



This REFERENCE GUIDE shows NFRC Certified values for our common glazing configurations. Please contact us if you have a specific glazing requirement not shown.

12/19/2011

1" O.A. - Temp / Temp (1/8" over 1/8")

| | Clear / Clear | | | | Cardinal 272 | | | | Cardinal 366 | | | | Cardinal 240 | | | | Solar Ban 60 | | | | Solar Ban 70XL | | | | Solar Ban 80 | | | |
|--------------|---------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|----------------|-----|------|-----|--------------|-----|------|-----|
| | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT |
| Clear | 320 | .64 | .73 | .78 | 321 | .47 | .39 | .68 | 322 | .46 | .26 | .61 | 323 | .47 | .24 | .38 | 324 | .47 | .37 | .68 | 325 | .46 | .26 | .61 | 326 | .47 | .23 | .46 |
| Solar Grey | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Solar Bronze | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Evergreen | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Azuria | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

1" O.A. - Temp / Lam (1/8" over 1/8" / 0.030 / 1/8")

| | Clear / Clear | | | | Cardinal 272 | | | | Cardinal 366 | | | | Cardinal 240 | | | | Solar Ban 60 | | | | Solar Ban 70XL | | | | Solar Ban 80 | | | |
|--------------|---------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|----------------|-----|------|-----|--------------|-----|------|-----|
| | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT |
| Clear | 343 | .64 | .70 | .76 | 344 | .48 | .39 | .66 | 345 | .47 | .26 | .60 | 346 | .48 | .24 | .37 | 347 | .48 | .36 | .67 | 348 | .47 | .26 | .59 | 349 | .47 | .22 | .45 |
| White | 506 | .62 | .58 | .38 | 507 | .48 | .36 | .34 | 508 | .47 | .24 | .30 | | | | | 510 | .47 | .34 | .34 | 511 | .47 | .24 | .31 | 512 | .47 | .21 | .23 |
| Solar Grey | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Solar Bronze | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Evergreen | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Azuria | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

1" O.A. - Temp / SGP Lam (3/16" over 3/16" / 0.090 / 3/16")

| | Clear / Clear | | | | Cardinal 272 | | | | Cardinal 366 | | | | Cardinal 240 | | | | Solar Ban 60 | | | | Solar Ban 70XL | | | | Solar Ban 80 | | | |
|--------------|---------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|----------------|-----|------|-----|--------------|-----|------|-----|
| | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT |
| Clear | 392 | .62 | .66 | .73 | 393 | .48 | .38 | .64 | 394 | .47 | .26 | .57 | 395 | .48 | .23 | .35 | 396 | .47 | .36 | .65 | 397 | .47 | .26 | .57 | 398 | .47 | .22 | .44 |
| White | 492 | .63 | .63 | .54 | 493 | .48 | .37 | .47 | 494 | .48 | .25 | .42 | 495 | .49 | .23 | .26 | 496 | .48 | .35 | .47 | 497 | .47 | .25 | .42 | 498 | .48 | .21 | .32 |
| Solar Grey | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Solar Bronze | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Evergreen | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Azuria | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

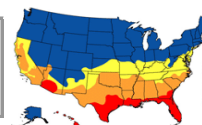
1-5/16" O.A. TRIPLE GLAZED

| | T / T / T SB60 + SB60 | | | | T / T / L SB60 + SB60 | | | |
|--------------|-----------------------|-----|------|-----|-----------------------|-----|------|-----|
| | Line | U | SHGC | VT | Line | U | SHGC | VT |
| Clear | 403 | .32 | .30 | .55 | 424 | .32 | .29 | .54 |
| Solar Grey | | | | | | | | |
| Solar Bronze | | | | | | | | |
| Evergreen | | | | | | | | |
| Azuria | | | | | | | | |

Plastic Glazing Options

| | Double Dome | | | | Triple Dome | | | | Structured Sheet | | | |
|--------|-------------|-----|------|----|-------------|-----|------|----|------------------|-----|------|----|
| | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT |
| Clear | 555 | .66 | .71 | - | 557 | .48 | .64 | - | 556 | .48 | .54 | - |
| White | 555 | .66 | .49 | - | 557 | .48 | .45 | - | 556 | .48 | .39 | - |
| Bronze | 555 | .66 | .39 | - | 557 | .48 | .32 | - | 556 | .48 | .39 | - |

Blue Values indicates ENERGY STAR compliance in the Northern Climate Zone



| Climate Zone | U-Factor ¹ | SHGC ² |
|---------------|-----------------------|-------------------|
| Northern | ≤ 0.55 | Any |
| North-Central | ≤ 0.55 | ≤ 0.40 |
| South-Central | ≤ 0.57 | ≤ 0.30 |
| Southern | ≤ 0.70 | ≤ 0.30 |





This REFERENCE GUIDE shows NFRC Certified values for our common glazing configurations. Please contact us if you have a specific glazing requirement not shown.



12/19/2011

1" O.A. - Temp / Temp (1/8" over 1/8")

| | Clear / Clear | | | | Cardinal 272 | | | | Cardinal 366 | | | | Cardinal 240 | | | | Solar Ban 60 | | | | Solar Ban 70XL | | | | Solar Ban 80 | | | |
|--------------|---------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|----------------|-----|------|-----|--------------|-----|------|-----|
| | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT |
| Clear | 1 | .67 | .78 | .82 | 2 | .49 | .42 | .72 | 3 | .49 | .28 | .65 | 4 | .50 | .26 | .40 | 5 | .49 | .39 | .73 | 6 | .49 | .28 | .64 | 7 | .49 | .24 | .49 |
| Solar Grey | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Solar Bronze | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Evergreen | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Azuria | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

1" O.A. - Temp / Lam (1/8" over 1/8" / 0.030 / 1/8")

| | Clear / Clear | | | | Cardinal 272 | | | | Cardinal 366 | | | | Cardinal 240 | | | | Solar Ban 60 | | | | Solar Ban 70XL | | | | Solar Ban 80 | | | |
|--------------|---------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|----------------|-----|------|-----|--------------|-----|------|-----|
| | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT |
| Clear | 24 | .67 | .75 | .80 | 25 | .50 | .41 | .70 | 26 | .50 | .27 | .63 | 27 | .51 | .26 | .39 | 28 | .50 | .39 | .71 | 29 | .49 | .28 | .63 | 30 | .50 | .24 | .48 |
| White | 187 | .65 | .62 | .41 | 188 | .50 | .38 | .36 | 189 | .50 | .26 | .32 | | | | | 191 | .50 | .36 | .36 | 192 | .49 | .26 | .33 | 193 | .50 | .22 | .24 |
| Solar Grey | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Solar Bronze | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Evergreen | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Azuria | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

1" O.A. - Temp / SGP Lam (3/16" over 3/16" / 0.090 / 3/16")

| | Clear / Clear | | | | Cardinal 272 | | | | Cardinal 366 | | | | Cardinal 240 | | | | Solar Ban 60 | | | | Solar Ban 70XL | | | | Solar Ban 80 | | | |
|--------------|---------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|----------------|-----|------|-----|--------------|-----|------|-----|
| | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT |
| Clear | 73 | .65 | .70 | .77 | 74 | .50 | .40 | .68 | 75 | .50 | .27 | .61 | 76 | .51 | .24 | .37 | 77 | .50 | .38 | .68 | 78 | .49 | .27 | .61 | 79 | .49 | .23 | .46 |
| White | 173 | .66 | .67 | .57 | 174 | .51 | .39 | .50 | 175 | .50 | .27 | .45 | 176 | .51 | .24 | .27 | 177 | .50 | .37 | .50 | 178 | .50 | .27 | .45 | 179 | .50 | .23 | .34 |
| Solar Grey | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Solar Bronze | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Evergreen | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Azuria | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

