



# City of Belle Isle Job Site Permit Card **ROOF** 2020-05-041

Subdivision

Site Address: **1825 Wind Willow Rd 32809**

Class: **Residential**

Parcel Number: **30-23-30-9330-00-580**

Description of Work: **ROOF**

Number of Stories: **1**

MODIFIED BITUMEN Square Footage: 800

Issued: **GOLD KEY ROOFING LLC, HEWITT, JEFFREY ALLAN**

License # **CCC1329157** Contact # **407 851-0680**

Payment/ Issued Date & Method: **5 / 20 / 2020**

Picked up by \_\_\_\_\_  Emailed

Visa  Master Card  Amex  Discover  Check / Money Order#

**0767**

ROOF	INSPECTOR	DATE	COMMENTS
<b>NEW ROOFS ONLY</b> Code 700 Deck Nailing, Dry-In, Flashing			This inspection only applies for a brand new roof only!
<b>Both new &amp; re-roof</b> Code 710 In - Progress			This inspection consists of all underlayment/black paper coverage and only 25% shingle coverage.
<b>Both new &amp; re-roof</b> Code 720 Final			After the In Progress has been passed, then the entire roof is covered with shingles.

**PLEASE NOTE:** In order to schedule any inspections, the PERMIT / plans-specs. must be issued and POSTED on the JOB SITE! THIS WILL AVOID ANY FAILED INSPECTIONS & RE-INSPECTION FEES. A permit expires in 6 months if approved inspections are not recorded /scheduled within that time frame. You are responsible for scheduling and keeping track all of your inspections -

★ Inspection requests are to be emailed to [BI scheduling@UniversalEngineering.com](mailto:BI scheduling@UniversalEngineering.com); a confirmation email will be sent back to you upon scheduling. Next-Day Inspection requests must be made by 3:00 p.m. Please include the following requirements in your request:

- Project Address
- Corresponding Permit Number
- Type of Inspection (Please reference your permit card for inspection codes)
- Date of Inspection (If no date is specified, the inspection will be scheduled for the next business day)
- Contact Name
- Contact Phone Number
- Gate / Entry code (If applicable)
- AM, PM, or Any Time (We do our best to accommodate time requests but cannot guarantee an exact arrival)

Universal Engineering Sciences - 3532 Maggie Blvd., Orlando, FL 32811407-581-8161 \* Fax 407-581-0313 [www.universalengineering.com](http://www.universalengineering.com)

**"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."**

## Susan Manchester

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**From:** Rachel Krantz Crane <receptionist@goldkeyroofing.com>  
**Sent:** Thursday, January 28, 2021 9:00 AM  
**To:** Susan Manchester  
**Cc:** CobiPermits  
**Subject:** Re: 1825 Wind Willow Rd - Reroof Permit 2021-01-044 is approved (old permit is on file) - Gold Key Roof  
**Attachments:** 1825 Wind Willow Rd CC Payment.pdf

Yes, let's Void out the old permit and use the new one. Husband has since passed and the wife wants the whole roof completed now. Thank you all!

Have a GREAT Day!

*Rachel Krantz Crane*  
Gold Key Roofing  
4874 S. Orange Ave  
Orlando FL, 32806  
Office: (407) 851-0680  
Fax: (407) 447-5590

On Wed, Jan 27, 2021 at 6:08 PM Susan Manchester <[SManchester@universalengineering.com](mailto:SManchester@universalengineering.com)> wrote:

Hello,

Please take a moment to read the email below in its entirety as it contains important information regarding your permit.

**We have an existing Gold Key permit on file as attached. This was JUST for the mod bit on the flat part of the roof. We do not show any inspections for this, so I guess the work was never done at that time last summer. Do you want us to use this new permit to VOID out the old permit? There is no cost for voiding the old permit. Please let us know.**

Your NEW permit is ready.

## Susan Manchester

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**From:** RICHARD RANDOLPH <richard\_randolph@bellsouth.net>  
**Sent:** Thursday, January 28, 2021 8:36 AM  
**To:** CobiPermits  
**Subject:** Cancel Permit

Please cancel Permit #2020-12-065. 6809 Willoughby Lane, Belle Isle, FL 32812.

The power company, Duke, is installing underground service to this whole street and Brought in Pike to run service to all of the existing homes. Homeowner went out of town for a couple of days and when he came home, it was already completed. He has agreed to pay us for the unused permit.

