

This revision to the Second Draft Standard (www.nahbrc.com/ngbs) restores *Skylights & TDDs* as a separate fenestration category. The changes are shown in underline/strikethrough format.

Revise Section 703.1.6.1 as follows:

703.1.6.1 NFRC-certified (or equivalent) U-factor and SHGC of windows, exterior doors, skylights, and tubular daylighting devices (TDDs) on an area-weighted average basis are in accordance with Table 703.1.6.1. Area weighted averages are to be calculated separately for the categories of 1) windows and exterior doors and 2) skylights and tubular daylighting devices (TDDs). Decorative fenestration elements with a combined total maximum area of 15 square feet (1.39 m²) or 10 percent of the total glazing area, whichever is less, are not required to comply with this practice.

Revise Tables 703.1.6.2(a), (b), and (c) as follows:

**Table 703.1.6.2(a)
Enhanced Fenestration Specifications**

Climate Zones	U-Factor <u>Windows & Exterior Doors</u>	SHGC <u>Windows & Exterior Doors</u>	U-Factor <u>Skylights & TDD's</u>	SHGC <u>Skylights & TDD's</u>	POINTS
1	0.60	0.27	<u>0.70</u>	<u>0.30</u>	10
2	0.60	0.27	<u>0.70</u>	<u>0.30</u>	5
3	0.35	0.30	<u>0.57</u>	<u>0.30</u>	6
4	0.32	0.40	<u>0.55</u>	<u>0.40</u>	2
5	0.30	Any	<u>0.55</u>	<u>Any</u>	5
6	0.30	Any	<u>0.55</u>	<u>Any</u>	5
7	0.30	Any	<u>0.55</u>	<u>Any</u>	5
8	0.30	Any	<u>0.55</u>	<u>Any</u>	5

For Climate Zones 5-8 an equivalent energy performance is permitted based on either (1) windows with a U-factor = 0.31 and an SHGC ≥ 0.35, or, a U-factor = 0.32 and an SHGC ≥ 0.40 or (2) ~~windows-fenestration~~ meeting the ENERGY STAR Equivalent Energy Performance requirements.

**Table 703.1.6.2(b)
Enhanced Fenestration Specifications**

Climate Zones	U-Factor <u>Windows & Exterior Doors</u>	SHGC <u>Windows & Exterior Doors</u>	U-Factor <u>Skylights & TDD's</u>	SHGC <u>Skylights & TDD's</u>	POINTS
1	0.40	0.25	<u>0.50</u>	<u>0.30</u>	13
2	0.40	0.25	<u>0.50</u>	<u>0.30</u>	9
3	0.30	0.25	<u>0.50</u>	<u>0.35</u>	9
4	0.28	0.40	<u>0.50</u>	<u>0.40</u>	4
5	0.25	Any	<u>0.50</u>	<u>Any</u>	8
6	0.25	Any	<u>0.50</u>	<u>Any</u>	9
7	0.25	Any	<u>0.50</u>	<u>Any</u>	9
8	0.25	Any	<u>0.50</u>	<u>Any</u>	9

**Table 703.1.6.2(c)
Enhanced Fenestration Specifications**

Climate Zones	U-Factor <u>Windows & Exterior Doors</u>	SHGC <u>Windows & Exterior Doors</u>	U-Factor <u>Skylights & TDD's</u>	SHGC <u>Skylights & TDD's</u>	POINTS
4	0.25	0.40	<u>0.40</u>	<u>0.40</u>	5
5	0.22	Any	<u>0.40</u>	<u>Any</u>	9
6	0.22	Any	<u>0.50</u>	<u>Any</u>	9
7	0.22	Any	<u>0.50</u>	<u>Any</u>	9
8	0.22	Any	<u>0.50</u>	<u>Any</u>	9

Reason:

Over the course of developing the points tables for enhanced fenestration, “Skylights and TDD’s” were merged with “Windows and Exterior Doors” to simplify the points tables. However, because the industry specifications (U-factor and SHGC) for skylights and TDDs are different from the specifications for vertical fenestration, this change essentially eliminated the eligibility of enhanced performance skylights and TDD’s from enhanced performance points in nearly all climate zones. The difference in specifications between Skylights/TDD and vertical fenestration is recognized by other energy efficiency standards including Energy Star, ASHRAE 90.1, 90.2, 189.1, and the IECC.

This provision of the Second Draft Standard failed the consensus committee ballot and the revised language and tables have been offered by the Energy Efficiency Task Group as a resolution to the committee negatives. The revised language restores the separate “Skylight and TDD’s” category in the Enhanced Fenestration Specifications tables with the U-factors and SHGC values appropriate for these products. The Second Draft Standard is available at www.nahbrc.com/ngbs.