

HOME BUILDERS ASSOCIATION OF GREATER TULSA
NEW HOME LIMITED WARRANTY AGREEMENT
(ONE YEAR)

1. Name of Purchaser: _____

2. Name of Builder: SHAW HOMES, INC. AND ASSIGNS

3. Legal Description of Property: _____

4. Street Address of Property: _____

5. Commencement Date of Warranty: _____

BY SIGNING BELOW, PURCHASERS UNDERSTAND AND AGREE THAT THIS WARRANTY IS AN EXPRESS LIMITED WARRANTY IN WHICH BUILDER'S LIABILITY IS EXPRESSLY LIMITED. BY SIGNING BELOW, PURCHASERS ACKNOWLEDGE THAT THEY HAVE RECEIVED, READ AND UNDERSTOOD THE ENTIRE NEW HOME LIMITED WARRANTY AGREEMENT WHETHER THIS SIGNATURE PAGE IS ATTACHED TO SUCH TERMS OR HAS BEEN DETACHED FROM SUCH TERMS.

DATED this _____ day of _____, 20____.

By: _____

Name: Glenn Shaw

Title: President

"Builder"

"Purchaser"

INTRODUCTION

The Residence (as defined below) has been constructed in accordance with accepted home building practices and thoroughly inspected by the Builder.

Section A of this Warranty describes the protection which 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

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 THE PURCHASER'S 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 defective item, 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 defective item, 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 defective item 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.

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 manufacturers' warranty, if any, if defects are found in any consumer products.

2. DISCLAIMER OF OTHER WARRANTIES BUILDER 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 COVERAGE Except 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, offsite 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. If the claim qualifies for Emergency Warranty Service as defined in Section F, Purchaser may call the Builder directly during normal business hours or the subcontractor responsible for such area (if known) directly after normal business hours.

2. 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.

3. 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 no later than seven (7) days following the expiration of the one year Warranty period.

4. 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.

5. 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.

6. 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.

7. 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(7) 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(7), then either party may proceed with an action against the other in arbitration as provided in Section D(3)(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 executed 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 runoff 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.
- 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

Better Business Bureau of Tulsa. 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:

SITE WORK

1-0-1 Observation: The ground has settled around the foundation, over utility trenches, or in other areas.

Performance Guideline: Settling of ground around foundation walls, over utility trenches, or in other filled areas shall not interfere with water drainage away from the home.

Corrective Measure: If the contractor provided final grading, the contractor will, one time only, fill areas that settle more than 6 inches or that affect proper drainage.

1-0-2 Observation: The site does not drain properly.

Performance Guideline: To ensure proper drainage in the immediate area around the home, the contractor shall establish the necessary grades and swales if the work is included in the contract. Standing water or ponds of water shall not remain for extended periods in the immediate area of the house 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 shall be made while frost or snow is on the ground or while the ground is saturated.

Corrective Measure: If grading is part of the construction or purchase agreement, 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 site. It is the consumer's responsibility to maintain such grass and other landscaping to help ensure proper functioning of the site drainage system. The consumer is responsible for maintaining such grades and swales once the contractor has properly established them.

1-0-3 Observation: The site has soil erosion.

Performance Guideline: The contractor is not responsible for soil erosion due to acts of God, or other conditions beyond the contractor's control.

Corrective Measure: No action is required. The contractor is not responsible for erosion due to acts of God, exceptional weather conditions, site alterations by the consumer, lack of maintenance by the consumer, or other conditions beyond the contractor's control.

1-0-4 Observation: Water from a nearby or adjacent property flows onto the consumer's lot.

Performance Guideline: The contractor is responsible for providing a reasonable means of draining off the lot water that is created (rain, melting snow or ice) on the lot, but is not responsible for water flowing from a nearby or adjacent property or on which no dwelling has been erected other than providing proper slopes around the newly erected dwelling.

Corrective Measure: It is the contractor's responsibility to control water only in the immediate area of the new dwelling.

1-0-5 Observation: Existing trees, shrubs, or other vegetation may be damaged in the course of construction.

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

Corrective Measure: No contractor action is needed.

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 shall be no more than 1 inch more or less than 20 feet.

Corrective Measure: The contractor will make necessary modifications to the foundation not complying with the performance guidelines 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 most appropriate. There are many instances in which the squareness of a foundation is not of consequence because subsequent construction provides an opportunity to make corrections.

2-1-2 Observation: 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 shall be more than 1/2 inch higher or lower than any point within 20 feet.

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 effected 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.

Levelness is both an aesthetic and functional consideration. Out-of-level floors can cause "stair stepping" of 4x8-foot sheathing, siding, paneling, and cabinets, and square walls must be "racked" into parallelograms when plumbing is installed.

2-1-3 Observation: 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 shall repair any cracks in excess of the performance guideline.

Discussion: Repairs can be made by using a material designed to fill cracks in concrete.

Interior Concrete Slab

2-2-1 Observation: 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 normal, no corrective action is required.

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

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

Performance Guideline: This is a typical condition caused by moisture reacting with the soluble salts in concrete and forming harmless carbonate compounds.

Corrective Measure: Because efflorescence is a typical chemical reaction within concrete, no corrective measures are required of the contractor.

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.

2-2-3 Observation: 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 shall 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.

2-2-4 Observation: 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 shall 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.

Discussion: Repairs can be made by using a material designed to fill cracks in concrete.

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

Performance Guideline: Interior concrete surfaces shall not pit or spall.

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

2-2-6 Observation: The interior concrete slab has a loose, sandy surface. This is called "dusting."

Performance Guideline: The surface shall not be so sandy as to cause a problem for the finish flooring to be applied.

Corrective Measure: The surface shall be corrected so as to be suitable for the finish flooring that the contractor had reason to anticipate would be applied.

Basement and Crawl Space Concrete Block Walls

2-3-1 Observation: A concrete block basement or crawl space wall is cracked.

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

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

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 stepped-in masonry joints. Repairs can be made by using a material designed to fill cracks in concrete.

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

Performance Guideline: Block concrete walls shall not be out of plumb or bowed greater than 1 inch in 8 feet.
Corrective Measure: The contractor shall repair any deficiencies in excess of the performance guideline. If the wall is to remain unfinished per contract, and the wall meets building codes as evidenced by passed inspections, then no corrective action is required.

Basement and Crawl Space Poured Walls

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

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

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

2-4-2 Observation: 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 holes that do not meet the performance guideline.

Discussion: Pits, surface voids, and similar imperfections are sometimes called "bug holes." More technically, they are called "air surface voids" and are caused by air entrapped at the concrete and concrete form interface. The technical term for larger voids is "honeycomb" and must be dealt with in accordance with this guideline. One method of repair is to fill the hole or void with a suitable product. The repaired area is unlikely to match the color or texture of the surrounding concrete.

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

Performance Guideline: Concrete walls shall 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 shall repair any deficiencies in excess of the performance guideline. If the wall is to remain unfinished per contract, and the wall meets building codes as evidenced by passed inspections, then no corrective action is required.

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

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

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

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.

2-4-5 Observation: 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 that exceeds 1/4-inch in width.

Moisture and Leaks

Basement Floor and Walls

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

Performance Guideline: Dampness caused by condensation of water vapor on cool walls and floors is not the responsibility of the contractor.

Corrective Measure: Dampness due to condensation is caused by high moisture content in the air. It is the consumer's responsibility to control the humidity.

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

2-5-2 Observation: The basement leaks.

Performance Guideline: Leaks resulting in actual trickling of water shall be repaired. Leaks caused by landscaping improperly installed by the consumer, or by the consumer's failure to maintain proper grades, are not the contractor's responsibility. New-construction walls and floors may become damp as concrete, mortar, and other materials dry: Dampness alone is not considered a deficiency:

Corrective Measure: The contractor will take such action as is necessary to correct basement leaks, except where the cause is determined to result from the consumer's actions or negligence.

Crawl Spaces

2-5-3 Observation: Water accumulates in the interior crawl space.

Performance Guideline: Crawl spaces should be graded and proper exterior foundation drains be provided to prevent water from accumulating deeper than 3/4-inch and greater than 9 square feet in the crawl space area.

Corrective Measure: The contractor will take corrective measures to meet the performance guideline. The contractor is not responsible if the exterior grading was provided by the consumer or the consumer failed to maintain grades established by the contractor.

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

Performance Guideline: The contractor shall install the ventilation required by the prevailing building code.

Corrective Measure: If the crawl space is ventilated as required by applicable building codes, then the contractor need make no further corrective actions. 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 house 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 house may reach the dew point within or on the colder bottom surface of vapor-permeable floor insulation. Condensation can be reduced by placing a vapor barrier between the insulation and the floor sheathing. If condensation must be reduced substantially; the consumer can do so by sealing and dehumidifying or heating the crawl space, or by heating and dehumidifying the house.

Columns

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

Performance Guideline: Exposed wood columns shall not bow or be out of plumb more than 3/4-inch in 8 feet.

Corrective Measure: Exposed wood columns out of plumb in excess of 3/4-inch in 8 feet when measured vertically shall be replaced or repaired.

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.

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

Performance Guideline: Exposed concrete columns shall 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 shall repair any deficiencies in excess of the performance guideline.

