an open window must be used to minimize moisture to prevent warpage of door units. The contractor is not responsible for refinishing if doors were finished by the consumer.

10-1-2 Observation: Bifold and bypass doors come off their tracks during normal operation.

Performance Guideline: At the time of substantial completion of the project, bifold and bypass doors will slide properly on their tracks.

Corrective Measure: One time only during the warranty period, the contractor will adjust any bifold and bypass door that will not stay on its track during normal operation.

Discussion: Proper operation should be verified by the consumer and the contractor at the time of substantial completion of the project. Consumers should be aware that bifold and bypass doors are inherently more sensitive than swing doors and need to be treated accordingly. The consumer is responsible for cleaning and maintenance necessary to preserve proper operation.

10-1-3 Observation: A pocket door rubs in its pocket during normal operation.

Performance Guideline: Pocket doors will operate smoothly during normal operation.

Corrective Measure: One time only during the warranty period, the contractor will adjust the pocket door to meet the performance guideline.

Discussion: Pocket doors commonly rub, stick, or derail because of the inherent nature of the product. It is common for the door to also rub against the guides provided by the manufacturer.

10-1-4 Observation: A wooden door panel has shrunk or split.

Performance Guideline: Wooden door panels will not split to the point that light is visible through the door.

Corrective Measure: One time only during the warranty period, the contractor will fill splits in the door panel with wood filler and will match the paint or stain as closely as practical.

10-1-5 Observation: A door rubs on jambs or contractor-installed floor covering.

Performance Guideline: Doors will operate smoothly.

Corrective Measure: One time only during the warranty, the contractor will adjust the door as necessary to meet the performance guideline.

10-1-6 Observation: A door edge is not parallel to the door jamb.

Performance Guideline: When the contractor installs the door frame and door, the door edge will be within 3/16 inch of parallel to the door jamb.

Remodeling Specific Guideline: Where the contractor installs the door in an existing frame that is out of square, the performance guideline does not apply.

Corrective Measure: One time only during the warranty period, the contractor will adjust the door as necessary to meet the performance guideline.

10-1-7 Observation: A door swings open or closed from the force of gravity.

Performance Guideline: Doors will not swing open or closed from the force of gravity alone.

Remodeling Specific Guideline: This guideline does not apply where a door is installed in an existing wall that is out of plumb.

Corrective Measure: One time only during the warranty period, the contractor will adjust the door as necessary to meet the performance guideline.

10-1-8 Observation: A door hinge squeaks.

Performance Guideline: Door hinges will not squeak.

Corrective Measure: One time only during the warranty period, the contractor will adjust the door as necessary to meet the performance guideline.

10-1-9 Observation: Interior doors do not operate smoothly.

Performance Guideline: Doors will move smoothly with limited resistance.

Corrective Measure: One time only during the warranty period, the contractor will adjust the door to meet the performance guideline.

10-1-10 Observation: A door knob or latch does not operate smoothly.

Performance Guideline: A door knob or latch should not stick or bind during operation.

Corrective Measure: One time only during the warranty period, the contractor will adjust, repair, or replace knobs or latches that are not operating smoothly.

Discussion: Because locksets are rather complex mechanical devices, some may have a heavy or stiff feel to them, but are operating as intended by the manufacturer. This can be true for locksets of all price ranges. Slamming doors or hanging items on the door knob will affect knob or latch operation; it is not the contractor's responsibility to adjust or repair problems caused by such conditions.

Interior Stairs

10-2-1 Observation: An interior stair tread deflects.

Performance Guideline: The maximum vertical deflection of an interior stair tread will not exceed 1/8 inch at 200 pounds of force.

Corrective Measure: The contractor will repair the stair to meet the performance guideline.

10-2-2 Observation: Gaps exist between interior stair risers, treads, and/or skirts.

Performance Guideline: Gaps between adjoining parts that are designed to meet flush will not exceed 1/8 inch in width.

Corrective Measure: The contractor will repair or replace the parts as necessary to meet the performance guideline.

Discussion: The use of filler is an appropriate method to fill gaps.

10-2-3 Observation: A stair riser or tread squeaks.

Performance Guideline: Loud squeaks caused by a loose stair riser or tread are considered excessive; however, totally squeak-proof stair risers or treads cannot be guaranteed.

Corrective Measure: The contractor will refasten any loose risers or treads or take other reasonable and

cost-effective corrective action to eliminate squeaking without removing treads or ceiling finishes.

Discussion: Squeaks in risers or treads may occur when a riser has come loose from the tread, deflects from the weight of a person and rubs against the nails that hold it in place. Movement may occur between the riser and the tread or other stairway members when one tread is deflected while the other members remain stationary. Using trim screws to fasten the tread to the riser from above sometimes will reduce squeaking. If there is no ceiling below, gluing or re-nailing the riser to the tread or shimming will reduce squeaks but completely eliminating squeaks is not always possible.

10-2-4 Observation: Gaps exist between interior stair railing parts.

Performance Guideline: Gaps between interior stair railing parts will not exceed 1/8 inch in width.

Corrective Measure: The contractor will ensure that individual parts of the railing are securely mounted. Any remaining gaps will be filled or the parts will be replaced to meet the performance guideline.

10-2-5 Observation: An interior stair railing lacks rigidity.

Performance Guideline: Interior stair railings will be installed in accordance with applicable building codes.

Corrective Measure: The contractor will secure, as necessary, any stair railing parts that loosen with normal use, to meet the performance guideline.

Discussion: Stair railings are designed to protect an individual while stepping up and down a stairwell. Pulling, swinging, hanging, or sliding on railings may loosen the rail system and are not covered under the contractor's warranty.

Trim and Moldings

10-3-1 Observation: There are gaps at non-mitered trim and molding joints.

Performance Guideline: At the time of substantial completion of the project, openings at joints in trim and moldings, and at joints between moldings and adjacent surfaces, will not exceed 1/8 inch in width.

Corrective Measure: The contractor will repair joints to meet the performance guideline. The contractor is not responsible for gaps which occur after substantial completion.

Discussion: Failing to control indoor relative humidity may cause separation of trim and moldings in excess of the performance guideline. Joints that separate under these conditions are not considered defective. The consumer is responsible for controlling temperature and humidity in the house.

10-3-2 Observation: Nails are not properly set or nail holes are not properly filled.

Performance Guideline: Setting nails and filling nail holes are considered part of painting and finishing. After finishing, nails and nail holes will not be readily visible from a standing position facing the surface at distance of 6 feet under normal lighting conditions. After painting or staining, putty colors will not exactly match variations in wood color.

Corrective Measure: Where the contractor is responsible for painting, the contractor will take action necessary to meet the performance guideline. Puttying of nail holes in base and trim molding installed in unfinished rooms and areas not exposed to view (such as inside of closets) is not included in this guideline.

10-3-3 Observation: An inside corner is not coped or mitered.

Performance Guideline: Trim and molding edges at inside corners will be coped or mitered. However,

square-edge trim and molding may be butted.

