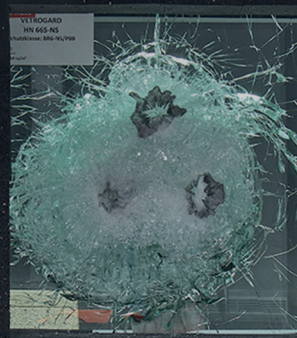


On the safe side.

# Product Overview

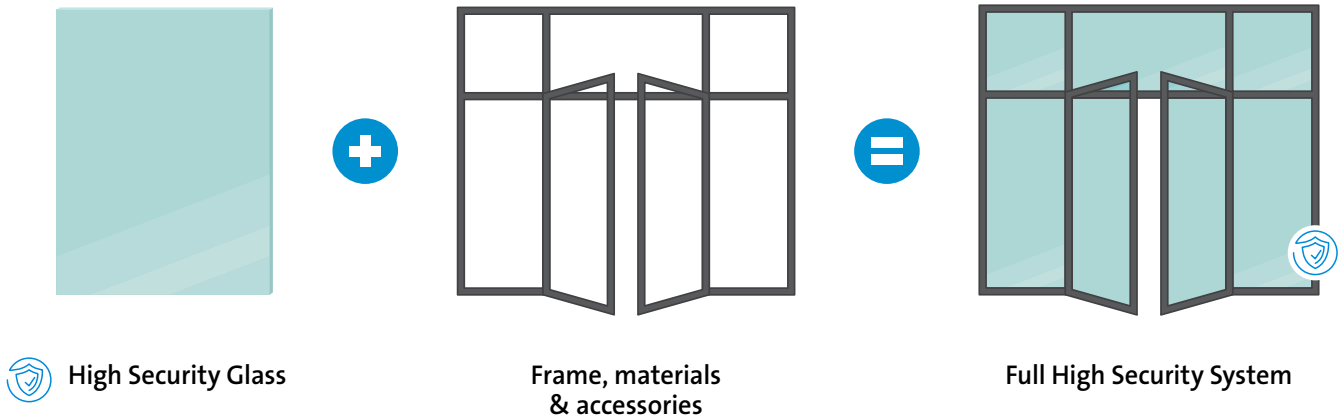
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VETROGARD®  
High-Security Glass  
Solutions



***vetrotech***  
SAINT-GOBAIN

# Each component of a system must be part of a tested solution !



## VETROGARD® Bullet resistance

|           | Bullet resistant       |                       |                |                |                |                 |                  |                    |         | AVCP System 1 |
|-----------|------------------------|-----------------------|----------------|----------------|----------------|-----------------|------------------|--------------------|---------|---------------|
|           | Classification EN 1063 | Classification EN 356 | Thickness (mm) | Weight (kg/m²) | Max width (mm) | Max height (mm) | Max surface (m²) | Light transmission | U-Value | Ref. number   |
| VETROGARD | BR1-S                  | P6B                   | 21             | 45             | 2400           | 5000            | 12               | 87%                | 4,8     | 4313210       |
|           | BR2-S                  |                       | 26             | 62             | 2400           | 5000            | 12               | 85%                | 5,0     | 4313200       |
|           | BR3-S                  | P8B                   | 27             | 57             | 2400           | 5000            | 12               | 85%                | 4,5     | 4313380       |
|           | BR4-S SG1-S            | P8B                   | 35             | 80             | 2400           | 5000            | 12               | 83%                | 4,5     | 4313350       |
|           | BR5-S                  | P8B                   | 36             | 84             | 2400           | 4000            | 9,6              | 82%                | 4,5     | 4313360       |
|           | BR6-S SG2-S            | P8B                   | 51             | 121            | 2400           | 5000            | 12               | 79%                | 4,1     | 4313530       |
|           | BR1-NS                 |                       | 22             | 52             | 2400           | 5000            | 12,0             | 86%                | 5,1     | 4313110       |
|           | BR2-NS                 |                       | 33             | 78             | 2200           | 4000            | 8,8              | 83%                | 4,7     | 4313890       |
|           | BR3-NS BR4-NS          | P8B                   | 43             | 103            | 2200           | 4000            | 8,8              | 81%                | 4,4     | 4313430       |
|           | BR5-NS                 | P8B                   | 58             | 139            | 2200           | 4000            | 8,8              | 77%                | 4,1     | 4314650       |
|           | BR6-NS                 | P8B                   | 65             | 158            | 2200           | 4000            | 8,8              | 75%                | 4,0     | 4313650       |
|           | BR6-NS SG2-NS          | P8B                   | 73             | 175            | 2200           | 4000            | 8,5              | 74%                | 3,8     | 4313770       |
|           | BR7-NS SG2-NS          | P8B                   | 81             | 196            | 2200           | 4000            | 7,6              | 72%                | 3,7     | 4313840       |

