



BUILDING JOB SITE CARD

City of Belle Isle

ROOFING PERMIT 2017-08-091

PERMIT MUST BE POSTED ON SITE

Permit Number: 2017-08-091

Site Address: 4201 Playa Ct, 32812

Subdivision:

Description of Work: ReRoof 400 sf modified bitumen

Issue Date: 8/15/17

Parcel Number: 20-23-30-1464-00-230

Class: Residential

Issued To: Robert Batson Roofing Inc

Name: Batson, Robert

Payment Date & Method: 8.18.17 check 28266

Business Phone: 407 423 7570

Contractor License #: CCC1325487

Schedule Inspections via Email at: BDscheduling@universalengineering.com

SCHEDULE INSPECTIONS BY 4PM CUT OFF TIME

Inspection Results Will Be Sent Out the Next Business Day

"WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT."

BUILDING	INSPECTOR	DATE	COMMENTS
Demo Final			
Footing			
Stem Wall			
Slab			
Lintel/Tie Beam			
Down Pour			
Tilt Panel			
Window In-progress			
Sheathing (wall)			
Sheathing (roof)			
Framing			
Fire Rated Assembly			
Above-Ceiling			
Insulation			
Lathe			
Pool Steel & Ground			
Pool Safety			
Final			

GAS INSPECTOR DATE COMMENTS

Rough Gas			
Final Gas			

ELECTRICAL INSPECTOR DATE COMMENTS

Temp Pole			
TUG			
Underground			
Rough			
Footer Steel Bonding			
Pool Light			
PrePower			
Meter ReSet			
Final			

MECHANICAL INSPECTOR DATE COMMENTS

Above Ceiling			
Rough			
Hood Vent			
Final			

PLUMBING INSPECTOR DATE COMMENTS

Sewer			
Underground			
Rough			
Above Ceiling			
Irrigation			
Final			

ROOF INSPECTOR DATE COMMENTS

In-progress			
Final			

Schedule Inspections via Email at: BDscheduling@universalengineering.com

SCHEDULE INSPECTIONS BY 4PM CUT OFF TIME

Inspection Requests Must Be Submitted To Us On The Following Business Day



City of Belle Isle
 Universal Engineering Sciences 3532 Maggie Blvd., Orlando FL 32811
 Tel 407-581-8161 * Fax 407-581-0313 * www.universalengineering.com

RECEIVED
 AUG 14 2017

APPLICATION FOR ROOFING PERMIT

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

DATE OF APPLICATION: 8-14-17 ROOF PERMIT NUMBER 2017-08-091

PLEASE PRINT. The undersigned hereby applies for a permit to make installations as indicated below:

Project Address 4201 Playa Court, Belle Isle, FL 32809 ~~X~~ 32812

Property Owner Steven R. Mitchell Phone _____

Property Owner's Mailing Address 4201 Playa Court City Belle Isle

State FL Zip Code 32812 Parcel Id Number: 20 23 30 1646 00 230

REQUIRED! To obtain this information, please visit <http://www.ocpafi.org/Searches/ParcelSearch.aspx>

Class of Building: Old New Type of Building: Residential Commercial Other

Type of Work: New Roof ReRoof

- **REQUIRED!** Florida Product Approval Screen Printout from www.floridabuilding.org showing the Code Version
- **REQUIRED!** Florida Product Approval Installation Instructions from www.floridabuilding.org (not the manufacturer instructions)
- **REQUIRED!** Copies of your General Liability & Worker's Comp Insurance Certificate & State and Local Licenses

Please indicate the nature of work by completing the information below:

Roof Square Footage: 400 Number of Stories: 1 Job Valuation: \$ 3500.00 ^{IS = 4,000.-}

Type: Asphalt Shingles Metal Modified Bitumen Other: _____

I hereby certify that the above is true and correct to the best of my knowledge and make Application for Permit as outlined above, and if same is granted I agree to conform to all Florida Building Code Regulations and City Ordinances regulating same and in accordance with plans submitted. The issuance of this permit does not grant permission to violate any applicable Town and/or State of Florida codes and/or ordinances. By signing below, I recognize Republic Services is by legal contract the sole authorized provider of garbage, recycling, yard waste, and commercial garbage and construction debris collection and disposal services with the city limits of the City. Contractors, homeowners and commercial businesses may contact Republic Services at 407-293-8000 to setup accounts for Commercial, Construction Roll Off, or other services needed. Rates are fixed by contract and are available at City Hall or from Republic Services. The City enforces the contract through its code enforcement office. Failure to comply will result in a stop work order.

LICENSE HOLDER SIGNATURE Robert E. Batson Jr. LICENSE # CCC 1325487

LICENSE HOLDER NAME Robert E. Batson Jr. COMPANY NAME Robert Batson Roofing

Street Address 2823 E. Jersey Ave.

City Orlando State FL Zip Code 32806 Phone Number 407-423-7570

Email Address ccwaters@cfl-rr.com

Building Official: ca Date 8-15-17
 Verified Contractor's Licenses & Insurance are on file (SM) Date 8-15-17

15T 1K 25 3x5 15 40	Zoning Fee	\$	<u>30</u>
	Permit Fee	\$	<u>40</u> ✓
	Review Fee	\$	<u>0</u>
	3% Florida Surcharge	\$	<u>4</u>
	Total Permit Fee	\$	<u>74.-</u>

NOTE: The Building Permit Number is required if the Roof Installation is associated with any construction or alteration where a Building Permit has been issued. paid by check 28266 8.18.17 Building Permit Number _____

Permit Number: 2017-08-091
 Folio/Parcel ID #: _____
 Prepared by: Cynthia B. Waters

 Return to: Robert Batson Roofing
2823 E. Jersey Ave.
Orlando, FL 32806

DOC# 20170439462
 08/09/2017 07:34:53 AM Page 1 of 1
 Rec Fee: \$10.00
 Phil Diamond, Comptroller
 Orange County, FL
 MB - Ret To: ROBERT BATSON ROOFING



NOTICE OF COMMENCEMENT

State of Florida, County of Orange

The undersigned hereby gives notice that improvement will be made to certain real property, and in accordance with Chapter 713, Florida Statutes, the following information is provided in this Notice of Commencement.

1. **Description of property** (legal description of the property, and street address if available)
4201 Playa Court Belle Isle, FL 32812 2023 301646 00230
2. **General description of improvement**
Re-roof 4 sqs. of Modified Roofing
3. **Owner information or Lessee information if the Lessee contracted for the improvement**
 Name Steven R. Mitchell
 Address 4201 Playa Court Belle Isle, FL 32812
 Interest in Property _____
Name and address of fee simple titleholder (if different from Owner listed above)
 Name _____
 Address _____
4. **Contractor**
 Name Robert E. Batson Jr. Telephone Number 407-423-7570
 Address 2823 E. Jersey Ave. Orlando, FL 32806
5. **Surety** (if applicable, a copy of the payment bond is attached)
 Name _____ Telephone Number _____
 Address _____ Amount of Bond \$ _____
6. **Lender**
 Name _____ Telephone Number _____
 Address _____
7. **Persons within the State of Florida designated by Owner upon whom notices or other documents may be served as provided by §713.13(1)(a)7, Florida Statutes.**
 Name _____ Telephone Number _____
 Address _____
8. **In addition to himself or herself, Owner designates the following to receive a copy of the Lienor's Notice as provided in §713.13(1)(b), Florida Statutes.**
 Name _____ Telephone Number _____
 Address _____
9. **Expiration date of notice of commencement** (the expiration date will be 1 year from the date of recording unless a different date is specified) _____

WARNING TO OWNER: ANY PAYMENTS MADE BY THE OWNER AFTER THE EXPIRATION OF THE NOTICE OF COMMENCEMENT ARE CONSIDERED IMPROPER PAYMENTS UNDER CHAPTER 713, PART I, SECTION 713.13, FLORIDA STATUTES, AND CAN RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE COMMENCING WORK OR RECORDING YOUR NOTICE OF COMMENCEMENT.