Corrective Measure: The contractor will finish inside corners to meet the performance guideline.

10-3-4 Observation: Trim or molding mitered edges do not meet.

Performance Guideline: At the time of substantial completion of the project, gaps between mitered edges in trim and molding will not exceed 1/8 inch.

Corrective Measure: The contractor will repair gaps that do not meet the performance guideline. Caulking or puttying with materials compatible with the finish is acceptable. The contractor is not responsible for gaps which occur after substantial completion.

Discussion: Separation of trim and moldings in excess of the performance guideline may be caused by lack of control of indoor relative humidity. Joints that separate under these conditions are not considered defective. It is the consumer's responsibility to control temperature and humidity in the house.

10-3-5 Observation: Interior trim is split.

Performance Guideline: Splits, cracks, and checking greater than 1/8 inch in width are considered excessive.

Corrective Measure: One time only during the warranty period, the contractor will repair the affected area to meet the performance guideline. Refinished or replaced areas may not match surrounding surfaces exactly.

10-3-6 Observation: Hammer marks are visible on interior trim.

Performance Guideline: Hammer marks on interior trim will not be readily visible from a standing position facing the surface at a distance of 6 feet under normal lighting conditions.

Corrective Measure: The contractor will fill hammer marks and refinish or replace affected trim to meet the performance guideline. Refinished or replaced areas may not match surrounding surfaces exactly.

Discussion: Dents and marks on trim due to consumer's actions are not the contractor's responsibility.

10-3-7 Observation: Wood trim appearance is uneven.

Performance Guideline: Variations in natural wood trim are common.

Corrective Measure: No corrective action is required by the contractor.

Cabinets

10-4-1 Observation: Cabinets do not meet the ceiling or walls.

Performance Guideline: Gaps greater than 1/4 inch in width are considered excessive.

Corrective Measure: The contractor will repair the gap with caulk, putty, scribe molding, or will reposition/reinstall cabinets to meet the performance guideline.

Discussion: Remodeling Specific Guideline: When installed in rooms with out-of-plumb walls or out-of-level floors and ceilings, "square" cabinets cannot be installed parallel to walls and ceilings and still be kept on line. For example, if the floor is not level and the installer measures up from it, snaps a line on which to place the tops of the wall cabinets, and then plumbs the first cabinet, one corner of the cabinet will leave the line, and the bottom of successive cabinets will not be in line. Similarly, cabinets will not line up with each other if they are installed on a level line, starting against an out-of-plumb wall instead of a

plumb wall. The contractor should explain the aesthetic options to the consumer and select the best option with the consumer.

10-4-2 Observation: Cabinets do not line up with each other.

Performance Guideline: Cabinet faces more than 1/8 inch out of line, and cabinet corners more than 3/16 inch out of line are considered excessive.

Remodeling Specific Guideline: The consumer and the contractor may agree to disregard this guideline in order to match or otherwise compensate for preexisting conditions.

Corrective Measure: The contractor will make necessary adjustments to meet the performance guideline.

Discussion: Remodeling Specific Guideline: In remodeling projects, many times the rooms are out of square, walls are not plumb, and floors are not level. Cabinets and countertops may have to be shimmed or otherwise adjusted to make the cabinets and countertops fit together properly. Cabinets may not fit flush against the walls on the ends or bottoms and may not fit flat against the floor.

10-4-3 Observation: A cabinet door or drawer front is warped.

Performance Guideline: Door or drawer warpage will not exceed 1/4 inch as measured from the face frame to the point of furthest warpage, with the door or drawer front in closed position.

Corrective Measure: The contractor will correct or replace doors and drawer fronts as necessary to meet the performance guideline.

Discussion: Failing to control indoor relative humidity may cause warpage that exceeds the performance guideline. Doors or drawers that warp under these conditions are not considered defective. It is the consumer's responsibility to control temperature and humidity in the house.

10-4-4 Observation: A cabinet door or drawer binds.

Performance Guideline: Cabinet doors and drawers will open and close with reasonable ease.

Corrective Measure: The contractor will adjust or replace cabinet door hinges and/or drawer hardware as necessary to meet the performance guideline.

10-4-5 Observation: A cabinet door will not stay closed.

Performance Guideline: The catches or closing hardware for cabinet doors will be adequate to hold the doors in a closed position.

Corrective Measure: One time only during the warranty period, the contractor will adjust or replace the door catches or closing hardware as necessary to meet the performance guideline.

10-4-6 Observation: Cabinet doors or drawer fronts are cracked.

Performance Guideline: Cabinet doors and drawer fronts will not crack.

Corrective Measure: The contractor will replace or repair cracked panels and drawer fronts. No corrective action is required by the contractor if the cracked drawer fronts or panels result from the consumer's abuse.

Discussion: Paint or stain on the repaired or replaced door or drawer front may not match the stain on the existing panels or drawer fronts. Grain patterns or intensity cannot be matched perfectly. The contractor will only be required to match the same species of wood, matching the grain pattern as close

as possible. Some species of wood will age and darken over time. An exact match may not be possible. Use of manufacturer-provided touch-up kits is acceptable to address minor imperfections in the cabinet finish.

10-4-7 Observation: Cabinet units are not level.

Performance Guideline: Individual cabinets should not have a deviation of more than 3/16 inch out of level. **Remodeling Specific Guideline:** The consumer and the contractor may agree to disregard this guideline in order to match or otherwise compensate for preexisting conditions.

Corrective Measure: The contractor will level cabinets to meet the performance guideline.

Discussion: Remodeling Specific Guideline: In remodeling projects, many times the rooms are out of square, walls are not plumb, and floors are not level. Cabinets and countertops may have to be shimmed or otherwise adjusted to make the cabinets and countertops fit together properly. Cabinets may not fit flush against the walls on the ends or bottoms and may not fit flat against the floor.

10-4-8 Observation: A cabinet frame is out of square.

Performance Guideline: A cabinet frame, when measured diagonally from corner to corner, will not exceed a difference of more than 1/4 inch.

Corrective Measure: The contractor will repair or replace the cabinet to meet the performance guideline.

10-4-9 Observation: Cabinet doors do not align when closed.

Performance Guideline: Gaps between doors should not deviate more than 1/8 inch from top to bottom.

Corrective Measure: The contractor will adjust doors to meet the performance guideline.

Countertops

10-5-1 Observation: High-pressure laminate on a countertop is delaminated.

Performance Guideline: Countertops fabricated with high-pressure laminate coverings will not delaminate.

Corrective Measure: The contractor will repair or replace delaminated coverings, unless the delamination was caused by the consumer's misuse or negligence.

Discussion: Consumers should refrain from leaving any liquids near the countertop seams or allowing the surface to become excessively hot.

10-5-2 Observation: The surface of high-pressure laminate on a countertop is cracked or chipped.

Performance Guideline: At the time of substantial completion of the project, cracks or chips greater than a 1/16 inch are considered excessive.

Corrective Measure: The contractor will repair or replace cracked or chipped countertops to meet the performance guideline only if they are reported at the time of substantial completion of the project.