1-5/16" O.A. TRIPLE GLAZED

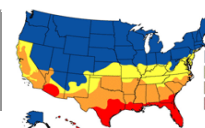
| | T / T / T SB60 + SB60 | | | | T / T / L SB60 + SB60 | | | |
|--------------|-----------------------|-----|------|-----|-----------------------|-----|------|-----|
| | Line | U | SHGC | VT | Line | U | SHGC | VT |
| Clear | 84 | .34 | .32 | .58 | 105 | .34 | .31 | .57 |
| Solar Grey | | | | | | | | |
| Solar Bronze | | | | | | | | |
| Evergreen | | | | | | | | |
| Azuria | | | | | | | | |

Plastic Glazing Options

NOTE: VT Values are Not NFRC Certified

| | Double Dome | | | | Triple Dome | | | | Structured Sheet | | | |
|--------|-------------|-----|------|-----|-------------|-----|------|-----|------------------|-----|------|-----|
| | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT |
| Clear | 236 | .68 | .75 | .73 | 238 | .50 | .68 | .63 | 237 | .51 | .57 | .55 |
| White | 236 | .68 | .52 | .41 | 238 | .50 | .48 | .30 | 237 | .51 | .41 | .26 |
| Bronze | 236 | .68 | .41 | .21 | 238 | .50 | .34 | .18 | 237 | .51 | .41 | .23 |

Blue Values indicates ENERGY STAR compliance in the Northern Climate Zone



| Climate Zone | U-Factor ¹ | SHGC ² |
|---------------|-----------------------|-------------------|
| Northern | ≤ 0.55 | Any |
| North-Central | ≤ 0.55 | ≤ 0.40 |
| South-Central | ≤ 0.57 | ≤ 0.30 |
| Southern | ≤ 0.70 | ≤ 0.30 |





This REFERENCE GUIDE shows NFRC Certified values for our common glazing configurations. Please contact us if you have a specific glazing requirement not shown.

NFRC Thermal Properties **REFERENCE GUIDE**
3921 Fixed Skylight
 NFRC CPD: CRY-M-9

12/19/2011

1" O.A. - Temp / Temp (1/8" over 1/8")

| | Clear / Clear | | | | Cardinal 272 | | | | Cardinal 366 | | | | Cardinal 240 | | | | Solar Ban 60 | | | | Solar Ban 70XL | | | | Solar Ban 80 | | | |
|--------------|---------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|----------------|-----|------|-----|--------------|-----|------|-----|
| | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT |
| Clear | 80 | .71 | .71 | .75 | 81 | .54 | .38 | .65 | 82 | .53 | .26 | .59 | 83 | .54 | .24 | .36 | 394 | .55 | .36 | .66 | 395 | .54 | .26 | .59 | 396 | .54 | .22 | .45 |
| Solar Grey | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Solar Bronze | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Evergreen | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Azuria | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

1" O.A. - Temp / Lam (1/8" over 1/8" / 0.030 / 1/8")

| | Clear / Clear | | | | Cardinal 272 | | | | Cardinal 366 | | | | Cardinal 240 | | | | Solar Ban 60 | | | | Solar Ban 70XL | | | | Solar Ban 80 | | | |
|--------------|---------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|----------------|-----|------|-----|--------------|-----|------|-----|
| | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT |
| Clear | 94 | .70 | .68 | .73 | 95 | .54 | .38 | .64 | 96 | .54 | .25 | .57 | 97 | .55 | .24 | .36 | 403 | .55 | .36 | .64 | 404 | .55 | .26 | .57 | 405 | .55 | .22 | .43 |
| White | 188 | .69 | .57 | .37 | 189 | .54 | .35 | .32 | 190 | .54 | .24 | .29 | | | | | 472 | .55 | .33 | .33 | 473 | .54 | .24 | .30 | 474 | .55 | .21 | .22 |
| Solar Grey | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Solar Bronze | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Evergreen | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Azuria | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

1" O.A. - Temp / SGP Lam (3/16" over 3/16" / 0.090 / 3/16")

| | Clear / Clear | | | | Cardinal 272 | | | | Cardinal 366 | | | | Cardinal 240 | | | | Solar Ban 60 | | | | Solar Ban 70XL | | | | Solar Ban 80 | | | |
|--------------|---------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|----------------|-----|------|-----|--------------|-----|------|-----|
| | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT |
| Clear | 122 | .69 | .64 | .70 | 123 | .54 | .37 | .62 | 124 | .54 | .25 | .55 | 125 | .55 | .23 | .34 | 424 | .55 | .35 | .62 | 425 | .54 | .25 | .55 | 426 | .54 | .22 | .42 |
| White | 180 | .70 | .61 | .52 | 181 | .55 | .36 | .45 | 182 | .54 | .24 | .41 | 183 | .55 | .22 | .25 | 466 | .55 | .34 | .46 | 467 | .55 | .24 | .41 | 468 | .55 | .21 | .31 |
| Solar Grey | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Solar Bronze | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Evergreen | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Azuria | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

1-5/16" O.A. TRIPLE GLAZED

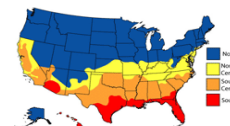
| | T / T / T SB60 + SB60 | | | | T / T / L SB60 + SB60 | | | |
|--------------|-----------------------|-----|------|-----|-----------------------|-----|------|-----|
| | Line | U | SHGC | VT | Line | U | SHGC | VT |
| Clear | 427 | .40 | .29 | .53 | 436 | .40 | .29 | .52 |
| Solar Grey | | | | | | | | |
| Solar Bronze | | | | | | | | |
| Evergreen | | | | | | | | |
| Azuria | | | | | | | | |

Plastic Glazing Options

NOTE: VT Values are Not NFRC Certified

| | Double Dome | | | | Triple Dome | | | | Structured Sheet | | | |
|--------|-------------|-----|------|-----|-------------|-----|------|-----|------------------|-----|------|-----|
| | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT |
| Clear | 234 | .75 | .68 | .70 | 236 | .57 | .62 | .60 | 235 | .57 | .52 | .53 |
| White | 234 | .75 | .47 | .39 | 236 | .57 | .44 | .28 | 235 | .57 | .37 | .25 |
| Bronze | 234 | .75 | .37 | .20 | 236 | .57 | .31 | .17 | 235 | .57 | .37 | .22 |

Blue Values indicates ENERGY STAR compliance in the Northern Climate Zone



| Climate Zone | U-Factor ¹ | SHGC ² |
|---------------|-----------------------|-------------------|
| Northern | ≤ 0.55 | Any |
| North-Central | ≤ 0.55 | ≤ 0.40 |
| South-Central | ≤ 0.57 | ≤ 0.30 |
| Southern | ≤ 0.70 | ≤ 0.30 |





This REFERENCE GUIDE shows NFRC Certified values for our common glazing configurations. Please contact us if you have a specific glazing requirement not shown.