[Signature] _____ Owner
 Signature of Owner or Lessee, or Owner's or Lessee's Authorized Officer/Director/Partner/Manager Signatory's Title/Office

The foregoing instrument was acknowledged before me this 24 day of 7/17 by Steven R. Mitchell
 as _____ for _____
 Type of authority, e.g., officer, trustee, attorney in fact Name of party on behalf of whom instrument was executed

Cynthia B. Waters _____ Cynthia B. Waters
 Signature of Notary Public - State of Florida Print, type, or stamp commissioned name of Notary Public

Personally Known State OR Produced ID X
 Type of ID Produced Driver's License

the document as referred to in this Notice of Commencement
 PHIL DIAMOND, COUNTY COMPTROLLER
 BY: [Signature], D.C.



CYNTHIA B. WATERS
 NOTARY PUBLIC
 STATE OF FLORIDA
 Comm# FF183194
 Expires 1/27/2019



CITY OF BELLE ISLE, FLORIDA
Universal Engineering Sciences 3532 Maggie Blvd., Orlando, FL 32811
Tel 407-581-8161 * Fax 407-581-0313 * www.universalengineering.com

POWER OF ATTORNEY

Date: 8-14-17

Permit #: 20708-091

I hereby name and appoint Cynthia B. Waters of _____
(print name)

Robert Batson Roofing to be my lawful attorney-in-fact to act for
(company name)

me and apply to the City of Belle Isle Building Department for a Roofing permit
(type of permit)

for work to be performed at the following location:

4201 Playa Court, Belle Isle, FL 32809 32812 and
(street address)

to sign my name and do all things necessary to this appointment.

Certified Contractor's Printed Name: Robert E. Batson Jr.

License Number: CCC1325487

Certified Contractor's Signature: Robert E. Batson Jr.

The foregoing instrument was acknowledged before me this 14 days of August of 2017

by Robert E. Batson Jr. who is personally known to me or who produced

_____ as identification and who did not take an oath.

State of Florida
County of Orange

Kristin Lachapelle

Notary Public, Orange County, Florida



KRISTIN ANNE LACHAPELLE
NOTARY PUBLIC
STATE OF FLORIDA
Comm# FF040339
Expires 8/3/2017

(seal)



City of Belle Isle

Universal Engineering Sciences 3532 Maggie Blvd., Orlando, FL 32811
 Tel 407-581-8161 * Fax 407-581-0313 * www.universalengineering.com

Product Approval Form

DATE: 8-14-17

PERMIT # 207-08-091

PROJECT ADDRESS 4201 Playa Court, Belle Isle, FL 32809 X 32812

As required by Florida Statute 553.842 and Florida Administrative Code 9B-72m, please provide the information and approval numbers of the building components listed below if they will be utilized on the building or structure. FL Approved products are listed online at www.floridabuilding.org or can be obtained from the local product supplier. The following information must be turned in with permit application and available onsite for inspections:

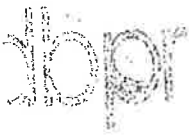
1. This Product Approval Cover Sheet
2. Internet screen from FloridaBuilding.org showing PA#, approval and code edition stamped
3. Manufacturer's installation details from FloridaBuilding.org and requirements for each product stamped

Product Type	Manufacturer	Model/Series	FL Product Approval #	Product Type	Manufacturer	Model/Series	FL Product Approval #
EXTERIOR DOORS				WALL PANELS			
Swinging				Sliding			
Sliding				Soffits			
Sectional/Rollup				Storefront			
Other				Glass Block			
				Other			
WINDOWS				ROOFING PRODUCTS			
Single/Dbl Hung				Asphalt Shingles			
Horizontal Slider				Non Struct Metal			
Casement				Roofing Tiles			
Fixed				Single Ply Roof	<u>Certainteed</u>	<u>Flintlastic</u>	<u>FL2533.</u>
Mullion				Other			
Skylights							
Other							
STRUCTURAL COMPONENTS				OTHER			
Wood Connectors							
Wood Anchors							
Truss Plates							
Insulation Forms							
Lintels							
Other							

It is the applicant's responsibility to verify that specific products have been installed in accordance with their limitations and with the minimum required design pressures for the structure. Specific compliance will be verified during field inspections.

Applicant Signature Robert E. Bahr Jr.

Date 8-14-17



Product Approval
USER: Public User

[Product Approval Menu](#) > [Product or Application Search](#) > [Application List](#) > **Application Detail**

FL # FL2533-R16
Application Type Revision
Code Version 2014 ✓
Application Status Approved



Comments
Archived

Product Manufacturer CertainTeed Corporation-Roofing
Address/Phone/Email 18 Moores Road
Malvern, PA 19355
(610) 651-5847
mark.d.harner@saint-gobain.com

Authorized Signature Mark Harner
mark.d.harner@saint-gobain.com

Technical Representative Mark D. Harner
Address/Phone/Email 18 Moores Road
Malvern, PA 19355
(610) 651-5847
Mark.D.Harner@saint-gobain.com

Quality Assurance Representative
Address/Phone/Email

Category
Subcategory

Roofing
Modified Bitumen Roof System

Compliance Method

Evaluation Report from a Florida Registered Architect or a Licensed
Florida Professional Engineer
Evaluation Report - Hardcopy Received

Florida Engineer or Architect Name who developed the Evaluation Report Robert Nieminen
Florida License PE-59166
Quality Assurance Entity UL LLC
Quality Assurance Contract Expiration Date 07/03/2017
Validated By John W. Knezevich, PE
Validation Checklist - Hardcopy Received

Certificate of Independence [FL2533 R16 COI 2016 01 COI Nieminen.pdf](#)

Referenced Standard and Year (of Standard) **Standard** **Year**
ASTM D6162 2000

ASTM D6163	2000
ASTM D6164	2005
ASTM D6222	2008
ASTM D6509	2009
FM 4470	1992
FM 4474	2004

Equivalence of Product Standards Certified By

Sections from the Code

Product Approval Method

Method 1 Option D

Date Submitted

02/04/2016

Date Validated

02/15/2016

Date Pending FBC Approval

02/16/2016

Date Approved

04/12/2016

Summary of Products

FL #
2533.1

Model, Number or Name
Flintlastic Modified Bitumen Roof Systems

Description
Modified Bitumen Roof Systems

Limits of Use

Approved for use in HVHZ: No
Approved for use outside HVHZ: Yes
Impact Resistant: N/A
Design Pressure: +N/A/-630
Other: 1.) Refer to ER Section 5 for Limits of Use. 2.) The design pressure noted in this application relates to one specific system. Refer to the ER Appendix for all systems and max design pressures.