Thank you,

Richard Randolph, Pres.  
All Electric of Orlando, Inc.  
407-702-3014



# City of Belle Isle

Universal Engineering Sciences 3532 Maggie Blvd., Orlando, FL 32811  
Tel 407-581-8161 \* Fax 407-581-0313 \* [www.universalengineering.com](http://www.universalengineering.com)

RECEIVED  
MAY 18 2020

## 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: 5-18-2020

ROOF PERMIT NUMBER 2020-05-041

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

Project Address 1825 WIND WILLOW RD, Belle Isle, FL X 32809 32812

Property Owner JAMES MCCONAHAY Phone 407-851-2563

Property Owner's Mailing Address 1825 WIND WILLOW RD City ORLANDO

State FL Zip Code 32809 Parcel Id Number: 30-23-30-9330-00-580

REQUIRED! To obtain this information, please visit <http://www.ocpafl.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 Form – NOTE: installation instructions must be posted on-site before your first inspection!!

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

Roof Square Footage: 8SQ Number of Stories: 1 Job Valuation: \$ 4,600.00

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 [Signature] LICENSE # CCC1329157

LICENSE HOLDER NAME JEFFREY HEWITT COMPANY NAME GOLD KEY ROOFING

Street Address 4874 S ORANGE AVE

City ORLANDO State FL Zip Code 32806 Phone Number 407-851-0680

Email Address RECEPTIONIST@GOLDKEYROOFING.COM

USA 0767  
PAID  
5-20-2020

Zoning Fee	\$	<u>30.-</u>
Building Fee	\$	<u>60.-</u>
Review Fee	\$	<u>0</u>
1% BCAIB Fee	\$	<u>2 min</u>
1.5% DCA Fee	\$	<u>2 min</u>
Total Permit Fee	\$	<u>94.-</u>

Building Official: OTC Date 5-19-20

Verified Contractor's Licenses & Insurance are on file [Signature] Date 5-19-20

NOC ✓

1ST IK  
5x7

25  
35  
60

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.

Building Permit Number \_\_\_\_\_

Permit Number: 2020-05-041  
 Folio/Parcel ID #: 30-23-30-9330-00-580  
 Prepared by: Gold Key  
4874 S. Orange Ave.  
Orlando, FL 32806  
 Return to: Gold Key  
4874 S. Orange Ave.  
Orlando, FL 32806

DOC # 20200283433  
 05/15/2020 10:40 AM Page 1 of 1  
 Rec Fee: \$10.00  
 Deed Doc Tax: \$0.00  
 Mortgage Doc Tax: \$0.00  
 Intangible Tax: \$0.00  
 Phil Diamond, Comptroller  
 Orange County, FL  
 Ret To: SIMPLIFILE LC

**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.

- Description of property** (legal description of the property, and street address if available)  
Wind Harbor 7/66 Lot 58 SEE 2965/1361 1725 Wind Willow Rd
- General description of improvement**  
ReRoof
- Owner information or Lessee information if the Lessee contracted for the improvement**  
 Name James McConahay  
 Address 1725 Wind Willow Rd Belle Isle FL 32809  
 Interest in Property owner  
 Name and address of fee simple titleholder (if different from Owner listed above)  
 Name N/A  
 Address N/A
- Contractor**  
 Name Gold Key Roofing Telephone Number 407-851-0680  
 Address 4874 S. Orange Ave. Orlando, FL 32806
- Surety** (if applicable, a copy of the payment bond is attached)  
 Name N/A Telephone Number N/A  
 Address N/A Amount of Bond \$ N/A
- Lender**  
 Name N/A Telephone Number N/A  
 Address N/A
- 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 N/A Telephone Number N/A  
 Address N/A
- 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 N/A Telephone Number N/A  
 Address N/A
- Expiration date of notice of commencement** (the expiration date will be 1 year from the date of recording unless a different date is specified) N/A

**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.**

James McConahay Signature of Owner or Lessee, or Owner's or Lessee's Authorized Officer/Director/Partner/Manager  
 Owner  
 Signatory's Title/Office  
 The foregoing instrument was acknowledged before me this 14 day of 05 2020 by James McConahay name of person  
 as Owner for Owner  
 Type of authority, e.g., officer, trustee, attorney in fact Name of party on behalf of whom instrument was executed

[Signature] Signature of Notary Public - State of Florida  
Jeffery A. Maul Print, type, or stamp commissioned name of Notary Public

Personally Known  OR Produced ID   
 Type of ID Produced FL DL# M250 441 41 4490



Form content revised: 01/23/14

State of FLORIDA, County of ORANGE.  
 Per §668.50, F.S., which defines and permits electronic signatures,  
 I certify that this is a true copy of the document as reflected in the  
 Official Records.  
**PHIL DIAMOND, COUNTY COMPTROLLER**



By B. Galagarza at 11:30 am, May 15, 2020  
 Deputy Comptroller for Date



**City of Belle Isle**  
 Universal Engineering Sciences 3532 Maggie Blvd., Orlando, FL 32811  
 Tel 407-581-8161 \* Fax 407-581-0313 \* [www.universaleengineering.com](http://www.universaleengineering.com)



## Product Approval Form

DATE: 5-18-2020

PERMIT # 2020-65-641


PROJECT ADDRESS 1825 Wind Willow Road, Belle Isle, FL  32809  32812

As required by Florida Statue 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](http://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:

- NOTE:** The Installation instructions must be posted on-site before your first inspection!!