NFRC Thermal Properties **REFERENCE GUIDE**
3962 Fixed Skylight
 NFRC CPD: CRY-M-7

12/19/2011

1" O.A. - Temp / Temp (1/8" over 1/8")

| | Clear / Clear | | | | Cardinal 272 | | | | Cardinal 366 | | | | Cardinal 240 | | | | Solar Ban 60 | | | | Solar Ban 70XL | | | | Solar Ban 80 | | | |
|--------------|---------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|----------------|-----|------|-----|--------------|-----|------|-----|
| | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT |
| Clear | 140 | .76 | .76 | .80 | 141 | .59 | .41 | .70 | 142 | .58 | .27 | .63 | 143 | .59 | .26 | .39 | 454 | .61 | .38 | .71 | 455 | .61 | .28 | .63 | 456 | .61 | .24 | .48 |
| Solar Grey | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Solar Bronze | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Evergreen | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Azuria | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

1" O.A. - Temp / Lam (1/8" over 1/8" / 0.030 / 1/8")

| | Clear / Clear | | | | Cardinal 272 | | | | Cardinal 366 | | | | Cardinal 240 | | | | Solar Ban 60 | | | | Solar Ban 70XL | | | | Solar Ban 80 | | | |
|--------------|---------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|----------------|-----|------|-----|--------------|-----|------|-----|
| | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT |
| Clear | 154 | .75 | .73 | .78 | 155 | .60 | .40 | .69 | 156 | .59 | .27 | .62 | 157 | .60 | .25 | .38 | 463 | .62 | .38 | .69 | 464 | .61 | .27 | .61 | 465 | .62 | .24 | .47 |
| White | 248 | .74 | .61 | .40 | 249 | .60 | .37 | .35 | 250 | .59 | .26 | .31 | | | | | 532 | .62 | .35 | .35 | 533 | .61 | .25 | .32 | 534 | .61 | .22 | .24 |
| Solar Grey | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Solar Bronze | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Evergreen | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Azuria | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

1" O.A. - Temp / SGP Lam (3/16" over 3/16" / 0.090 / 3/16")

| | Clear / Clear | | | | Cardinal 272 | | | | Cardinal 366 | | | | Cardinal 240 | | | | Solar Ban 60 | | | | Solar Ban 70XL | | | | Solar Ban 80 | | | |
|--------------|---------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|----------------|-----|------|-----|--------------|-----|------|-----|
| | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT |
| Clear | 182 | .74 | .69 | .76 | 183 | .60 | .39 | .66 | 184 | .59 | .27 | .60 | 185 | .60 | .24 | .36 | 484 | .62 | .37 | .67 | 485 | .61 | .27 | .59 | 486 | .61 | .23 | .45 |
| White | 240 | .75 | .66 | .56 | 241 | .60 | .38 | .49 | 242 | .59 | .26 | .44 | 243 | .60 | .24 | .27 | 526 | .62 | .36 | .49 | 527 | .62 | .26 | .44 | 528 | .62 | .22 | .33 |
| Solar Grey | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Solar Bronze | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Evergreen | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Azuria | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

1-5/16" O.A. TRIPLE GLAZED

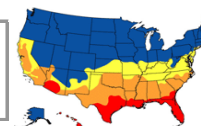
| | T / T / T SB60 + SB60 | | | | T / T / L SB60 + SB60 | | | |
|--------------|-----------------------|-----|------|-----|-----------------------|-----|------|-----|
| | Line | U | SHGC | VT | Line | U | SHGC | VT |
| Clear | 487 | .48 | .31 | .57 | 496 | .47 | .31 | .56 |
| Solar Grey | | | | | | | | |
| Solar Bronze | | | | | | | | |
| Evergreen | | | | | | | | |
| Azuria | | | | | | | | |

Plastic Glazing Options

NOTE: VT Values are Not NFRC Certified

| | Double Dome | | | | Triple Dome | | | | Structured Sheet | | | |
|--------|-------------|-----|------|-----|-------------|-----|------|-----|------------------|-----|------|-----|
| | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT |
| Clear | 294 | .74 | .73 | .75 | 296 | .58 | .66 | .65 | 295 | .60 | .56 | .57 |
| White | 294 | .74 | .51 | .42 | 296 | .58 | .47 | .30 | 295 | .60 | .40 | .26 |
| Bronze | 294 | .74 | .40 | .22 | 296 | .58 | .33 | .19 | 295 | .60 | .40 | .23 |

Blue Values indicates ENERGY STAR compliance in the Northern Climate Zone



| Climate Zone | U-Factor ¹ | SHGC ² |
|---------------|-----------------------|-------------------|
| Northern | ≤ 0.55 | Any |
| North-Central | ≤ 0.55 | ≤ 0.40 |
| Central | ≤ 0.57 | ≤ 0.30 |
| South-Central | ≤ 0.57 | ≤ 0.30 |
| Southern | ≤ 0.70 | ≤ 0.30 |





This REFERENCE GUIDE shows NFRC Certified values for our common glazing configurations. Please contact us if you have a specific glazing requirement not shown.

NFRC Thermal Properties **REFERENCE GUIDE**
5830 Operable Skylight
 NFRC CPD: CRY-M-2

12/19/2011

1" O.A. - Temp / Temp (1/8" over 1/8")

| | Clear / Clear | | | | Cardinal 272 | | | | Cardinal 366 | | | | Cardinal 240 | | | | Solar Ban 60 | | | | Solar Ban 70XL | | | | Solar Ban 80 | | | |
|--------------|---------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|----------------|-----|------|-----|--------------|-----|------|-----|
| | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT |
| Clear | 85 | .67 | .68 | .72 | 86 | .50 | .37 | .63 | 87 | .49 | .25 | .57 | 88 | .50 | .23 | .35 | 399 | .50 | .35 | .64 | 400 | .50 | .25 | .56 | 401 | .50 | .22 | .43 |
| Solar Grey | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Solar Bronze | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Evergreen | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Azuria | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

1" O.A. - Temp / Lam (1/8" over 1/8" / 0.030 / 1/8")

| | Clear / Clear | | | | Cardinal 272 | | | | Cardinal 366 | | | | Cardinal 240 | | | | Solar Ban 60 | | | | Solar Ban 70XL | | | | Solar Ban 80 | | | |
|--------------|---------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|----------------|-----|------|-----|--------------|-----|------|-----|
| | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT |
| Clear | 99 | .66 | .66 | .70 | 100 | .51 | .36 | .61 | 101 | .50 | .25 | .55 | 102 | .51 | .23 | .34 | 408 | .50 | .34 | .62 | 409 | .50 | .25 | .55 | 410 | .50 | .21 | .42 |
| White | 193 | .65 | .55 | .36 | 194 | .51 | .33 | .31 | 195 | .51 | .23 | .28 | | | | | 477 | .51 | .32 | .32 | 478 | .50 | .23 | .29 | 479 | .50 | .20 | .21 |
| Solar Grey | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Solar Bronze | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Evergreen | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Azuria | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

1" O.A. - Temp / SGP Lam (3/16" over 3/16" / 0.090 / 3/16")

| | Clear / Clear | | | | Cardinal 272 | | | | Cardinal 366 | | | | Cardinal 240 | | | | Solar Ban 60 | | | | Solar Ban 70XL | | | | Solar Ban 80 | | | |
|--------------|---------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|----------------|-----|------|-----|--------------|-----|------|-----|
| | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT |
| Clear | 127 | .65 | .62 | .68 | 128 | .51 | .35 | .59 | 129 | .50 | .24 | .53 | 130 | .51 | .22 | .33 | 429 | .51 | .33 | .60 | 430 | .50 | .24 | .53 | 431 | .50 | .21 | .40 |
| White | 185 | .66 | .59 | .50 | 186 | .51 | .35 | .44 | 187 | .51 | .24 | .39 | 188 | .52 | .21 | .24 | 471 | .51 | .33 | .44 | 472 | .51 | .24 | .39 | 473 | .51 | .20 | .29 |
| Solar Grey | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Solar Bronze | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Evergreen | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Azuria | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