Installation Instructions

[FL2533 R16 II 2016 02 FINAL A1 ER CERTAINTTEED MODBIT FL2533-R16.pdf](#)

Verified By: Robert Nieminen, PE PE-59166
 Created by Independent Third Party: Yes

Evaluation Reports

[FL2533 R16 AE 2016 02 FINAL ER CERTAINTTEED MODBIT FL2533-R16.pdf](#)

Created by Independent Third Party: Yes



Contact Us :: 2601 Blair Stone Road, Tallahassee FL 32399 Phone: 850-487-1824

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Product Approval Accepts:



Credit Card
Safe



APPENDIX 1: ATTACHMENT REQUIREMENTS FOR WIND UPLIFT RESISTANCE

Table	Deck	Application	Type	Description	Page
1A	Wood	New or Reroof (Tear-Off)	A-2	Mech. Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover	5-6
1B	Wood	New, Reroof (Tear-Off) or Recover	B	Mech. Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover	7
1C	Wood	New, Reroof (Tear-Off) or Recover	C	Mech. Attached Insulation, Bonded Roof Cover	8-9
1D	Wood	New, Reroof (Tear-Off) or Recover	D	Mech. Attached Insulation, Mech. Attached Base Sheet, Bonded Roof Cover	10-12
1E-1	Wood	New, Reroof (Tear-Off)	E	Prelim. Attached Insulation, Mech. Attached Base Sheet, Bonded Roof Cover	13-15
1E-2	Wood	New, Reroof (Tear-Off) or Recover	E	Non-Insulated, Mech. Attached Base Sheet, Bonded Roof Cover	16-17
1F	Wood	New or Reroof (Tear-Off)	F	Non-Insulated, Bonded Roof Cover	17
2A	Steel or Conc.	New, Reroof (Tear-Off) or Recover	B	Non-Insulated, Bonded Top Insulation, Bonded Roof Cover	18-20
2B	Steel or Conc.	New, Reroof (Tear-Off) or Recover	C	Mech. Attached Base Insulation, Bonded Roof Cover	21-25
2C	Steel or Conc.	New, Reroof (Tear-Off) or Recover	D	Mech. Attached Insulation, Mech. Attached Base Sheet, Bonded Roof Cover	26-28
3A	Concrete	New or Reroof (Tear-Off)	A-1	Prelim. Attached Insulation, Bonded Roof Cover	29-36
3B	Concrete	New or Reroof (Tear-Off)	A-3	Bonded Insulation, Bonded Roof Cover	37
3C	Concrete	New or Reroof (Tear-Off)	F	Bonded Temp Roof/Vapor Barrier, Bonded Insulation, Bonded Roof Cover	37
4A	LWIC	New or Reroof (Tear-Off)	A-1	Non-Insulated, Bonded Roof Cover	38-39
4B	LWIC	New or Reroof (Tear-Off)	A-2	Bonded Insulation, Bonded Roof Cover	40
4C	LWIC	New, Reroof (Tear-Off)	E	Mech. Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover	41-44
5A	CWF	New or Reroof (Tear-Off)	A-1	Non-Insulated, Mech. Attached Base Sheet, Bonded Roof Cover	45
5B	CWF	New or Reroof (Tear-Off)	A-2	Bonded Insulation, Bonded Roof Cover	46
5C	CWF	New, Reroof (Tear-Off) or Recover	C	Mech. Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover	46
5D	CWF	New, Reroof (Tear-Off)	E	Mech. Attached Insulation, Bonded Roof Cover	47
6A	Gypsum	Reroof (Tear-Off)	A-1	Non-Insulated, Mech. Attached Base Sheet, Bonded Roof Cover	48-49
6B	Gypsum	Reroof (Tear-Off)	A-2	Bonded Insulation, Bonded Roof Cover	50
6C	Gypsum	Reroof (Tear-Off)	C	Mech. Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover	50
6D	Gypsum	Reroof (Tear-Off)	E	Mech. Attached Insulation, Bonded Roof Cover	51
7A	Various	Recover	A-1	Non-Insulated, Mech. Attached Base Sheet, Bonded Roof Cover	52-58
7B	Various	Recover	F	Bonded Insulation, Bonded Roof Cover	58

The following notes apply to the systems outlined herein:

- The roof system evaluation herein pertains to above-deck roof components. Roof decks shall be in accordance with FBC requirements to the satisfaction of the AHJ. Load resistance of the roof deck shall be documented through proper codified and/or FBC Approval documentation.
- Unless otherwise noted, fasteners and stress plates for insulation attachment shall be as follows. Fasteners shall be of sufficient length for the following engagements:
 - Wood Deck:
 - OMG #14 Roofgrip with Flat Bottom Plate (Accurac), OMG HD with OMG 3 in. Galvalume Steel Plate, Dekfast #14 with Hex Plate or 3" Round Insulation Plate, Trufast HD with Trufast 3" Metal Insulation Plates or FlintFast #14 Fastener with FlintFast 3" Insulation Plates. Minimum 0.75-inch plywood penetration or minimum 1-inch wood plank embedment.
 - OMG #12 or #14 Roofgrip with Recessed or Flat Bottom Plate (Accurac), OMG #12 Standard or HD with OMG 3 in. Galvalume Steel Plate, Dekfast #12 or #14 with Hex Plate or 3" Round Insulation Plate, Trufast DP or HD with Trufast 3" Metal Insulation Plates or FlintFast #12 or #14 Fastener with FlintFast 3" Insulation Plates. Minimum 0.75-inch steel penetration and engage the top flute of the steel deck.
 - Steel Deck:
 - OMG #14 Roofgrip with Recessed or Flat Bottom Plate (Accurac), OMG HD or CD-10 with OMG 3 in. Galvalume Steel Plate, Dekfast #14 or DekSpike with Hex Plate or 3" Round Insulation Plate, Trufast HD or CF with Trufast 3" Metal Insulation Plates or FlintFast #14 Fastener with FlintFast 3" Insulation Plates. Minimum 1-inch embedment. Fasteners installed with a pilot hole in accordance with the fastener manufacturer's published installation instructions
 - Concrete Deck:
 - OMG #14 Roofgrip with Recessed or Flat Bottom Plate (Accurac), OMG HD or CF with Trufast 3" Metal Insulation Plates or FlintFast #14 Fastener with FlintFast 3" Insulation Plates. Minimum 1-inch embedment. Fasteners installed with a pilot hole in accordance with the fastener manufacturer's published installation instructions

3. Unless otherwise noted, insulation may be any one layer or combination of polyisocyanurate, polystyrene, wood fiberboard, perlite, GlasRoc Roof Board or gypsum-based roof board that meets the QA requirements of F.A.C. Rule 61G20-3 and is documented as meeting FBC 2603.4.1 or 2603.B, when installed with the roof cover.

4. Minimum 200 psi, minimum 2-inch lightweight insulating concrete may be substituted for rigid insulation board for System Type D (mechanically attached base sheet, bonded roof cover) whereby the base sheet fasteners are installed through the LWIC to engage the structural steel or concrete deck. The structural deck shall be of equal or greater configuration to the steel and concrete deck listings.

5. Unless otherwise noted, insulation adhesive application rates are as follows. Ribbon or bead width is at the time of application, the ribbons/beads shall expand as noted in the manufacturer's published instructions.

- Hot asphalt (HA): Full coverage at 25-30 lbs/square
- Ashland Pliodeck (A-PD): Continuous 0.75 inch wide ribbons, 12-inch o.c. Ribbons of subsequent layers shall be perpendicular to those in the layer below.
- Dow Insta-Stik (D-IS): Continuous 0.75 to 1 inch wide ribbons, 12-inch o.c.
- Dow Spray-N-Grip (D-SG): Full coverage
- Millennium One-Step Foamable Adhesive (M-OSFA): Continuous 0.25 to 0.5-inch wide ribbons, 12-inch o.c.
- Millennium PG-1 Pump Grade Adhesive (M-PG1): Continuous 0.5 to 0.75-inch wide ribbons, 12-inch o.c. (PaceCart or SpotShot)
- OMG OlyBond 500 or OlyBond Green (OB500): Continuous 0.75-inch wide ribbons, 12-inch o.c. (Note: TITESET may be used where CR-20 is referenced).
- 3M CR-20: Continuous 2.5 to 3-inch wide ribbons, 12-inch o.c. (Note: TITESET may be used where CR-20 is referenced).

Note: When multiple layers(s) of insulation and/or coverboard are installed in ribbon-applied adhesive, adhesive ribbons shall be staggered from layer-to-layer a distance of one-half the ribbon spacing.

Note: The maximum edge distance from the adhesive ribbon to the edge of the insulation board shall be not less than one-half the specified ribbons spacing.