Product Type	Manufacturer	Model/Series	FL Product Approval #	Product Type	Manufacturer	Model/Series	FL Product Approval #
<b>EXTERIOR DOORS</b>				<b>WALL PANELS</b>			
Swinging				Sliding			
Sliding				Soffits			
Sectional/Rollup				Storefront			
Other				Glass Block			
				Other			
<b>WINDOWS</b>				<b>ROOFING PRODUCTS</b>			
Single/Dbl Hung				Asphalt Shingles			
Horizontal Slider				Non Struct Metal			
Casement				Roofing Tiles			
Fixed				Single Ply Roof	<u>Certaainted</u>		<u>FL2533-R23</u>
Mullion				Underlayment			
Skylights				Other			
Other							
<b>STRUCTURAL COMPONENTS</b>				<b>OTHER</b>			
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** 

**Date** 5-18-20



**Product Approval**  
USER: Public User

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

OFFICE OF THE SECRETARY

FL #	FL2533-R23																
Application Type	Revision																
Code Version	2017																
Application Status	Approved																
Comments																	
Archived																	
Product Manufacturer	CertainTeed Corporation-Roofing																
Address/Phone/Email	20 Moores Road Malvern, PA 19355 (610) 893-5400 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	Roofing																
Subcategory	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	11/13/2022																
Validated By	John W. Knezevich, PE Validation Checklist - Hardcopy Received																
Certificate of Independence	<a href="#">FL2533 R23 COI 2019 01 COI NIEMINEN.pdf</a>																
Referenced Standard and Year (of Standard)	<table border="0"> <thead> <tr> <th><u>Standard</u></th> <th><u>Year</u></th> </tr> </thead> <tbody> <tr> <td>ASTM D6162</td> <td>2008</td> </tr> <tr> <td>ASTM D6163</td> <td>2008</td> </tr> <tr> <td>ASTM D6164</td> <td>2011</td> </tr> <tr> <td>ASTM D6222</td> <td>2011</td> </tr> <tr> <td>ASTM D6509</td> <td>2009</td> </tr> <tr> <td>FM 4470</td> <td>2012</td> </tr> <tr> <td>FM 4474</td> <td>2011</td> </tr> </tbody> </table>	<u>Standard</u>	<u>Year</u>	ASTM D6162	2008	ASTM D6163	2008	ASTM D6164	2011	ASTM D6222	2011	ASTM D6509	2009	FM 4470	2012	FM 4474	2011
<u>Standard</u>	<u>Year</u>																
ASTM D6162	2008																
ASTM D6163	2008																
ASTM D6164	2011																
ASTM D6222	2011																
ASTM D6509	2009																
FM 4470	2012																
FM 4474	2011																
Equivalence of Product Standards Certified By																	

Sections from the Code

Product Approval Method	Method 1 Option D
Date Submitted	06/20/2019
Date Validated	06/20/2019
Date Pending FBC Approval	06/22/2019
Date Approved	08/13/2019

**Summary of Products**

FL #	Model, Number or Name	Description
2533.1	Flintlastic Modified Bitumen Roof Systems	Modified Bitumen Roof Systems
<b>Limits of Use</b> Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: +N/A/-635 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.		<b>Installation Instructions</b> <a href="#">FL2533 R23 II 2019 06 FINAL A1 ER CERTAINTEED MODBIT FL2533-R23.pdf</a> Verified By: Robert Nieminen, PE PE-59166 Created by Independent Third Party: Yes <b>Evaluation Reports</b> <a href="#">FL2533 R23 AE 2019 06 FINAL ER CERTAINTEED MODBIT FL2533-R23.pdf</a> Created by Independent Third Party: Yes

[Back](#) [Next](#)

Contact Us :: [2601 Blair Stone Road, Tallahassee FL 32399 Phone: 850-487-1824](#)