10-5-3 Observation: Countertops are visibly scratched.

Performance Guideline: At the time of substantial completion of the project, countertops will be free of scratches visible from 6 feet under normal lighting conditions.

Corrective Measure: The contractor will repair scratches in the countertop to meet the performance guideline.

Discussion: Minor imperfections and scratches will be more visible in dark, glossy tops.

10-5-4 Observation: A countertop is not level.

Performance Guideline: Countertops will be no more than 3/8 inch in 10 feet out of level.

Remodeling Specific Guideline: For projects where the floor is out of level, the countertop may be installed proportionately out of level.

Corrective Measure: The contractor will make necessary adjustments to meet the performance guideline.

Discussion: Remodeling Specific Guideline: In remodeling projects, many times the rooms are out of square, walls are not plumb, and floors are not level. Cabinets and countertops may have to be shimmed or otherwise adjusted to make the cabinets and countertops fit together properly.

10-5-5 Observation: A tile countertop has uneven grout lines.

Performance Guideline: Grout lines should not vary more than 1/16 inch from the widest to the narrowest.

Corrective Measure: The contractor will make corrections as necessary to bring the grout lines into compliance to meet the performance guideline.

Discussion: Different tiles require different widths of grout lines. Some tiles are designed to have varied-width grout lines. Irregularly sized tiles will also often result in uneven and variable grout width.

10-5-6 Observation: Tile countertop grout lines are cracked.

Performance Guideline: Tile grout is a cement product and is subject to cracking. Cracks that result in loose tiles or gaps in excess of 1/16 inch will be repaired.

Corrective Measure: One time only during the warranty period, the contractor will repair the grout lines by adding grout, caulking, or replacing grout.

10-5-7 Observation: The surface of countertop tile has excessive lippage from the adjoining tile.

Performance Guideline: Lippage greater than 1/16 inch is considered excessive, except for materials that are designed with an irregular height (such as handmade tile).

Corrective Measure: The contractor will repair or replace the tile to meet the performance guideline.

10-5-8 Observation: A granite, marble, stone, or solid-surface countertop is cracked.

Performance Guideline: At the time of substantial completion of the project, cracks greater than 1/32 inch in width are considered excessive.

Corrective Measure: If the crack is found to be a result of faulty installation or product, the contractor will repair or replace the countertop. Patching is an acceptable repair.

10-5-9 Observation: A granite, marble, stone, or solid-surface countertop has texture or color variations.

Performance Guideline: Color variations in natural-surface products are acceptable. Solid-surface

variations in texture and colors are covered by the manufacturer's warranty.

Corrective Measure: No corrective action is required by the contractor.

10-5-10 Observation: A granite, marble, stone, or solid-surface countertop is chipped.

Performance Guideline: At the time of substantial completion of the project, chips greater than 1/32 inch in width are considered excessive.

Corrective Measure: The contractor will repair or replace affected areas to meet the performance guidelines. The use of an appropriate filler is an acceptable repair.

10-5-11 Observation: A granite, marble, stone, or solid-surface countertop has visible seams.

Performance Guideline: Seams may be visible and especially noticeable with certain countertop materials and darker finishes.

Corrective Measure: No corrective action is required by the contractor.

10-5-12 Observation: A granite, marble, or stone countertop has excessive lippage between sections.

Performance Guideline: Lippage greater than 1/32 inch is considered excessive.

Corrective Measure: The contractor will repair or replace the countertop to meet the performance guideline.

10-5-13 Observation: A solid-surface or laminate countertop has a bubble, burn, stain, or other damage.

Performance Guideline: At the time of substantial completion of the project, solid-surface or laminate countertops will be free of bubbles, burns, or stains.

Corrective Measure: The contractor will repair or replace the countertop to meet the performance guideline.

Discussion: Solid-surface and laminate products may be subject to damage by hot surfaces placed on or near the product. The consumer is responsible for maintaining the countertop and protecting it from damage.

10-5-14 Observation: Manmade cultured marble top has hairline cracking around or near the drain.

Performance Guideline: At the time of substantial completion of the project, no visible cracks should be apparent to the naked eye. Top should withstand water temperatures of 130 degrees Fahrenheit without cracking.

Corrective Measure: The contractor will repair or replace the countertop to meet the performance guideline.

Discussion: Cultured marble tops are sensitive to rapid temperature changes, and may become thermally shocked. This process will cause cracking of the gel coat finish at or near the point of the temperature change. Water heater should be set at or below 130 degrees Fahrenheit. Thermal shocking is not covered by warranty.

Interior Wall Finish

Lath and Plaster

10-6-1 Observation: Cracks are visible on a finished wall or ceiling.

Performance Guideline: Cracks will not exceed 1/16 inch in width.

Corrective Measure: One time only during the warranty period, the contractor will repair cracks exceeding 1/16 inch in width. The contractor will touch up paint on repaired areas if the contractor was responsible for the original interior painting. A perfect match between original and new paint cannot be expected and the contractor is not required to paint an entire wall or room.

Gypsum Wallboard or Drywall

10-6-2 Observation: A nail pop, blister, or other blemish is visible on a finished wall or ceiling.

Performance Guideline: Any such blemishes that are readily visible from a standing position facing the surface at distance of 6 feet under normal lighting conditions are considered excessive.

Corrective Measure: One time only during the warranty period, the contractor will repair such blemishes. The contractor will touch up paint on repaired areas if the contractor was responsible for the original interior painting. A perfect match between original and new paint cannot be expected, and the contractor is not required to paint an entire wall or room. The contractor is not required to repair defects that are covered by wallpaper and that, therefore, are not visible.

Discussion: When drywall has been placed on lumber surfaces subject to shrinkage and warpage and which are not perfectly level and plumb, problems may often occur through stress and strain placed on drywall during the stabilization of the lumber, which is inherent in the construction of the house. Due to the initial stabilization problem that exists with the new home, it is impossible to correct each defect as it occurs, and it is essentially useless to do so. The entire home will tend to stabilize itself. Correcting the drywall near the end of the warranty period provides the consumer with the best possible solution.

10-6-3 Observation: Cracked corner bead, excess joint compound, trowel marks, or blisters in tape joints are observed on the drywall surface.

Performance Guideline: Defects resulting in cracked corner bead, trowel marks, excess joint compound or blisters in tape are considered excessive.

Corrective Measure: One time only during the warranty period, the contractor will repair the affected area of the wall to meet the performance guideline.

10-6-4 Observation: Joints protrude from the surface.

Performance Guideline: Any joints that are visible from a standing position facing the surface at distance of 6 feet under normal lighting conditions are considered excessive.

Corrective Measure: One time only during the warranty period, the contractor will repair affected areas.

Discussion: Visible joints often occur in long walls, stairwells, ceilings, and areas of two-story homes where framing members have shrunk and caused the drywall to protrude.

10-6-5 Observation: Angular gypsum wallboard joints are uneven.

Performance Guideline: This is a common condition that occurs with randomly applied materials.