6. Unless otherwise noted, all insulations are flat stock or taper board of the minimum thickness noted. Tapered polyisocyanurate at the following thickness limitations may be substituted with the following Maximum Design Pressure (MDP) limitations. In no case shall these values be used to 'increase' the MDP listings in the tables; rather if MDP listing below meets or exceeds that listed for a particular system in the tables, then the thinner board listed below may be used as a drop-in for the equivalent thicker material listed in the table:

➤ Ashland Pliodeck (A-PD) @ 12-inch o.c.	MDP	-105.0 psf	(Min. 1.0-inch)
➤ Ashland Pliodeck (A-PD) @ 6-inch o.c.	MDP	-277.5 psf	(Min. 1.0-inch)
➤ Dow Insta-Stik (D-IS):	MDP	-120.0 psf	(Min. 1.0-inch)
➤ Millennium One Step Foamable Adhesive (M-OSFA):	MDP	-157.5 psf	(Min. 1.0-inch)
➤ Millennium PG-1 Pump Grade Adhesive (M-PG1):	MDP	-157.5 psf	(Min. 1.0-inch)
➤ OMG OlyBond 500 (OB500):	MDP	-45.0 psf	(Min. 0.5-inch Multib-Max FA3)
➤ OMG OlyBond 500 (OB500):	MDP	-187.5 psf	(Min. 0.5-inch ISO 95+ GL)
➤ OMG OlyBond 500 (OB500):	MDP	-315.0 psf	(Min. 0.5-inch ENRGY 3)
➤ OMG OlyBond 500 (OB500):	MDP	-487.5 psf	(Min. 0.5-inch AC Foam II)
➤ 3M CR-20:	MDP	-117.5 psf	(Min. 1.0-inch)

7. Bonded polyisocyanurate insulation boards shall be maximum 4 x 4 ft.

8. For mechanically attached components or partially bonded insulation, the maximum design pressure for the selected assembly shall meet or exceed the Zone 1 design pressure determined in accordance with FBC Chapter 16, and Zones 2 and 3 shall employ an attachment density designed by a qualified design professional to resist the elevated pressure criteria. Commonly used methods are RAS 117 and FM LPDS 1-29. Assemblies marked with an asterisk* carry the limitations set forth in Section 2.2.1.5.1(a) of FM LPDS 1-29 for Zone 2/3 enhancements.

9. For fully bonded assemblies, the maximum design pressure for the selected assembly shall meet or exceed critical design pressure determined in accordance with FBC Chapter 16, and no rational analysis is permitted.

10. For mechanically attached components over existing decks, fasteners shall be tested in the existing deck for withdrawal resistance. A qualified design professional shall review the data for comparison to the minimum requirements for the system. Testing and analysis shall be in accordance with TAS 105 or ANSI/SPRI FX-1.

11. For existing substrates in a bonded recover or re-roof installation, the existing roof surface or existing roof deck shall be examined for compatibility and bond performance with the selected adhesive, and the existing roof system (for recover) shall be capable of resisting project design pressures on its own merit to the satisfaction of the AHJ, as documented through field uplift testing in accordance with ASTM E907, FM LPDS 1-52, ANSI/SPRI IA-1 or TAS 124.

12. For Recover Applications using System Type D, the insulation is optional; however, the existing roof system shall be suitable for a recover application.

13. Unless otherwise noted, refer to the following references for bonded base, ply or cap sheet applications.

CERTAINTEED FLINTLASTIC® MODIFIED BITUMEN COMPONENTS & APPLICATION METHODS			Application
Reference	Layer	Material	
BP-AA (Base and Ply sheets, Asphalt-Applied)	Base	Glasbase; All Weather/Empire Base; Flexiglas Base; Flintlastic Base 20	Hot asphalt at 20-40 lbs/square
	Ply	Flintglas Ply Sheet Type IV, Flintglas Premium Ply Sheet Type VI	Hot asphalt in 24-inch diameter spots in 30-inch grid pattern
BP-AA2 (Base, Spot-Asphalt-Applied)	Base	Yosemite Venting Base	Hot asphalt in 9-inch diameter spots in grid pattern noted herein.
BP-AA3 (Base, Spot-Asphalt-Applied)	Base	Yosemite Venting Base	Hot asphalt in 9-inch wide ribbons spaced as noted herein.
BP-AA4 (Base, Strip-Asphalt-Applied)	Base	Yosemite Venting Base	Henry #903 Adhesive at 1.5 gal/square
BP-CA2	Base/Ply	Glasbase; All Weather/Empire Base; Flexiglas Base; Flintlastic Base 20	Millennium Hurricane Force Membrane Adhesive, beads spaced 6-inch o.c.
	Base/Ply	Glasbase; All Weather/Empire Base; Flexiglas Base; Flintlastic Base 20	
BP-CA3	Base	Flintlastic Base 20; Flintlastic Poly SMS Base; Flintlastic Ultra Poly SMS Base	
	Ply	Flintlastic Base 20; Flintlastic Poly SMS Base; Flintlastic Ultra Poly SMS Base	Hot asphalt at 20-40 lbs/square
SBS-AA (SBS, Asphalt-Applied)	Cap	Flintlastic Cap 30; Flintlastic Cap 30 CoolStar; Flintlastic FR Cap 30; Flintlastic FR Cap 30 CoolStar; Flintlastic FR Dual Cap; Flintlastic FR-P; Flintlastic FR-P CoolStar; Flintlastic Premium FR-P; Flintlastic Premium FR-P CoolStar; Flintlastic GMS; Flintlastic GMS CoolStar; Flintlastic Premium GMS; Flintlastic Premium GMS CoolStar	
	Base	Flintlastic Base 20; Flintlastic Poly SMS Base; Flintlastic Ultra Poly SMS Base	
SBS-CA1 (SBS, Cold-Applied)	Note:	Base ply cures overnight prior to application of the cap ply.	
	Cap	Flintlastic FR Cap 30; Flintlastic FR Cap 30 CoolStar; Flintlastic FR Dual Cap; Flintlastic FR-P; Flintlastic FR-P CoolStar; Flintlastic Premium FR-P; Flintlastic Premium FR-P CoolStar	FlintBond Brush or Karnak No. 81 Cold Process Modified Bitumen Adhesive Brush Grade at 1 gal/square
SBS-CA2 (SBS, Cold-Applied)	Base	Flintlastic Base 20; Flintlastic Poly SMS Base; Flintlastic Ultra Poly SMS Base	
	Ply	Flintlastic Base 20; Flintlastic Poly SMS Base; Flintlastic Ultra Poly SMS Base	Henry #903 Adhesive at 1.5 gal/square.
SBS-CA3 (SBS, Cold-Applied)	Cap	Flintlastic Cap 30; Flintlastic Cap 30 CoolStar; Flintlastic FR Cap 30; Flintlastic FR Cap 30 CoolStar; Flintlastic FR Dual Cap; Flintlastic FR-P; Flintlastic FR-P CoolStar; Flintlastic Premium FR-P; Flintlastic Premium FR-P CoolStar; Flintlastic GMS; Flintlastic GMS CoolStar; Flintlastic Premium GMS; Flintlastic Premium GMS CoolStar	
	Base	Flintlastic Base 20; Flintlastic Poly SMS Base; Flintlastic Ultra Poly SMS Base	
SBS-CA3 (SBS, Cold-Applied)	Ply	Flintlastic Base 20; Flintlastic Poly SMS Base; Flintlastic Ultra Poly SMS Base	
	Cap	Flintlastic Cap 30; Flintlastic Cap 30 CoolStar; Flintlastic FR Cap 30; Flintlastic FR Cap 30 CoolStar; Flintlastic FR Dual Cap; Flintlastic FR-P; Flintlastic FR-P CoolStar; Flintlastic Premium FR-P; Flintlastic Premium FR-P CoolStar; Flintlastic GMS; Flintlastic GMS CoolStar; Flintlastic Premium GMS; Flintlastic Premium GMS CoolStar	Millennium Hurricane Force Membrane Adhesive, beads spaced 6-inch o.c.