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**APPENDIX 1- ATTACHMENT REQUIREMENTS FOR WIND UPLIFT RESISTANCE**

TABLE	DECK	APPLICATION	TYPE	DESCRIPTION	PAGE
1A	Wood	New or Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	5
1B	Wood	New or Reroof (Tear-Off)	A-2	Mech. Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover	6-8
1C	Wood	New, Reroof (Tear-Off) or Recover	B	Mech. Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover	9
1D	Wood	New, Reroof (Tear-Off) or Recover	C	Mech. Attached Insulation, Bonded Roof Cover	10-11
1E	Wood	New, Reroof (Tear-Off) or Recover	D	Insulated, Mech. Attached Base Sheet, Bonded Roof Cover	12-14
1F-1	Wood	New, Reroof (Tear-Off)	E	Non-Insulated, Mech. Attached Base Sheet, Bonded Roof Cover	15-17
1F-2	Wood	New, Reroof (Tear-Off) or Recover	E	Non-Insulated, Mech. Attached Base Sheet, Bonded Roof Cover	18-19
1G	Wood	New or Reroof (Tear-Off)	F	Non-Insulated, Bonded Roof Cover	19
2A	Steel or Structural concrete	New, Reroof (Tear-Off) or Recover	B	Mech. Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover	20-22
2B	Steel or Structural concrete	New, Reroof (Tear-Off) or Recover	C	Mech. Attached Insulation, Bonded Roof Cover	23-27
2C	Steel or Structural concrete	New, Reroof (Tear-Off) or Recover	D	Insulated, Mech. Attached Base Sheet, Bonded Roof Cover	28-30
3A	Structural concrete	New or Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	31-38
3B	Structural concrete	New or Reroof (Tear-Off)	A-3	Bonded Temp Roof/Vapor Barrier, Bonded Insulation, Bonded Roof Cover	38
3C	Structural concrete	New or Reroof (Tear-Off)	F	Non-Insulated, Bonded Roof Cover	39
4A	Lightweight concrete	New or Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	40-43
4B	Lightweight concrete	New or Reroof (Tear-Off)	A-2	Mech. Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover	44-46
4C	Lightweight concrete	New, Reroof (Tear-Off)	E	Non-Insulated, Mech. Attached Base Sheet, Bonded Roof Cover	47-52
4D	Lightweight concrete	Reroof (Tear-Off) or Recover	E	Non-Insulated, Mech. Attached Base Sheet, Bonded Roof Cover	52
5A	Cementitious wood fiber	New or Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	53
5B	Cementitious wood fiber	New or Reroof (Tear-Off)	A-2	Mech. Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover	54
5C	Cementitious wood fiber	New, Reroof (Tear-Off) or Recover	C	Mech. Attached Insulation, Bonded Roof Cover	55
5D	Cementitious wood fiber	New, Reroof (Tear-Off)	E	Non-Insulated, Mech. Attached Base Sheet, Bonded Roof Cover	55
6A	Existing gypsum	Reroof (Tear-Off)	A-1	Bonded Insulation, Bonded Roof Cover	56-58
6B	Existing gypsum	Reroof (Tear-Off)	A-2	Mech. Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover	58-59
6C	Existing gypsum	Reroof (Tear-Off)	C	Mech. Attached Insulation, Bonded Roof Cover	59
6D	Existing gypsum	Reroof (Tear-Off)	E	Non-Insulated, Mech. Attached Base Sheet, Bonded Roof Cover	60
7A	Various	Recover	A-1	Bonded Insulation, Bonded Roof Cover	61-67
7B	Various	Recover	F	Non-Insulated, Bonded Roof Cover	67



8. Bonded polyisocyanurate insulation boards shall be maximum 4 x 4 ft.
9. 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 ANSI/SPRI WD1, FM Loss Prevention Data Sheet 1-29 and Roofing Application Standard RAS 117. Assemblies marked with an asterisk\* carry the limitations set forth in Section 2.2.10.1 of FM Loss Prevention Data Sheet 1-29 (January 2016) for Zone 2/3 enhancements.
10. For assemblies with all components fully bonded in place, 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.
11. 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 ANSI/SPRI FX-1 or Testing Application Standard TAS 105.
12. 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 Authority Having Jurisdiction, as documented through field uplift testing in accordance with ANSI/SPRI IA-1, ASTM E907, FM Loss Prevention Data Sheet 1-52 or Testing Application Standard TAS 124.
13. For Concrete Deck or Recover Applications using System Type D, the insulation is optional.
14. Lightweight Insulating Concrete (LWC) shall be cast in accordance with FBC Section 1917 to the satisfaction of the Authority Having Jurisdiction. For systems where specific LWC is referenced, refer to current LWC Product Approval for specific deck construction and limitations. For systems where specific LWC is not referenced, the minimum design mix shall be 3000 psi. In all cases, the minimum top-coat thickness is 2-inches. For LWC over structural concrete, reference is made to FBC Section 1917.4.1, Point 1. For "pre-existent" LWC references, listings were established through testing over lightweight concrete cast using only foaming agent (ASTM C896), water and Portland cement (ASTM C150), with no proprietary additives, in accordance with procedures adopted by Miami-Dade BCCO (FBC CER1592). Unless otherwise noted, use of these listings in new construction or re-roof (tear-off) applications is at the discretion of the Designer of Record and Authority Having Jurisdiction.
15. Unless otherwise noted, refer to the following references for bonded base, ply or cap sheet applications.

