

STIFFNESS & FLEXIBILITY

Analysis Report



FOR FRESH ROOF

Performed by PRI: accredited,
independent, third-party testing & evaluation



INTRODUCTION

The stiffness test and flexibility test are done together to see how well shingles perform in different conditions. The stiffness test checks how well the shingle resists bending, helping it keep its shape and stand up to weather stress. On the other hand, the flexibility test looks at how well the shingle can bend without breaking, especially in cold weather when shingles tend to get brittle. These tests work hand in hand to give a full picture of how the shingle will perform in various climates and during installation. It's important to find the right balance between stiffness and flexibility so the shingles can:

- Stay in shape during hot weather or high winds.
- Avoid cracking in cold weather, where they can become brittle.
- Be easier to install, since overly stiff shingles are hard to handle, and too-flexible ones may not stay in place securely.

CONCLUSION

- Fresh Roof, with its GreenSoy technology, makes aged shingles both more flexible and stiffer, giving them better protection and a longer lifespan. It boosts the flexibility of older shingles by 50%, helping them bend without breaking, especially in cold climates where cracking can be a problem. At the same time, Fresh Roof increases stiffness by 85%, which is important for preventing warping or bending during bad weather like strong winds or heavy rain.
- Unlike other products that may focus on one aspect but hurt the other, Fresh Roof improves both flexibility and stiffness. This keeps your shingles strong, flexible, and durable, helping them last longer and reducing the need for constant repairs.