1-5/16" O.A. TRIPLE GLAZED

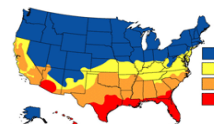
| | T / T / T SB60 + SB60 | | | | T / T / L SB60 + SB60 | | | |
|--------------|-----------------------|-----|------|-----|-----------------------|-----|------|-----|
| | Line | U | SHGC | VT | Line | U | SHGC | VT |
| Clear | 432 | .36 | .28 | .51 | 441 | .36 | .28 | .50 |
| Solar Grey | | | | | | | | |
| Solar Bronze | | | | | | | | |
| Evergreen | | | | | | | | |
| Azuria | | | | | | | | |

Plastic Glazing Options

NOTE: VT Values are Not NFRC Certified

| | Double Dome | | | | Triple Dome | | | | Structured Sheet | | | |
|--------|-------------|-----|------|-----|-------------|-----|------|------|------------------|-----|------|-----|
| | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT |
| Clear | 239 | .67 | .66 | .67 | 241 | .51 | .60 | 0.58 | 240 | .51 | .50 | .51 |
| White | 239 | .67 | .46 | .38 | 241 | .51 | .42 | 0.27 | 240 | .51 | .36 | .24 |
| Bronze | 239 | .67 | .36 | .19 | 241 | .51 | .30 | 0.17 | 240 | .51 | .36 | .21 |

Blue Values indicates ENERGY STAR compliance in the Northern Climate Zone



| Climate Zone | U-Factor ¹ | SHGC ² |
|---------------|-----------------------|-------------------|
| Northern | ≤ 0.55 | Any |
| North-Central | ≤ 0.55 | ≤ 0.40 |
| South-Central | ≤ 0.57 | ≤ 0.30 |
| Southern | ≤ 0.70 | ≤ 0.30 |





This REFERENCE GUIDE shows NFRC Certified values for our common glazing configurations. Please contact us if you have a specific glazing requirement not shown.

NFRC Thermal Properties **REFERENCE GUIDE**
3921 Operable Skylight
 NFRC CPD: CRY-M-14

12/19/2011

1" O.A. - Temp / Temp (1/8" over 1/8")

| | Clear / Clear | | | | Cardinal 272 | | | | Cardinal 366 | | | | Cardinal 240 | | | | Solar Ban 60 | | | | Solar Ban 70XL | | | | Solar Ban 80 | | | |
|--------------|---------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|----------------|-----|------|-----|--------------|-----|------|-----|
| | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT |
| Clear | 156 | .77 | .71 | .74 | 157 | .61 | .38 | .65 | 158 | .60 | .26 | .59 | 159 | .61 | .24 | .36 | 470 | .61 | .36 | .66 | 471 | .61 | .26 | .58 | 472 | .61 | .22 | .44 |
| Solar Grey | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Solar Bronze | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Evergreen | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Azuria | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

1" O.A. - Temp / Lam (1/8" over 1/8" / 0.030 / 1/8")

| | Clear / Clear | | | | Cardinal 272 | | | | Cardinal 366 | | | | Cardinal 240 | | | | Solar Ban 60 | | | | Solar Ban 70XL | | | | Solar Ban 80 | | | |
|--------------|---------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|----------------|-----|------|-----|--------------|-----|------|-----|
| | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT |
| Clear | 170 | .77 | .68 | .73 | 171 | .62 | .38 | .64 | 172 | .61 | .25 | .57 | 173 | .62 | .24 | .35 | 479 | .62 | .35 | .64 | 480 | .61 | .26 | .57 | 481 | .62 | .22 | .43 |
| White | 264 | .75 | .57 | .37 | 265 | .62 | .35 | .32 | 266 | .61 | .24 | .29 | | | | | 548 | .62 | .33 | .33 | 549 | .61 | .24 | .30 | 550 | .61 | .21 | .22 |
| Solar Grey | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Solar Bronze | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Evergreen | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Azuria | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

1" O.A. - Temp / SGP Lam (3/16" over 3/16" / 0.090 / 3/16")

| | Clear / Clear | | | | Cardinal 272 | | | | Cardinal 366 | | | | Cardinal 240 | | | | Solar Ban 60 | | | | Solar Ban 70XL | | | | Solar Ban 80 | | | |
|--------------|---------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|----------------|-----|------|-----|--------------|-----|------|-----|
| | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT |
| Clear | 198 | .75 | .64 | .70 | 199 | .61 | .36 | .61 | 200 | .61 | .25 | .55 | 201 | .62 | .23 | .34 | 500 | .62 | .35 | .62 | 501 | .61 | .25 | .55 | 502 | .61 | .22 | .42 |
| White | 256 | .76 | .61 | .51 | 257 | .62 | .36 | .45 | 258 | .61 | .24 | .40 | 259 | .62 | .22 | .25 | 542 | .62 | .34 | .46 | 543 | .62 | .24 | .40 | 544 | .62 | .21 | .31 |
| Solar Grey | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Solar Bronze | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Evergreen | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Azuria | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

1-5/16" O.A. TRIPLE GLAZED

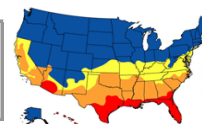
| | T / T / T SB60 + SB60 | | | | T / T / L SB60 + SB60 | | | |
|--------------|-----------------------|-----|------|-----|-----------------------|-----|------|-----|
| | Line | U | SHGC | VT | Line | U | SHGC | VT |
| Clear | 503 | .48 | .29 | .53 | 512 | .47 | .29 | .52 |
| Solar Grey | | | | | | | | |
| Solar Bronze | | | | | | | | |
| Evergreen | | | | | | | | |
| Azuria | | | | | | | | |

Plastic Glazing Options

NOTE: VT Values are Not NFRC Certified

| | Double Dome | | | | Triple Dome | | | | Structured Sheet | | | |
|--------|-------------|-----|------|-----|-------------|-----|------|-----|------------------|-----|------|-----|
| | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT |
| Clear | 310 | .78 | .68 | .70 | 312 | .62 | .62 | .60 | 311 | .62 | .52 | .53 |
| White | 310 | .78 | .47 | .39 | 312 | .62 | .44 | .28 | 311 | .62 | .37 | .25 |
| Bronze | 310 | .78 | .37 | .20 | 312 | .62 | .31 | .17 | 311 | .62 | .37 | .22 |

Blue Values indicates ENERGY STAR compliance in the Northern Climate Zone



| Climate Zone | U-Factor ¹ | SHGC ² |
|---------------|-----------------------|-------------------|
| Northern | ≤ 0.55 | Any |
| North-Central | ≤ 0.55 | ≤ 0.40 |
| Central | ≤ 0.57 | ≤ 0.30 |
| South-Central | ≤ 0.57 | ≤ 0.30 |
| Southern | ≤ 0.70 | ≤ 0.30 |





This REFERENCE GUIDE shows NFRC Certified values for our common glazing configurations. Please contact us if you have a specific glazing requirement not shown.