CERTAINTEED FLINTLASTIC® MODIFIED BITUMEN COMPONENTS & APPLICATION METHODS		
REFERENCE	LAYER	MATERIAL
BP-AA (Base and Ply sheets, Asphalt-Applied)	Base	Glasbase; All Weather/Empire Base; Flexiglas Base; Flintlastic Base 20
	Ply	One or more Flintglas Ply 4; Flintglas Premium Ply 6
BP-AA2 (Base, Spot-Asphalt-Applied)	Base	Yosemite Venting Base
BP-AA3 (Base, Spot-Asphalt-Applied)	Base	Yosemite Venting Base
BP-AA4 (Base, Strip-Asphalt-Applied)	Base	Yosemite Venting Base
BP-CA2	Base/Ply	Glasbase; All Weather/Empire Base; Flexiglas Base; Flintlastic Base 20
	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	One or more Flintlastic Base 20; Flintlastic Poly SMS Base; Flintlastic Ultra Poly SMS Base
SBS-AA (SBS, Asphalt-Applied)	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; Flintlastic GMS; Flintlastic GMS CoolStar
		Hot asphalt at 20-40 lbs/square



NEMO | etc.

**TABLE 1A: WOOD DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

Sys. No.	Deck (Note 1)	Base Insulation		Top Insulation		Roof Cover (Note 15)			MDP (psf)
		Type	Attach	Type	Attach	Base	Ply	Cap	
<b>SELF-ADHERING SYSTEMS:</b>									
W-1	Min. 15/32-inch APA rated CDX plywood at max. 24-inch spans	Min. 1.5-inch FlintBoard ISO, AC Foam II, FlintBoard ISO H, H-Shield	M-OSFA or M-PG1	(Optional) Additional layer(s) of base insulation and/or min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board. Top surface shall be primed with FlintPrime or FlintPrime SA.	M-OSFA or M-PG1	SBS-SA	(Optional) SBS-SA	SBS-SA	-60.0
W-2	Min. 15/32-inch APA rated CDX plywood at max. 24-inch spans; blocked 48-inch o.c.	Min. 1.5-inch FlintBoard ISO, AC Foam II, FlintBoard ISO H, H-Shield	M-OSFA or M-PG1, 6-inch o.c.	(Optional) Additional layer(s) of base insulation and/or min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board. Top surface shall be primed with FlintPrime or FlintPrime SA.	M-OSFA or M-PG1, 6-inch o.c.	SBS-SA	(Optional) SBS-SA	SBS-SA	-97.5
<b>HYBRID SYSTEMS:</b>									
W-3	Min. 15/32-inch APA rated CDX plywood at max. 24-inch spans	Min. 1.5-inch FlintBoard ISO, AC Foam II, FlintBoard ISO H, H-Shield	M-OSFA or M-PG1	(Optional) Additional layer(s) of base insulation and/or min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board.	M-OSFA or M-PG1	SBS-SA-H	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-60.0
W-4	Min. 15/32-inch APA rated CDX plywood at max. 24-inch spans; blocked 48-inch o.c.	Min. 1.5-inch FlintBoard ISO, AC Foam II, FlintBoard ISO H, H-Shield	M-OSFA or M-PG1, 6-inch o.c.	(Optional) Additional layer(s) of base insulation and/or min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board.	M-OSFA or M-PG1, 6-inch o.c.	SBS-SA-H	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-97.5
<b>CONVENTIONAL SYSTEMS:</b>									
W-5	Min. 15/32-inch APA rated CDX plywood at max. 24-inch spans	Min. 1.5-inch FlintBoard ISO, AC Foam II, FlintBoard ISO H, H-Shield	M-OSFA or M-PG1	Optional additional layers of base insulation, followed by min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	M-OSFA or M-PG1	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-60.0
W-6	Min. 15/32-inch APA rated CDX plywood at max. 24-inch spans; blocked 48-inch o.c.	Min. 1.5-inch FlintBoard ISO, AC Foam II, FlintBoard ISO H, H-Shield	M-OSFA or M-PG1, 6-inch o.c.	Optional additional layers of base insulation, followed by min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board.	M-OSFA or M-PG1, 6-inch o.c.	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-97.5



NEMO | etc.