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

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

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

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

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

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

WOOD FLOOR FRAMING

Floor System

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

Performance Guideline: All beams, joists, headers, and other structural members shall be sized according to the manufacturers' specifications or local 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. When a consumer's preference is made known before construction, the contractor and the consumer may agree upon a higher standard.

Beams, Columns, and Posts

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

Performance Guideline: Sawn wood columns or posts shall meet the grading standard for the species used. Splits that exceed 3/8-inch in width and more than 4 inches in length at time of installation or that develop during the warranty period are considered excessive.

Corrective Measure: The contractor will repair or replace any beam or post that does not meet the guideline. Filling splits is acceptable to have structural members meet the guideline.

Discussion: Columns and posts will sometimes split as they dry after installation. Splitting is acceptable and is not a structural concern if columns or posts have been sized according to manufacturers' specifications or local building codes. Splitting is primarily an aesthetic rather than a structural concern.

3-2-2 Observation: An exposed wood beam is split.

Performance Guideline: Sawn wood beams shall meet the grading standard for the species used. Splits that exceed 3/8-inch in width and 4 inches in length at time of installation or that develop during the warranty period are considered excessive.

Corrective Measure: The contractor will repair or replace any sawn wood beam that does not meet the guideline. Filling splits is acceptable to have structural members meet the guideline.

Discussion: Beams 3 1/2 inches or greater in thickness (which normally are not kiln dried) will sometimes split as they dry after installation. Splitting is acceptable and is not a structural concern if the sawn lumber beams have been sized according to manufacturers' specifications or local building codes. Splitting is primarily an aesthetic rather than a structural concern.

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

Performance Guideline: Exposed wood posts and beams shall meet the grading standard for the species used. Posts and beams with bows and twists exceeding 3/4-inch in an 8-foot section shall 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 guideline.

Discussion: Beams and posts, especially those 3 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 local building codes.

3-2-4 Observation: An exposed wood beam or post is cupped.

Performance Guideline: Cups exceeding 1/4-inch in 5 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 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 1/2 inches or greater in thickness (which normally are not kiln dried), will sometimes cup as they dry after milling or installation.

Plywood and Joists

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

Performance Guideline: Squeaks caused by a loose subfloor are unacceptable, but totally squeak-proof floors cannot be guaranteed.

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, plywood, or boards move slightly when someone walks over them. Boards and plywood may become loose due to shrinkage of the floor structure or sub floor 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. Because of the nature of wood and construction methods, it is practically impossible to eliminate all squeaks during all seasons. Clearly, some squeaks are more objectionable than others.

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

Performance Guideline: Subfloors shall 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 code-approved material used. This guideline does not cover transition points between different materials.

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

3-3-3 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 shall be no more than 1/2-inch more nor less than 20 feet.

Corrective Measure: The contractor will make the necessary modifications to any floor not complying with the performance guideline for squareness. The modification will produce a satisfactory appearance and may be either structural or cosmetic. The corrective measure permits the contractor to make the modification in the most practical manner as long as "a satisfactory appearance" results.

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 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 12x16-foot room.

3-3-4 Observation: A wood floor 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.

Corrective Measure: The contractor will make a reasonable and cost-effective effort to modify the floor that does not 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.

3-3-5 Observation: Deflection 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 shall be sized and installed as provided in the manufacturers' instructions and code requirements.

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

Discussion: Deflection may indicate an aesthetic consideration independent of the strength and safety

requirements of the product. When a consumer's preference is made known before construction, a higher standard may be agreed upon in writing by the contractor and the consumer.

WALLS

Wall Framing

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

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

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

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

Performance Guideline: Walls shall 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.

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.

4-1-3 Observation: 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 shall be caulked to prevent the entry of water.

Corrective Measure: The contractor will repair or caulk joints and cracks in exterior wall surfaces as required to correct deficiencies.

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

Wall Insulation

4-2-1 Observation: Wall insulation is insufficient.

Performance Guideline: The contractor shall install insulation according to R-values designated in the contract documents or local code, as applicable. Insulation shall be installed according to locally accepted practices.

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

Windows

4-3-1 Observation: A window is difficult to open or close.

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

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

4-3-2 Observation: Window glass is broken and/or a screen is missing or damaged.

Performance Guideline: Glass should not be broken and screens should not be damaged at the time of substantial completion of the project. Screens required by the contract shall be installed.

Corrective Measure: Broken glass and/or missing or damaged screens reported to the contractor before closing will be installed or replaced. Broken glass and/or screens not reported prior to substantial completion of the project are the consumer's responsibility.

4-3-3 Observation: Mirror or glass surfaces are scratched.

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

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

4-3-4 Observation: During rains, water is observed on the interior corner of a glazed window unit.
Performance Guideline: Water leakage from improper installation is considered excessive. Leakage due to the manufacturer's design specifications is acceptable.
Corrective Measure: The contractor shall repair any deficiencies attributable to improper installation.
Discussion: Leakage at the glazing interface is covered under the manufacturer's warranty.

4-3-5 Observation: Window grids (muntins) fall or become out of level.
Performance Guideline: Window grids shall not disconnect, fall, or become out of level.
Corrective Measure: Window grids will be repaired or replaced at the contractor's discretion.

4-3-6 Observation: A mirror backing is deteriorating.
Performance Guideline: While looking at the mirror, there should be no noticeable imperfections in the mirror as a result of damage to the mirror backing at the time of substantial completion of the project.
Corrective Measure: The contractor will replace or repair the mirror.

Exterior Doors

4-4-1 Observation: An exterior door is warped.
Performance Guideline: Exterior doors shall 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.

4-4-2 Observation: 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 correction is required.
Discussion: Wood products expand and contract with changes in temperature and humidity. Wooden inserts are often loosely fitted into the rails to allow the inserts to move; this minimizes splitting of the panel or other damage to the door. The consumer is responsible for controlling temperature and humidity in the home to minimize these occurrences.

4-4-3 Observation: A wooden door panel is split.
Performance Guideline: A split in a panel shall not allow light to be visible through the door.
Corrective Measure: The contractor will repair, paint, or stain the split panel that does not meet the performance guideline. Caulking and fillers are acceptable. The repainted area may not match the remainder of the door or other doors on the house.
Discussion: Wooden inserts are loosely fitted into the door to allow the inserts to move; this 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.

4-4-4 Observation: An exterior door sticks.
Performance Guideline: Exterior doors shall 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.
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 is not within the contractor's scope of work.

4-4-5 Observation: An exterior door will not shut completely.

Performance Guideline: Exterior doors shall shut completely.

Corrective Measure: The contractor will adjust or replace the door to meet the performance guideline.

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 is not within the contractor's scope of work.

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

Performance Guideline: The plastic moldings behind storm doors should not melt if the storm panel is removed and reinstalled by the consumer as a part of normal seasonal maintenance operations (i.e., removed in the spring and reinstalled in the fall).

Corrective Measure: No corrective action is required.

Discussion: Plastic moldings may melt or deform if the exterior door is covered by a storm door panel 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 storm panel and the door. The consumer is also cautioned to follow the manufacturer's recommendations on painting the moldings with a dark color, with or without the use of a storm panel. Dark colors should be avoided.

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

Performance Guideline: Glazing or caulking behind storm doors should not crack or peel if the storm panel is removed and installed by consumer as part of seasonal maintenance operations (i.e., removed in the spring and reinstalled in the fall).

Corrective Measure: No corrective measure is required.

Discussion: High temperatures may cause glazing and caulking to harden and/or fail prematurely if the door is covered by a storm panel 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 door and the storm panel. The consumer is reminded that dark colors tend to accumulate heat and are more likely to cause problems.

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

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

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

4-4-9 Observation: Gaps are visible around an exterior door edge, doorjamb, and/or threshold.

Performance Guideline: Gaps between adjacent components shall not vary by more than 3/16-inch.

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.

4-4-10 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: The consumer should contact the manufacturer.

4-4-11 Observation: A sliding patio door or screen will not stay on track.

Performance Guideline: Sliding patio doors and screens shall 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: The contractor shall repair the door or screen one time only.

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

4-4-12 Observation: A sliding patio door does not roll smoothly.

Performance Guideline: Sliding patio doors shall 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: The contractor shall repair the door one time only.

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

4-4-13 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: The contractor will adjust, repair, or replace knobs that are not damaged by abuse.

Exterior Finish

Wood and Hardboard Siding

4-5-1 Observation: Siding is bowed.

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

Corrective Measure: The contractor will replace any wood lap 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.

4-5-2 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. This guideline does not apply to adjacent pieces or panels that have shiplap or similar joints.

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

Discussion: Proper repair can be effected 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 caulking as closely as practical, but an exact match cannot be ensured.

4-5-3 Observation: Lap siding is not parallel with the course above or below.

Performance Guideline: A piece of lap siding may not be more than 1/2-inch off parallel with contiguous courses in any 20-foot measurement, unless the consumer and the contractor have previously agreed to disregard the performance guideline to match a pre-existing condition.

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.

Discussion: For remodeling projects, if the contractor and the 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.

4-5-4 Observation: Face nails are driven below the surface of the hardboard siding.

Performance Guideline: Siding nails should not be driven below the surface of hardboard siding such that visible fiber of the siding is exposed.