NFRC Thermal Properties **REFERENCE GUIDE**
3962 Operable Skylight
 NFRC CPD: CRY-M-13

12/19/2011

1" O.A. - Temp / Temp (1/8" over 1/8")

| | Clear / Clear | | | | Cardinal 272 | | | | Cardinal 366 | | | | Cardinal 240 | | | | Solar Ban 60 | | | | Solar Ban 70XL | | | | Solar Ban 80 | | | |
|--------------|---------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|----------------|-----|------|-----|--------------|-----|------|-----|
| | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT |
| Clear | 55 | .79 | .78 | .82 | 56 | .62 | .42 | .72 | 57 | .61 | .28 | .65 | 58 | .63 | .26 | .40 | 369 | .62 | .39 | .72 | 370 | .62 | .28 | .64 | 371 | .62 | .24 | .49 |
| Solar Grey | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Solar Bronze | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Evergreen | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Azuria | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

1" O.A. - Temp / Lam (1/8" over 1/8" / 0.030 / 1/8")

| | Clear / Clear | | | | Cardinal 272 | | | | Cardinal 366 | | | | Cardinal 240 | | | | Solar Ban 60 | | | | Solar Ban 70XL | | | | Solar Ban 80 | | | |
|--------------|---------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|----------------|-----|------|-----|--------------|-----|------|-----|
| | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT |
| Clear | 69 | .79 | .75 | .80 | 70 | .63 | .41 | .70 | 71 | .62 | .28 | .63 | 72 | .63 | .26 | .39 | 378 | .63 | .39 | .71 | 379 | .62 | .28 | .63 | 380 | .62 | .24 | .48 |
| White | 163 | .77 | .62 | .41 | 164 | .63 | .38 | .36 | 165 | .62 | .26 | .32 | | | | | 447 | .63 | .36 | .36 | 448 | .62 | .26 | .33 | 449 | .62 | .22 | .24 |
| Solar Grey | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Solar Bronze | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Evergreen | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Azuria | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

1" O.A. - Temp / SGP Lam (3/16" over 3/16" / 0.090 / 3/16")

| | Clear / Clear | | | | Cardinal 272 | | | | Cardinal 366 | | | | Cardinal 240 | | | | Solar Ban 60 | | | | Solar Ban 70XL | | | | Solar Ban 80 | | | |
|--------------|---------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|----------------|-----|------|-----|--------------|-----|------|-----|
| | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT |
| Clear | 97 | .77 | .70 | .77 | 98 | .63 | .40 | .68 | 99 | .62 | .27 | .61 | 100 | .63 | .24 | .37 | 399 | .63 | .38 | .68 | 400 | .62 | .27 | .61 | 401 | .62 | .23 | .46 |
| White | 155 | .78 | .67 | .57 | 156 | .63 | .39 | .50 | 157 | .63 | .27 | .45 | 158 | .64 | .24 | .27 | 441 | .63 | .37 | .50 | 442 | .63 | .27 | .45 | 443 | .63 | .23 | .34 |
| Solar Grey | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Solar Bronze | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Evergreen | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Azuria | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

1-5/16" O.A. TRIPLE GLAZED

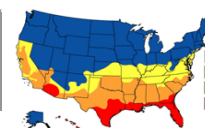
| | T / T / T SB60 + SB60 | | | | T / T / L SB60 + SB60 | | | |
|--------------|-----------------------|-----|------|-----|-----------------------|-----|------|-----|
| | Line | U | SHGC | VT | Line | U | SHGC | VT |
| Clear | 402 | .48 | .32 | .58 | 411 | .48 | .31 | .57 |
| Solar Grey | | | | | | | | |
| Solar Bronze | | | | | | | | |
| Evergreen | | | | | | | | |
| Azuria | | | | | | | | |

Plastic Glazing Options

NOTE: VT Values are Not NFRC Certified

| | Double Dome | | | | Triple Dome | | | | Structured Sheet | | | |
|--------|-------------|-----|------|-----|-------------|-----|------|-----|------------------|-----|------|-----|
| | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT |
| Clear | 209 | .79 | .75 | .73 | 211 | .63 | .68 | .63 | 210 | .63 | .57 | .55 |
| White | 209 | .79 | .52 | .41 | | .63 | .48 | .30 | | .63 | .41 | .26 |
| Bronze | 209 | .79 | .41 | .21 | | .63 | .34 | .18 | | .63 | .41 | .23 |

Blue Values indicates ENERGY STAR compliance in the Northern Climate Zone



| Climate Zone | U-Factor ¹ | SHGC ² |
|---------------|-----------------------|-------------------|
| Northern | ≤ 0.55 | Any |
| North-Central | ≤ 0.55 | ≤ 0.40 |
| South-Central | ≤ 0.57 | ≤ 0.30 |
| Southern | ≤ 0.70 | ≤ 0.30 |





This REFERENCE GUIDE shows NFRC Certified values for our common glazing configurations. Please contact us if you have a specific glazing requirement not shown.



12/19/2011

1" O.A. - Temp / Temp (1/8" over 1/8")

| | Clear / Clear | | | | Cardinal 272 | | | | Cardinal 366 | | | | Cardinal 240 | | | | Solar Ban 60 | | | | Solar Ban 70XL | | | | Solar Ban 80 | | | |
|--------------|---------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|----------------|-----|------|-----|--------------|-----|------|-----|
| | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT |
| Clear | 85 | .62 | .76 | .80 | 86 | .44 | .41 | .70 | 87 | .43 | .27 | .63 | 88 | .45 | .26 | .39 | 399 | .45 | .38 | .70 | 400 | .44 | .27 | .62 | 401 | .44 | .24 | .47 |
| Solar Grey | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Solar Bronze | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Evergreen | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Azuria | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

1" O.A. - Temp / Lam (1/8" over 1/8" / 0.030 / 1/8")

| | Clear / Clear | | | | Cardinal 272 | | | | Cardinal 366 | | | | Cardinal 240 | | | | Solar Ban 60 | | | | Solar Ban 70XL | | | | Solar Ban 80 | | | |
|--------------|---------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|----------------|-----|------|-----|--------------|-----|------|-----|
| | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT |
| Clear | 99 | .61 | .73 | .78 | 100 | .45 | .40 | .68 | 101 | .44 | .27 | .61 | 102 | .45 | .25 | .38 | 408 | .45 | .38 | .69 | 409 | .45 | .27 | .61 | 410 | .45 | .24 | .46 |
| White | 193 | .60 | .60 | .39 | 194 | .45 | .37 | .35 | 195 | .44 | .25 | .31 | | | | | 477 | .45 | .35 | .35 | 478 | .45 | .25 | .32 | 479 | .45 | .22 | .23 |
| Solar Grey | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Solar Bronze | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Evergreen | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Azuria | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

1" O.A. - Temp / SGP Lam (3/16" over 3/16" / 0.090 / 3/16")

| | Clear / Clear | | | | Cardinal 272 | | | | Cardinal 366 | | | | Cardinal 240 | | | | Solar Ban 60 | | | | Solar Ban 70XL | | | | Solar Ban 80 | | | |
|--------------|---------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|----------------|-----|------|-----|--------------|-----|------|-----|
| | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT |
| Clear | 127 | .59 | .68 | .75 | 128 | .45 | .39 | .66 | 129 | .44 | .26 | .59 | 130 | .45 | .24 | .36 | 429 | .45 | .37 | .66 | 430 | .44 | .27 | .59 | 431 | .45 | .23 | .45 |
| White | 185 | .61 | .65 | .55 | 186 | .45 | .38 | .48 | 187 | .45 | .26 | .43 | 188 | .46 | .23 | .26 | 471 | .46 | .36 | .49 | 472 | .45 | .26 | .43 | 473 | .45 | .22 | .33 |
| Solar Grey | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Solar Bronze | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Evergreen | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Azuria | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

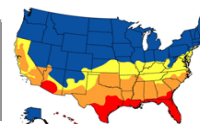
1-5/16" O.A. TRIPLE GLAZED

| | T / T / T SB60 + SB60 | | | | T / T / L SB60 + SB60 | | | |
|--------------|-----------------------|-----|------|-----|-----------------------|-----|------|-----|
| | Line | U | SHGC | VT | Line | U | SHGC | VT |
| Clear | 432 | .30 | .31 | .57 | 441 | .30 | .31 | .55 |
| Solar Grey | | | | | | | | |
| Solar Bronze | | | | | | | | |
| Evergreen | | | | | | | | |
| Azuria | | | | | | | | |

Plastic Glazing Options NOTE: VT Values are not NFRC Certified

| Structured Sheet | | | | |
|------------------|-----|------|-----|--|
| Line | U | SHGC | VT | |
| 240 | .45 | .55 | .52 | |
| 240 | .45 | .40 | .24 | |
| 240 | .45 | .40 | .22 | |

Blue Values indicates ENERGY STAR compliance in the Northern Climate Zone



| Climate Zone | U-Factor ¹ | SHGC ² |
|---------------|-----------------------|-------------------|
| Northern | ≤ 0.55 | Any |
| North-Central | ≤ 0.55 | ≤ 0.40 |
| Central | ≤ 0.57 | ≤ 0.30 |
| South-Central | ≤ 0.57 | ≤ 0.30 |
| Southern | ≤ 0.70 | ≤ 0.30 |





This REFERENCE GUIDE shows NFRC Certified values for our common glazing configurations. Please contact us if you have a specific glazing requirement not shown.



