

## WACEL SKILL MATRIX FOR SPRAYED FIRE-RESISTIVE MATERIAL (SFRM)

Skill	SFRM Special Inspector
<b>General SFRM Knowledge</b>	
1. Knows the purpose of SFRM	✓
2. Understands the organization of and use of UL Fire Resistive Directories	✓
3. Can describe the different types of SFRM	✓
4. Demonstrates an ability to review SFRM specifications to extract pertinent testing information and/or to identify issues that must be addressed by the design professional of record	✓
5. Can discuss various safety considerations that must be addressed when inspecting SFRM	✓
6. Can review and extract required testing and observation information from approved submittals	✓
7. Can discuss the differences between restrained and unrestrained assemblies	✓
<b>Field Testing and Observation</b>	
8. Knows how to properly measure SFRM thickness per ASTM E 605	✓
9. Is familiar with the wide range of testing frequency requirements that may be found in applicable publications	✓
10. Understands the difference in testing frequencies specified by applicable ASTM, building codes and standard specifications for thickness, density and adhesion	✓
11. Can describe the correct thickness testing procedures for standard structural elements	✓
12. Understands the two different SFRM density methods per ASTM E 605	✓
13. Can describe how to take and record a SFRM density sample per ASTM E 605	✓
14. Understands how to conduct an adhesion/cohesion test per ASTM E 736	✓
15. Knows how to determine and report deficient test results	✓
16. Understands the purpose of and can correctly use reduced tip thickness results	✓
17. Understands the various aspects of complete and proper SFRM application: <ul style="list-style-type: none"> <li>a. Ambient temperature</li> <li>b. Patching</li> <li>c. Underside of roof decks</li> <li>d. Painted decks</li> <li>e. Painted/primed structural members</li> </ul>	✓
18. Knows how to check proper application and thickness of intumescent mastic	✓