Corrective Measure: No corrective action is required by the contractor.

10-6-6 Observation: The texture of gypsum wallboard does not match.

Performance Guideline: Any variations that are readily visible from a standing position facing the surface at a distance of 6 feet under normal lighting conditions are considered excessive.

Corrective Measure: The contractor will repair the affected area to meet the performance guideline.

10-6-7 Observation: Drywall is cracked.

Performance Guideline: Drywall cracks greater than 1/16 inch in width are considered excessive.

Corrective Measure: One time only during the warranty period, the contractor will repair cracks and touch up paint in affected areas. The texture and paint color may not exactly match the existing texture and paint color.

10-6-8 Observation: Sprayed or textured ceilings have uneven textures.

Performance Guideline: This is a common condition that occurs with randomly applied materials.

Corrective Measure: No corrective action is required by the contractor.

Paint, Stain, and Varnish

10-6-9 Observation: Interior paint does not cover the underlying surface.

Performance Guideline: The surface being painted will not show through new paint when viewed from a standing position facing the surface at distance of 6 feet under normal lighting conditions.

Corrective Measure: The contractor will recoat affected areas as necessary to meet the performance guideline as closely as practical.

Discussion: The amount and direction of sunlight can have a significant effect on how a surface appears. It is not unusual for the underlying surface to be visible in direct sunlight; no corrective action is required of the contractor in such instances.

10-6-10 Observation: An interior surface is spattered with paint.

Performance Guideline: Paint spatters will not be readily visible on walls, woodwork, floors, or other interior surfaces when viewed from a standing position facing the surface at distance of 6 feet under normal lighting conditions.

Corrective Measure: The contractor will remove paint spatters to meet the performance guideline.

10-6-11 Observation: Brush and roller marks show on interior painted surface.

Performance Guideline: Brush marks will not be readily visible on interior painted surfaces when viewed from a standing position facing the surface at a distance of 6 feet under normal lighting conditions.

Corrective Measure: The contractor will refinish as necessary to meet the performance guideline and match affected areas as closely as practical.

10-6-12 Observation: Lap marks show on interior painted or stained areas.

Performance Guideline: Lap marks will not be readily visible on interior painted or stained areas when viewed from a standing position facing the surface at distance of 6 feet under normal lighting conditions.

Corrective Measure: The contractor will refinish as necessary to meet the performance guideline and match affected areas as closely as practical.

10-6-13 Observation: Interior painting, staining, or refinishing of repair work does not match.

Performance Guideline: A perfect match between original and new paint cannot be expected. Repairs

required under the performance guideline will be finished to match the immediate surrounding areas as closely as practical.

Corrective Measure: No corrective action is required by the contractor.

Discussion: Where the majority of the wall or ceiling area is affected, the area will be painted from breakline to breakline. The contractor is not required to paint an entire room.

10-6-14 Observation: Resin has bled through the paint on interior trim.

Performance Guideline: This is a common condition that can be expected to occur with natural materials such as wood.

Corrective Measure: No corrective action is required by the contractor.

Wallpaper and Vinyl Wall Coverings

10-6-15 Observation: The wall covering has peeled.

Performance Guideline: The wall covering will not peel.

Corrective Measure: The contractor will reattach or replace the loose wall covering if the contractor installed the covering and peeling is not due to consumer actions.

Discussion: Wallpaper applied in high moisture areas is exempted from this guideline because the problem results from conditions beyond the contractor's control.

10-6-16 Observation: Patterns in wall covering are mismatched.

Performance Guideline: Patterns in wall coverings will match. Irregularities in the patterns themselves are the manufacturer's responsibility.

Remodeling Specific Guideline: This guideline does not apply if material is installed on existing out-of-plumb walls or where trim is not square with corners.

Corrective Measure: The contractor will correct the wall covering to meet the performance guideline.

Discussion: Some wall coverings have patterns that do not need to be matched.

Flooring Carpeting

11-1-1 Observation: Carpet does not meet at the seams.

Performance Guideline: Visible gaps at the seams are considered excessive.

Corrective Measure: It is not unusual for carpet seams to be visible from a standing position. If the carpet was installed by the contractor, the contractor will correct visible gaps at carpet seams.

11-1-2 Observation: Carpet is stretched or loose.

Performance Guideline: When stretched and secured properly, wall-to-wall carpeting will not unfasten, loosen, or separate from the points of attachment.

Corrective Measure: If the carpeting was installed by the contractor, the contractor will restretch or resecure the carpeting as necessary to meet the performance guideline.

11-1-3 Observation: Carpet is faded or discolored.

Performance Guideline: Fading or discoloration of carpet is a manufacturer's responsibility.

Corrective Measure: The contractor will correct the condition in accordance with the manufacturer's warranty. An exact color match cannot be assured.

Discussion: Fading or discoloration may result from the consumer spilling liquids on the carpet, from exposure to sunlight, or from the consumer's failure to properly maintain the carpet.

11-1-4 Observation: Carpet appears to be different colors.

Performance Guideline: Carpet for a room will be ordered and installed from a single manufacturer's dye lot. Carpet shade variance is the manufacturer's responsibility.

Corrective Measure: The contractor will correct the condition in accordance with the manufacturer's warranty. An exact color match cannot be assured.

Discussion: When viewed under normal lighting conditions, carpet may have the appearance of color variations. These differences may result from the direction of the carpet nap or from fibers being crushed on the roll. Over time, vacuuming will make the appearance more uniform.

11-1-5 Observation: Dead spots or voids are observed in padding areas below the carpet surface.

Performance Guideline: Carpeted areas will not have dead spots or voids.

Corrective Measure: The contractor will repair or replace padding in the affected areas to meet the performance guideline.

Discussion: Since carpet padding comprises a number of materials of various densities and feel, there may be an inconsistent feel even with adequate coverage.

Vinyl Flooring

11-2-1 Observation: Nail pops are observed on the surface of vinyl flooring.

Performance Guideline: Visible nail pops on floor coverings are considered excessive.

Corrective Measure: The contractor will repair the nail pops that are visible.

Discussion: At the contractor's option, the contractor will repair or replace the floor covering in the affected areas with similar materials and in accordance with manufacturer's recommendations. The contractor is not responsible for discontinued patterns or color variations when replacing the floor covering.

11-2-2 Observation: Depressions or ridges are observed in flooring because of subfloor irregularities.

Performance Guideline: Readily apparent depressions or ridges exceeding 1/8 inch will be repaired. The ridge or depression measurement is taken at the end of a 6-inch straightedge centered over the depression or ridge with 3 inches of the straightedge held tightly to the floor on one side of the affected area. Measure under the straightedge to determine the depth of the depression or height of the ridge.

Remodeling Specific Guideline: Existing subflooring may have depressions or ridges that exceed the performance guideline. If new floor covering is installed on existing sub flooring, the contractor and consumer may agree to disregard the performance guideline to match a preexisting structural condition.

Corrective Measure: The contractor will take the necessary corrective action to meet the performance guideline. The contractor will not be responsible for discontinued patterns or color variations when

replacing the floor covering.