Corrective Measure: The contractor shall repair as necessary to meet performance guideline. The following repairs are appropriate in most instances: If visible fiber of hardboard siding is exposed, paint surface to coat fiber. If nail is 1/16 to 1/8-inch below the surface, fill or caulk and touch-up paint. If nail is more than 1/8-inch below the surface, fill or caulk and add an additional nail flush to the surface.

4-5-5 Observation: Siding boards have buckled.

Performance Guideline: Boards that project more than 3/16-inch from the face of adjacent boards are considered excessive.

Corrective Measure: The contractor will repair or replace any boards that don't meet the performance guideline.

Discussion: Buckling is caused by wood expanding as a result of increased temperature and/or relative humidity. It can be minimized by leaving space between the tongues and grooves to allow room for expansion and by storing the product outside for a few days to allow it to adjust to the ambient conditions prior to installation.

4-5-6 Observation: Cedar 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 shakes or shingles is considered excessive. This performance guideline does not apply if "natural weathering" or semi-transparent stain is specified for the project.

Corrective Measure: One time only, the contractor will clean and treat shakes to provide a reasonable appearance and prevent further bleeding.

4-5-7 Observation: Siding has delaminated.

Performance Guideline: Siding shall not delaminate.

Corrective Measure: The contractor will replace delaminated siding that is not covered under the manufacturer's warranty, unless the delamination was caused by the consumer's actions or negligence. The repaired area may not precisely match the original siding.

4-5-8 Observation: Joints between siding have separated.

Performance Guideline: Joint separations exceeding 3/16-inch are considered excessive.

Corrective Measure: The contractor will caulk or repair siding as necessary to fill the joint. The repaired area may not match the original siding precisely.

Discussion: Plywood siding, like all wood products, will expand and contract with changes in temperature and/or humidity.

4-5-9 Observation: Siding is bowed.

Performance Guideline: Some waviness in siding is to be expected because of bows in studs. Bows exceeding 1/2-inch in 32 inches are considered excessive.

Corrective Measure: The contractor will repair or replace the siding to meet the guideline.

Discussion: Additional nails or screws may be installed to remove the bow.

Aluminum or Vinyl Lap Siding

4-5-10 Observation: Aluminum or vinyl siding is bowed or wavy.

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

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

Discussion: This problem can be caused by the siding being nailed too tightly to the house instead of loosely "hung" near the center of the nail slots, or by not allowing adequate room for the siding to expand. Siding fasteners should be installed in the center of the nail slot with a 1/32-inch spacing (thickness of a dime) between the siding and the fastener to allow for expansion and contraction.

4-5-11 Observation: Nail stains are visible on siding or ceiling boards.

Performance Guideline: Stains exceeding 1/2-inch from the nail and readily visible from a distance in excess of 20 feet are considered excessive.

Corrective Measure: The contractor can choose to 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.

4-5-12 Observation: Siding is faded.

Performance Guideline: Any color siding, when exposed to the ultra-violet 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 of the contractor. The consumer should contact the siding manufacturer.

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.

4-5-13 Observation: Aluminum or vinyl lap siding trim is loose.

Performance Guideline: Trim shall not separate from the house 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 it could impact the product's contraction and expansion characteristics.

4-5-14 Observation: Aluminum or vinyl lap siding courses are not parallel with eaves or wall openings.

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

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

Discussion: For remodeling projects, if the contractor and the owner agree that the floor of an addition is to be on a different plane from the existing floor (for example, a pre-existing out-of-level condition), the siding on the addition may not be parallel and in line with existing siding. Incorrect or inconsistent siding fastening can contribute to unparallel issues.

4-5-15 Observation: Nail heads show in aluminum or vinyl lap siding.

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

Corrective Measure: The contractor will install trim as necessary to cover the nails. Contractor 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 never need to be face nailed when proper accessory products are used. For example, under a window application the trim (J-channel) can be utilized in conjunction with utility trim and snap-punching the top of the modified vinyl siding. If face nailing is the only option, a 1/8-inch diameter hole should be pre-drilled to allow for expansion and contraction.

4-5-16 Observation: An aluminum or vinyl lap siding trim accessory is loose from caulking at windows or other wall openings.

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

Corrective Measure: The contractor will repair or recaulk as necessary to eliminate the separation.

4-5-17 Observation: Aluminum or vinyl lap siding is cut crookedly.

Performance Guideline: Gaps shall comply with the manufacturer's guidelines unless the existing building is out of square or plumb. Cut edges of vinyl siding should always be covered by trim or receiving channels and should not be visible. Cuts should be made so that when properly installed in trim, edges are not visible.

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 shall be replaced.

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

4-5-18 Observation: Aluminum or vinyl lap 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.

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

Cement Board Siding

4-5-19 Observation: Cement board siding is cracked or chipped.

Performance Guideline: 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.

4-5-20 Observation: Cement board siding is improperly fastened.

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

Corrective Measure: Overdriven nail heads or nails driven at an angle shall be filled with cementitious patching compound to match the existing area as closely as possible.

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

Masonry and Veneer

4-5-21 Observation: A masonry or veneer wall 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. The contractor will not be responsible for color variation between the original and new mortar.

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

4-5-22 Observation: Cut bricks below openings in masonry walls are of different thickness.

Performance Guideline: Cut bricks used in the course directly below an opening shall 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.

4-5-23 Observation: A masonry or brick veneer course is not straight.

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

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.

4-5-24 Observation: 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: The contractor will repair or replace newly manufactured bricks that have spalled. An exact match of brick and mortar cannot be assured.

4-5-25 Observation: Mortar stains are observed on exterior brick or stone.

Performance Guideline: Exterior brick and stone shall 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.

4-5-26 Observation: 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 actions are required of 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 as may be found in basements.

Stucco and Parge

4-5-27 Observation: An exterior stucco wall surface is cracked.

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

Corrective Measure: One time only, 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: "Stucco" includes cementitious coatings and similar synthetically based finishes.

4-5-28 Observation: The colors of exterior stucco walls do not match.

Performance Guideline: The colors of new exterior stucco walls may not perfectly match the colors of old exterior stucco walls, nor is it expected that exact matches will be attained for the same material that is applied on different days or under differing environmental conditions (e.g., temperature, humidity, etc.).

Corrective Measure: No corrective measure is required. Because of the unique nature of stucco finishes, exact match of color may not be possible.

Discussion: Coloring of stucco is affected by a number of variables. It is impractical to achieve a color match between stucco coatings applied at different times.

4-5-29 Observation: The textures of exterior stucco wall finishes do not match.

Performance Guideline: The texture of new exterior stucco walls may not perfectly match the textures of old exterior stucco walls.

Corrective Measure: No corrective measure is required. Because of the unique nature of stucco finishes, exact match of texture finish may not be possible.

Discussion: "Stucco" includes cementitious coatings and similar synthetically based finishes. Approved samples prior to installation can minimize misunderstandings about color and texture.

4-5-30 Observation: Coating has separated from the base on an exterior stucco wall.

Performance Guideline: The coating shall 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: Coloring of stucco is affected by a number of variables. It is impractical to achieve a color match between stucco coatings applied at different times.

4-5-31 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 colors may not match.

4-5-32 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 may repair or replace affected subsurface components, or seal the rusted areas and recolor the wall.

4-5-33 Observation: There is water damage to interior walls 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 are not the contractor's responsibility.

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

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

Exterior Trim

4-6-1 Observation: Gaps show in exterior trim.

Performance Guideline: Joints between exterior trim elements, including siding and masonry, shall not result in joints opened wider than 1/4-inch. In all cases, the exterior trim shall perform its function of excluding the

elements.

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

4-6-2 Observation: Exterior trim board is split.

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

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

4-6-3 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.

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

Performance Guideline: Cups exceeding 3/16-inch in 5 1/2 inches 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.

Paint, Stain, and Varnish

4-7-1 Observation: Exterior painting, staining, or refinishing is required because of repair work.

Performance Guideline: Repairs required under these performance guidelines shall be finished to match the immediate surrounding areas as closely as practical.

Corrective Measure: The contractor will finish repaired areas as indicated.

Discussion: Touch-up painting, staining, or refinishing may not match the surrounding area.

4-7-2 Observation: Exterior paint or stain has peeled, flaked, or physically deteriorated.

Performance Guideline: Exterior paints and stains should not fail during the this One Year Warranty period.

Corrective Measure: If exterior paint or stain has peeled, developed an alligator pattern, or blistered, the contractor, during the this One Year Warranty period, will properly prepare and refinish affected areas and match the 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, during the this One Year Warranty period, will refinish the entire wall. Any problems relating to defective paint must be addressed by the paint manufacturer's warranty only, regardless of when it occurs.

4-7-3 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.

4-7-4 Observation: Varnish or lacquer finishes have deteriorated.

Performance Guideline: Clear finishes used on exterior surfaces may deteriorate rapidly. This is beyond the contractor's control.

Corrective Measure: Heat and sunlight can cause rapid deterioration of clear finishes. Maintenance is the consumer's responsibility. No corrective action is required of the contractor.

4-7-5 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 shall clean affected surfaces without damaging the surface.

