



## Technical Bulletin FC 2018-02

### First Release:

March 27, 2018

### Prepared by:

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Engineer

### Applicable Standards:

FORTIFIED Commercial™–Hurricane  
FORTIFIED Commercial™–High Wind  
& Hail

### Applicable Designation Level:



## Additional Approved Roofing Systems

### Abstract

This technical bulletin is intended to provide additional guidance and options for low-sloped roofing systems.

### Introduction

The FORTIFIED Commercial™ program is dedicated to providing stronger, more resilient roof cover systems that are tested and approved, and provide a known performance expectation against high winds. FORTIFIED Commercial standards now include low-sloped roof cover systems approved by the Texas Department of Insurance (TDI); ICC Evaluation Service (ICC-ES); and Florida Product Approval (FPA).

- TDI [www.tdi.texas.gov/wind/prod/indexrc.html](http://www.tdi.texas.gov/wind/prod/indexrc.html)
- ICC-ES [www.icc-es.org](http://www.icc-es.org)
- FPA [www.floridabuilding.org/pr/pr\\_app\\_srch.aspx](http://www.floridabuilding.org/pr/pr_app_srch.aspx)

This technical bulletin is to be used as an addition to section 3.1.2.1 *Low-sloped continuous roof covers* of the FORTIFIED Commercial standards.



# Low-Sloped Roofing Systems

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## TDI-Approved Roof Covers

### Low-Sloped Continuous Roof Covers

Low-sloped continuous roof covers with any of the following product approvals may be used, provided adjustments are made in design/allowable pressures as outlined in section 3.1.1.3 of the FORTIFIED Commercial standards.

- TDI Options
  - Multiple Systems: Select separate TDI-approved systems rated for each area: field, perimeter, and the corner.
  - Single System: Select a TDI-approved system rated for the corner area uplift pressures and use it for the entire roof.
  - Note: TDI does not permit edge (perimeter/corner) enhancements.

Please refer to the roof selection example from section 3.1.2.1 of the FORTIFIED Commercial standards. TDI-approved systems follow the same premise as Miami-Dade systems for multiple and single systems. Please note, TDI does not permit edge enhancements.

### Verification and Documentation

The design team shall document the following information regarding all current and active TDI-approved roof systems on the Project Construction Form & Compliance Checklist.

1. Location (Field/Perimeter/Corner)
2. TDI Evaluation ID (RC-xxx)
3. Assembly number
4. Design pressure range
5. All materials and securement details

The design team must also submit a copy of the TDI Product Evaluation Report for each approved system to the FORTIFIED Evaluator.



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## ICC-ES–Approved Roof Covers

### Low-Sloped Continuous Roof Covers

Low-sloped continuous roof covers with any of the following product approvals may be used, provided adjustments are made in design/allowable pressures as outlined in section 3.1.1.3 of the FORTIFIED Commercial standards.

- ICC-ES Roof Cover Options
  - Multiple Systems: Select separate ICC-ES–approved systems rated for each area: field, perimeter, and the corner.
  - Single System: Select a ICC-ES–approved system rated for the corner area uplift pressures and use it for the entire roof.
  - Single System - Enhanced Fastening: ICC-ES does not permit edge (perimeter/corner) enhancements.

Please refer to the roof selection example from section 3.1.2.1 of the FORTIFIED Commercial standards. ICC-ES–approved systems follow the same premise as Miami-Dade systems for multiple and single systems. Please note, ICC-ES does not permit edge enhancements.

### Verification and Documentation

The design team shall document the following information regarding all current and active ICC-ES–approved roof systems on the Project Construction Form & Compliance Checklist.

1. Location (Field/Perimeter/Corner)
2. ESR report number
3. Division number
4. Section number
5. Table and system number
6. Allowable wind uplift
7. All material and securement details

The design team must also submit a copy of the ICC-ES Report for each approved system to the FORTIFIED Evaluator.



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## FPA-Approved Roof Covers

### Low-Sloped Continuous Roof Covers

Low-sloped continuous roof covers with any of the following product approvals may be used, provided adjustments are made in design/allowable pressures as outlined in section 3.1.1.3 of the FORTIFIED Commercial standards.

- FPA Roof Cover Options
  - Multiple Systems: Select separate FPA-approved systems rated for each area: field, perimeter, and the corner.
  - Single System: Select an FPA-approved system rated for the corner area uplift pressures and use it for the entire roof.
  - Single System - Enhanced Fastening: In some instances, FPA does permit edge (perimeter/corner) enhancements. Enhancements must follow provisions stated in corresponding active FPA Evaluation Report.

Please refer to the roof selection example from section 3.1.2.1 of the FORTIFIED Commercial standards. FPA-approved systems follow the same premise as Miami-Dade systems for multiple and single systems. Please note, in some instances, FPA does permit edge enhancements that follow the provisions stated in the corresponding active FPA Evaluation Report.

### Verification and Documentation

The design team shall document the following information regarding all current and active FPA-approved roof systems on the Project Construction Form & Compliance Checklist.

1. Location (Field/Perimeter/Corner)
2. FL number
3. Design pressure
4. All material and securement details
5. Perimeter and corner enhancements
6. Enhancements calculations

The design team must also submit a copy of the FPA Evaluation Report for each approved system to the FORTIFIED Evaluator.