

Single Pane - Clear <100 SF  
 Single Pane - Tinted <100 SF  
 Single Pane - Tempered\* <100 SF  
 Dual-Pane IGU - Clear <40 SF  
 Dual-Pane IGU - Tinted <40 SF  
 Clear Or Tinted <40 SF

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## Spectrally Selective

SS Clear Perspective 80	✓	✓	✓	✓	✓	✓
SS Clear Perspective 70	✓	✓	✓	✓	✓	✓

## Dual Reflective

DR Night View Ceramic 45	✓	✓	✓	✓	✓	✓
DR Night View Ceramic 35	✓	✓	✓	✓	✓	✓
DR Night View Ceramic 25	✓	✓	✓	✓	✓	✓
DR Night View Ceramic 15	✓	✓	✓	✓	✓	✓
DR Night View Ceramic 05	✓	✓	✓	✓	✓	✓
DR Night View 45	✓	✓	✓	✓	✓	✓
DR Night View 35	✓	✓	✓	✓	✓	✓
DR Night View 25	✓	✓	✓	✓	✓	✓
DR Night View 15	✓	✓	✓	✓	✓	✓
DR Night View 10	✓	✓	✓	✓	✓	✓
DR Night View 05	✓	✓	✓	✓	✓	✓

## Sputtered

SP Sputtered Neutral 60	✓	✓	✓	✓	✓	✓
SP Sputtered Neutral 45	✓	✓	✓	✓	✓	✓
SP Sputtered Neutral 35	✓	✓	✓	✓	✓	✓
SP Sputtered Neutral 20	✓	✓	✓	NO	NO	NO
SP Sputtered Copper Bronze 35	✓	✓	✓	✓	✓	✓
SP Sputtered Copper Bronze 20	✓	✓	✓	✓	✓	✓

## Neutral

NE Neutral 50	✓	✓	✓	✓	✓	✓
NE Neutral 35	✓	✓	✓	✓	✓	✓
NE Neutral 20	✓	✓	✓	NO	NO	NO

## Reflective

RF Silver 68	✓	✓	✓	✓	✓	✓
RF Silver 53	✓	✓	✓	✓	✓	✓
RF Silver 35	✓	✓	✓	✓	✓	✓
RF Silver 15	✓	✓	✓	✓	✓	✓
RF Silver/Grey 15	✓	✓	✓	NO	NO	NO
RF Silver/Green 15	✓	✓	✓	NO	NO	NO
RF Silver/Gold 15	✓	✓	✓	NO	NO	NO
RF Silver/Bronze 15	✓	✓	✓	NO	NO	NO
RF Silver/Blue 15	✓	✓	✓	NO	NO	NO

## Ceramic

CR Pearl Ceramic 76 43ir	✓	✓	✓	✓	✓	✓
CR Pearl Ceramic 68 65ir	✓	✓	✓	✓	✓	✓
CR Pearl Ceramic 67 77ir	✓	✓	✓	✓	✓	✓
CR Pearl Ceramic 58 85ir	✓	✓	✓	✓	✓	✓

## Specialty Decorative

SD Blackout	✓	✓	✓	NO	NO	NO
SD Whiteout	✓	✓	✓	✓	✓	✓
SD Matte White	✓	✓	✓	✓	✓	✓
SD Matte Bronze	✓	✓	✓	✓	✓	✓
SD Matte Grey	✓	✓	✓	✓	✓	✓
SD Matte Silver	✓	✓	✓	✓	✓	✓
SD Graphic Blue	✓	✓	✓	✓	✓	✓
SD Graphic Green	✓	✓	✓	✓	✓	✓
SD Graphic Red	✓	✓	✓	✓	✓	✓
SD Graphic Yellow	✓	✓	✓	✓	✓	✓

## Safety & Security

ST 2 Mil Clear	✓	✓	✓	✓	✓	✓
ST 4 Mil Clear	✓	✓	✓	✓	✓	✓
ST 8 Mil Clear	✓	✓	✓	✓	✓	✓
ST 12 Mil Clear	✓	✓	✓	✓	✓	✓
ST 14 Mil Clear	✓	✓	✓	✓	✓	✓
ST 4 Mil Charcoal 50	✓	✓	✓	✓	✓	✓
ST 4 Mil Charcoal 35	✓	✓	✓	✓	✓	✓
ST 4 Mil Charcoal 20	✓	✓	✓	NO	NO	NO
ST 4 Mil Charcoal 05	✓	✓	✓	NO	NO	NO
ST 4 Mil Silver 15	✓	✓	✓	✓	✓	✓

## Anti-Graffiti

GF 4 Mil Anti-Graffiti Clear	✓	✓	✓	✓	✓	✓
GF 7 Mil Anti-Graffiti Clear	✓	✓	✓	✓	✓	✓

## Anti-Glare

GL Glare Down 70	✓	✓	✓	✓	✓	✓
GL Glare Down 50	✓	✓	✓	✓	✓	✓
GL Glare Down 35	✓	✓	✓	✓	✓	✓
GL Glare Down 20	✓	✓	✓	NO	NO	NO
GL Glare Down 05	✓	✓	✓	NO	NO	NO

Published values are generated from films tested on 1/8" (3mm) thick clear glass. These values are representative of typical production runs, subject to normal manufacturing tolerances within industry standards.

Regardless of the installation rating displayed on the film-to-glass installation guide chart, (EWF catalog #7420) TSF-IGU warranty coverage is NOT AVAILABLE if any of the following conditions exist:

- 1) Any installation over 2,500 square feet, unless written approval has been obtained.
- 2) Any single glass pane totaling more than 100 square feet.
- 3) Any IGU greater than 40 square feet.
- 4) Any glass pane with glass edge dimension greater than 10 feet.
- 5) Any triple or quadruple pane IGU.
- 6) Any single clear glass 3/8 inch or thicker.
- 7) Any single tinted glass 1/4 inch or thicker.
- 8) Any IGU with seal failure prior to installation.
- 9) Any building with a history of glass breakage (TSF) and/or IGU seal failure.
- 10) Any chipped, cracked, scratched or otherwise damaged glass prior to installation.
- 11) Any glass where the film is not installed edge to edge.
- 12) Any glass with more than one window film installed on top of another.
- 13) Any plastic, polycarbonate or non-glass surface.
- 14) Any laminated, round, textured, bent, patterned or wired glass.
- 15) Any glass with paint, lettering and/or vinyl graphics.
- 16) Any framing system of concrete.
- 17) Any framing sealant, glazing compound and/or gasket material that is no longer resilient.
- 18) Any automotive film used for architectural applications will not have warranty coverage unless written approval has been obtained.
- 19) Any glass experiencing up to 25% outside shading, including more than 25% of the glass perimeter.  
(See harmful shading examples below)

## Harmful Shading Examples