11-2-3 Observation: Vinyl flooring has lost adhesion.

Performance Guideline: Floor covering will be securely attached to the substrate or underlayment.

Corrective Measure: If flooring becomes detached due to improper installation by the contractor, the contractor will repair or replace the affected flooring as necessary. The contractor is not responsible for discontinued patterns or color variations when replacing the floor covering.

Discussion: The performance guideline does not apply to perimeter-attached vinyl floors.

11-2-4 Observation: Seams or shrinkage gaps show at vinyl flooring joints.

Performance Guideline: Gaps at joints/seams in vinyl flooring will not exceed 1/32 inch in width. Where dissimilar materials abut, the gaps will not exceed 1/16 inch.

Corrective Measure: The contractor will repair or replace the flooring as necessary to meet the performance guideline. The contractor will not be responsible for discontinued patterns or color variations when replacing the floor covering.

Discussion: Proper repair can be accomplished by sealing the gap with seam sealer.

11-2-5 Observation: Bubbles are observed in vinyl flooring.

Performance Guideline: Bubbles resulting from trapped air and that protrude higher than 1/16-inch from the floor are considered excessive.

Corrective Measure: The contractor will repair the floor to meet the performance guideline in accordance with manufacturer's recommendations.

Discussion: The performance guideline does not apply to perimeter-attached vinyl floors.

11-2-6 Observation: The patterns on vinyl flooring are misaligned.

Performance Guideline: Patterns at seams between adjoining pieces will be aligned to within 1/8 inch.

Remodeling Specific Guideline: Existing subflooring may have irregularities that result in misalignment. If new floor covering is installed on existing subflooring, the contractor and consumer may agree to disregard the performance guideline to match a preexisting structural condition.

Corrective Measure: The contractor will correct the flooring to meet the performance guideline.

11-2-7 Observation: Yellowing is observed on the surface of vinyl floor covering.

Performance Guideline: The contractor will install vinyl flooring in accordance with the manufacturer's instructions.

Corrective Measure: If the yellowing resulted from improper installation by the contractor, the contractor will repair or replace the flooring. Yellowing resulting from a manufacturer's defect or from the consumer's misuse or lack of maintenance is not covered by the contractor.

Discussion: Some chemical compounds, such as the tar residue from a recently paved asphalt driveway, may cause a chemical reaction with the flooring material and result in permanent damage to the floor. The consumer is responsible for the proper use and maintenance of the floor. Yellowing caused by the consumer's improper use of or inadequate maintenance of the floor is not the contractor's or the

manufacturer's responsibility.

11-2-8 Observation: A resilient floor tile is loose.

Performance Guideline: Resilient floor tiles will be securely attached to the substrate.

Corrective Measure: The contractor will attach loose resilient floor tiles securely to the substrate. The old adhesive will be removed if necessary to resecure the tiles.

11-2-9 Observation: The corners or patterns of resilient floor tiles are misaligned.

Performance Guideline: The corners of adjoining resilient floor tiles will be aligned to within 1/8 inch. Misaligned patterns are not covered unless they result from improper orientation of the floor tiles.

Remodeling Specific Guideline: Existing substrate may have irregularities that result in misalignment. If new floor covering is installed on existing subflooring, the contractor and consumer may agree to disregard the performance guideline to match a preexisting structural condition.

Corrective Measure: The contractor will correct resilient floor tiles with misaligned corners to meet the performance guideline.

Hardwood Flooring

11-3-1 Observation: Gaps exist between hardwood floor boards.

Performance Guideline: At the time of substantial completion of the project, gaps between hardwood floor boards will not exceed 1/8 inch in width.

Corrective Measure: The contractor will repair gaps that do not meet the performance guideline.

Discussion: Gaps appearing after installation may be caused by fluctuations in the relative humidity in the house. This is a common seasonal phenomenon in some climates and certain areas of the house that experience significant shifts of humidity. The consumer is responsible for maintaining proper humidity levels in the house.

11-3-2 Observation: Hardwood floor boards are cupping or crowning.

Performance Guideline: Cupping or crowning in hardwood floor boards will not exceed 1/16 inch in height in a 3-inch maximum span measured perpendicular to the long axis of the board. Cupping or crowning appearing after installation may result from fluctuations in the moisture conditions in the house, causing a noticeable curvature in the face of the floor boards. Cupping or crowning caused by exposure to moisture beyond the contractor's control is not the contractor's responsibility.

Corrective Measure: The contractor will correct or repair boards to meet the performance guideline if the cupping or crowning was caused by factors within the contractor's control.

Discussion: The consumer is responsible for proper maintenance of the floor and for maintaining proper humidity levels and moisture conditions in the house, crawl space, or basement.

11-3-3 Observation: Excessive lippage is observed along the joints of prefinished wood flooring products.

Performance Guideline: Lippage greater than 1/16 inch is considered excessive.

Corrective Measure: The contractor will repair lippage in the affected areas to meet the performance guideline if the lippage was caused by elements within the contractor's control.

11-3-4 Observation: A wood floor is out of square.

Performance Guideline: The diagonal of a triangle with sides of 12 feet and 16 feet along the edges of the floor will be no more than 1/2 inch more or less than 20 feet.

Remodeling Specific Guideline: The consumer and the contractor may agree to build a wood floor out of square in order to match or otherwise compensate for preexisting conditions.

Corrective Measure: The contractor will make the necessary modifications in the most practical manner to any floor that does not comply with the performance guideline for squareness. The modification will produce a satisfactory appearance and may be either structural or cosmetic.

Discussion: Squareness is primarily an aesthetic consideration. Regularly repeated geometric patterns in floor and ceiling coverings show a gradually increasing or decreasing pattern along an out-of-square wall. The performance guideline tolerance of plus or minus 1/2 inch in the diagonal allows a maximum increasing or decreasing portion of about 3/8 inch in a 12-foot wall of a 12 x 16 foot room.

11-3-5 Observation: Voids or skips are observed in the floor finish.

Performance Guideline: Voids that are readily visible from a standing position under normal lighting conditions are considered excessive.

Corrective Measure: The contractor will repair the floor finish in the affected area(s) to meet the performance guideline.

11-3-6 Observation: The top coating on hardwood flooring has peeled.

Performance Guideline: Field-applied coating will not peel during normal usage. Prefinished coatings are the manufacturer's responsibility.

Corrective Measure: The contractor will refinish any field-applied finishes that have peeled.

Discussion: The consumer should contact the manufacturer regarding factory-applied finishes that have peeled.

11-3-7 Observation: Hardwood flooring has buckled.

Performance Guideline: Under normal conditions and usage, hardwood flooring should not buckle.

Corrective Measure: The contractor will repair the affected area to meet the performance guideline if buckling was caused by elements within the contractor's control.

Discussion: Wood floors are naturally susceptible to high levels of moisture. Buckling results from water or high levels of moisture coming in contact with the floor. Controlling excess water during cleaning or from other sources is the consumer's responsibility.

