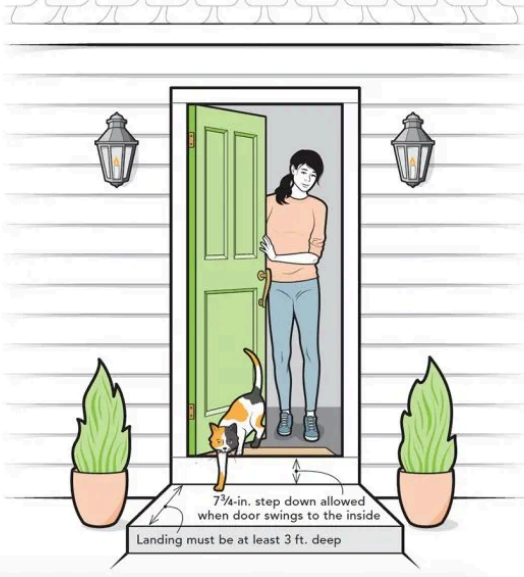
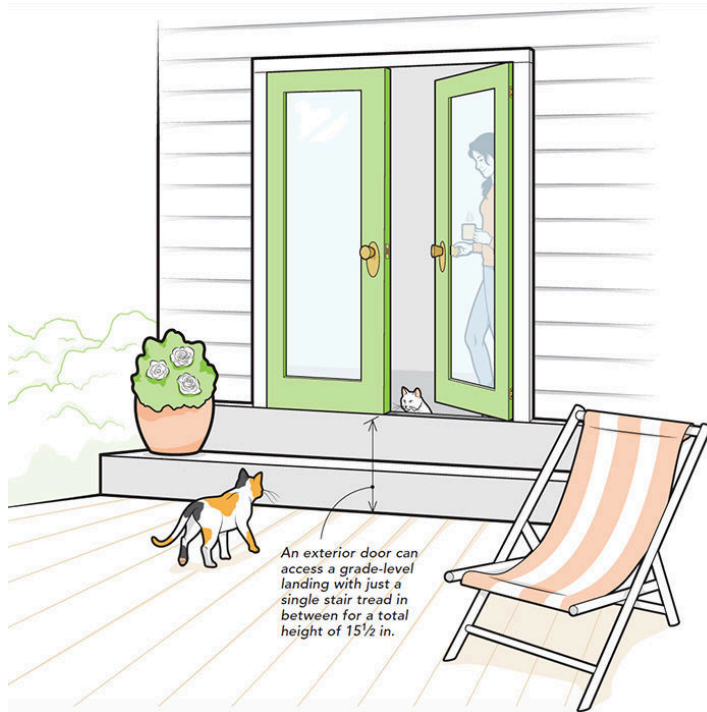


<b>Course Title:</b> Exterior Door Compliance		<b>Audience:</b> Construction Manager
<b>Needs Analysis</b> <ul style="list-style-type: none"> <li>• <b>Learners:</b> Construction Managers overseeing residential projects, particularly those working with single-family homes or similar developments.</li> <li>• <b>Experience Level:</b> Mid-level or experienced professionals who may already have a basic understanding of construction but need to refine their knowledge of International Residential Code (IRC) code compliance.</li> <li>• <b>Sticking Points:</b> Ensuring designs meet multiple regulatory requirements (e.g., accessibility, fire safety, weather resistance, structural integrity); Managing multiple vendors and contractors to ensure compliance with codes.</li> <li>• <b>KPIs:</b> Course completion; Percentage of employers reporting noticeable improvements in employees using IRC to support decision-making.</li> </ul>		
<b>Course Description:</b> This dynamic course is designed to equip you with the critical skills needed to navigate and apply the International Residential Code (IRC). You will explore real-world scenarios where your decisions directly impact the safety, accessibility, and structural integrity of homes.	<b>Learning Objectives:</b> After completing this course, learners will be able to: <ul style="list-style-type: none"> <li>• Apply IRC guidelines to select the correct materials, flashing, and configurations for exterior doors in residential construction.</li> <li>• Analyze exterior door designs to determine compliance with IRC structural, safety, and accessibility standards.</li> </ul>	
<b>Assessment Type:</b> Gamified Challenge: Correct answers throughout the questions in the challenge receive points that total up to a final score.		