CERTAINTED FLINTLASTIC® MODIFIED BITUMEN COMPONENTS & APPLICATION METHODS (CONTINUED)			
Reference	Layer	Material	Application
SBS-TA (SBS, Torch-Applied)	Base	Flintlastic Ultra Poly SMS Base; Flintlastic Base 20 T	Torch-Applied
	Ply	Flintlastic Ultra Poly SMS Base; Flintlastic Base 20 T	
	Cap	Flintlastic FR Cap 30 T; Flintlastic FR Cap 30 T CoolStar; Flintlastic GTS; Flintlastic GTS CoolStar; Flintlastic GTS-FR; Flintlastic GTS-FR CoolStar; FlintClad	
APP-TA (APP, Torch-Applied)	Base	Flintlastic APP Base T; Flintlastic STA; Flintlastic STA Plus	Torch-Applied
	Cap	Flintlastic STA; Flintlastic STA Plus; Flintlastic GTA; Flintlastic GTA CoolStar; Flintlastic GTA-FR; Flintlastic GTA-FR CoolStar	
SBS-SA-H (SBS, Self-Adhering, Hybrid Systems)	Base/Ply	Black Diamond Base Sheet; Flintlastic Ultra Glass SA	Self-Adhering
	Base	Flintlastic SA PlyBase; Flintlastic SA Mid Ply	
	Ply	Flintlastic SA PlyBase; Flintlastic SA Mid Ply	
SBS-SA (SBS, Self-Adhering)	Cap	Flintlastic SA Cap; Flintlastic SA Cap CoolStar; Flintlastic SA Cap FR; Flintlastic SA Cap FR CoolStar	Self-Adhering

- 14. Insulation is optional for Recover or Concrete Deck Applications using System Type D (Mechanically Attached Base Sheet, Bonded Roof Cover).
- 15. "MDP" = Maximum Design Pressure is the result of testing for wind load resistance based on allowable wind loads. Refer to FBC 1609 for determination of design wind loads.

TABLE 1E-1: WOOD DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)

SYSTEM TYPE 5: NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BORED WOOD COVER

System No.	Deck (See Note 1)	Base Sheet			Attach	Roof Cover		MDR (psf)
		Base	Fasteners			Ply	Cap	
SELF-ADHERING SYSTEMS:								
W-48	Min. 15/32-inch plywood at max 24-inch spans	Flintlastic SA NailBase	Min. 1-inch long, 12 ga. Simplex Metal Cap Nails	6-inch o.c. at min. 2-inch lap and 6-inch o.c. in four, equally spaced, staggered center rows	(Optional) SBS-SA	SBS-SA	-52.5	
W-49	Min. 19/32-inch plywood at max. 24-inch spans	Flintlastic SA NailBase	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails	8-inch o.c. at min. 2-inch lap and 8-inch o.c. in three, equally spaced, staggered center rows	(Optional) SBS-SA	SBS-SA	-52.5	
W-50	Min. 19/32-inch plywood at max. 24-inch spans	Flintlastic SA NailBase	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails	8-inch o.c. at min. 2-inch lap and 8-inch o.c. in three, equally spaced, staggered center rows	(Optional) SBS-SA	SBS-SA	-60.0	
W-51	Min. 19/32-inch plywood at max 24-inch spans	Flintlastic SA NailBase	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails	6-inch o.c. at min. 2-inch lap and 6-inch o.c. in four, equally spaced, staggered center rows	(Optional) SBS-SA	SBS-SA	-75.0	
W-52	Min. 19/32-inch plywood at max 24-inch spans	Flintlastic SA NailBase	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails	4-inch o.c. at min. 2-inch lap and 4-inch o.c. in four, equally spaced, staggered center rows	(Optional) SBS-SA	SBS-SA	-105.0	
HYBRID SYSTEMS:								
W-53	Min. 19/32-inch exterior grade plywood at max. 24-inch spans	Glasbase; Flexiglas; Flintlastic Base 20; All Weather / Empire Base; Poly SMS Base; Ultra Poly SMS Base	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails	9-inch o.c. at 4-inch lap and 12-inch o.c. in two, equally spaced, staggered center rows	SBS-SA-H	SBS-AA, SBS-TA or APP-TA	-45.0*	
W-54	Min. 15/32-inch plywood at max 24-inch spans	Glasbase; Flexiglas; Flintlastic Base 20; Poly SMS Base; Ultra Poly SMS Base	Min. 1-inch long, 12 ga. Simplex Metal Cap Nails	6-inch o.c. at 3-inch lap and 6-inch o.c. in four, equally spaced, staggered center rows	SBS-SA-H	SBS-AA, SBS-TA or APP-TA	-52.5	
W-55	Min. 19/32-inch plywood at max 24-inch spans	Glasbase; Flexiglas; Flintlastic Base 20; Poly SMS Base; Ultra Poly SMS Base	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails	8-inch o.c. at 4-inch lap and 8-inch o.c. in three, equally spaced, staggered center rows	SBS-SA-H	SBS-AA, SBS-TA or APP-TA	-52.5	
W-56	Min. 19/32-inch plywood at max 24-inch spans	Glasbase; Flexiglas; Flintlastic Base 20; Poly SMS Base; Ultra Poly SMS Base	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails	8-inch o.c. at 4-inch lap and 8-inch o.c. in three, equally spaced, staggered center rows	SBS-SA-H	SBS-AA, SBS-TA or APP-TA	-60.0	
W-57	Min. 19/32-inch plywood at max 24-inch spans	Glasbase; Flexiglas; Flintlastic Base 20; Poly SMS Base; Ultra Poly SMS Base	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails	6-inch o.c. at 4-inch lap and 6-inch o.c. in four, equally spaced, staggered center rows	SBS-SA-H	SBS-AA, SBS-TA or APP-TA	-82.5	

TABLE 1E-1: WOOD DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)