11-3-8 Observation: Hardwood flooring has released from the substrate.

Performance Guideline: Under normal conditions and usage, hardwood flooring should not lift from the substrate.

Corrective Measure: To meet the performance guideline, the contractor will repair the affected area if the lifting was caused by factors within the contractor's control.

11-3-9 Observation: Excessive knots and color variations are observed in hardwood flooring.

Performance Guideline: The contractor will install the grade of hardwood specified for the project. All

wood should be consistent with the grade or quality specified.

Corrective Measure: The contractor will replace any improper grade or quality of wood.

Discussion: Hardwood flooring is a natural product and consequently can be expected to exhibit variations in color, grain, and stain acceptance.

11-3-10 Observation: Slivers or splinters are observed in hardwood flooring.

Performance Guideline: Slivers or splinters will not be visible.

Corrective Measure: The contractor will repair flooring in the affected areas to meet the performance guideline.

Discussion: Slivers or splinters that occur during installation of unfinished wood flooring can be shaved and the area filled prior to sanding and finishing. In most cases, slivers or light splintering in prefinished floors can be corrected. Excessive slivers or splintering of prefinished flooring after installation is covered under the manufacturer's warranty.

11-3-11 Observation: Hardwood flooring has visible scratches and dents.

Performance Guideline: At the time of substantial completion of the project, hardwood flooring will not have scratches and dents visible from a standing position.

Corrective Measure: The contractor will repair flooring in the affected areas to meet the performance guideline.

Discussion: The wide varieties of hardwood flooring available to consumers have varying hardness and wear resistance. The contractor is not responsible for the choice of a softer material that may be more susceptible to damage during or after construction. High-heeled shoes, pets, and heavy foot traffic will create scratches and dents in most hardwood floors.

11-3-12 Observation: Sticker burn is observed on the surface of strip flooring.

Performance Guideline: Discoloration from stacking strips on hardwood flooring is considered excessive in certain grades of flooring but is allowable in others.

Corrective Measure: The contractor will repair or replace areas with sticker burn if they are not permitted in the grade of wood specified for the project.

Tile, Brick, Marble, and Stone Flooring

11-4-1 Observation: Tile, brick, marble, or stone flooring is broken or loosened.

Performance Guideline: Tile, brick, marble, or stone flooring will not be broken or loose.

Corrective Measure: The contractor will replace broken tiles, bricks, marble, or stone flooring, and resecure loose tiles, bricks, marble, or stone, unless the flooring was damaged by the consumer's actions or negligence. The contractor is not responsible for discontinued patterns or color variations when replacing tile, brick, marble, or stone flooring.

11-4-2 Observation: Cracks are observed in the tile grout or at the junctures with other materials, such as a bathtub.

Performance Guideline: Cracks in grouting of tile joints commonly result from normal shrinkage conditions. Cracks that result in loose tiles or gaps in excess of 1/16 inch are considered excessive.

Corrective Measure: One time only during the warranty period, the contractor will repair grout to meet the performance guideline. The contractor is not responsible for color variations or discontinued colored grout. The consumer is responsible for regrouting these joints after the contractor's one-time repair.

Discussion: The use of an elastic substance, grout caulk, at junctures between tile and other materials is often more effective than grout and is considered an acceptable method of repair.

11-4-3 Observation: There is lippage of adjoining marble or ceramic tile.

Performance Guideline: Lippage greater than 1/16 inch is considered excessive, except where the materials are designed with an irregular height such as handmade tile or tile larger than 13 x 13 inches.

Remodeling Specific Guideline: Since existing subflooring may be uneven and create lippage that exceeds the performance guideline, the contractor and consumer may agree to disregard the performance guideline to match a preexisting structural condition.

Corrective Measure: The contractor will repair lippage in the affected areas to meet the performance guideline.

11-4-4 Observation: A grout or mortar joint is not a uniform color.

Performance Guideline: After the grout or mortar has cured, any color variation that is readily visible from a standing position facing the surface at a distance of 6 feet under normal lighting conditions is considered excessive.

Corrective Measure: One time only during the warranty period, the contractor will repair the joint to meet the performance guideline.

Discussion: Grout or mortar cannot be expected to match exactly in repaired areas.

Miscellaneous

Fireplace and Wood Stove

12-1-1 Observation: A fireplace or chimney does not consistently draw properly.

Performance Guideline: A properly designed and constructed fireplace and chimney will function correctly. Homes that have been constructed to meet stringent energy criteria may need to have a nearby window opened slightly to create an effective draft.

Corrective Measure: One time only during the warranty period, the contractor will repair the chimney, based on the manufacturer's specifications or the design specifications, to draw correctly.

Discussion: High winds can cause temporary negative drafts or downdrafts. Obstructions such as tree branches, steep hillsides, adjoining homes, and interior furnaces also may cause negative drafts.

12-1-2 Observation: The masonry chimney is separated from the structure.

Performance Guideline: Newly built chimneys will often incur slight amounts of separation. The amount of separation from the main structure will not exceed 1/2 inch in any 10-foot vertical measurement.

Corrective Measure: The contractor will repair gaps that do not meet the performance guideline.

Discussion: Proper repair can be effected by caulking, unless the cause of the separation is a structural failure of the chimney foundation itself. In that case, caulking is not an acceptable repair.

12-1-3 Observation: The firebox paint is cracked or discolored by a fire in the fireplace.

Performance Guideline: Cracking and discoloration are common occurrences.

Corrective Measure: No corrective action is required by the contractor.

Discussion: The consumer should obtain the recommended paint from the manufacturer if he or she chooses to touch up the interior of the firebox for aesthetic reasons.

12-1-4 Observation: A firebrick or mortar joint is cracked.

Performance Guideline: Heat and flames from normal fires can cause cracking.

Corrective Measure: No corrective action is required by the contractor.

12-1-5 Observation: A simulated firebrick panel is cracked.

Performance Guideline: This is a common condition.

Corrective Measure: No corrective action is required by the contractor.

12-1-6 Observation: Rust is observed on the fireplace damper.

Performance Guideline: This is a common condition.

Corrective Measure: No corrective action is required by the contractor.

Concrete Stoops and Steps

12-2-1 Observation: Stoops or steps have settled, heaved, or separated from the house structure.

Performance Guideline: Stoops and steps will not settle, heave, or separate in excess of 1 inch from the house structure.

Corrective Measure: The contractor will make a reasonable and cost-effective effort to meet the performance guideline.

12-2-2 Observation: Water remains on stoops or steps after rain has stopped.

Performance Guideline: Water will drain off outdoor stoops and steps. Minor amounts of water can be expected to remain on stoops and steps for up to 24 hours after rain.

Corrective Measure: The contractor will take corrective action to ensure proper drainage of stoops and steps.

Garage

12-3-1 Observation: The garage floor slab is cracked.

Performance Guideline: Cracks in a concrete garage floor greater than 3/16 inch in width or 3/16 inch in vertical displacement are considered excessive.

Corrective Measure: The contractor will repair cracks in the slab using a material designed to fill cracks in concrete.