Page	Page Text	Design
1	<b>Page Title:</b> Welcome to Brookstone Meadows  <b>Page Content:</b>  Welcome, [First Name]! In this simulation course, you're the Construction Manager for the Brookstone Meadows single-family home development project. Brookstone Meadows expects all your decisions to be cost-effective and comply with the structural, safety, and accessibility provisions outlined in the <b>International Residential Code (IRC)</b> .  Your first major task is to ensure that all <b>exterior doors</b> in the new homes comply with the <b>structural, safety, and accessibility</b> provisions in the IRC. Throughout this course, you'll face challenges and must make informed decisions. Click the <b>IRC icon</b> on	<b>Page style:</b> "Introduction" template page for construction series  <b>Design Elements:</b> <ul style="list-style-type: none"> <li>• Emphasize the <b>IRC Icon</b> with a tooltip or pop-up to demo how to open the sections of the IRC.</li> <li>• Include a brief example question along with the scoring system, showing how points are awarded for each correct answer.</li> </ul>

	<p>each page to review the applicable standards before making your final decisions.</p> <p>Your goal is to accumulate <b>60 points or more</b> by making the most effective decisions. This will demonstrate your ability to successfully manage construction requirements and maintain high-quality standards for the Brookstone Meadows development. Are you ready?</p>	
<p>2</p>	<p><b>Page Title:</b> Exterior Door Landing Design</p> <p><b>Page Content:</b></p> <p>You begin by inspecting the door landing designs that were submitted last week. Before approving the designs, check <b>IRC Section R311.3.2</b>, which outlines the landing and threshold height requirements. Then, determine if each design meets the code by selecting <b>Compliant</b> or <b>Non-compliant</b>.</p> <p><b>A. Compliant</b></p> <p><b>Front Door Design:</b> This design features a <b>single step</b> with a step-down height of <b>6 inches</b>.</p> <p><i>NOTE: These are example illustrations (<a href="#">Source</a>)</i></p>  <p><b>B. Compliant</b></p> <p><b>Back Door Design:</b> This design features a <b>double</b></p>	<p><b>Page style:</b> “Question with images” template page for construction series</p> <p><b>Design Elements (Examples):</b></p> <ul style="list-style-type: none"> <li>• Media: IMG_IRC1</li> <li>• Media: IMG_IRC2</li> <li>• Score - Show points earned</li> </ul> <p><b>Interaction:</b></p> <ul style="list-style-type: none"> <li>• The <b>IRC Icon</b> opens <b>Section R311.3.2</b>.</li> <li>• Use <b>interactive buttons</b> for selecting answers.</li> <li>• After click, show <b>explanation</b> beneath each image.</li> <li>• Include <b>images (like IMG_IRC1 and IMG_IRC2)</b> of the door designs to illustrate the different step/landing configurations.</li> </ul>

step with a total stair height of **10 inches**.



**Explanation:**

- **Front Door:** The 6-inch step-down height is compliant with the **IRC**, which permits a **maximum step height of 7 3/4 inches**.
- **Back Door:** The total rise of 10 inches (for two steps) is compliant with the **IRC**, which allows for a **maximum total rise of 15 1/2 inches** for steps.

3

**Page Title:** Exterior Door Materials

**Page Content:**

Next, you have a meeting with suppliers to evaluate and select the best material for the external doors based on **structural integrity** and **weather resistance**. Before you make a decision, review **Section R609** of the IRC. Then, select one type of door to recommend for Brookstone Meadows homes.

- A. **Fiberglass door** with a **solid core** and **insulated glazing**
- B. **Hollow-core metal door** with a **steel frame** and no insulation
- C. **Vinyl door** with **hollow frame** and no thermal

**Page style:**

“Question (Multiple Choice)” template page for construction series

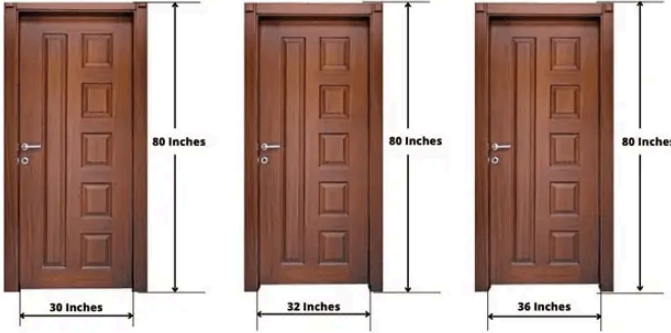
**Design Elements**

**(Examples):**

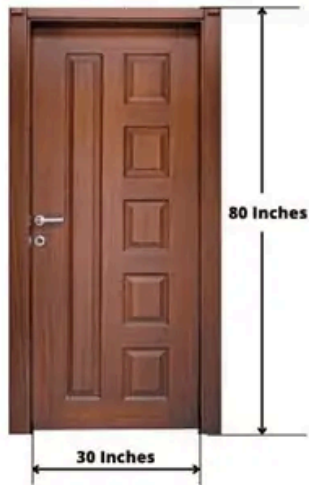
- Score - Show points earned

**Interaction:**

- The **IRC Icon** opens **Section R609**.
- Use **interactive buttons** for selecting answers. Randomize answer choices.

