# Ridder Light Diffusion Screens Open (RLD 45 O)

| Product information | |
|---|---|
| Application | Inside |
| Main Function | High-quality diffuse daylight with ventilation |
| System | Sliding and Hanging |
| Composition | 47% Polyolefin, 53% Polyester |
| Pattern | 2 white diffuse, 1 open, 1 white diffuse, 1 open |
| Yarn | White yarns |
| Flame retardant | No, |
| Warranty | Five years under all types of greenhouse covering, see Ridder Climate Screens limited warranty. |

| Mechanical properties | Value | Testing method |
|---|---|---|
| Screen weight | 65 gr/m2 | |
| Width of strips | 4 mm | |

| Physical properties | Value | Testing method |
|---|---|---|
| Shading level in direct light PAR* | 46 % | Ridder Climate Screens method |
| Shading level in diffused light PAR* | 50 % | Ridder Climate Screens method |
| Energy saving* | 18 % | Ridder Climate Screens method |

**PAR = 400 - 700 nm, accuracy +/- 1%*

When daylight is distributed better and can penetrate further into the greenhouse, this benefits the quality and consistency of the crop. In addition, diffuse and indirect light reduces the risk of leaf scorching and plant stress. This maximizes crop health, resulting in higher yields. Ridder Light-Diffusion Screens have been specially developed to distribute sunlight over the crop as efficiently as possible. In addition to better light distribution, the screen also ensures a milder climate in the greenhouse.

Many crops grown in a range of climates benefit from diffuse light. That's why our diffusion screens come in two variants, one with an open structure and one with a closed structure. This enables growers in both warm and cold climates to provide the best light for their crops.

| Screentype | Material | | Composition | | Shading level* | | NEN 2675:2018 | | | Energy saving* | NTA Class | Weight |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Strips | Yarn | Polyolefin | Polyester | Direct | Diffuse | Direct | Diffuse | Horti Scatter | | | gr/m2 |
| **Ridder Light Diffusion Screens Open** | | | | | | | | | | | | |
| RLD 15 FR O | PET | PET | | 100% | 13% | 25% | - | - | 34,4% | 16% | 1 | 52 |
| RLD 25 FR O | PET | PET | | 100% | 26% | 30% | 33,5% | 40,2% | 32,7% | 18% | 1 | 54 |
| RLD 35 FR O | PET | PET | | 100% | 35% | 36% | 41,7% | 47,4% | 31,2% | 18% | 1 | 57 |
| RLD 45 FR O | PET | PET | | 100% | 46% | 50% | 53,6% | 57,2% | 30,8% | 18% | 1 | 60 |
| RLD 55 FR O | PET | PET | | 100% | 53% | 56% | 63,8% | 66,8% | 44,1% | 18% | 1 | 66 |
| RLD 25 O | PE | PET | 45% | 55% | 26% | 30% | - | - | - | 18% | - | 64 |
| RLD 35 O | PE | PET | 45% | 55% | 35% | 36% | - | - | - | 18% | - | 64 |
| RLD 45 O | PE | PET | 47% | 53% | 46% | 50% | - | - | - | 18% | - | 65 |
| RLD 55 O | PE | PET | 52% | 48% | 53% | 56% | - | - | - | 18% | - | 73 |
| **Ridder Ligth Diffusion Screens Open External** | | | | | | | | | | | | |
| RLD 45 O E | PE | PE | 100% | | 39% | 48% | - | - | - | 15% | - | 120 |
| RLD 55 O E | PE | PE | 100% | | 51% | 54% | - | - | - | 18% | - | 140 |
| RLD 65 O E | PE | PE | 100% | | 60% | 64% | - | - | - | 20% | - | 180 |

| Side Hanging cloth for RES, RLD & RSS cloths | Material | Length of roll | Shading level* | | NEN 2675:2018 | | | Energy saving* | NTA Class | gr/m2 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Direct | Diffuse | Direct | Diffuse | Horti Scatter | | | |
| Ridder White FR | Polyester | ± 150,00m | 55% | 55% | - | - | - | 43% | 1 | 195 |

**According to Ridder Climate Screens*