

## DECLARATION OF PERFORMANCE

Document Reference No.: EU-DoP-IN-2016-1

1. **Unique identification code of the product-type:** Independence™
2. **Intended use / uses:** Water-shedding element on walls, ceilings, soffits, and pitched roofs and as a protective covering to the wall structure, ceiling structure or roof deck from weathering elements such as rain, snow, ice, windborne dust, UV radiation and other matters. The bitumen shingles are designed for inclined roofing on roof slopes greater than 9,5°. Low-slope applications (9,5° to 18,5°) require additional underlayment. Roof surfaces are not accessible without protection and security assessment. The product is not assessed for slipperiness.
3. **Manufacturer:** CertainTeed Corporation  
20 Moores Road  
Malvern PA 19355 USA
4. **Authorized representative:** not relevant
5. **System/s of AVCP:** 4
- 6a. **Harmonized standard:** not relevant  
**Notified body/ies:** not relevant
- 6b. **European Assessment Document:** 220020-00-0402  
**European Technical Assessment:** ETA 16/0029  
**Technical Assessment Body:** Technický a skúšobný ústav stavebný, n. o.  
**Notified Body/ies:** not relevant
7. **Declared performance:**

Essential characteristics	Performance
Reaction to fire	Class F
External fire performance	Class F <sub>ROOF</sub>
Content and/or release of dangerous substances	The product does not contain/release dangerous substances specified in TR 034
Water permeability of the roof covering <ul style="list-style-type: none"> <li>- Mass of bitumen</li> <li>- Geometric properties               <ul style="list-style-type: none"> <li>o Width</li> <li>o Height</li> <li>o Straightness</li> <li>o Squareness</li> </ul> </li> </ul>	$960 \pm 150 \text{ g/m}^2$ (<1300 g/m <sup>2</sup> )  $915 \pm 3 \text{ mm}$ $306 \pm 3 \text{ mm}$ $-2,0 < e < 2,0$ $d < 2$
Durability of water permeability (of the roof covering): <ul style="list-style-type: none"> <li>o Flow resistance at elevated temperature</li> <li>o Adhesion of mineral granules and flakes of slate</li> <li>o Water absorption</li> </ul>	$\leq 2 \text{ mm}$ $\leq 2,5 \text{ g}$ $< 2\%$

Essential characteristics	Performance
Resistance to blistering (freeze/thaw resistance)	No surface defects or cracks
Packaging	Underside surfacing shall be such that the shingles may be removed individually from their packaging without being damaged. Free of visible defects.
Mechanical resistance: <ul style="list-style-type: none"> <li>○ Tensile strength (width)</li> <li>○ Tensile strength (height)</li> <li>○ Nail shank tear resistance</li> </ul>	$\geq 400$ N/50 mm $\geq 400$ N/50 mm $\geq 100$ N
Durability of mechanical resistance <ul style="list-style-type: none"> <li>– Resistance to UV radiation               <ul style="list-style-type: none"> <li>○ Tensile strength (in the direction of the shingle height)</li> <li>○ Tensile strength (in the direction of the shingle width)</li> <li>○ Nail shank tear resistance</li> </ul> </li> <li>– Resistance to heat aging               <ul style="list-style-type: none"> <li>○ Flow resistance at elevated temperature</li> <li>○ Adhesion of mineral granules and flakes of slate</li> <li>○ Tensile strength (in the direction of the shingle height)</li> <li>○ Tensile strength (in the direction of the shingle width)</li> <li>○ Nail shank tear resistance</li> </ul> </li> </ul>	No cracking or fissuring $\geq 400$ N/50 mm $\geq 400$ N/50 mm $\geq 100$ N  $\leq 2$ mm $\leq 2,5$ g $\geq 400$ N/50 mm $\geq 400$ N/50 mm $\geq 100$ N

8. **Appropriate Technical Documentation and/or Specific Technical Documentation:** not relevant

**Signed for and on behalf of the manufacturer by:** Kermit Stahl, Director

**At:** Malvern, PA

**Signature:**  \_\_\_\_\_ **Date:** 25 April 2016