	<p>barrier</p> <p><b>Explanation:</b></p> <p>The <b>fiberglass door with a solid core</b> and <b>insulated glazing</b> is compliant with the <b>IRC</b> code. Fiberglass doors are <b>strong, durable</b>, and offer excellent <b>insulation</b>, which is critical for energy efficiency and protection against the elements. The <b>insulated glazing</b> helps reduce heat transfer and condensation, ensuring the door maintains its <b>thermal performance</b>. The IRC requires exterior doors to be properly insulated to prevent moisture infiltration, heat loss, and provide long-term durability.</p>	<ul style="list-style-type: none"> <li>After click, show <b>explanation</b>.</li> </ul>
<p>4</p>	<p><b>Page Title:</b> Egress Door Width</p> <p><b>Page Content:</b></p> <p>During your meeting, the suppliers also ask you to evaluate the size of the egress doors for the houses with basements. <b>IRC Section R311.2</b> outlines the accessibility codes for residential doors. Determine if each design meets the code by selecting <b>Compliant</b> or <b>Non-compliant</b>.</p> <p><i>NOTE: This is an example illustration (<a href="#">Source</a>)</i></p> <p style="text-align: center;"><b>Single Front Doors Size</b></p>  <p><b>A. Non-compliant</b></p>	<p><b>Page style:</b> “Question with images” template page for construction series</p> <p><b>Design Elements (Examples):</b></p> <ul style="list-style-type: none"> <li>Media: IMG_IRC3</li> <li>Score - Show points earned</li> </ul> <p><b>Interaction:</b></p> <ul style="list-style-type: none"> <li>The <b>IRC Icon</b> opens <b>Section R311.2</b>.</li> <li>Use <b>interactive buttons</b> for selecting answers.</li> <li>After click, show <b>explanation</b> beneath each image.</li> <li>Include <b>images (like IMG_IRC3)</b> of the door designs to illustrate the sizes of the door.</li> </ul>

## Sing




**B. Compliant**

## Single Front Doors S



**C. Compliant**

	<p><b>Size</b></p>  <p><b>Explanation:</b></p> <p><b>Door 1 is non-compliant</b> with <b>IRC accessibility</b> standards, which requires doors to be at least <b>32 inches</b> wide.</p> <p><b>Door 2 is compliant</b> with <b>IRC accessibility</b> standards. It meets the required <b>clearance</b> and <b>threshold height</b> for safe and easy access, especially for individuals with disabilities.</p> <p><b>Door 3 is compliant</b> with <b>IRC accessibility</b> standards. It meets the required <b>clearance</b> and <b>threshold height</b> for safe and easy access, especially for individuals with disabilities.</p>	
<p>5</p>	<p><b>Page Title:</b> External Door and Fire Safety</p> <p><b>Page Content:</b></p> <p>A few weeks later, the doors you selected are installed in several homes. You drive to the construction site to check on the progress, focusing on whether the doors meet the <b>fire safety</b> requirements outlined in the <b>IRC</b>. Review <b>Sections R609.1</b> and <b>R703.4</b>, and determine if each design meets the code by selecting <b>Compliant</b> or <b>Non-compliant</b>.</p> <p><i>Example Images (<a href="#">Source</a>)</i></p> <p><b>A. Compliant</b></p>	<p><b>Page style:</b> “Question with images” template page for construction series</p> <p><b>Design Elements (Examples):</b></p> <ul style="list-style-type: none"> <li>• Media: IMG_IRC4</li> <li>• Media: IMG_IRC5</li> <li>• Media: IMG_IRC6</li> <li>• Score - Show points earned</li> </ul> <p><b>Interaction:</b></p> <ul style="list-style-type: none"> <li>• The <b>IRC Icon</b> opens <b>Sections R609.1</b> and</li> </ul>



**B. Non-compliant**

**R703.4.**

- Use **interactive buttons** for selecting answers.
- After click, show **explanation** beneath each image.
- Include **images (like IMG\_IRC4, IMG\_IRC5, IMG\_IRC6)** of the door designs to illustrate flashing.



C. Non-compliant





**Explanation:**

**Door 1 is compliant** because this door frame includes the **proper flashing** installation as outlined in **Section R703.4**. Flashing is crucial in directing water away from door frames and preventing moisture from deteriorating the door's fire-resistant properties. A properly flashed door ensures that water does not seep into the door assembly, which can weaken fire-resistant materials or create gaps that compromise the door's performance in a fire.

**Door 2 is non-compliant** because this door frame does not include the **proper flashing**.

**Door 3 is non-compliant** because this door frame does not include the **proper flashing**.

<p><b>Page Content:</b></p> <p>Congratulations, [First Name]! You've completed the challenge! Here's how you did:</p> <p>Your Final Score: [Insert Score] (Out of 90 points)</p> <p><b><i>If score is 60 or higher</i></b></p> <p> You've demonstrated a solid understanding of the IRC requirements and are ready to apply these skills to your construction projects. <b>Keep up the great work, and use this knowledge to make smart, compliant decisions on the job!</b></p> <p><b><i>If score is below 60</i></b></p> <p> While you've gained valuable insights, you'll need to revisit some key concepts to ensure you're fully prepared for real-world application. <b>We recommend reviewing the material again to strengthen your understanding and make sure you're ready for success in your next project.</b></p>	<p>page for construction series</p> <p><b>Design Elements:</b></p> <ul style="list-style-type: none"><li>• Show final score.</li></ul>
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