4-7-6 Observation: Cabinet stain is uneven. Cabinet paint is not uniform or is mismatched.

Performance Guideline: Uneven stain color on wood cabinets is considered acceptable and is a result of the natural wood grain. Painted cabinets should appear uniform under normal lighting conditions at a distance of 6

feet.

Corrective Measure: The contractor will stain or paint the area as required to meet the performance guideline.

ROOFS

Roof Structure

5-1-1 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 shall repair affected ridge beams that do not meet the performance guideline.

5-1-2 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 shall repair affected rafters or joists that bow in excess of the performance guideline.

Roof Sheathing

5-2-1 Observation: Roof sheathing is wavy or appears bowed.

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

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

Discussion: In rare instances, the contractor might have to install blocking between the framing members to straighten the sheathing.

Roof Vents

5-3-1 Observation: An attic vent or louver leaks.

Performance Guideline: Attic vents and louvers shall not leak. However, infiltration of wind-driven rain and snow are not considered leaks and are beyond the control of the contractor.

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

Roof Installation and Leaks

Asphalt Shingles

5-4-1 Observation: The roof or flashing leaks.

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

Corrective Measure: The contractor will repair any verified roof or flashing leaks not caused by ice build-up, leaves, debris, abnormal 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.

5-4-2 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 naturally can occur when snow and ice accumulates.

Corrective Measure: No action is required of the contractor. Prevention of ice build-up on the roof is a consumer maintenance item.

5-4-3 Observation: Shingles have blown off.

Performance Guideline: Shingles shall not blow off in winds less than the manufacturer's warranty statement or applicable building codes.

Corrective Measure: If shingles were not installed properly, they will be repaired or replaced in the affected

area.

5-4-4 Observation: Shingles slide off the roof.

Performance Guideline: The contractor shall ensure that shingles are installed in accordance with the manufacturer's instructions.

Corrective Measure: The contractor shall evaluate and replace shingles that slide off the roof.

Discussion: Correctly installed shingles are covered by the manufacturer's warranty.

5-4-5 Observation: Shingles are not horizontally aligned.

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

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.

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

Performance Guideline: Because of weathering and manufacturing variations, the color of new shingles will not exactly match the color of existing shingles.

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

5-4-7 Observation: Asphalt shingle edges or corners are curled or cupped.

Performance Guideline: Asphalt shingle edges and corners shall not curl or cup more than 1/2-inch.

Corrective Measure: No corrective action is required of the contractor. Cupping in excess of 1/2-inch should be reported to the manufacturer.

5-4-8 Observation: Asphalt shingles do not overhang the edges of the roof, or hang too far over the edges of the roof.

Performance Guideline: Asphalt shingles shall 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.

5-4-9 Observation: Shading or a shadowing pattern is observed on a new shingle roof.

Performance Guideline: Shading or shadowing is a defect only if it results from failure to use shingles of the type specified in the contract.

Corrective Measure: The contractor will replace shingles not conforming to the contractual requirements.

5-4-10 Observation: Asphalt shingles have developed surface buckling.

Performance Guideline: Asphalt shingle surfaces need not be perfectly flat. 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.

5-4-11 Observation: Sheathing nails have loosened from framing and raised asphalt shingles.

Performance Guideline: Nails shall not loosen from roof sheathing to raise asphalt shingles from surface.

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

Discussion: It is not uncommon for nails to "work themselves out" due to variations in temperature. 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 (a perfect color/shade match cannot be assured).

5-4-12 Observation: Roofing nails are exposed at the ridge or hip of a roof.

Performance Guideline: Nail heads shall be sealed.

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

5-4-13 Observation: Holes from construction activities are found in asphalt shingles.

Performance Guideline: Holes from construction activities shall be flashed or sealed below the asphalt shingle

tab to prevent leakage. If the patch is visible from the ground, the shingle should be replaced.

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

Roll Roofing

5-4-15 Observation: Water is trapped under roll roofing.

Performance Guideline: Water shall not become trapped under roll roofing.

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

5-4-16 Observation: Roofing is blistered but does not leak.

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

Corrective Measure: Because this is a common occurrence, no action is required.

5-4-17 Observation: Water is standing on a flat roof.

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

Corrective Measure: The contractor will take corrective action to ensure proper drainage of the roof.

Chimney

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

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

Corrective Measure: If cracking causes leakage the contractor will repair the cap or crown. Caulking or other sealant is acceptable.

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

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

Corrective Measure: The contractor will repair leaks in new chimney flashing that are not caused by ice build-up, other common occurrences, 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

5-6-1 Observation: The gutter or downspout leaks.

Performance Guideline: Gutters and downspouts shall not leak.

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

5-6-2 Observation: The gutter overflows during a heavy rain.

Performance Guideline: Gutters may overflow during a heavy rain.

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

Discussion: The consumer is responsible for keeping gutters and downspouts free from debris that could cause overflow.

5-6-3 Observation: Water remains in the gutter after a rain.

Performance Guideline: The water level shall 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. The consumer is responsible for maintaining gutters and downspouts and keeping them unobstructed.

Discussion: Contractors usually 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 build-up, a steeper pitch or additional downspouts may be desirable.

Skylights

5-7-1 Observation: A skylight leaks.

Performance Guideline: Skylights shall be installed in accordance with the manufacturer's instructions. Leaks resulting from improper installation are considered excessive. Condensation on interior surfaces is not a leak and is not considered a defect.

Corrective Measure: The contractor will repair any improperly installed skylight to meet the performance guideline. If the leak is a result of a manufacturer's defect, the consumer must rely solely upon the manufacturer's warranty.

Discussion: Condensation on interior surfaces is not a leak.

PLUMBING

Water and Gas Supply System

6-1-1 Observation: A pipe or fitting leaks.

Performance Guideline: No leaks of any kind shall exist in any water or gas pipe or fitting.

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

6-1-2 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 combinations of temperature and indoor humidity.

Corrective Measure: The consumer is responsible for controlling humidity in the home.

Discussion: The consumer may insulate pipes and supply lines.

6-1-3 Observation: A faucet or valve leaks.

Performance Guideline: No faucet or valve shall leak as a result of defects in material or workmanship.

Corrective Measure: The contractor will repair the leaking faucet or valve. If the leak is a result of a manufacturer's defect, the consumer must rely solely upon the manufacturer's warranty.

6-1-4 Observation: Water in a plumbing pipe freezes, and the pipe bursts.

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

Corrective Measure: The contractor will correct situations not meeting the applicable code. The consumer is responsible for draining or otherwise protecting pipes and exterior faucets exposed to freezing temperatures.

6-1-5 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 responsibility of the contractor.

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.

6-1-6 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 applicable plumbing code.

Plumbing Fixtures

6-2-1 Observation: The bathtub or shower leaks.

Performance Guideline: Bathtubs and showers should not leak.

Corrective Measure: The contractor will repair bathtub or shower leaks as necessary to meet the performance guideline. If the leak is a result of a manufacturer's defect, the consumer must rely solely upon the manufacturer's warranty.

Discussion: Proper repair can be effected by sealing areas around tubs and showers. The consumer is responsible for maintaining caulk seals from occupancy onward.

6-2-2 Observation: A plumbing fixture, appliance, or trim fitting is defective.

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

Corrective Measure: No action is required of the contractor. Defective trim fittings, appliances, and fixtures are covered under the manufacturer's warranty.

6-2-3 Observation: The surface of a plumbing fixture is cracked or chipped.

Performance Guideline: Cracks and chips in surfaces of bathtubs and sinks are considered excessive if they are visible from 3 feet in normal lighting conditions.

Corrective Measure: 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.

Discussion: Fiberglass and acrylic fixtures often can be repaired.

6-2-4 Observation: A fiberglass tub or shower enclosure base flexes.

Performance Guideline: The tub or showers are to be installed according to the manufacturer's instructions.

Corrective Measure: The contractor shall repair the base to meet the performance guideline. If the problem is a result of a manufacturer's defect, the consumer must rely solely upon the manufacturer's warranty.

6-2-5 Observation: A vanity top is cracked.

Performance Guideline: Vanity tops shall not have cracks when installed with proper sealants.

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

Sanitary Sewer or Septic System

6-3-1 Observation: A sewer, fixture, or drain is clogged.

Performance Guideline: Sewers, fixtures, and drains shall drain.

Corrective Measure: The contractor is not responsible for sewers, fixtures, and drains that are clogged because of the consumer's actions or negligence. If a problem occurs, the consumer should consult the contractor for corrective action. If defective installation is the cause, the contractor is responsible for correcting the problem. If the consumer's actions or negligence is the cause, the consumer is responsible for correcting the problem.

Discussion: With respect to septic systems, consumer actions that constitute negligence under this 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.
- Allowing water to pond over the disposal area.

ELECTRICAL

Fuses and Circuit Breakers

7-1-1 Observation: A fuse blows or a circuit breaker trips.

Performance Guideline: Fuses and circuit breakers shall 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 electrical system in the home or some consumer product connected to the system. Although defective components are possible, most electrical malfunctions are caused by consumer-owned fixtures and appliances. 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 contractor should be notified.

7-1-2 Observation: A ground fault circuit interrupter (GFCI) or arc fault circuit interrupter (AFCI) trips frequently.