VETROGARD products are also available as insulating glass-units Climaplus.

|                     | Bullet resistant       |                       |                |                |                |                 |                  |                    |         | AVCP System 1 |
|---------------------|------------------------|-----------------------|----------------|----------------|----------------|-----------------|------------------|--------------------|---------|---------------|
|                     | Classification EN 1063 | Classification EN 356 | Thickness (mm) | Weight (kg/m²) | Max width (mm) | Max height (mm) | Max surface (m²) | Light transmission | U-Value | Ref. number   |
| VETROGARD CLIMAPLUS | BR4-S                  | P7B                   | 38             | 64             | 2400           | 4000            | △                | 77%                | 1,4     | 5110344       |
|                     | BR3-NS                 | P8B                   | 49             | 88             | 2200           | 4000            | △                | 75%                | 1,2     | 5110349       |
|                     | BR4-NS                 | P8B                   | 58             | 114            | 2200           | 4000            | △                | 72%                | 1,3     | 5110459       |
|                     | BR6-NS SG2-NS          | P8B                   | 78             | 147            | 2200           | 4000            | △                | 69%                | 1,0     | 5110330       |
|                     | BR7-NS SG2-NS          | P8B                   | 88             | 193            | 2091           | 4000            | △                | 66%                | 1,3     | 5110301       |

△ Contact us for max surface and thickness.

VETROGARD Bullet is available in two variants:  
S = Splintering and NS = Non-Splintering  
S: No perforation of glazing by the bullet but with perforation of witness foil by glass splinters from the rear face.  
NS: No perforation of glazing by the bullet and no perforation of witness foil by glass splinters from the rear face.

## VETROGARD® Attack resistance

|           | Attack resistant      |                |                |                |                 |                  |               |         | AVCP System 3 |
|-----------|-----------------------|----------------|----------------|----------------|-----------------|------------------|---------------|---------|---------------|
|           | Classification EN 356 | Thickness (mm) | Weight (kg/m²) | Max width (mm) | Max height (mm) | Max surface (m²) | Light Transm. | U-Value | Ref. number   |
| VETROGARD | P6B                   | 15             | 33             | 2400           | 5000            | 12               | 88%           | 5,1     | 4311060       |
|           | P7B                   | 22             | 50             | 2400           | 5000            | 12               | 86%           | 4,7     | 4311070       |
|           | P8B                   | 27             | 58             | 2400           | 5000            | 12               | 85%           | 4,5     | 4311080       |

VETROGARD products are also available as insulating glass-units Climaplus.

## VETROGARD® Blast resistance

|           | Blast resistant         |                |                |                |                 |                  |               |         | AVCP System 1 |
|-----------|-------------------------|----------------|----------------|----------------|-----------------|------------------|---------------|---------|---------------|
|           | Classification EN 13541 | Thickness (mm) | Weight (kg/m²) | Max width (mm) | Max height (mm) | Max surface (m²) | Light Transm. | U-Value | Ref. number   |
| VETROGARD | ER1-S                   | 10             | 22             | 900            | 1100            | 9,6              | 89%           | 5,4     | 4312100       |
|           | ER2-S                   | 18             | 40             | 900            | 1100            | 9,6              | 87%           | 5,0     | 4312190       |
|           | ER3-S                   | 31             | 73             | 900            | 1100            | 9,6              | 84%           | 4,7     | 4312310       |
|           | ER4-S                   | 27             | 68             | 900            | 1100            | 12               | 85%           | 4,5     | 4312270       |
|           | ER1-NS                  | 18             | 40             | 900            | 1100            | 12               | 87%           | 5,1     | 4312180       |
|           | ER2-NS                  | 26             | 63             | 900            | 1100            | 9,6              | 84%           | 4,9     | 4312260       |
|           | ER4-NS                  | 33             | 78             | 900            | 1100            | 12               | 83%           | 4,7     | 4312330       |

- Key Technical Information:
- Climaplus insulation glass units offer excellent U-values and solar control factors based on special coatings and gas-filled cavities, resulting in reduced energy costs in both summer and winter.
  - AVCP = Assessment and Verification of Constancy of Performance.
  - For more details, please refer to the brochure.



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VETROTECH SAINT-GOBAIN INTERNATIONAL AG  
Industriestrasse 44 / 3175 Flamatt / Switzerland  
Phone +41 31 336 81 81

For more information, please visit [WWW.VETROTECH.COM](http://WWW.VETROTECH.COM)

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