TABLE 1B: WOOD DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF) SYSTEM TYPE A-2: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER														
Sys. No.	Deck (Note 1)	Anchor Sheet			Base Insulation			Top Insulation			Roof Cover (Note 15)			MDP (psf)
		Type	Fasteners	Attach	Type	Attach	Type	Attach	Type	Attach	Base	Ply	Cap	
W-12	Min. 19/32-inch plywood at max. 24-inch spans	Glasbase, All Weather Empire, Flexiglas Base, Flintlastic Base 20; Poly SMS; Ultra Poly SMS; Yosemite Venting Base	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails	9-inch o.c. in 4-inch lap and 12-inch o.c. in two (2), equally spaced, staggered center rows	Min. 1.5-inch AC Foam II, FlintBoard ISO, ENRGY-3, H-Shield or Multi-Max FA3	HA	None	N/A	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0*		
W-13	Min. 19/32-inch plywood at max. 24-inch spans	Glasbase; Flintglas Premium Ply 6; Yosemite Venting Base	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails	8-inch o.c. in 3-inch lap and 8-inch o.c. in three (3), equally spaced, staggered center rows	Min. 1.5-inch AC Foam II, FlintBoard ISO, ENRGY-3, H-Shield or Multi-Max FA3	HA	None	N/A	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-60.0		
<b>CONVENTIONAL SYSTEMS:</b>														
W-14	Min. 19/32-inch plywood at max. 24-inch spans	Glasbase, All Weather Empire, Flexiglas Base, Flintlastic Base 20; Poly SMS; Ultra Poly SMS; Yosemite Venting Base	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails	9-inch o.c. in 4-inch lap and 12-inch o.c. in two (2), equally spaced, staggered center rows	Min. 1.5-inch AC Foam II, FlintBoard ISO, ENRGY-3, H-Shield or Multi-Max FA3	HA	Min. 0.25-inch Dens Deck primed with FlintPrime (ASTM D41) primer	HA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0*		
W-15	Min. 19/32-inch plywood at max. 24-inch spans	Glasbase, All Weather Empire, Flexiglas Base, Poly SMS or Ultra Poly SMS	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails	8-inch o.c. in 3-inch lap and 8-inch o.c. in three (3), equally spaced, staggered center rows	Min. 1.5-inch AC Foam II, FlintBoard ISO, ENRGY-3, H-Shield or Multi-Max FA3	HA	Min. 0.25-inch Dens Deck primed with FlintPrime (ASTM D41) primer	HA full coverage or OSFA, A-PD, D-JS, ICP BOARD-MAX or CR-20, 4-inch o.c.	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-52.5		
W-16	Min. 19/32-inch plywood at max. 24-inch spans	Yosemite Venting Base Sheet	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails	8-inch o.c. in 3-inch lap and 8-inch o.c. in three (3), equally spaced, staggered center rows	Min. 1.5-inch AC Foam II, FlintBoard ISO, ENRGY-3, H-Shield or Multi-Max FA3	HA	Min. 0.25-inch Dens Deck primed with FlintPrime (ASTM D41) primer	HA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-52.5		



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**TABLE 1C: WOOD DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER**  
**SYSTEM TYPE B: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)			MDP (psf)	
		Type	Fasteners	Attach	Type	Attach	Base	Ply		Cap
<b>HYBRID SYSTEMS:</b>										
W-19	Min. 15/32-inch exterior grade plywood at max. 24-inch spans	Min. 1.5-inch AC Foam II, FlintBoard ISO, H-Shield or FlintBoard ISO <sub>H</sub> .	FlintFast #12 or #14 with FlintFast 3" Insulation Plates	1 per 1.33 ft <sup>2</sup>	Min. 1.5-inch AC Foam II, FlintBoard ISO, H-Shield or FlintBoard ISO <sub>H</sub> .	HA, D-IS, M-OSFA, M-PG1 or OB500	SBS-SA-H	(Optional) APP-TA	APP-TA	-67.5
<b>CONVENTIONAL SYSTEMS:</b>										
W-20	Min. 23/32-inch exterior grade plywood at max. 24-inch spans	Min. 1.5-inch AC Foam II, FlintBoard ISO, ENRGY 3, H-Shield	Note 2	1 per 2 ft <sup>2</sup>	Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation, min. 0.75-inch FescoBoard (homogeneous)	HA	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0*
W-21	Min. 23/32-inch exterior grade plywood at max. 24-inch spans	Min. 1.5-inch AC Foam II, FlintBoard ISO, ENRGY 3, H-Shield	Note 2	1 per 2 ft <sup>2</sup>	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board, Dens Deck or Dens Deck Prime	HA	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0*
W-22	Min. 15/32-inch exterior grade plywood at max. 24-inch spans	Min. 1.5-inch AC Foam II, FlintBoard ISO, H-Shield or FlintBoard ISO <sub>H</sub> .	FlintFast #12 or #14 with FlintFast 3" Insulation Plates	1 per 1.33 ft <sup>2</sup>	Optional additional layer(s) of base insulation followed by Min. 0.25-inch SECUROCK Gypsum-Fiber Roof board	HA, D-IS, M-OSFA, M-PG1 or OB500	APP-TA	(Optional) APP-TA	APP-TA	-90.0



