Difference between Single silver low-E, double silver low e and triple silver low e

Soft coated low e glass is widely used in modern glass curtain wall. But many designers and owners doesn’t know clearly the difference between single silver low e, double silver low e and triple silver low e.

Here we introduce several main difference to help you identify the different low e coating.

1. LSG. LSG is the ratio between the glass light transmittance and SHGC.

Double silver low e has relatively lower SHGC than triple silver low e based on same light transmittance.

The LSG of single silver low e is around 1.4, while double silver one can be over 1.6-2, triple silver low e LSG can reach 2.2 or even more.

Which means that under the same light transmittance, the double silver low e and triple one can reach lower SC value and transfer the lighting to cold light, low e U value performance.

<table>
<thead>
<tr>
<th>No.</th>
<th>Glass option</th>
<th>Visible Light</th>
<th>Solar Energy</th>
<th>U value(W/2.K)</th>
<th>SC</th>
<th>SHGC</th>
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<td>Ref %</td>
<td>In %</td>
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<td>Rsol %</td>
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2. U value.

Single silver low e value is about 1.7-1.85.

Double and triple silver low e U value is around 1.5-1.65 with better thermal insulation performance.


Double silver low e glass is about USD3-4/SQM higher than single one and triple silver low e is about USD10/sqm higher than double one.

But the cost performance for triple one is not good, so in most cases we recommend double one and the best cost performance low e for glass facade.

Morn is your turnkey low e double glazed units supplier, we offer comprehensive low e coating with different performance data to meet your project requirement.

Hard coated low e VS Soft coated low e

Low E glass processing instruction

Low-e coated tinted glass-advantage and disadvantages

Low-e glass introduction

The defects of coated glass and solution

Difference between single silver low-e, double silver low e and triple silver low e

Low-e coating position: Surface #2 VS surface #3
About Morn Building Materials:

Morn Building Materials Co., Ltd is a trading company offering the right facade materials for a wide range of applications for architectural, design, and system requirements. Cooperating with China's premium glass fabricators, Morn is able to supply whatever glass products applied in facade, spandrel, roof, handrail, partition, balustrade, canopy, greenhouse, sun room, interior exterior application.

Other facade materials: Aluminium alloy profiles, aluminium plates, aluminium windows & doors, Assa Abloy hardware, spider fitting, railing systems, shower rooms, polyurethane panels, machines & tools, steel structure, are also available since 2019.

From aesthetics, to strict environmental and energy specifications, to critical budget and delivery requirements, our input can make a difference.

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