

## Changes the THERM 6.3 / WINDOW 6.3 NFRC Simulation Manual

December 2011 Revisions to May 2011 document

<b>Chapter 6</b>	
<p>6.3.7. Slightly Ventilated Exterior Cavities</p> <p>Figure 6-11. The language on the left side of this figure has been changed slightly to clarify when these cavities are modeled as frame cavities. It now reads:</p> <p style="padding-left: 40px;">A cavity open to the exterior environment should be modeled (creating a polygon) only when <math>d \geq b</math>.</p> <p style="padding-left: 40px;">If <math>2 \text{ mm} &lt; b \leq 10 \text{ mm}</math>, the cavity should be modeled as “Frame Cavity Slightly Ventilated NFRC 100”</p> <p style="padding-left: 40px;">For cavities <math>\leq 2 \text{ mm}</math>, use “Frame Cavity NFRC 100”</p> <p style="padding-left: 40px;">For cavities <math>&gt; 10 \text{ mm}</math>, do not model a frame cavity</p>	Page 6-13
<b>Chapter 7</b>	
<ul style="list-style-type: none"> <li>• Added 7.4.2 – Sightline Grouping Procedures</li> </ul>	Page 7-11
<ul style="list-style-type: none"> <li>• Renumbered previous 7.4.2 (Whole Product U-factors with Dividers) to 7.4.3</li> </ul>	Page 7-13
<b>Chapter 8</b>	
8.12. Changed “NFRC 2004” to “NFRC 2010”	Page 8-130
<b>Chapter 9</b>	
9.4. Problem 3: Skylight	
<ul style="list-style-type: none"> <li>• Added “Flush-Mount” to Skylight in 9.3 title</li> </ul>	Page 9-35
9.5. Problem 4: Door	
<ul style="list-style-type: none"> <li>• Changed “Window5” to “WINDOW”</li> <li>• First paragraph: “maximum of ten cross sections” changed to “maximum of eleven cross sections”</li> <li>• First paragraph, bulleted list: <ul style="list-style-type: none"> <li>○ Deleted Door Lite Jamb</li> <li>○ Added Door Lit Hinge Jamb</li> </ul> </li> </ul>	Page 9-48

<ul style="list-style-type: none"> <li>○ Added Door Lite Lock Jamb</li> <li>● Second paragraph, deleted 2<sup>nd</sup> sentence “The door core model has been added to the head model, and the panel core model has been added to the panel edge model”</li> </ul>	
<ul style="list-style-type: none"> <li>● Table 9-27 : <ul style="list-style-type: none"> <li>○ Results changed for Head (due to deletion of core),</li> <li>○ Results changed for Panel Edge (due to deletion of core)</li> <li>○ New rows added for Door Core and Panel Core;</li> <li>○ Jamb results were updated (they were miscopied from THERM files)</li> </ul> </li> </ul>	Page 9-50
<ul style="list-style-type: none"> <li>● Figure 9-45 – Changed 63.3 mm to 63.5 mm</li> </ul>	Page 9-52
<ul style="list-style-type: none"> <li>● Figure 9-47, Head cross section <ul style="list-style-type: none"> <li>○ Added dimension of 63.5 mm for clarity</li> <li>○ Deleted Core</li> <li>○ Changed Exterior Boundary Condition from “NFRC 2001” to “NFRC 2010”</li> </ul> </li> </ul>	Page 9-54
<ul style="list-style-type: none"> <li>● Added Door Core example, new Figure 9-48</li> </ul>	Page 9-55
<ul style="list-style-type: none"> <li>● Figure 9-49 (new figure number), Panel Edge cross section <ul style="list-style-type: none"> <li>○ Added transition dimensions of 24.5 mm for clarity</li> <li>○ Deleted Core</li> </ul> </li> </ul>	Page 9-56
<ul style="list-style-type: none"> <li>● Added Panel Core example, new Figure 9-50</li> </ul>	Page 9-57
<ul style="list-style-type: none"> <li>● Renumbered figures after 9-48 to accommodate new Door Core and Panel Core example figures</li> </ul>	Page 9-56 – end of chapter
<ul style="list-style-type: none"> <li>● Figure 9-52 (old figure 9-50), Door Lite – Head <ul style="list-style-type: none"> <li>○ Exterior U-factor surface tags corrected so that the Glass = SHGC Exterior and Frame = None</li> </ul> </li> </ul>	Page 9-59
<ul style="list-style-type: none"> <li>● Section 9.9.5. Added  “ However, NFRC has Benchmark Spreadsheets for area-weighting wood, steel-skin, and fiberglass-skin entry doors which is available on the NFRC website (<a href="http://www.nfrc.org">www.nfrc.org</a>). Instruction on the use of that spreadsheet is not included in this manual.</li> </ul>	Page 9-61