Why should your customers have to bother with window blinds or darkening the room, when you can offer them light resistant screens? HiCon screen material frees your customers from the confinement of dark projection rooms and let them experience clear, high-contrast images even in daylight or with the lights turned on.

> High-contrast images in rooms with high levels of ambient light
> Enhanced colour reproduction, broader colour gamut
> ISF certified screen material
> Scratch resistant easy-clean surface

Lens system blocks ambient light
HiCon is a contrast-enhancing screen material that protects against the effects of ambient light on front projection screens. The screen material comprises a miniature overlay of lenticular lenses. Invisisble to the naked eye this lens system blocks out unwanted light hitting the screen from other angles than from the projector itself.

The result is that screens with HiCon material delivers up to six times better image contrast than standard screens. It is the first screen material that makes it possible to meet the 15:1 contrast level in brightly lit meeting rooms, which are specified by the InfoComm PISCR standard.

Delivering contrast ratios way above what is achievable with standard projection screens, the HiCon screen material opens the door to attractive markets. Applications include high-end home theatres and multi-purpose projection rooms for the residential market as well as meeting rooms or classrooms.

Lens design
The ultrathin screen material is made up of several layers, each with their own optical properties. The lens system admits projected light to pass through and to be reflected back towards the viewer. Meanwhile, unwanted light hitting the screen from other angles is blocked out and absorbed.
HiCon™ ambient light filter

**Product specifications**
ISF certified HiCon BS 08-85 is ideal for wide seating arrangements. It can be used with one projector or multiple projectors in horizontal edgeblending solutions. Available as roll or sheets.

**HiCon material dimensions**

<table>
<thead>
<tr>
<th>TYPE</th>
<th>HiCon BS 08-85</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peak Gain</td>
<td>0.8</td>
</tr>
<tr>
<td>Horizontal half-gain</td>
<td>85°</td>
</tr>
<tr>
<td>Lens pitch (micron)</td>
<td>65</td>
</tr>
<tr>
<td>Thickness (mm)</td>
<td>0.292 +/- 0.040</td>
</tr>
<tr>
<td>Total height (mm)</td>
<td>1,590 +/- 3.0</td>
</tr>
<tr>
<td>Max. efficient image height (mm)</td>
<td>1,530 +/- 3.0</td>
</tr>
<tr>
<td>Max. width per sheet (mm)</td>
<td>3,900 +/- 3.0</td>
</tr>
<tr>
<td>Max. width per roll (m)</td>
<td>500</td>
</tr>
</tbody>
</table>

Subject to change without notice. Please check specification at time of ordering.

**Applications with fixed frame or rollable products**
The HiCon screen material can be laminated onto a rigid surface or used as is in both fixed-frame and rollable screen products.

Production samples are available for testing.

For more details, please contact dnp@dnp.dk

**HiCon BS shipping, storage and production conditions**

**Temperature 10-50°C (50-122°F)**

- DO NOT EXCEED 65°C (149°F) or foil can get permanent damage!
- Recommended storage at normal operating condition, 20-30°C (68-86°F)
- Recommended storage at stable temperature +/- 5°
- Avoid freezing

**Humidity < 70%RH**

- Recommended storage at as low humidity as possible
- Recommended storage at stable humidity +/- 10%RH

**HiCon BS operating conditions**

**Temperature 10-40°C (50-104°F)**

- Recommendation depends on screen type

**Humidity < 70%RH**

- Recommendation depends on screen type

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**CORRESPONDING FORMATS AND DIAGONALS**

<table>
<thead>
<tr>
<th>Screen format</th>
<th>Maximum diagonal</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.40:1</td>
<td>155.6”</td>
</tr>
<tr>
<td>16:9</td>
<td>122.1”</td>
</tr>
<tr>
<td>16:10</td>
<td>112.9”</td>
</tr>
<tr>
<td>4:3</td>
<td>99.7”</td>
</tr>
</tbody>
</table>

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**CERTIFICATES**

[RoHS 2002/95/EC] [ISF]

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Fax +45 4616 5200  
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dnp@dnp.dk
HiCon BS 08-85 screen material

Gain

Viewing angle

Horizontal: 85°
Vertical: 15°