



*RiverGarden*

SOLUÇÃO DE PELÍCULAS DE PROTEÇÃO CONTRA INTRUSÃO

# 3M™ Safety & Security Film ULTRA S600

## Description

**3M™ Safety Film Ultra S600** is designed for use on the inside surface of windows. This film has a unique multilayer construction. Ultra Safety Films are 32 times more resistant against tearing than other safety films of the same thickness. Therefore the resistance of glass / film to penetration is significantly increased.

**3M™ Safety Films** provide an effective protection from injuries or damage to items caused by fragments of broken glass. In case of glass breakage the fragments are held together by the strong acrylics adhesive system.

**3M™ Safety Film Ultra S 600** has been tested and approved according to EN 12600 (Pendulum test). It is classed as 1B1 on 4 and 6 mm float glass.

## Features (on 6 mm clear glass)

UV rays blocked: 98 %

## Structure of the film

Thickness: 0,150 mm/ 150 µm  
 Colour: Clear  
 Material of the film: Polyester  
 Adhesive: Pressure sensitive acrylic  
 Top coating: Scratch resistant hard coat

## Installation

**3M Window films** are installed using a water and soap solution. Full adhesion is reached after approximately 20 days at 18°C (in dry conditions).

## Cleaning

**3M Window films** may be cleaned 30 days after installation using ordinary window cleaning agents and avoiding the use of abrasive particles. Do not use rough sponges, cloths or brushes. Synthetic sponges, soft wipes or rubber squeegee cleaners are recommended.

Glass type	Film Type	Visible Light Transmitted %	Visible Light Reflected Interior %	Tensile Strength ASTM D882-95a	Elongation at break ASTM D882-95a	Break strength ASTM D882-95a	Puncture Propagation ASTM D2582-03	Tear Resistance ASTM D 1004-95a
<b>Single Pane Pane</b>				N/ 25,4 mm	N/25,4 mm	N/25,4mm		
Clear	No Film <b>Ultra S600</b>	89 <b>84</b>	9 <b>10</b>	206 N/mm <sup>2</sup>	140 %	81 kg	8,71 kg	>521 kg
Tinted	No Film <b>Ultra S600</b>	47 <b>47</b>	9 <b>6</b>	206 N/mm <sup>2</sup>	140%	81 kg	8,71 kg	>521 kg
<b>Double Pane</b>								
Clear	No Film <b>Ultra S600</b>	79 <b>73</b>	15 <b>18</b>	206 N/mm <sup>2</sup>	140%	81 kg	8,71 kg	>521 kg
Tinted	No Film <b>Ultra S600</b>	47 <b>41</b>	13 <b>8</b>	206 N/mm <sup>2</sup>	140%	81 kg	8,71 kg	>521 kg

## General notes:

**All 3M Safety films** have been tested to EN12600 and/or EN356 as appropriate. For detailed information and relevant certification for any specific project, please contact your local 3M specialist.

All technical data is based on a combination of relevant European test methods and/or US test methods. Before using this product the customer / applicator must ensure the product is suitable to be used for the intended purpose. If there is any uncertainty, please check with your local 3M Window Film specialist. All issues



Renewable energy Division  
 Window Films  
[www.3M.com/windowfilms](http://www.3M.com/windowfilms)

Your local Window Film Dealer:



regarding warranty and liability for the product and the effect of its use are governed in accordance with the provisions of the appropriate contract of sale unless local laws dictate otherwise.

## 3M™ Safety & Security Film

### ULTRA S600

- Increases protection from flying or broken glass.
- Deters smash and grab burglaries.
- Reduces fading from UV light.
- Helps preserve the appearance of furniture and fabrics.
- Has an abrasion resistant surface to maintain a good appearance for longer.
- Easy to remove without adhesive residues.



# *RiverGarden*

TECHNOLOGY FOR YOU

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