



TECHNICAL BULLETIN

Last Revision: January 2016

Subject: **Facts about Buckled Shingles**

Buckling is the result of asphalt shingles not laying flat due to the wrinkling of the roofing underlayment or movement of the wood deck.

<u>Causes</u>	<ul style="list-style-type: none">• High humidity conditions and/or environments: As the old roof is torn off the wood deck is exposed and absorbs moisture. As the wood increases in moisture content it can cause movement of the decking.• As the new roof is installed, moisture is trapped in the system and roofing felt used as underlayment can absorb moisture and wrinkle.• Because homes are built tighter and with higher insulation levels they may not be properly ventilated. See Atlas's recommendations for ventilation requirements.• Roof sheathing that is not spaced a minimum of $\frac{1}{8}$" can cause buckling due to expansion and contraction.
<u>Solutions</u>	<ul style="list-style-type: none">• Allow moisture to escape the roofing system. Once the roofing system reaches the proper moisture content the roof should lie flat and the buckling problem should not return.• Remove the shingles that are affected, and if the felt is wrinkled repair the felt wrinkles by cutting and re-nailing the felt so that it's flat then replace the shingles.• Ensure the attic is properly vented. See Atlas ventilation requirements listed in our shingle installation instruction.
<u>Prevention</u>	<ul style="list-style-type: none">• Use only approved roof decking materials.• Do not expose decking material to water either before or after application.• Cover wood deck with approved asphalt roofing underlayment.• Ensure adequate attic ventilation.• Apply shingles in accordance with Atlas' printed installation instructions.
<u>Correction</u>	<ul style="list-style-type: none">• Ventilate the attic space to eliminate excess moisture. The addition of exhaust fans maybe necessary.• When buckling persists, remove and replace the affected shingles.