Performance Guideline: Ground fault and arc fault circuit interrupters shall perform as designed.

Corrective Measure: The contractor will install ground fault and arc fault circuit interrupters in accordance with applicable electrical codes. Tripping is to be expected and is not covered unless it is caused by a component failure or incorrect installation.

Discussion: Both ground fault and arc fault circuit interrupters are very sensitive devices and are easily tripped. GFCIs protect outlets in wet areas (for example, bathrooms, kitchens, garages, exterior, etc.). Outlets protected by GFCIs may be connected in series; it may not be readily apparent that an inoperative convenience outlet is the result of a tripped GFCI in another room (and not necessarily in the electrical panel). AFCIs sometimes are installed to protect bedroom circuits. The most common cause of tripping by AFCIs is damaged cords or plugs on consumers' lamps, small appliances, or other devices. AFCIs are usually found in the electrical panel.

Outlets and Lights

7-2-1 Observation: Electrical outlets, switches, or fixtures malfunction.

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

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

7-2-2 Observation: Wiring fails to carry its designed load.

Performance Guideline: Wiring shall 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 repair wiring not conforming to code.

7-2-3 Observation: A light fixture is tarnished.

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

Corrective Measure: No action is required of the contractor. Consumer should contact manufacturer.

7-2-4 Observation: Receptacle or switch covers protrude from the wall.

Performance Guideline: Receptacle or switch covers should not be more than 1/16-inch from the adjoining wall surface.

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

7-2-5 Observation: The consumer's 220-volt appliance cord does not fit the outlet provided by the contractor.

Performance Guideline: The contractor shall install electrical outlets required by applicable electrical code.

Corrective Measure: No action is required of the contractor.

Discussion: The consumer is responsible for obtaining an appliance cord that fits the outlets provided by the contractor.

Fans

7-3-1 Observation: A ceiling fan vibrates excessively and/or is noisy.

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

Corrective Measure: The contractor shall correct any fan installation not in accordance with the performance guideline if the fan was supplied and installed by the contractor. If the vibration is a result of a manufacturer's defect, the consumer must rely solely upon the manufacturer's warranty.

7-3-2 Observation: An exhaust fan discharges into attic or crawl space.

Performance Guideline: Fans shall discharge as required by applicable codes.

Corrective Measure: The contractor shall repair to meet performance guideline. If the discharge is a result of a manufacturer's defect, the consumer must rely solely upon the manufacturer's warranty.

Smoke Detectors

7-4-1 Observation: A smoke detector "chirps."

Performance Guideline: A smoke detector should not "chirp" at substantial completion of the project.

Corrective Measure: The contractor will repair the smoke detector to eliminate chirping. If the problem is a result of a manufacturer's defect, the consumer must rely solely upon the manufacturer's warranty.

Discussion: Most smoke detectors are powered by both the home's electrical power and a backup battery. "Chirping" is an indication that the battery is weak or is not installed. If the chirping occurs on a new smoke 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 smoke detectors semi-annually when daylight-saving time begins and ends.

INTERIOR CLIMATE CONTROL

Air Infiltration and Drafts

8-1-1 Observation: Air infiltrates around exterior doors or windows.

Performance Guideline: Some infiltration is usually noticeable around doors and windows, especially during high winds. No daylight shall be visible around the frame when the window or door is closed.

Corrective Measure: The contractor shall repair to meet the performance guideline. If the leak is a result of a manufacturer's defect, the consumer must rely solely upon the manufacturer's warranty.

Discussion: Proper repair can be performed by adjusting or installing weather stripping around doors and windows. In high-wind areas, the consumer may elect to have storm windows and doors installed to further reduce drafts.

8-1-2 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 action is required of the contractor. The consumer may elect to install foam insulation pads under switch and outlet plates to help decrease drafts.

Humidity Control and Condensation

8-2-1 Observation: Water, ice, or frost is observed on a window.

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

Corrective Measure: No action is required of the contractor unless the water, ice, or frost is directly attributed to faulty installation (i.e., that deviates from the manufacturer's instructions and/or applicable building code). If the problem is a result of a manufacturer's defect, the consumer must rely solely upon the manufacturer's warranty.

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 building envelope 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 and allowing moving air within the home to flow over the interior surface of the windows.

8-2-2 Observation: The ductwork makes noises.

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

Corrective Measure: Unless the duct is not in compliance with the local code, no corrective action is required.

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.

8-2-3 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 shall 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 noise caused by oil canning.

8-2-4 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 action is required unless registers are not installed in accordance with manufacturer's instructions.

Discussion: Under certain conditions, some noise may be experienced with the normal flow of air, even when registers are installed correctly. See the manufacturer's instructions.

8-2-5 Observation: The air handler or furnace vibrates.

Performance Guideline These items shall be installed in accordance with the manufacturer's instructions and applicable codes.

Corrective Measure: If installed incorrectly, the contractor will correct the items according to the manufacturer's instructions and code requirements. If the problem is a result of a manufacturer's defect, the consumer must rely solely upon the manufacturer's warranty.

Discussion: Under certain conditions some vibrating may be experienced with the normal flow of air, even when air handlers and furnaces are installed correctly. See the manufacturer's instructions.

8-2-6 Observation: The ductwork is separated or detached.

Performance Guideline: Ductwork shall remain intact and securely fastened.

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

Heating System

8-3-1 Observation: The heating system is inadequate.

Performance Guideline: The heating system shall 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 shall supersede this performance guideline where such codes have been locally adopted.

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. If the problem is a result of a manufacturer's defect, the consumer must rely solely upon the manufacturer's warranty.

Discussion: 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.

Central Air-Conditioning System

8-4-1 Observation: The cooling of rooms is inadequate.

Performance Guideline: If air conditioning is installed by the contractor, the cooling system shall be capable of maintaining a temperature of 78 degrees Fahrenheit, as measured in the center of each room at a height of 5 feet above the floor under local outdoor summer design conditions. In the case of outside temperatures exceeding 105 degrees Fahrenheit, the system shall keep the inside temperature 25 degrees Fahrenheit cooler than the outside temperature. National, state, or local codes shall supersede this guideline where such codes

have been locally adopted.

Corrective Measure: The contractor will correct the cooling system to provide the required temperature in accordance with the applicable code requirements. If the problem is a result of a manufacturer's defect, the consumer must rely solely upon the manufacturer's warranty.

Discussion: 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. It is the consumer's responsibility to provide sufficient window covering for the windows on the side of the house facing direct sunlight.

8-4-2 Observation: A condensate line is clogged.

Performance Guideline: Condensate lines must be free of all clogs to operate properly.

Corrective Measure: Condensate lines will eventually clog under normal use. 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.

8-4-3 Observation: There is a refrigerant leak.

Performance Guideline: Refrigerant lines and fittings shall not leak during normal operation.

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.

8-4-4 Observation: There is condensation on the outside of air handlers and ducts.

Performance Guideline: Moisture may condense on the exterior surfaces of air handlers and ducts under some temperature differences and high humidity levels.

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

Discussion: 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 outside humidity is high.

8-4-5 Observation: Kitchen or bath fans allow air infiltration.

Performance Guideline: Bath and kitchen fans shall be installed in accordance with the manufacturer's instructions and code requirements.

Corrective Measure: No action is required of the contractor if fans meet the guideline. If the problem is a result of a manufacturer's defect, the consumer must rely solely upon the manufacturer's warranty.

Discussion: It is possible for outside air to enter the house 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.

8-4-6 Observation: HVAC vent or register covers protrude more than 1/16-inch from a smooth wall or ceiling surface.

Performance Guideline: Registers shall not protrude more than 1/16-inch from the wall surface at the time of substantial completion of the project.

Corrective Measure: The contractor shall comply with 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.

INTERIOR

Interior Doors

9-1-1 Observation: An interior door is warped.

Performance Guideline: Interior doors (full openings) shall not warp in excess of 1/4-inch.

Corrective Measure: The contractor will correct or replace and refinish defective doors to match existing doors as nearly as practical. If the problem is a result of a manufacturer's defect, the consumer must rely solely

upon the manufacturer's warranty.

Discussion: In bathroom or utility areas, exhaust fans or an open window must be used to minimize moisture to prevent warpage of door units. If the consumer is responsible for painting the door, the contractor is not responsible.

9-1-2 Observation: Bifold doors come off their tracks during normal operation.

Performance Guideline: Bifold doors shall slide properly on their tracks at the time of substantial completion of the project. Cleaning and maintenance necessary to preserve proper operation are consumer responsibilities.

Corrective Measure: The contractor will repair any bifold 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.

9-1-3 Observation: A pocket door rubs excessively in its pocket during normal operation.

Performance Guideline: Pocket doors shall not rub in their pockets during normal operation if they are installed according to the manufacturer's instructions.

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

Discussion: Pocket doors commonly rub, stick, or derail due to the inherent nature of the product.

9-1-4 Observation: A wooden door panel has shrunk or split.

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

Corrective Measure: The contractor will fill splits in the door panel with wood filler and will match the paint or stain as closely as practical.

9-1-5 Observation: A door rubs on jambs or contractor-installed floor covering.

Performance Guideline: Doors shall operate smoothly.