System No.	Deck (See Note 1)	Base Sheet			Attach	Roof Cover		MDP (psf)
		Base	Fasteners	Cap		Ply	Cap	
W-58	Min. 19/32-inch plywood at max 24-inch spans	Glasbase; Flexiglas; Flintlastic Base 20; Poly SMS Base; Ultra Poly SMS Base	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails	4-inch o.c. at 3-inch lap and 4-inch o.c. in four, equally spaced, staggered center rows	SBS-SA-H	SBS-AA, SBS-TA or APP-TA	-105.0	
CONVENTIONAL SYSTEMS:								
W-59	Min. 19/32-inch exterior grade plywood at max. 24-inch spans	Glasbase; Flexiglas; Flintlastic Base 20; All Weather / Empire Base; Poly SMS Base; Ultra Poly SMS Base; Yosemite	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails	9-inch o.c. at 4-inch lap and 12-inch o.c. in two, equally spaced, staggered center rows	BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0*	
W-60	Min. 15/32-inch exterior grade plywood at max. 24-inch spans	Glasbase; Flexiglas; Flintlastic Base 20; All Weather / Empire Base; Poly SMS Base; Yosemite	Simplex MAXX Cap	9-inch o.c. at 2-inch lap and 18-inch o.c. in two, equally spaced, staggered center rows	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0*	
W-61	Min. 15/32-inch exterior grade plywood at max. 24-inch spans	Flintlastic APP Base T	Simplex MAXX Cap	9-inch o.c. at 2-inch lap and 18-inch o.c. in two, equally spaced, staggered center rows	(Optional) APP-TA	APP-TA	-45.0*	
W-62	Min. 15/32-inch plywood at max 24-inch spans	Glasbase; Flexiglas; Flintlastic Base 20; All Weather / Empire Base; Poly SMS Base; Ultra Poly SMS Base; Yosemite	Min. 1-inch long, 12 ga. Simplex Metal Cap Nails	6-inch o.c. at 3-inch lap and 6-inch o.c. in four, equally spaced, staggered center rows	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-52.5	
W-63	Min. 19/32-inch plywood at max 24-inch spans	Glasbase; Flexiglas; Flintlastic Base 20; Poly SMS Base; Ultra Poly SMS Base; Yosemite	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails	8-inch o.c. at 4-inch lap and 8-inch o.c. in three, equally spaced, staggered center rows	BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-52.5	
W-64	Min. 15/32-inch exterior grade plywood at max. 24-inch spans	Glasbase; Flexiglas; Flintlastic Base 20; All Weather / Empire Base; Poly SMS Base; Yosemite	Simplex MAXX Cap	9-inch o.c. at 2-inch lap and 12-inch o.c. in two, equally spaced, staggered center rows	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-52.5	
W-65	Min. 15/32-inch exterior grade plywood at max. 24-inch spans	Flintlastic APP Base T	Simplex MAXX Cap	9-inch o.c. at 2-inch lap and 12-inch o.c. in two, equally spaced, staggered center rows	(Optional) APP-TA	APP-TA	-52.5	
W-66	Min. 19/32-inch plywood at max 24-inch spans	Glasbase; Flexiglas; Flintlastic Base 20; Poly SMS Base; Ultra Poly SMS Base; Yosemite	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails	8-inch o.c. at 4-inch lap and 8-inch o.c. in three, equally spaced, staggered center rows	BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-60.0	
W-67	Min. 15/32-inch plywood at max 24-inch spans	Glasbase; Flexiglas; Flintlastic Base 20; All Weather / Empire Base; Poly SMS Base; Ultra Poly SMS Base; Yosemite	Cap nails: 1-inch diameter, 0.032-inch thick metal cap with 0.120-inch shank diameter, annular ring shank nails.	6-inch o.c. at 4-inch lap and 6-inch o.c. at five (5) equally spaced, staggered center rows	(Optional) BP-AA, SBS-AA or SBS-TA	SBS-AA or SBS-TA	-67.5	

TABLE 1E-1: WOOD DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)
 SYSTEM TYPE B: NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER

System No.	Deck (See Note 1)	Base Sheet			Attach	Roof Cover		MDP (psf)
		Base	Fasteners	Cap		Ply	Cap	
W-68	Min. 19/32-inch plywood at max 24-inch spans	Glasbase; Flexiglas; Flintlastic Base 20; Poly SMS Base; Ultra Poly SMS Base; Yosemite	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails	6-inch o.c. at 4-inch lap and 6-inch o.c. in four, equally spaced, staggered center rows	BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-82.5	
W-69	Min. 15/32-inch exterior grade plywood at max. 24-inch spans	Glasbase; Flexiglas; Flintlastic Base 20; All Weather / Empire Base; Poly SMS Base; Yosemite	Simplex MAXX Cap	6-inch o.c. at 2-inch lap and 6-inch o.c. in two, equally spaced, staggered center rows	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-90.0	
W-70	Min. 15/32-inch exterior grade plywood at max. 24-inch spans	Flintlastic APP Base T	Simplex MAXX Cap	6-inch o.c. at 2-inch lap and 6-inch o.c. in two, equally spaced, staggered center rows	(Optional) APP-TA	APP-TA	-90.0	
W-71	Min. 19/32-inch plywood at max 24-inch spans	Glasbase; Flexiglas; Flintlastic Base 20; Poly SMS Base; Ultra Poly SMS Base; Yosemite	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails	4-inch o.c. at 3-inch lap and 4-inch o.c. in four, equally spaced, staggered center rows	BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-105.0	
W-72	Min. 15/32-inch exterior grade plywood at max. 24-inch spans	Glasbase; Flexiglas; Flintlastic Base 20; All Weather / Empire Base; Poly SMS Base; Yosemite	Simplex MAXX Cap	6-inch o.c. at 2-inch lap and 6-inch o.c. in three, equally spaced, staggered center rows	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-105.0	
W-73	Min. 15/32-inch exterior grade plywood at max. 24-inch spans	Flintlastic APP Base T	Simplex MAXX Cap	6-inch o.c. at 2-inch lap and 6-inch o.c. in three, equally spaced, staggered center rows	(Optional) APP-TA	APP-TA	-105.0	

TABLE 1E-2: WOOD DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER

System No.	Deck (See Note 1)	Base Sheet		Fasteners	Attach	Roof Cover		MDP (psf)
		Base	Deck			Ply	Cap	
SELF-ADHERING SYSTEMS:								
W-74	Min. 19/32-inch plywood at max 24-inch spans	Flintlastic SA NailBase	See Note 2	Flintfast 3 in. Insulation Plates with FlintFast #12 or #14; Trufast 3" Metal Insulation Plates with DP or HD; OMG 3 in. Round Metal Plates with OMG #14 HD	8-inch o.c. at min. 3-inch lap and 8-inch o.c. in two, equally spaced, staggered center rows. Stress plates shall be primed with FlintPrime (ASTM D41) primer or FlintPrime SA	(Optional) SBS-SA	SBS-SA	-82.5*
W-75	Min. 15/32-inch plywood at max 24-inch spans	Flintlastic SA NailBase	See Note 2	Flintfast 3 in. Insulation Plates with FlintFast #12 or #14; Trufast 3" Metal Insulation Plates with DP or HD; OMG 3 in. Round Metal Plates with OMG #14 HD	6-inch o.c. at min. 2-inch lap and 6-inch o.c. in three, equally spaced, staggered center rows. Stress plates shall be primed with FlintPrime (ASTM D41) primer or FlintPrime SA.	(Optional) SBS-SA	SBS-SA	-97.5*
W-76	Min. 15/32-inch plywood at max 24-inch spans	Flintlastic SA NailBase	See Note 2	Flintfast 3 in. Insulation Plates with FlintFast #12 or #14; Trufast 3" Metal Insulation Plates with DP or HD; OMG 3 in. Round Metal Plates with OMG #14 HD	6-inch o.c. at min. 2-inch lap and 6-inch o.c. in four, equally spaced, staggered center rows. Stress plates shall be primed with FlintPrime (ASTM D41) primer or FlintPrime SA.	(Optional) SBS-SA	SBS-SA	-127.5*
HYBRID SYSTEMS:								
W-77	Min. 15/32-inch plywood at max 24-inch spans	Glasbase; Flexiglas; Flintlastic Base 20; Poly SMS Base; Ultra Poly SMS Base	Flintfast 3 in. Insulation Plates with FlintFast #12 or #14; Trufast 3" Metal Insulation Plates with DP or HD; OMG 3 in. Round Metal Plates with OMG #14 HD	See Note 2	6-inch o.c. at 4-inch lap and 6-inch o.c. in three, equally spaced, staggered center rows. Stress plates shall be primed with FlintPrime (ASTM D41) primer or FlintPrime SA.	SBS-SA-H	SBS-AA, SBS-TA or APP-TA	-97.5
W-78	Min. 19/32-inch plywood at max 24-inch spans	Glasbase; Flexiglas; Flintlastic Base 20; Poly SMS Base; Ultra Poly SMS Base	See Note 2	See Note 2	7-inch o.c. at 3-inch lap and 7-inch o.c. in three, equally spaced, staggered center rows	SBS-SA-H	SBS-AA, SBS-TA or APP-TA	-105.0
W-79	Min. 15/32-inch plywood at max 24-inch spans	Glasbase; Flexiglas; Flintlastic Base 20; Poly SMS Base; Ultra Poly SMS Base	Flintfast 3 in. Insulation Plates with FlintFast #12 or #14; Trufast 3" Metal Insulation Plates with DP or HD; OMG 3 in. Round Metal Plates with OMG #14 HD	See Note 2	6-inch o.c. at 4-inch lap and 6-inch o.c. in four, equally spaced, staggered center rows. Stress plates shall be primed with FlintPrime (ASTM D41) primer or FlintPrime SA.	SBS-SA-H	SBS-AA, SBS-TA or APP-TA	-127.5
CONVENTIONAL SYSTEMS:								
W-80	Min. 23/32-inch exterior grade plywood at max. 24-inch spans	Glasbase; All Weather/Empire Base; Flexiglas Base; Flintlastic Base 20; Yosemite	See Note 2	See Note 2	12-inch o.c. at 4-inch lap and 36-inch o.c. in two, equally spaced, staggered center rows	BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-30.0*
W-81	Min. 23/32-inch exterior grade plywood at max. 24-inch spans	Glasbase; All Weather/Empire Base; Flexiglas Base; Flintlastic Base 20; Yosemite	See Note 2	See Note 2	12-inch o.c. at 4-inch lap and 24-inch o.c. in two, equally spaced, staggered center rows	BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0*