Discussion: The repaired area may not match the existing floor in color and texture.

12-3-2 Observation: A garage concrete floor has settled, heaved, or separated.

Performance Guideline: The garage floor will not settle, heave, or separate in excess of 1 inch from the structure.

Corrective Measure: The contractor will make a reasonable and cost-effective effort to meet the performance guideline.

Discussion: The repaired area may not match the existing floor in color and texture.

12-3-3 Observation: Garage doors fail to operate properly under normal use.

Performance Guideline: Garage doors will operate as designed.

Corrective Measure: The contractor will correct or adjust garage doors as required, unless the consumer's actions or negligence caused the problem.

Discussion: The safety sensors can be easily knocked and misaligned so that the doors will not operate properly. The consumer should avoid storing items near the sensors. Direct sunlight can also cause the sensors to indicate that something is blocking the opening and prevent the doors from shutting.

12-3-4 Observation: Garage doors allow the entry of snow or water.

Performance Guideline: Garage doors will be installed as recommended by the manufacturer. Some snow or water can be expected to enter under normal conditions.

Corrective Measure: The contractor will adjust or correct the garage doors to meet the manufacturer's installation instructions.

Driveways, Sidewalks and Patios

12-4-1 Observation: An asphalt driveway has cracked.

Performance Guideline: Longitudinal or transverse cracks greater than 1/16 inch in width or vertical displacement are considered excessive.

Corrective Measure: The contractor will repair the affected area to meet the performance guideline using a material designed to fill cracks in asphalt.

12-4-2 Observation: Standing water is observed on an asphalt pavement surface.

Performance Guideline: Standing water greater than 3/8 inch in depth will not remain on the surface 24 hours after a rain.

Corrective Measure: The contractor will repair the affected area to meet the performance guideline.

Discussion: Patched asphalt surfaces due to repairs may not match existing surface in color or texture.

12-4-3 Observation: The aggregate of asphalt pavement is coming loose.

Performance Guideline: Asphalt pavement aggregate will not come loose.

Corrective Measure: The contractor will repair the affected area to meet the performance guideline, using a material designed to repair asphalt surfaces.

Discussion: Patched asphalt surfaces due to repairs may not match existing surface in color or texture.

12-4-4 Observation: A concrete driveway, patio or sidewalk is cracked.

Performance Guideline: Cracks (outside of control joints) that exceed 1/4 inch in width or 1/4 inch in vertical displacement will be repaired.

Corrective Measure: The contractor will repair affected areas to eliminate cracks that exceed the performance guidelines using a material designed to fill cracks in concrete.

Discussion: Minor concrete cracking is normal and to be expected. Control joints are placed in the concrete to help control cracks and provide a less visible area for them to occur. Cracking can be caused by elements outside of the contractor's control. The repaired area may not match the existing area in color and texture.

12-4-5 Observation: Adjoining exterior concrete flatwork sections deviate in height from one section to another.

Performance Guideline: Adjoining concrete sections will not deviate in height by more than 1/2 inch unless the deviation is intentional at specific locations such as at garage door openings.

Corrective Measure: The contractor will repair deviations to meet the performance guideline.

Discussion: Some areas of the country experience lift or settlement at the junction of the garage floor and the driveway, which occurs because of seasonal fluctuations in moisture and temperature. Repairs will only be made after the effects of the current seasonal fluctuations have subsided and the true determination of repair can be made. The repaired area may not match the existing area in color and texture.

12-4-6 Observation: A sidewalk and other exterior concrete flatwork has settled.

Performance Guideline: Adjoining concrete sections will not deviate in height by more than 1/2 inch.

Corrective Measure: The contractor will repair deviations to meet the performance guideline.

Discussion: Some areas of the country experience lift or settlement at the junction which occurs due to seasonal fluctuations in moisture and temperature. Repairs will only be made after the effects of the current seasonal fluctuations have subsided and a true determination of repair can be made. The repaired area may not match the existing area in color and texture.

12-4-7 Observation: Water collects or ponds on the sidewalk or patio.

Performance Guideline: Standing water that is 3/8 inch deep on a sidewalk 24 hours after the end of a rain is considered excessive.

Corrective Measure: The contractor will repair or replace the affected area to meet the performance guideline.

Discussion: The repaired area may not match the existing area in color and texture.

Wood and Composite Decks

12-5-1 Observation: A wood deck is springy or shaky.

Performance Guideline: All structural members in a wood deck will be sized, and fasteners spaced, according to the prevailing building codes and manufacturer's instructions.

Corrective Measure: The contractor will reinforce or modify, as necessary, any wood deck not meeting the performance guideline.

Discussion: Deflection may indicate insufficient stiffness in the lumber, or may reflect an aesthetic

consideration independent of the strength and safety requirements of the lumber. Structural members are required to meet standards for both stiffness and strength. When a consumer's preference is made known before construction, the contractor and the consumer may agree upon a higher standard.

12-5-2 Observation: The spaces between decking boards are not uniform.

Performance Guideline: At the time of substantial completion of the project, the spaces on opposite sides of individual deck boards will not differ in average width by more than 3/16 inch unless otherwise agreed upon by the consumer and the contractor.

Corrective Measure: The contractor will realign or replace decking boards to meet the performance guideline.

Discussion: The spaces will naturally tend to change over time because of shrinkage and expansion of individual boards. The contractor is only responsible for correct spacing at the time of substantial completion of the project.

12-5-3 Observation: The railings on wood decking contain slivers in exposed areas.

Performance Guideline: Railings on wood decks will not contain slivers longer than 1/8 inch in exposed areas.

Corrective Measure: One time only during the warranty period, the contractor will repair railings as necessary to remove slivers prior to substantial completion of the project. Repair of slivers after that time is a consumer maintenance responsibility.

Discussion: Slivers can develop when unprotected wood weathers.

12-5-4 Observation: A wood deck is out of level.

Performance Guideline: No point on the deck surface will be more than 1/2 inch higher or lower than any other deck surface point within 10 feet on a line parallel to the home, or in proportional multiples of the preceding dimensions (unless a slope is incorporated in the design).

Remodeling Specific Guideline: The consumer and contractor may agree to intentionally build a wood deck out of level in order to match or compensate for inaccuracies in the existing structure.

Corrective Measure: The contractor will repair the deck as necessary to meet the performance guideline.

Discussion: A slope of approximately 1/8 inch per foot is desirable in the perpendicular direction to shed water and prevent ice buildup.

12-5-5 Observation: Wood decking boards, railings and/or pickets are split, warped, or cupped.

Performance Guideline: At the time of substantial completion of the project, splits, warps, and cups in wood decking boards, railings and/or pickets will not exceed the allowances established by the official grading rules issued by the agency responsible for the lumber species specified for the deck boards.

Corrective Measure: The contractor will replace decking boards, railings and/or pickets as necessary to meet the performance guideline.

12-5-6 Observation: A wood deck has applied stain color variations.