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

9-1-6 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 shall be within 3/16-inch of parallel to the door jamb.

Corrective Measure: The contractor will adjust the door as necessary to meet the guideline.

9-1-7 Observation: A door swings open or closed by the force of gravity.

Performance Guideline: Doors shall not swing open or closed by the force of gravity alone.

Corrective Measure: The contractor will adjust the door as necessary to meet the guideline.

9-1-8 Observation: Interior doors do not operate smoothly.

Performance Guideline: Doors shall move smoothly with limited resistance.

Corrective Measure: The contractor shall repair door operation to meet the performance guideline.

9-1-9 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: The contractor will adjust, repair, or replace knobs or latches that are not damaged by abuse.

Interior Stairs

9-2-1 Observation: An interior stair tread deflects too much.

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

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

9-2-2 Observation: Gaps exist between interior stair risers, treads, and/or skirts.

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

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

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 re-nailing the riser to the tread or shimming will reduce squeaks but the complete elimination of squeaks is practically impossible.

9-2-4 Observation: Gaps exist between interior stair railing parts.

Performance Guideline: Gaps between interior stair railing parts shall 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.

9-2-5 Observation: An interior stair railing lacks rigidity.

Performance Guideline: Interior stair railings shall be attached to structural members in accordance with applicable building codes.

Corrective Measure: The contractor will repair any stair railings as necessary to comply with applicable building codes.

Trim and Moldings

9-3-1 Observation: There are gaps at non-mitered trim and molding joints.

Performance Guideline: Openings at joints in trim and moldings, and at joints between moldings and adjacent surfaces, shall not exceed 1/8-inch in width at the time of installation.

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

Discussion: Separation of trim and moldings in excess of the performance guidelines 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 home.

9-3-2 Observation: Nails are not properly set or, where puttied, 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 shall not be readily visible from a 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 shall take action necessary to meet the performance guideline.

Discussion: Puttying of nail holes in base and trim molding installed in unfinished rooms and areas not exposed to view (such as inside of closets) are not included in this guideline.

9-3-3 Observation: An inside corner is not coped or mitered.

Performance Guideline: Trim and molding edges at inside corners shall 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.

9-3-4 Observation: Trim or molding mitered edges do not meet.

Performance Guideline: Gaps between mitered edges in trim and molding shall not exceed 1/8-inch at the time of installation.

Corrective Measure: The contractor will repair gaps that do not meet the performance guideline. Caulking or puttying with materials compatible to the finish is acceptable.

9-3-5 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, the contractor will repair the affected area to meet the guideline.

9-3-6 Observation: Hammer marks are visible on interior trim.

Performance Guideline: Hammer marks on interior trim shall not be readily visible from 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.

Cabinets

9-4-1 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, or scribe molding, or will reposition/reinstall cabinets to meet the performance guideline.

9-4-2 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, unless the consumer and the contractor agree to disregard the guideline in order to match or otherwise compensate for pre-existing conditions.

Corrective Measure: The contractor will make necessary adjustments to meet the performance guideline.

9-4-3 Observation: A cabinet is warped.

Performance Guideline: Cabinet warpage shall 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.

9-4-4 Observation: A cabinet door or drawer binds.

Performance Guideline: Cabinet doors and drawers shall open and close with reasonable ease.

Corrective Measure: The contractor will adjust or replace cabinet doors and drawers as necessary to meet the performance guideline.

9-4-5 Observation: A cabinet door will not stay closed.

Performance Guideline: The catches or closing hardware for cabinet doors shall be adequate to hold the doors in a closed position.

Corrective Measure: The contractor will adjust or replace the door catches or closing hardware as necessary to meet the performance guideline.

9-4-6 Observation: Cabinet doors or drawers are cracked.

Performance Guideline: Panels and drawer fronts shall not crack.

Corrective Measure: The contractor may replace or repair cracked panels and drawer fronts. No contractor action is required if the cracked drawer fronts or panels result from the consumer's abuse.

Discussion: Paint or stain on the repaired or replaced panel or drawer front may not match the stain on the existing panels or drawer fronts.

9-4-7 Observation: Cabinet units are not level.

Performance Guideline: Individual cabinets should not have a deviation of more than 3/16-inch out of level.

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

9-4-8 Observation: A cabinet door is warped.

Performance Guideline: Cabinet door warpage shall not exceed 1/8-inch as measured diagonally from corner to corner.

Corrective Measure: The contractor may replace or repair warped doors to meet the performance guideline.

9-4-9 Observation: Cabinet doors do not align when closed.

Performance Guideline: Gaps between doors should not exceed 1/8-inch.

Corrective Measure: The contractor shall adjust doors to meet the performance guideline.

Countertops

9-5-1 Observation: High-pressure laminate on a countertop is delaminated.

Performance Guideline: Countertops fabricated with high-pressure laminate coverings shall 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.

9-5-2 Observation: The surface of high pressure laminate on a countertop is cracked or chipped.

Performance Guideline: Cracks or chips greater than 1/16-inch in width 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.

9-5-3 Observation: Solid surface countertops are visibly scratched.

Performance Guideline: At the time of substantial completion of the project, solid surface countertops shall be free of scratches visible from 6 feet under normal lighting conditions.

Corrective Measure: The contractor shall repair scratches in the countertop to meet the performance guideline.

9-5-4 Observation: A countertop is not level.

Performance Guideline: Countertops shall be no more than 3/8-inch in 10 feet out of level.

Corrective Measure: The contractor will make necessary adjustments to meet the performance guideline.

9-5-5 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 shall make corrections as necessary to bring the grout lines into compliance with the performance guideline.

Discussion: Different tiles require different widths of grout lines. Some tiles are designed to have varied-width grout lines.

9-5-6 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 shall be repaired.

Corrective Measure: The contractor will repair the grout lines by adding grout, caulking, or replacing grout one time.

9-5-7 Observation: A granite, marble, stone, or solid surface countertop is cracked at the time of substantial completion of the project.

Performance Guideline: Cracks greater than 1/32-inch in width are considered excessive.

Corrective Measure: If the crack is found to be caused as a result of faulty installation or product, the contractor will repair or replace the countertop. Patching is an acceptable repair.

9-5-8 Observation: A granite, marble, stone, or solid surface countertop has texture or color variations.

Performance Guideline: Color variations are acceptable. The contractor has no responsibility for countertop texture or color variations when the consumer selects the material.

Corrective Measure: No action is required of the contractor.

9-5-9 Observation: A granite, marble, stone, or solid surface countertop is chipped at the time of substantial completion of the project.

Performance Guideline: 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.

9-5-10 Observation: The surface of countertop tile has excessive lippage of 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 hand-made tile).

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

9-5-11 Observation: A solid surface or laminate countertop has a bubble, burn, stain, or other damage.

Performance Guideline: Solid surface or laminate countertops shall be free of bubbles, burns, or stains at the time of substantial completion of the project.

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.

Interior Wall Finish

Lath and Plaster

9-6-1 Observation: Cracks are visible on a finished wall or ceiling.

Performance Guideline: Cracks shall not exceed 1/16-inch in width.

Corrective Measure: One time only, 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

9-6-2 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 distance of 6 feet under normal lighting conditions are considered excessive.

Corrective Measure: One time only, 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, therefore, are not visible.

Discussion: When drywall has been placed on lumber surfaces which are 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 home. 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 house will tend to stabilize itself.

9-6-3 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: The contractor shall repair the affected area of the wall to meet the performance guideline one time within the warranty period.

9-6-4 Observation: Joints protrude from the surface.

Performance Guideline: Any joints that are visible from a distance of 6 feet under normal lighting conditions are considered excessive.

Corrective Measure: One time only, the contractor will repair affected areas.

Discussion: Joints often occur in long walls, stairwells, and areas of two-story homes where framing members have shrunk and caused the drywall to protrude.

9-6-5 Observation: The texture of gypsum wallboard does not match.

Performance Guideline: Any variations that are readily visible from a distance of 6 feet under normal lighting

conditions are considered excessive.

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

9-6-6 Observation: Angular gypsum wallboard joints are uneven.

Performance Guideline: This is a natural condition that occurs with randomly applied materials.

Corrective Measure: No action is required of the contractor. This is a common condition.

9-6-7 Observation: Drywall is cracked.

Performance Guideline: Drywall cracks greater than 1/16-inch in width are considered excessive.

Corrective Measure: One time only, 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.

9-6-8 Observation: Blown or textured ceilings have uneven textures.

Performance Guideline: This is a common condition that occurs with randomly applied materials.

Corrective Measure: No action is required of the contractor. This is a common condition.

Paint, Stain, and Varnish

9-6-9 Observation: Interior paint does not "cover" the underlying surface.

Performance Guideline: The surface being painted shall not show through new paint when viewed from a distance of 6 feet under normal lighting conditions.

Corrective Measure: The contractor will recoat affected areas as necessary to meet the guidelines as closely as practical.

9-6-10 Observation: An interior surface is spattered with paint.

Performance Guideline: Paint spatters shall not be readily visible on walls, woodwork, floors, or other interior surfaces when viewed from a distance of 6 feet under normal lighting conditions.

Corrective Measure: The contractor will remove paint spatters to meet the performance guideline.