12/19/2011

1" O.A. - Temp / Temp (1/8" over 1/8")

| | Clear / Clear | | | | Cardinal 272 | | | | Cardinal 366 | | | | Cardinal 240 | | | | Solar Ban 60 | | | | Solar Ban 70XL | | | | Solar Ban 80 | | | |
|--------------|---------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|----------------|-----|------|-----|--------------|-----|------|-----|
| | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT |
| Clear | 38 | .64 | .72 | .75 | 39 | .47 | .39 | .66 | 40 | .46 | .26 | .59 | 41 | .47 | .24 | .37 | 195 | .48 | .36 | .66 | 196 | .47 | .26 | .59 | 197 | .48 | .23 | .45 |
| Solar Grey | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Solar Bronze | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Evergreen | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Azuria | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

1" O.A. - Temp / Lam (1/8" over 1/8" / 0.030 / 1/8")

| | Clear / Clear | | | | Cardinal 272 | | | | Cardinal 366 | | | | Cardinal 240 | | | | Solar Ban 60 | | | | Solar Ban 70XL | | | | Solar Ban 80 | | | |
|--------------|---------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|----------------|-----|------|-----|--------------|-----|------|-----|
| | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT |
| Clear | 52 | .63 | .69 | .73 | 53 | .48 | .38 | .64 | 54 | .47 | .26 | .58 | 55 | .48 | .24 | .36 | 204 | .48 | .36 | .65 | 205 | .48 | .26 | .58 | 206 | .48 | .22 | .44 |
| White | 146 | .62 | .57 | .37 | 147 | .47 | .35 | .33 | 148 | .47 | .24 | .29 | | | | | 273 | .48 | .33 | .33 | 274 | .48 | .24 | .30 | 275 | .48 | .21 | .22 |
| Solar Grey | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Solar Bronze | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Evergreen | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Azuria | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

1" O.A. - Temp / SGP Lam (3/16" over 3/16" / 0.090 / 3/16")

| | Clear / Clear | | | | Cardinal 272 | | | | Cardinal 366 | | | | Cardinal 240 | | | | Solar Ban 60 | | | | Solar Ban 70XL | | | | Solar Ban 80 | | | |
|--------------|---------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|----------------|-----|------|-----|--------------|-----|------|-----|
| | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT |
| Clear | 80 | .62 | .64 | .71 | 81 | .47 | .37 | .62 | 82 | .47 | .25 | .56 | 83 | .48 | .23 | .34 | 225 | .48 | .35 | .63 | 226 | .47 | .25 | .56 | 227 | .48 | .22 | .42 |
| White | 138 | .63 | .62 | .52 | 139 | .48 | .36 | .45 | 140 | .47 | .25 | .41 | 141 | .48 | .22 | .25 | 267 | .49 | .34 | .46 | 268 | .48 | .25 | .41 | 269 | .48 | .21 | .31 |
| Solar Grey | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Solar Bronze | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Evergreen | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Azuria | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

1-5/16" O.A. TRIPLE GLAZED

| | T / T / T SB60 + SB60 | | | | T / T / L SB60 + SB60 | | | |
|--------------|-----------------------|-----|------|-----|-----------------------|-----|------|-----|
| | Line | U | SHGC | VT | Line | U | SHGC | VT |
| Clear | 228 | .34 | .30 | .53 | 237 | .33 | .29 | .52 |
| Solar Grey | | | | | | | | |
| Solar Bronze | | | | | | | | |
| Evergreen | | | | | | | | |
| Azuria | | | | | | | | |

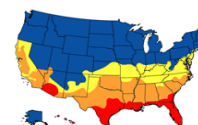
Plastic Glazing Options

NOTE: VT Values are Not NFRC Certified

Structured Sheet

| | Line | U | SHGC | VT |
|--------|------|-----|------|-----|
| Clear | 193 | .47 | .52 | .53 |
| White | 193 | .47 | .38 | .25 |
| Bronze | 193 | .47 | .38 | .22 |

Blue Values indicates ENERGY STAR compliance in the Northern Climate Zone



| Climate Zone | U-Factor ¹ | SHGC ² |
|---------------|-----------------------|-------------------|
| Northern | ≤ 0.55 | Any |
| North-Central | ≤ 0.55 | ≤ 0.40 |
| South-Central | ≤ 0.57 | ≤ 0.30 |
| Southern | ≤ 0.70 | ≤ 0.30 |





This REFERENCE GUIDE shows NFRC Certified values for our common glazing configurations. Please contact us if you have a specific glazing requirement not shown.



12/19/2011

1" O.A. - Temp / Temp (1/8" over 1/8")

| | Clear / Clear | | | | Cardinal 272 | | | | Cardinal 366 | | | | Cardinal 240 | | | | Solar Ban 60 | | | | Solar Ban 70XL | | | | Solar Ban 80 | | | |
|--------------|---------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|----------------|-----|------|-----|--------------|-----|------|-----|
| | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT |
| Clear | 51 | .66 | .75 | .79 | 52 | .49 | .40 | .69 | 53 | .48 | .27 | .62 | 54 | .49 | .25 | .38 | 208 | .49 | .38 | .69 | 209 | .49 | .27 | .62 | 210 | .49 | .24 | .47 |
| Solar Grey | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Solar Bronze | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Evergreen | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Azuria | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

1" O.A. - Temp / Lam (1/8" over 1/8" / 0.030 / 1/8")

| | Clear / Clear | | | | Cardinal 272 | | | | Cardinal 366 | | | | Cardinal 240 | | | | Solar Ban 60 | | | | Solar Ban 70XL | | | | Solar Ban 80 | | | |
|--------------|---------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|----------------|-----|------|-----|--------------|-----|------|-----|
| | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT |
| Clear | 65 | .65 | .72 | .77 | 66 | .50 | .40 | .67 | 67 | .49 | .27 | .60 | 68 | .50 | .25 | .37 | 217 | .50 | .37 | .68 | 218 | .49 | .27 | .60 | 219 | .50 | .23 | .46 |
| White | 159 | .64 | .60 | .39 | 160 | .50 | .36 | .34 | 161 | .49 | .25 | .31 | | | | | 286 | .50 | .35 | .34 | 287 | .49 | .25 | .31 | 288 | .49 | .22 | .23 |
| Solar Grey | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Solar Bronze | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Evergreen | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Azuria | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

