



# ARS GLASS TECH PVT. LTD.

## SOLAR MIRRORS

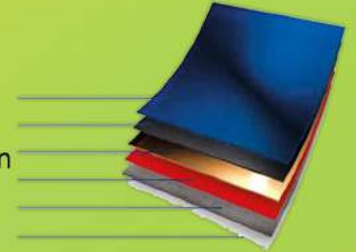
### A Developer & Innovative Company

#### PRODUCT DESCRIPTION

**Type :** Extra clear glass mirror  
(silver, copper, 2 paint layers)

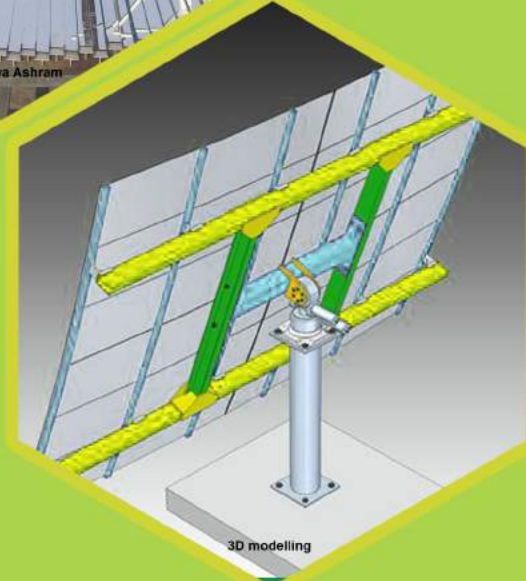
**Applications :** Tower or Fresnel

Glass  
Silver  
Copper/ sanitization  
Prime Coat  
Top Coat



ARS solar developed a range of solar mirror using special coating with side sealing, these mirror have been designed to provide you with highest passed reflection & the required durability.

During development, Solar Mirror products undergo a series of stringent durability tests to ensure that they are fit for a lifetime of exposure outdoors.



# Mirror Specifications

## MAIN CHARACTERISTICS

|   |               |
|---|---------------|
| Energy reflectivity (%) - Low iron glass    | 4 mm up to 90 |
| Energy reflectivity (%) - Extra clear glass | 4 mm up to 93 |
| Specific weight (kg/m <sup>2</sup> )        | 3 mm 7.5 kg   |
| Specific weight ((kg/m <sup>2</sup> )       | 4 mm 10.0 kg  |
| Typical length                              | Up to 2440 mm |
| Typical Width                               | Up to 3660 mm |
| Other dimensions and thickness available    |               |

## DURABILITY TESTS

|                    |        |   |
|--------------------|--------|---|
| Humid chamber      | passed | EN1036                                    |
| Neutral salt spray | passed | EN 1036/ ISO 9227                         |
| CASS               | passed | EN 1036/ ISO 9227                         |
| Weather O Meter    | Passed | Combination of light, Temperature & Water |
| UV resistance      | Passed | UVA 340 at 60°C, 39W/m <sup>2</sup>       |

## MECHANICAL CHARACTERISTICS- NOT LAMINATED

|                              |                         |                       |
|------------------------------|-------------------------|-----------------------|
| Emissivity (Corrected)       | 0,837                   | As per EN 572-1: 2012 |
| Mechanical strength          | 7 × 10 <sup>10</sup> Pa | As per EN 572-1: 2012 |
| Young modulus                | 70(Gpa)                 | As per EN 572-1: 2012 |
| Poisson ratio                | 0,2                     | As per EN 572-1: 2012 |
| Knoop (indentation hardness) | 6 Gpa 8                 | As per EN 572-1: 2012 |
| Density (kg/m <sup>3</sup> ) | 2500                    | As per EN 572-1: 2012 |

## THERMAL CHARACTERISTICS

|  |                         |                       |
|--|-------------------------|-----------------------|
| Normal value of average co efficient of linear expansionbetween 20 Deg C and 300 Deg C | 9 x 10 <sup>-6</sup> /K | As per EN 572-1: 2012 |
| Thermal conductivity (W/M/K)   | 1                       | As per EN 572-1: 2012 |
| Softening point (°C)   | 722                     |                       |
| Annealing point (°C)   | 552                     |                       |
| Strain point (°C)  | 500                     |                       |

## CHEMICAL COMPOSITION

|   |              |                       |
|---|--------------|-----------------------|
| Silicon dioxide (SiO <sub>2</sub> , %)              | 69 % to 74 % | As per EN 572-1: 2012 |
| Calcium oxide (CaO, %)                              | 5 % to 14 %  | As per EN 572-1: 2012 |
| Sodium oxide (Na <sub>2</sub> O, %)                 | 10 % to 16 % | As per EN 572-1: 2012 |
| Magnesium oxide (MgO, %)                            | 0 % to 6 %   | As per EN 572-1: 2012 |
| Aluminium oxide (Al <sub>2</sub> O <sub>3</sub> ,%) | 0 % to 3 %   | As per EN 572-1: 2012 |
| Other %   | 0 % to 5 %   | As per EN 572-1: 2012 |

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