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**TABLE 1D: WOOD DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER SYSTEM TYPE C: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer			Roof Cover (Note 15)			MDP (psf)
		Type	Fasteners	Attach	Base	Ply	Cap			
W-33	Min. 15/32-inch plywood at max. 24-inch spans	(Optional) Min. 1.5-inch, One or more layers, any combination, loose laid	FlintFast 3 in. Insulation Plates with FlintFast #12 or #14	1 per 1.33 ft <sup>2</sup>	SBS-SA-H	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-75.0		
W-34	Min. 19/32-inch exterior grade plywood at max. 24-inch spans	(Optional) One or more layers, any combination, loose laid	Note 2	1 per 1.33 ft <sup>2</sup>	SBS-SA-H	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-82.5		
<b>CONVENTIONAL SYSTEMS:</b>										
W-35	Min. 23/32-inch exterior grade plywood at max. 24-inch spans	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation, min. 0.75-inch FescoBoard (homogeneous)	Note 2	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0*		
W-36	Min. 15/32-inch plywood at max. 24-inch spans	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board, Dens Deck or Dens Deck Prime	FlintFast #12 or #14 HD with FlintFast 3" Insulation Plates	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0*		
W-37	Min. 15/32-inch plywood at max. 24-inch spans	(Optional for Recover) Min. 1.5-inch, One or more layers, any combination, loose laid	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	FlintFast #12 or #14 HD with FlintFast 3" Insulation Plates	APP-TA	(Optional) APP-TA	APP-TA	-60.0		
W-38	Min. 19/32-inch exterior grade plywood at max. 24-inch spans	(Optional for Concrete or Recover) Min. 2-inch ACFOam II, FlintBoard, H-Shield or ENRGY 3, loose laid.	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	FlintFast #12 or #14 HD with FlintFast 3" Insulation Plates	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-60.0		
W-39	Min. 15/32-inch plywood at max. 24-inch spans	(Optional for Recover) Min. 1.5-inch, One or more layers, any combination, loose laid	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	FlintFast #12 or #14 HD with FlintFast 3" Insulation Plates	APP-TA	(Optional) APP-TA	APP-TA	-67.5		



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System No.	Deck (Note 1)	Insulation Layer(s) (Note 13)		Base or Anchor Sheet			Roof Cover (Note 15)			MDP (psf)
		Type	Attach	Base	Fasteners	Attach	Ply	Cap		
W-46	Min. 23/32-inch exterior grade plywood at max. 24-inch spans	Min. 1.5-inch, One or more layers, any combination	Prelim. Attach	Glasbase; All Weather/Empire Base; Flexiglas Base; Flintlastic Base 20; Yosemite Venting Base	Note 2	12-inch o.c. at 4-inch lap and 36-inch o.c. in two (2), equally spaced, staggered center rows	BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-30.0*	
W-47	Min. 23/32-inch exterior grade plywood at max. 24-inch spans	Min. 1.5-inch, One or more layers, any combination	Prelim. Attach	Glasbase; All Weather/Empire Base; Flexiglas Base; Flintlastic Base 20; Yosemite Venting Base	Note 2	12-inch o.c. at 4-inch lap and 24-inch o.c. in two (2), equally spaced, staggered center rows	BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0*	
W-48	Min. 23/32-inch exterior grade plywood at max. 24-inch spans	Min. 1.5-inch, One or more layers, any combination	Prelim. Attach	Poly SMS Base; Ultra Poly SMS Base	Note 2	12-inch o.c. at 4-inch lap and 36-inch o.c. in two (2), equally spaced, staggered center rows	BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0*	
W-49	Min. 15/32-inch plywood at max 24-inch spans	Min. 1.5-inch, One or more layers, any combination	Prelim. Attach	Glasbase; Flexiglas; Flintlastic Base 20; All Weather / Empire Base; Poly SMS Base; Ultra Poly SMS Base; Yosemite Venting 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	6-inch o.c. at 4-inch lap and 6-inch o.c. in three (3), 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-50	Min. 15/32-inch plywood at max 24-inch spans	Min. 1.5-inch, One or more layers, any combination	Prelim. Attach	Flintlastic APP Base T	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 (3), equally spaced, staggered center rows.	APP-TA	APP-TA	-97.5	
W-51	Min. 15/32-inch plywood at max 24-inch spans	One or more layers, any thickness or combination	Prelim. Attach	Glasbase; Flexiglas; Flintlastic Base 20; All Weather / Empire Base; Poly SMS Base; Ultra Poly SMS Base; Yosemite Venting Base	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, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-97.5	
W-52	Min. 19/32-inch plywood at max 24-inch spans	Min. 1.5-inch, One or more layers, any combination	Prelim. Attach	Glasbase; Flexiglas; Flintlastic Base 20; Poly SMS Base; Ultra Poly SMS Base; Yosemite Venting Base	Note 2	7-inch o.c. at 3-inch lap and 7-inch o.c. in three (3), equally spaced, staggered center rows	BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-105.0	
W-53	Min. 19/32-inch plywood at max 24-inch spans	Min. 1.5-inch, One or more layers, any combination	Prelim. Attach	Flintlastic APP Base T	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 (3), equally spaced, staggered center rows	APP-TA	APP-TA	-105.0	