1" O.A. - Temp / SGP Lam (3/16" over 3/16" / 0.090 / 3/16")

| | Clear / Clear | | | | Cardinal 272 | | | | Cardinal 366 | | | | Cardinal 240 | | | | Solar Ban 60 | | | | Solar Ban 70XL | | | | Solar Ban 80 | | | |
|--------------|---------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|----------------|-----|------|-----|--------------|-----|------|-----|
| | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT |
| Clear | 93 | .64 | .67 | .74 | 94 | .50 | .38 | .65 | 95 | .49 | .26 | .58 | 96 | .50 | .24 | .36 | 238 | .50 | .36 | .65 | 239 | .49 | .26 | .58 | 240 | .49 | .23 | .44 |
| White | 151 | .65 | .64 | .54 | 152 | .50 | .38 | .48 | 153 | .49 | .26 | .43 | 154 | .50 | .23 | .26 | 280 | .50 | .36 | .48 | 281 | .50 | .26 | .43 | 282 | .50 | .22 | .32 |
| Solar Grey | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Solar Bronze | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Evergreen | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Azuria | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

1-5/16" O.A. TRIPLE GLAZED

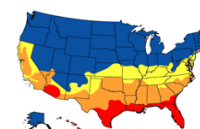
| | T / T / T SB60 + SB60 | | | | T / T / L SB60 + SB60 | | | |
|--------------|-----------------------|-----|------|-----|-----------------------|-----|------|-----|
| | Line | U | SHGC | VT | Line | U | SHGC | VT |
| Clear | 241 | .35 | .31 | .56 | 250 | .35 | .30 | .55 |
| Solar Grey | | | | | | | | |
| Solar Bronze | | | | | | | | |
| Evergreen | | | | | | | | |
| Azuria | | | | | | | | |

Plastic Glazing Options

NOTE: VT Values are Not NFRC Certified

| | Structured Sheet | | | |
|--------|------------------|-----|------|------|
| | Line | U | SHGC | VT |
| Clear | 206 | .50 | .55 | 0.55 |
| White | 206 | .50 | .39 | 0.26 |
| Bronze | 206 | .50 | .39 | 0.23 |

Blue Values indicates ENERGY STAR compliance in the Northern Climate Zone



| Climate Zone | U-Factor ¹ | SHGC ² |
|---------------|-----------------------|-------------------|
| Northern | ≤ 0.55 | Any |
| North-Central | ≤ 0.55 | ≤ 0.40 |
| South-Central | ≤ 0.57 | ≤ 0.30 |
| Southern | ≤ 0.70 | ≤ 0.30 |





This REFERENCE GUIDE shows NFRC Certified values for our common glazing configurations. Please contact us if you have a specific glazing requirement not shown.



12/19/2011

1" O.A. - Temp / Temp (1/8" over 1/8")

| | Clear / Clear | | | | Cardinal 272 | | | | Cardinal 366 | | | | Cardinal 240 | | | | Solar Ban 60 | | | | Solar Ban 70XL | | | | Solar Ban 80 | | | |
|--------------|---------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|----------------|-----|------|-----|--------------|-----|------|-----|
| | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT |
| Clear | 89 | .58 | .68 | .70 | 90 | .42 | .37 | .62 | 91 | .41 | .25 | .55 | 92 | .42 | .24 | .34 | 246 | .43 | .35 | .62 | 247 | .43 | .25 | .55 | 248 | .43 | .22 | .42 |
| Solar Grey | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Solar Bronze | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Evergreen | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Azuria | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

1" O.A. - Temp / Lam (1/8" over 1/8" / 0.030 / 1/8")

| | Clear / Clear | | | | Cardinal 272 | | | | Cardinal 366 | | | | Cardinal 240 | | | | Solar Ban 60 | | | | Solar Ban 70XL | | | | Solar Ban 80 | | | |
|--------------|---------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|----------------|-----|------|-----|--------------|-----|------|-----|
| | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT |
| Clear | 103 | .58 | .65 | .69 | 104 | .42 | .36 | .60 | 105 | .42 | .25 | .54 | 106 | .43 | .23 | .33 | 255 | .44 | .34 | .61 | 256 | .43 | .25 | .54 | 257 | .43 | .22 | .41 |
| White | 197 | .56 | .54 | .35 | 198 | .42 | .33 | .30 | 199 | .42 | .23 | .27 | | | | | 324 | .43 | .32 | .31 | 325 | .43 | .23 | .28 | 326 | .43 | .20 | .21 |
| Solar Grey | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Solar Bronze | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Evergreen | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Azuria | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

1" O.A. - Temp / SGP Lam (3/16" over 3/16" / 0.090 / 3/16")

| | Clear / Clear | | | | Cardinal 272 | | | | Cardinal 366 | | | | Cardinal 240 | | | | Solar Ban 60 | | | | Solar Ban 70XL | | | | Solar Ban 80 | | | |
|--------------|---------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|----------------|-----|------|-----|--------------|-----|------|-----|
| | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT |
| Clear | 131 | .56 | .61 | .66 | 132 | .42 | .35 | .58 | 133 | .42 | .24 | .52 | 134 | .42 | .22 | .32 | 276 | .43 | .33 | .59 | 277 | .43 | .24 | .52 | 278 | .43 | .21 | .40 |
| White | 189 | .57 | .59 | .49 | 190 | .43 | .35 | .43 | 191 | .42 | .24 | .38 | 192 | .43 | .22 | .23 | 318 | .44 | .33 | .43 | 319 | .43 | .24 | .38 | 320 | .43 | .20 | .29 |
| Solar Grey | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Solar Bronze | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Evergreen | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Azuria | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

1-5/16" O.A. TRIPLE GLAZED

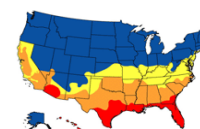
| | T / T / T SB60 + SB60 | | | | T / T / L SB60 + SB60 | | | |
|--------------|-----------------------|-----|------|-----|-----------------------|-----|------|-----|
| | Line | U | SHGC | VT | Line | U | SHGC | VT |
| Clear | 279 | .29 | .28 | .50 | 288 | .29 | .28 | .49 |
| Solar Grey | | | | | | | | |
| Solar Bronze | | | | | | | | |
| Evergreen | | | | | | | | |
| Azuria | | | | | | | | |

Plastic Glazing Options

NOTE: VT Values are Not NFRC Certified

| | Structured Sheet | | | |
|--------|------------------|-----|------|-----|
| | Line | U | SHGC | VT |
| Clear | 244 | .42 | .50 | .46 |
| White | 244 | .42 | .36 | .21 |
| Bronze | 244 | .42 | .36 | .19 |

Blue Values indicates ENERGY STAR compliance in the Northern Climate Zone



| Climate Zone | U-Factor ¹ | SHGC ² |
|---------------|-----------------------|-------------------|
| Northern | ≤ 0.55 | Any |
| North-Central | ≤ 0.55 | ≤ 0.40 |
| South-Central | ≤ 0.57 | ≤ 0.30 |
| Southern | ≤ 0.70 | ≤ 0.30 |





This REFERENCE GUIDE shows NFRC Certified values for our common glazing configurations. Please contact us if you have a specific glazing requirement not shown.