9-6-11 Observation: Brush marks show on interior painted surface.

Performance Guideline: Brush marks shall not be readily visible on interior painted surfaces when viewed from 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.

9-6-12 Observation: Lap marks show on interior painted or stained areas.

Performance Guideline: Lap marks shall not be readily visible on interior painted or stained areas when viewed from a distance of 6 feet under normal lighting conditions.

Corrective Measure: The contractor will refinish as necessary to meet the guideline and match affected areas as closely as practical.

9-6-13 Observation: Interior painting, staining, or refinishing is required because of repair work.

Performance Guideline: A perfect match between original and new paint cannot be expected. Repairs required under these performance guidelines shall be finished to match the immediate surrounding areas as closely as practical.

Corrective Measure: 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.

Discussion: The contractor is only responsible if he or she painted the home as part of the original contract.

9-6-14 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 action is required of the contractor. This is a common condition.

Wallpaper and Vinyl Wall Coverings

9-6-15 Observation: The wall covering has peeled.

Performance Guideline: The wall covering shall not peel off the walls.

Corrective Measure: The contractor will reattach or replace the loose wall covering if the contractor installed the covering.

Discussion: Wallpaper applied in high moisture areas is exempted from this guideline because the problem results from conditions beyond the contractor's control.

9-6-16 Observation: Patterns in wall covering are mismatched.

Performance Guideline: Patterns in wall coverings shall match. Irregularities in the patterns themselves are the manufacturer's responsibility:

Corrective Measure: The contractor shall correct the wall covering to meet the performance guidelines.

FLOOR FINISHES

Carpeting

10-1-1 Observation: Carpet does not meet at the seams.

Performance Guideline: It is not unusual for carpet seams to show. However, a visible gap at the seams is considered excessive.

Corrective Measure: If the carpet was installed by the contractor, the contractor will eliminate visible gaps at carpet seams.

10-1-2 Observation: Carpeting stretches or loosens.

Performance Guideline: When stretched and secured properly, wall-to-wall carpeting installed as the primary floor covering shall not come up, 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 guideline.

10-1-3 Observation: Carpeting is faded or discolored.

Performance Guideline: Fading or discoloration of carpet is a manufacturer's responsibility.

Corrective Measure: No action is required of the contractor.

Discussion: Fading or discoloration may result from the consumer spilling liquids on the carpet, exposure to sunlight, or the consumer's failure to properly maintain the carpet.

10-1-4 Observation: Dead spots are observed in padding areas below the carpet surface.

Performance Guideline: Carpeted areas shall have full coverage of padding consistently throughout the flooring area.

Corrective Measure: The contractor will repair/replace padding in the affected areas to meet the performance guidelines.

10-1-5 Observation: Carpet is wet.

Performance Guideline: Under normal conditions, carpets should not be wet.

Corrective Measure: The contractor will dry, stretch and reinstall (as necessary) the affect area of the carpet to return the carpet to its appearance prior to the introduction of moisture.

Discussion: While carpets should not be allowed to retain moisture for extended periods of time, wet carpets can typically be cleaned and relaid without further problems. Carpets need to be replaced as a result of moisture only in rare and extreme circumstances.

Roll Vinyl and Resilient Tile Flooring

10-2-1 Observation: Nail pops are observed on the surface of resilient flooring.

Performance Guideline: Readily visible nail pops on resilient flooring are considered excessive.

Corrective Measure: The contractor will repair the nail pops that are readily visible.

Discussion: The contractor will repair or replace, at the contractor's option, the resilient floor covering in the affected areas with similar materials. The contractor is not responsible for discontinued patterns or color

variations when replacing the floor covering.

10-2-2 Observation: Depressions or ridges are observed in resilient flooring because of subfloor irregularities.

Performance Guideline: Readily apparent depressions or ridges exceeding 1/8-inch shall 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.

Corrective Measure: The contractor will take corrective action as necessary to bring the affected area within the acceptable tolerance so that the depression or ridge is not readily visible and is not more than 1/8-inch. The contractor will not be responsible for discontinued patterns or color variations when replacing the floor covering.

10-2-3 Observation: Resilient flooring has lost adhesion.

Performance Guideline: Resilient flooring shall not lift, bubble, or detach.

Corrective Measure: At the contractor's option, the contractor will repair or replace the affected resilient flooring as necessary: The contractor is not responsible for discontinued patterns or color variations when replacing the floor covering. If the problem is a result of a manufacturer's defect, the consumer must rely solely upon the manufacturer's warranty.

10-2-4 Observation: Seams or shrinkage gaps show at vinyl flooring joints.

Performance Guideline: Gaps at joints/seams in vinyl flooring shall not exceed 1/32-inch in width. Where dissimilar materials abut, the gaps shall not exceed 1/16-inch.

Corrective Measure: At the contractor's option, the contractor will repair or replace the vinyl 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.

10-2-5 Observation: Bubbles are observed on roll 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 guideline.

Discussion: The performance guideline does not apply to perimeter attached vinyl floors.

10-2-6 Observation: The patterns on roll vinyl flooring are misaligned.

Performance Guideline: Patterns at seams between adjoining pieces shall be aligned to within 1/8-inch.

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

10-2-7 Observation: A resilient floor tile is loose.

Performance Guideline: Resilient floor tiles shall be securely attached to the floor.

Corrective Measure: The contractor will attach loose resilient floor tiles securely to the floor. The old adhesive will be removed if necessary to resecure the tiles.

10-2-8 Observation: The corners or patterns of resilient floor tiles are misaligned.

Performance Guideline: The corners of adjoining resilient floor tiles shall be aligned to within 1/8-inch. Misaligned patterns are not covered unless they result from improper orientation of the floor tiles.

Corrective Measure: The contractor will correct resilient floor tiles with misaligned corners to meet the performance guideline.

10-2-9 Observation: Yellowing is observed on the surface of vinyl sheet goods.

Performance Guideline: The contractor shall install vinyl flooring per the manufacturer's instructions.

Corrective Measure: 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.

Wood Flooring

10-3-1 Observation: Gaps exist between strip hardwood floor boards.

Performance Guideline: Gaps between strip hardwood floor boards shall not exceed 1/8-inch in width at the time of installation.

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

Discussion: Proper repair can be effected by filling the gap. Relative humidity in the home can cause noticeable fluctuations in gaps between floor boards. This is a common phenomenon in climates and areas of the home that experience significant shifts in humidity. The consumer is responsible for maintaining proper humidity levels in the home.

10-3-2 Observation: Strip hardwood floor boards are cupped.

Performance Guideline: Cups in strip hardwood floor boards shall not exceed 1/16-inch in height in a 3-inch maximum span measured perpendicular to the long axis of the board. Cupping caused by exposure to moisture beyond the contractor's control is not covered.

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

Discussion: The consumer is responsible for proper maintenance of the floor and for maintaining proper humidity levels in the home.

10-3-3 Observation: Excessive lippage is observed at the junction 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.

10-3-4 Observation: Voids ("holidays") are observed in the floor finish.

Performance Guideline: Voids that are readily visible from a distance of 6 feet 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.

10-3-5 Observation: The top coating on hardwood flooring has peeled.

Performance Guideline: Field-applied coating shall not peel during normal usage. Prefinished coatings are the manufacturer's responsibility.

Corrective Measure: The contractor shall refinish any field-applied finishes that have peeled.

Discussion: The consumer should contact the manufacturer regarding factory-applied finishes that have peeled.

10-3-6 Observation: Strip flooring has crowned.

Performance Guideline: Crowning in strip flooring shall not exceed 1/16-inch in depth in a 3-inch maximum span when measured perpendicular to the long axis of the board.

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

10-3-7 Observation: Hardwood flooring has buckled from the substrate.

Performance Guideline: Hardwood floor should not become loose from the substrate.

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

10-3-8 Observation: Excessive knots and color variations are observed in strip hardwood flooring.

Performance Guideline: The contractor will install the grade of hardwood specified for the project. All wood should be consistent with the grading stamp as specified.

Corrective Measure: The contractor shall replace any improperly graded wood.

Discussion: Hardwood is a natural product and consequently can be expected to exhibit variations in color, grain, and stain acceptance.

10-3-9 Observation: Slivers or splinters are observed in strip flooring.

Performance Guideline: Slivers or splinters that occur during the installation of the flooring are considered excessive.

Corrective Measure: The contractor will repair flooring in the affected areas to meet the performance guideline.

Discussion: Splinters or splinters that occur during installation can be shaved and the area filled prior to sanding and finishing.

10-3-10 Observation: "Sticker burn" is observed on the surface of strip flooring.

Performance Guideline: Discoloration from stacking strips in hardwood flooring is considered excessive in certain grades of flooring.

Corrective Measure: The contractor shall 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

10-4-1 Observation: Tile, brick, marble, or stone flooring is broken or loosened.

Performance Guideline: Tile, brick, marble, and stone flooring shall not be broken or loose.

Corrective Measure: The contractor will replace broken tiles, bricks, marble, and stone flooring, and resecure loose tiles, bricks, marble, and 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.

10-4-2 Observation: Cracks are observed in the grouting of tile joints or at the junctures with other materials, such as a bathtub.