Performance Guideline: Stain color variations are not acceptable if they result from improper stain application or failure to mix the stain properly. Stain color variations resulting from other causes-such as weathering or natural variations in the wood used to build the deck-are common and are not covered by

this guideline.

Corrective Measure: If the contractor stained the deck, the contractor will re-stain the affected area to meet the performance guideline.

12-5-7 Observation: A fastener protrudes from a decking board.

Performance Guideline: Fasteners will not protrude from the floor of the deck.

Corrective Measure: One time only during the warranty period, the contractor will reinstall fasteners that protrude from the floor of the deck so that the heads are flush with the surface.

Discussion: Fasteners should be driven or screwed flush when the deck is installed, but they may pop from a wood deck over time as the wood shrinks and expands.

12-5-8 Observation: Fasteners on a wood deck are bleeding.

Performance Guideline: Stains extending more than 1/2 inch from the fastener and readily visible from a distance of 10 feet are not acceptable.

Corrective Measure: The contractor will eliminate fastener stains to meet the performance guideline.

Discussion: The repaired area may not match the existing deck area in color and texture. This guideline does not apply if natural weathering or semitransparent stains are specified.

12-5-9 Observation: A deck railing lacks rigidity.

Performance Guideline: Deck railings will be attached to structural members in accordance with the prevailing building codes.

Corrective Measure: The contractor will repair deck railings as necessary to meet the performance guideline.

Landscaping

Note: Remodeling Specific Guideline: Moving or protecting plants, trees, shrubs, and any other landscaping items prior to and during construction are the responsibility of the consumer and must be dealt with before construction begins. Other handling of these items must be specified in the contract to designate the responsible party.

13-1-1 Observation: Tree stumps are left in a disturbed area of the property.

Performance Guideline: The contractor is responsible for removing stumps from trees that were on the property in the disturbed area prior to the substantial completion of the project, unless stumps are located within the septic drain field areas or stumps were present prior to the contractor beginning construction.

Corrective Measure: The contractor will remove the stumps from the disturbed area.

13-1-2 Observation: Sod, shrubs, plants, or trees that were planted as part of the contract are dead.

Performance Guideline: At the time of substantial completion of the project, any shrub, plant, tree, or sod planted by the contractor as part of the contract will be alive.

Corrective Measure: Any shrub, plant, tree, or sod planted by the contractor as part of the contract will be replaced to meet the performance guideline.

Discussion: After installation, proper lawn and landscape care are the consumer's responsibility. New

landscaping requires frequent watering until roots of plantings have become established. Watering is the consumer's responsibility.

13-1-3 Observation: Grass seed does not germinate.

Performance Guideline: Germination is dependent on certain climatic conditions, which are beyond the contractor's control.

Corrective Measure: The contractor is only responsible for seeding per the manufacturer's instructions. No corrective action is required by the contractor.

Discussion: After installation, proper lawn and landscape care are the consumer's responsibility. New landscaping requires frequent watering until roots of plantings have become established. Watering is the consumer's responsibility.

13-1-4 Observation: Existing outdoor plants moved during work are dead.

Performance Guideline: Plants that must be moved during the work will be moved, transplanted, and maintained by the consumer.

Corrective Measure: No corrective action is required by the contractor.

Discussion: The contractor will not be responsible for delays in the schedule when plants are moved by the consumer. It is the consumer's responsibility to provide a water source to any plants they wish to survive construction.

13-1-5 Observation: Existing trees located on property prior to construction are dead.

Performance Guideline: Even with best efforts, trees in the area of construction activity may not survive due to damage to underground root systems or changes in environmental conditions.

Corrective Measure: No corrective action is required by the contractor. It is the consumer's responsibility to provide a water source to any tree they wish to survive construction.

SECTION F. DEFINITIONS For the purpose of this Warranty, the following terms shall have the meanings set forth herein:

1. **Builder:** The Builder identified on Page 1 of this Warranty.
2. **Cooling, Ventilating, and Heating Systems (HVAC):** This term refers to all components of the cooling, ventilating and heating systems, including, without limitation, furnace, condenser, compressor, heat exchanger, air exchanger, geothermal systems, ductwork, refrigerant lines, steam and water pipes, registers, convectors, thermostats and dampers.
3. **Commencement Date:** The date specified on Line 5 of Page 1 of this Warranty
4. **Electrical Systems:** This term includes all wiring, electrical boxes, and connections, up to the public utility connections.
5. **Emergency Warranty Service:** Emergency Warranty Service is limited to the following:
 - a. Total loss of heat when the outside temperature is below 45 degrees;
 - b. Total loss of electricity. (Check with the utility company prior to reporting this circumstance to

the Builder.);

- c. Plumbing leak that requires the entire water supply to be shut off;
- d. Total loss of water. (Check with your water company to be certain the problem is not a general outage in the area.);
- e. Gas leak. (Contact your utility company or plumber if leak is at the furnace or water heater supply lines.)

An item only qualifies as Emergency Warranty Service if the problem is caused by the work performed by the Builder and/or Builder's subcontractor.

6. Fixtures, Appliances and Items of Equipment: This term includes water heaters, pumps, refrigerators, compactors, garbage disposals, stove and ranges, dishwashers, washers and dryers, bathtubs, sinks, commodes, faucets and valves, lights and fixtures, switches, outlets, circuit breakers, thermostats, furnaces, humidifiers, ventilation fans, air conditioning material, in-house sprinkler systems, generators and similar items.

7. Major Structural Defects: All of the following conditions must be established to constitute a Major Structural Defect ("MSD"):

- a. Actual physical damage to a load bearing component of the Residence; and
- b. that causes failure of a specified major structural component ("Major Structural Component")

Major structural components of the Residence deemed to have MSD potential include the following:

- a. roof framing members (rafters and trusses);
- b. floor framing members (joists and trusses);
- c. bearing walls;
- d. bearing columns;
- e. lintels (other than lintels supporting veneers);
- f. girders;
- g. load-bearing beams; and
- h. foundation systems and footings

Major structural components of the Residence that are not considered MSD include the following:

- a. non-load-bearing partitions and walls;
- b. wall tile or paper, etc.;
- c. plaster, laths, or dry wall;

- d. flooring and sub flooring material;
- e. brick, stucco, stone, veneer, or any type of exterior siding;
- f. roof shingles, sheathing and tar paper;
- g. Cooling, Ventilating, and Heating Systems, Plumbing Systems, Electrical Systems, and mechanical systems;
- h. Fixtures, Appliances, or Items of Equipment; and
- i. door, trim, cabinets, hardware, insulation, paint and stains.

8. Plumbing Systems: This term includes all pipes (supply and waste) and their fittings, as well as gas supply lines and vent pipes located within the Residence.

9. Purchaser: The Purchaser shall include only the first Purchaser of the Residence identified on Page 1 of this Warranty.

10. Residence: The single family dwelling purchased by Purchaser from Builder in connection with this Warranty, more particularly identified on Page 1 of this Warranty.

11. Warranty Standards: Those standards specifically provided in Section E of this Warranty.