12/19/2011

1" O.A. - Temp / Temp (1/8" over 1/8")

| | Clear / Clear | | | | Cardinal 272 | | | | Cardinal 366 | | | | Cardinal 240 | | | | Solar Ban 60 | | | | Solar Ban 70XL | | | | Solar Ban 80 | | | |
|--------------|---------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|----------------|-----|------|-----|--------------|-----|------|-----|
| | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT |
| Clear | 52 | .56 | .67 | .70 | 53 | .39 | .36 | .61 | 54 | .39 | .25 | .55 | 55 | .40 | .23 | .34 | 209 | .41 | .34 | .62 | 210 | .41 | .25 | .55 | 211 | .41 | .21 | .42 |
| Solar Grey | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Solar Bronze | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Evergreen | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Azuria | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

1" O.A. - Temp / Lam (1/8" over 1/8" / 0.030 / 1/8")

| | Clear / Clear | | | | Cardinal 272 | | | | Cardinal 366 | | | | Cardinal 240 | | | | Solar Ban 60 | | | | Solar Ban 70XL | | | | Solar Ban 80 | | | |
|--------------|---------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|----------------|-----|------|-----|--------------|-----|------|-----|
| | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT |
| Clear | 66 | .55 | .64 | .68 | 67 | .40 | .36 | .60 | 68 | .40 | .24 | .54 | 69 | .41 | .23 | .33 | 218 | .41 | .34 | .60 | 219 | .41 | .24 | .53 | 220 | .41 | .21 | .41 |
| White | 160 | .54 | .54 | .34 | 161 | .40 | .33 | .30 | 162 | .39 | .23 | .27 | | | | | 287 | .41 | .31 | .31 | 288 | .41 | .23 | .28 | 289 | .41 | .20 | .20 |
| Solar Grey | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Solar Bronze | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Evergreen | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Azuria | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

1" O.A. - Temp / SGP Lam (3/16" over 3/16" / 0.090 / 3/16")

| | Clear / Clear | | | | Cardinal 272 | | | | Cardinal 366 | | | | Cardinal 240 | | | | Solar Ban 60 | | | | Solar Ban 70XL | | | | Solar Ban 80 | | | |
|--------------|---------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|----------------|-----|------|-----|--------------|-----|------|-----|
| | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT |
| Clear | 94 | .54 | .60 | .66 | 95 | .40 | .35 | .57 | 96 | .39 | .24 | .52 | 97 | .40 | .22 | .32 | 239 | .42 | .33 | .58 | 240 | .41 | .24 | .52 | 241 | .41 | .21 | .39 |
| White | 152 | .55 | .58 | .48 | 153 | .40 | .34 | .42 | 154 | .40 | .23 | .38 | 155 | .41 | .21 | .23 | 281 | .42 | .32 | .43 | 282 | .41 | .23 | .38 | 283 | .41 | .20 | .29 |
| Solar Grey | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Solar Bronze | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Evergreen | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Azuria | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

1-5/16" O.A. TRIPLE GLAZED

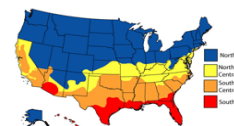
| | T / T / T SB60 + SB60 | | | | T / T / L SB60 + SB60 | | | |
|--------------|-----------------------|-----|------|-----|-----------------------|-----|------|-----|
| | Line | U | SHGC | VT | Line | U | SHGC | VT |
| Clear | 242 | .26 | .28 | .50 | 251 | .26 | .27 | .48 |
| Solar Grey | | | | | | | | |
| Solar Bronze | | | | | | | | |
| Evergreen | | | | | | | | |
| Azuria | | | | | | | | |

Plastic Glazing Options

NOTE: VT Values are Not NFRC Certified

| | Structured Sheet | | | |
|--------|------------------|-----|------|-----|
| | Line | U | SHGC | VT |
| Clear | 207 | .50 | .49 | .55 |
| White | 207 | .50 | .36 | .26 |
| Bronze | 207 | .50 | .36 | .23 |

Blue Values indicates ENERGY STAR compliance in the Northern Climate Zone



| Climate Zone | U-Factor ¹ | SHGC ² |
|---------------|-----------------------|-------------------|
| Northern | ≤ 0.55 | Any |
| North-Central | ≤ 0.55 | ≤ 0.40 |
| South-Central | ≤ 0.57 | ≤ 0.30 |
| Southern | ≤ 0.70 | ≤ 0.30 |





This REFERENCE GUIDE shows NFRC Certified values for our common glazing configurations. Please contact us if you have a specific glazing requirement not shown.



12/19/2011

1" O.A. - Temp / Temp (1/8" over 1/8")

| | Clear / Clear | | | | Cardinal 272 | | | | Cardinal 366 | | | | Cardinal 240 | | | | Solar Ban 60 | | | | Solar Ban 70XL | | | | Solar Ban 80 | | | |
|--------------|---------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|----------------|-----|------|-----|--------------|-----|------|-----|
| | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT |
| Clear | 86 | .52 | .71 | .74 | 87 | .34 | .38 | .65 | 88 | .33 | .26 | .58 | 89 | .35 | .24 | .36 | 38 | .36 | .36 | .65 | 39 | .36 | .26 | .58 | 40 | .36 | .22 | .44 |
| Solar Grey | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Solar Bronze | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Evergreen | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Azuria | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

1" O.A. - Temp / Lam (1/8" over 1/8" / 0.030 / 1/8")

| | Clear / Clear | | | | Cardinal 272 | | | | Cardinal 366 | | | | Cardinal 240 | | | | Solar Ban 60 | | | | Solar Ban 70XL | | | | Solar Ban 80 | | | |
|--------------|---------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|----------------|-----|------|-----|--------------|-----|------|-----|
| | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT |
| Clear | 100 | .50 | .68 | .72 | 101 | .33 | .38 | .63 | 102 | .32 | .25 | .57 | 103 | .34 | .23 | .35 | 47 | .35 | .36 | .64 | 48 | .35 | .25 | .57 | 49 | .35 | .22 | .43 |
| White | 154 | .50 | .56 | .37 | 155 | .33 | .35 | .32 | 156 | .33 | .24 | .29 | | | | | 83 | .35 | .33 | .33 | 84 | .35 | .24 | .30 | 85 | .35 | .21 | .22 |
| Solar Grey | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Solar Bronze | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Evergreen | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Azuria | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

1" O.A. - Temp / SGP Lam (3/16" over 3/16" / 0.090 / 3/16")

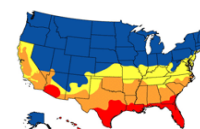
| | Clear / Clear | | | | Cardinal 272 | | | | Cardinal 366 | | | | Cardinal 240 | | | | Solar Ban 60 | | | | Solar Ban 70XL | | | | Solar Ban 80 | | | |
|--------------|---------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|--------------|-----|------|-----|----------------|-----|------|-----|--------------|-----|------|-----|
| | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT | Line | U | SHGC | VT |
| Clear | 128 | .50 | .64 | .70 | 129 | .33 | .37 | .61 | 130 | .32 | .26 | .55 | 131 | .33 | .23 | .34 | 68 | .35 | .35 | .62 | 69 | .35 | .26 | .55 | 70 | .35 | .22 | .42 |
| White | 146 | .50 | .61 | .51 | 147 | .33 | .36 | .45 | 148 | .32 | .25 | .40 | 149 | .33 | .23 | .25 | 77 | .35 | .34 | .45 | 78 | .34 | .25 | .40 | 79 | .34 | .22 | .30 |
| Solar Grey | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Solar Bronze | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Evergreen | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Azuria | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Plastic Glazing Options

NOTE: VT Values are Not NFRC Certified

| | Structured Sheet | | | |
|--------|------------------|-----|------|-----|
| | Line | U | SHGC | VT |
| Clear | 171 | .38 | .52 | .50 |
| White | 171 | .38 | .38 | .23 |
| Bronze | 171 | .38 | .38 | .21 |

Blue Values indicates ENERGY STAR compliance in the Northern Climate Zone



| Climate Zone | U-Factor ¹ | SHGC ² |
|---------------|-----------------------|-------------------|
| Northern | ≤ 0.55 | Any |
| North-Central | ≤ 0.55 | ≤ 0.40 |
| Central | ≤ 0.57 | ≤ 0.30 |
| South-Central | ≤ 0.57 | ≤ 0.30 |
| Southern | ≤ 0.70 | ≤ 0.30 |