Performance Guideline: Cracks in grouting of ceramic tile joints commonly result from normal shrinkage conditions. Cracks that result in loose tiles or gaps in excess of 1/16-inch shall be repaired.

Corrective Measure: The contractor will repair grouting, if necessary. The contractor is not responsible for color variations or discontinued colored grout. The consumer is responsible for regrouting these joints after the contractor's repair.

Discussion: The use of an elastic substance at junctures between tile and other materials is often more effective than grout.

10-4-3 Observation: There is excessive 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 hand-made tile).

Corrective Measure: The contractor will repair lippage in the affected areas to meet the performance guideline.

10-4-4 Observation: A grout or mortar joint is not a uniform color.

Performance Guideline: After the grout has cured, any color variation that is readily visible from a distance of 6 feet under normal lighting conditions is considered excessive.

Corrective Measure: One time only, the contractor will repair the joint to meet the performance guideline.

MISCELLANEOUS

Fireplace and Wood Stove

11-1-1 Observation: A fireplace or chimney does not consistently draw properly.

Performance Guideline: A properly designed and constructed fireplace and chimney shall function correctly. Some 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: The contractor shall repair the chimney, based on the manufacturer's specifications or the design specifications, to draw correctly.

Discussion: High winds can cause temporary negative or down drafts. Negative drafts can also be caused by obstructions such as tree branches, steep hillsides, adjoining homes, and interior furnaces.

11-1-2 Observation: The chimney is separated from the structure.

Performance Guideline: Newly built fireplaces will often incur slight amounts of separation. The amount of separation from the main structure shall 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 due to a structural failure of the chimney foundation itself. In that case, caulking is unacceptable.

11-1-3 Observation: The firebox paint is damaged by a fire in the fireplace.

Performance Guideline: Heat and discoloration is a common occurrence.

Corrective Measure: No action is required of the contractor.

Discussion: The consumer should obtain the proper paint from the manufacturer if he or she chooses to touch up the interior of the firebox for aesthetic reasons.

11-1-4 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 of the contractor.

11-1-5 Observation: A simulated firebrick panel has cracked.

Performance Guideline: This is a common condition.

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

11-1-6 Observation: Rust is observed on the fireplace damper.

Performance Guideline: This is a common condition.

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

Concrete Stoops and Steps

11-2-1 Observation: Stoops or steps have settled, heaved, or separated from the house structure.

Performance Guideline: Stoops and steps shall 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.

11-2-2 Observation: Water remains on stoops or steps after rain has stopped.

Performance Guideline: Water shall 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

11-3-1 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 shall repair cracks in the slab to meet the performance guideline.

Discussion: The repaired area may not match the existing floor in color and texture.

11-3-2 Observation: A garage concrete floor has settled, heaved, or separated.

Performance Guideline: The garage floor shall 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.

11-3-3 Observation: Garage doors fail to operate properly under normal use.

Performance Guideline: Garage doors shall 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. If the problem is a result of a manufacturer's defect, the consumer

must rely solely upon the manufacturer's warranty.

11-3-4 Observation: Garage doors allow the entry of snow or water.

Performance Guideline: Garage doors shall 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 and Sidewalks

11-4-1 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 shall repair the affected area to meet the guideline.

Discussion: If commercial-grade filler is chosen for repair, cracks should be routed to a minimum depth of 1/4-inch.

11-4-2 Observation: Standing water is observed on an asphalt pavement surface.

Performance Guideline: Standing water greater than 1/8-inch in depth shall not remain on the surface 24 hours after a rain.

Corrective Measure: The contractor shall repair or replace the affected area to meet the guideline.

11-4-3 Observation: The aggregate of asphalt pavement is raveling.

Performance Guideline: Asphalt pavement shall not ravel.

Corrective Measure: The contractor shall repair or replace the affected area to meet the guideline.

11-4-4 Observation: A concrete driveway 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 shall be repaired.

Corrective Measure: The contractor shall repair/replace affected areas to eliminate cracks that exceed the performance guidelines.

Discussion: Concrete products normally have some cracking and shrinkage. Minor cracking is normal. Cracking can be caused by elements outside of the contractor's control. Control joints are placed in the concrete to help control cracks and provide a less visible area for them to occur. The repaired area may not match the existing area in color and texture.

11-4-5 Observation: Adjoining exterior concrete flatwork sections deviate in height from one section to another.

Performance Guideline: Adjoining concrete sections shall not differ in height by more than 1/2-inch.

Corrective Measure: The contractor shall repair deviations to meet the performance guidelines.

Discussion: Some areas of the country experience lift or settlement at the junction of the garage floor and the driveway. The repaired area may not match the existing area in color and texture.

11-4-6 Observation: A sidewalk and other exterior concrete flatwork have settled.

Performance Guideline: Adjoining concrete sections shall not differ in height by more than 1/2-inch.

Corrective Measure: The contractor shall repair the affected areas 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. The repaired area may not match the existing area in color and texture.

11-4-7 Observation: Water collects (ponds) on the sidewalk.

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 shall repair or replace the affected area to meet performance guideline.

Wood Decks

11-5-1 Observation: A wood deck is springy or shaky:

Performance Guideline: All structural members in a wood deck shall be sized, and fasteners spaced, according to appropriate building codes and manufacturers' instructions.

Corrective Measure: The contractor will reinforce or modify, as necessary, any wood deck not meeting the performance guidelines.

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.

11-5-2 Observation: The spaces between decking boards are not uniform.

Performance Guideline: The spaces on opposite sides of individual deck boards shall not differ in average width by more than 3/16-inch at the time of substantial completion of the project, unless otherwise agreed upon by the consumer and the contractor.

Corrective Measure: One time only, 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.

11-5-3 Observation: The railings on wood decking contain slivers in exposed areas.

Performance Guideline: Railings on wood decks shall not contain slivers longer than 1/8-inch in exposed areas at the time of substantial completion of the project.

Corrective Measure: One time only, 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. The proper finishing of wood surfaces helps prevent slivers from forming.

11-5-4 Observation: A wood deck is out of level.

Performance Guideline: No point on the deck surface shall be more than 1/2-inch higher or lower than any other deck surface point within 10 feet on a line parallel to the house, or in proportional multiples of the preceding dimensions (unless a slope is incorporated in the design).

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 build-up.

11-5-5 Observation: Wood decking boards are split, warped, or cupped.

Performance Guideline: At the time of substantial completion of the project, splits, warps, and cups in wood decking boards shall 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 as necessary to meet the performance guidelines.

11-5-6 Observation: A wood deck has 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 varying porosity of the wood used to build the deck-are common and are not covered by this guideline.

Corrective Measure: The contractor will restrain the affected area to meet the performance guideline.

11-5-7 Observation: A nail head protrudes from a wood decking board.

Performance Guideline: Nail heads shall not protrude from the floor of the wood deck at the time of substantial completion of the project.

Corrective Measure: The contractor will refasten nails whose heads protrude from the floor of the deck so that the heads are flush with the surface.

Discussion: Nails should be driven flush when the deck is installed, but they may pop from the deck over time

as the wood shrinks and expands.

11-5-8 Observation: Nails on a wood deck are "bleeding."

Performance Guideline: Nail stains extending more than 1/2-inch from the nail and readily visible from a distance of more than 3 feet are not acceptable.

Corrective Measure: The contractor will eliminate nail stains to meet the performance guideline.

Discussion: This guideline does not apply if "natural weathering" or semi-transparent stains are specified.

11-5-9 Observation: A wood deck railing lacks rigidity.

Performance Guideline: Wood deck railings shall be attached to structural members in accordance with applicable building codes.

Corrective Measure: The contractor will repair wood deck railings as necessary to comply with applicable building codes.

LANDSCAPING

Note: 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.

12-0-1 Observation: Tree stumps have been left in a disturbed area of the property.

Performance Guideline: If tree stumps were on the property in the disturbed area prior to the substantial completion of the project, the contractor is responsible for their removal.

Corrective Measure: The contractor will remove the stumps from the area.

12-0-2 Observation: Sod, shrubs, plants, or trees that have been planted in a disturbed area of the property as part of the contract have died.

Performance Guideline: Any shrub, plant, tree, or sod planted by the contractor as part of the contract are to be alive at the time of substantial completion of the project.

Corrective Measure: Any shrub, plant, tree, or sod planted by the contractor, and not in compliance with this standard at the time of substantial completion of the project shall be replaced to meet the performance guideline.

12-0-3 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.

Discussion: After installation, proper lawn and landscape care are the consumer's responsibility.

12-0-4 Observation: Outdoor plants moved during work die after substantial completion of the project.

Performance Guideline: Plants that must be physically transported during the work shall be moved, maintained, and replanted by the consumer.

Corrective Measure: No action is required of the contractor.

Discussion: The contractor shall not be responsible for delays in the schedule when plants are moved by the consumer.

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:** This term refers to all components of the cooling, ventilating and heating systems, including, without limitation, furnace, condenser, compressor, heat exchanger, air exchanger, ductwork, refrigerant lines, steam and water pipes, registers, convectors, 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.)
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, 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;
 - b. that causes failure of a specified major structural component ("Major Structural Component"); and
 - c. that materially affects the physical safety of the occupants of the Residence.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 footingsMajor 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 & F of this Warranty.