TABLE 1E-2: WOOD DECKS - NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER

System No.	Deck (See Note 1)	Base Sheet			Attach	Roof Cover		MDP (psf)
		Base	Fasteners	Fasteners		Ply	Cap	
W-82	Min. 23/32-inch exterior grade plywood at max. 24-inch spans	Poly SMS Base; Ultra Poly SMS Base	See Note 2	See Note 2	12-inch o.c. at 4-inch lap and 36-inch o.c. in two, equally spaced, staggered center rows	BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0*
W-83	Min. 15/32-inch plywood at max 24-inch spans	Glasbase; Flexiglas; Flintlastic Base 20; Poly SMS Base; Ultra Poly SMS Base; Yosemite	Flintfast 3 in. Insulation Plates with FlintFast #12 or #14; Trufast 3" Metal Insulation Plates with DP or HD; OMG 3 in. Round Metal Plates with OMG #14 HD	OMG 3 in. Round Metal Plates with OMG #14 HD	6-inch o.c. at 4-inch lap and 6-inch o.c. in three, equally spaced, staggered center rows	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-97.5
W-84	Min. 15/32-inch plywood at max 24-inch spans	Flintlastic APP Base T	OMG 3 in. Round Metal Plates with OMG #14 HD	OMG 3 in. Round Metal Plates with OMG #14 HD	6-inch o.c. at 4-inch lap and 6-inch o.c. in three, equally spaced, staggered center rows.	APP-TA	APP-TA	-97.5
W-85	Min. 15/32-inch plywood at max 24-inch spans	Glasbase; Flexiglas; Flintlastic Base 20; All Weather / Empire Base; Poly SMS Base; Ultra Poly SMS Base; Yosemite	Flintfast 3 in. Insulation Plates with FlintFast #14; Trufast 3" Metal Insulation Plates with Trufast HD	Flintfast 3 in. Insulation Plates with FlintFast #14; Trufast 3" Metal Insulation Plates with Trufast HD	8-inch o.c. at 4-inch lap and 8-inch o.c. at three (3) equally spaced, staggered center rows	(Optional) BP-AA, SBS-AA or SBS-TA	SBS-AA or SBS-TA	-97.5
W-86	Min. 19/32-inch plywood at max 24-inch spans	Glasbase; Flexiglas; Flintlastic Base 20; Poly SMS Base; Ultra Poly SMS Base; Yosemite	See Note 2	See Note 2	7-inch o.c. at 3-inch lap and 7-inch o.c. in three, equally spaced, staggered center rows	BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-105.0
W-87	Min. 19/32-inch plywood at max 24-inch spans	Flintlastic APP Base T	OMG 3 in. Round Metal Plates with OMG #14 HD or Dekfast Hex Plate with Dekfast #14	OMG 3 in. Round Metal Plates with OMG #14 HD or Dekfast Hex Plate with Dekfast #14	7-inch o.c. at 3-inch lap and 7-inch o.c. in three, equally spaced, staggered center rows	APP-TA	APP-TA	-105.0
W-88	Min. 15/32-inch plywood at max 24-inch spans	Glasbase; Flexiglas; Flintlastic Base 20; Poly SMS Base; Ultra Poly SMS Base; Yosemite	Flintfast 3 in. Insulation Plates with FlintFast #12 or #14; Trufast 3" Metal Insulation Plates with DP or HD; OMG 3 in. Round Metal Plates with OMG #14 HD	Flintfast 3 in. Insulation Plates with FlintFast #12 or #14; Trufast 3" Metal Insulation Plates with DP or HD; OMG 3 in. Round Metal Plates with OMG #14 HD	6-inch o.c. at 4-inch lap and 6-inch o.c. in four, equally spaced, staggered center rows	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-127.5
W-89	Min. 15/32-inch plywood at max 24-inch spans	Flintlastic APP Base T	OMG 3 in. Round Metal Plates with OMG #14 HD	OMG 3 in. Round Metal Plates with OMG #14 HD	6-inch o.c. at 4-inch lap and 6-inch o.c. in four, equally spaced, staggered center rows.	APP-TA	APP-TA	-127.5

TABLE 1F: WOOD DECKS - NEW CONSTRUCTION OR REROOF (TEAR-OFF)

System No.	Deck (See Note 1)	Roof Cover			MDP (psf)
		Primer	Base	Ply	
W-90	Min. 19/32-inch plywood at max 24-inch spans	FlintPrime or FlintPrime SA	SBS-SA	(Optional) SBS-SA	-127.5



CERTIFICATE OF LIABILITY INSURANCE

ROBB001

OP ID: KO

DATE (MM/DD/YYYY)
05/16/2017

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER J.W. Edens & Company Commercial Ins of Brevard, Inc 325 Fifth Avenue, Suite 108 Indialantic, FL 32903 Scott M. Steele, AAI	CONTACT NAME: Scott M. Steele, AAI PHONE (A/C, No, Ext): 321-725-7000 FAX (A/C, No): 321-725-7856 E-MAIL ADDRESS: <hr/> <table style="width: 100%;"> <tr> <td style="text-align: center;">INSURER(S) AFFORDING COVERAGE</td> <td style="text-align: center;">NAIC #</td> </tr> <tr> <td>INSURER A : Axis Surplus Ins. Co.</td> <td style="text-align: center;">26620</td> </tr> <tr> <td>INSURER B :</td> <td></td> </tr> <tr> <td>INSURER C :</td> <td></td> </tr> <tr> <td>INSURER D :</td> <td></td> </tr> <tr> <td>INSURER E :</td> <td></td> </tr> <tr> <td>INSURER F :</td> <td></td> </tr> </table>	INSURER(S) AFFORDING COVERAGE	NAIC #	INSURER A : Axis Surplus Ins. Co.	26620	INSURER B :		INSURER C :		INSURER D :		INSURER E :		INSURER F :	
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INSURER C :															
INSURER D :															
INSURER E :															
INSURER F :															
INSURED Robert Batson Roofing, Inc. Attn: Cynthia Batson 2823 E. Jersey Ave. Orlando, FL 32806															

COVERAGES CERTIFICATE NUMBER: REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS																
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <table style="width: 100%; border: none;"> <tr> <td style="border: none;"><input type="checkbox"/> CLAIMS-MADE</td> <td style="border: none;"><input checked="" type="checkbox"/> OCCUR</td> </tr> </table> GEN'L AGGREGATE LIMIT APPLIES PER: <input checked="" type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:	<input type="checkbox"/> CLAIMS-MADE	<input checked="" type="checkbox"/> OCCUR			FLGLN03499AX	05/19/2017	05/19/2018	<table style="width: 100%; border: none;"> <tr><td>EACH OCCURRENCE</td><td style="text-align: right;">\$ 1,000,000</td></tr> <tr><td>DAMAGE TO RENTED PREMISES (Ea occurrence)</td><td style="text-align: right;">\$ 50,000</td></tr> <tr><td>MED EXP (Any one person)</td><td style="text-align: right;">\$ 5,000</td></tr> <tr><td>PERSONAL & ADV INJURY</td><td style="text-align: right;">\$ 1,000,000</td></tr> <tr><td>GENERAL AGGREGATE</td><td style="text-align: right;">\$ 2,000,000</td></tr> <tr><td>PRODUCTS - COM/OP AGG</td><td style="text-align: right;">\$ 2,000,000</td></tr> <tr><td></td><td style="text-align: right;">\$</td></tr> </table>	EACH OCCURRENCE	\$ 1,000,000	DAMAGE TO RENTED PREMISES (Ea occurrence)	\$ 50,000	MED EXP (Any one person)	\$ 5,000	PERSONAL & ADV INJURY	\$ 1,000,000	GENERAL AGGREGATE	\$ 2,000,000	PRODUCTS - COM/OP AGG	\$ 2,000,000		\$
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	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N	N/A				<table style="width: 100%; border: none;"> <tr> <td style="border: none;"></td> <td style="border: none;">PER STATUTE</td> <td style="border: none;">OTH-ER</td> <td style="border: none;"></td> </tr> <tr><td>E.L. EACH ACCIDENT</td><td></td><td></td><td style="text-align: right;">\$</td></tr> <tr><td>E.L. DISEASE - EA EMPLOYEE</td><td></td><td></td><td style="text-align: right;">\$</td></tr> <tr><td>E.L. DISEASE - POLICY LIMIT</td><td></td><td></td><td style="text-align: right;">\$</td></tr> </table>		PER STATUTE	OTH-ER		E.L. EACH ACCIDENT			\$	E.L. DISEASE - EA EMPLOYEE			\$	E.L. DISEASE - POLICY LIMIT			\$
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E.L. DISEASE - POLICY LIMIT			\$																				

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

CERTIFICATE HOLDER

CANCELLATION

<p style="text-align: center;">CITYBE1</p> <p>City of Belle Isle 1600 Nela Avenue Belle Isle, FL 32809</p>	<p>SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.</p> <p>AUTHORIZED REPRESENTATIVE</p> <p style="text-align: center;"><i>Scott M. Steele</i></p>
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FLORIDA ROOFING, SHEET METAL & AIR CONDITIONING CONTRACTORS ASSOCIATION

SELF INSURERS FUND

1-800-767-5772 • FAX (407) 571-2520

CERTIFICATE OF INSURANCE

ISSUED TO:

City of Belle Isle
 1600 Nela Ave.
 Belle Isle, FL 32809

COPY PROVIDED TO:

Robert Batson Roofing, Inc.
 2823 E. Jersey St.
 Orlando, FL 32806-5029

Attention:

Robert Batson Roofing, Inc.

This is to Certify that: 2823 E. Jersey St.
 Orlando, FL 32806-5029

being subject to the provisions of the Florida Workers' Compensation Act, has secured the payment of compensation by insuring their risk with the FLORIDA ROOFING, SHEET METAL & AIR CONDITIONING CONTRACTORS ASSOCIATION SELF INSURERS FUND, 4099 Metric Drive, Winter Park, FL 32792.

COVERAGE NUMBER: 870-009884

LIMITS

EFFECTIVE DATE: 1/1/2017

Workers' Compensation: Statutory - State of Florida

EXPIRATION DATE: 1/1/2018

Employers' Liability: \$100,000.00 Each Accident
 \$100,000.00 Disease, Each Employee
 \$500,000.00 Disease, Policy Limit

REMARKS: Non-cancelable, without 30 days prior written notice, except for non-payment of premium which will be a 10 day written notice.

This certificate is issued as a matter of information only, is not a policy and of itself does not afford any insurance. Nothing contained in this certificate shall be constructed as extending coverage not afforded by the policy(ies) shown above or as affording insurance to any insured not named above. This provides coverage for Florida policyholders and Florida domiciled employees only.

By:

Brett Stiegel, Administrator
 FRSA-SIF

By:

Debra Guidry, CPCU, Underwriting Manager
 FRSA-SIF



**STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION**

(850) 487-1395

**CONSTRUCTION INDUSTRY LICENSING BOARD
1940 NORTH MONROE STREET
TALLAHASSEE FL 32399-0783**

**BATSON, ROBERT E JR
ROBERT BATSON ROOFING INC
2823 S JERSEY ST
ORLANDO FL 32806**

Congratulations! With this license you become one of the nearly one million Floridians licensed by the Department of Business and Professional Regulation. Our professionals and businesses range from architects to yacht brokers, from boxers to barbecue restaurants, and they keep Florida's economy strong.

Every day we work to improve the way we do business in order to serve you better. For information about our services, please log onto www.myfloridalicense.com. There you can find more information about our divisions and the regulations that impact you, subscribe to department newsletters and learn more about the Department's initiatives.

Our mission at the Department is: License Efficiently, Regulate Fairly. We constantly strive to serve you better so that you can serve your customers. Thank you for doing business in Florida, and congratulations on your new license!



**STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND
PROFESSIONAL REGULATION**

CCC1325487

ISSUED: 06/14/2016

**CERTIFIED ROOFING CONTRACTOR
BATSON, ROBERT E JR
ROBERT BATSON ROOFING INC**

**IS CERTIFIED under the provisions of Ch. 489 FS.
Expiration date : AUG 31, 2018 L1806140000988**

DETACH HERE

RICK SCOTT, GOVERNOR

KEN LAWSON, SECRETARY

**STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
CONSTRUCTION INDUSTRY LICENSING BOARD**

LICENSE NUMBER

CCC1325487

The **ROOFING CONTRACTOR**
Named below IS **CERTIFIED**
Under the provisions of Chapter 489 FS.
Expiration date: **AUG 31, 2018**

**BATSON, ROBERT E JR
ROBERT BATSON ROOFING INC
2823 S JERSEY ST
ORLANDO FL 32806**



ISSUED: 06/14/2016

DISPLAY AS REQUIRED BY LAW

SEQ # L1806140000988

Scott Randolph, Tax Collector

Local Business Tax Receipt

Orange County, Florida

This local business tax receipt is in addition to and not in lieu of any other tax required by law or municipal ordinance. Businesses are subject to regulation of zoning, health and other lawful authorities. This receipt is valid from October 1 through September 30 of receipt year. Delinquent penalty is added October 1.

	2016	EXPIRES	9/30/2017	1806-0002405
1806	CERT ROOFING CONTR	\$30.00	1	EMPLOYEE ; 5000 BUSINESS OFFICE
				\$30.00 1 EMPLOYEE ;

TOTAL TAX \$60.00
 PREVIOUSLY PAID \$60.00
 TOTAL DUE \$0.00

BATSON ROBERT E JR - QUALIFIER

ROBERT BATSON ROOFING INC
 BATSON CAROLYN
 BATSON ROBERT E JR - QUALIFIER
 2823 JERSEY ST
 ORLANDO FL 32806-5029

1414 S DIVISION AV
A - ORLANDO, 32805

PAID: \$60.00 0099-00721211 7/8/2016

Scott Randolph, Tax Collector

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BATSON ROBERT E JR - QUALIFIER

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 2823 JERSEY ST
 ORLANDO FL 32806-5029

1414 S DIVISION AV
A - ORLANDO, 32805

PAID: \$60.00 0099-00721211 7/8/2016

This receipt is official when validated by the Tax Collector.