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



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System No.		Deck (Note 1)	Base Sheet			Roof Cover (Note 15)		MDP (psf)
			Base	Fasteners	Attach	Ply	Cap	
<b>SELF-ADHERING SYSTEMS:</b>								
W-57	Min. 15/32-inch plywood at max 24-inch spans	Flintlastic SA NailBase	Simplex MAXX Cap	9-inch o.c. at min. 3-inch lap and 12-inch o.c. in two (2), equally spaced, staggered center rows; Stress plates shall be primed with FlintPrime (ASTM D41) primer.	(Optional) SBS-SA	SBS-SA	-45.0*	
W-58	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 (4), equally spaced, staggered center rows	(Optional) SBS-SA	SBS-SA	-52.5	
W-59	Min. 19/32-inch plywood at max. 24-inch spans	Flintlastic SA NailBase	3/2 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 (3), equally spaced, staggered center rows	(Optional) SBS-SA	SBS-SA	-52.5	
W-60	Min. 19/32-inch plywood at max. 24-inch spans	Flintlastic SA NailBase	3/2 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 (3), equally spaced, staggered center rows	(Optional) SBS-SA	SBS-SA	-60.0	
W-61	Min. 15/32-inch plywood at max 24-inch spans	Flintlastic SA NailBase	Simplex MAXX Cap	8-inch o.c. at min. 3-inch lap and 8-inch o.c. in three (3), equally spaced, staggered center rows; Stress plates shall be primed with FlintPrime (ASTM D41) primer.	(Optional) SBS-SA	SBS-SA	-67.5	
W-62	Min. 19/32-inch plywood at max 24-inch spans	Flintlastic SA NailBase	3/2 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 (4), equally spaced, staggered center rows	(Optional) SBS-SA	SBS-SA	-75.0	
W-63	Min. 15/32-inch plywood at max 24-inch spans	Flintlastic SA NailBase	Cap nails: 1-inch diameter, 0.032-inch thick metal cap with 0.120" shank diameter, annular ring shank nails	7-inch o.c. at min. 4-inch laps and 7-inch o.c. in five (5), equally spaced, staggered center rows	(Optional) SBS-SA	SBS-SA	-75.0	
W-64	Min. 19/32-inch plywood at max 24-inch spans	Flintlastic SA NailBase	3/2 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 (4), equally spaced, staggered center rows	(Optional) SBS-SA	SBS-SA	-105.0	
<b>HYBRID SYSTEMS:</b>								
W-65	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	3/2 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 (2), equally spaced, staggered center rows	SBS-SA-H	SBS-AA, SBS-TA or APP-TA	-45.0*	
W-66	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	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 (4), equally spaced, staggered center rows	SBS-SA-H	SBS-AA, SBS-TA or APP-TA	-52.5	





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

System No.	Deck (Note 1)	Base Sheet			Attach	Roof Cover (Note 15)			MDP (psf)
		Base	Fasteners	Fasteners		Ply	Cap		
W-78	Min. 19/32-inch plywood at max 24-inch spans	Glasbase; Flexiglas; Flintlastic Base 20; All Weather / Empire Base; Poly SMS Base; Ultra Poly SMS Base; Yosemite Venting 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 (3), equally spaced, staggered center rows	BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-60.0		
W-79	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 Venting Base	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		
W-80	Min. 19/32-inch plywood at max 24-inch spans	Glasbase; Flexiglas; Flintlastic Base 20; All Weather / Empire Base; Poly SMS Base; Ultra Poly SMS Base; Yosemite Venting 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 (4), equally spaced, staggered center rows	BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-82.5		
W-81	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 Venting Base	Simplex MAXX Cap	6-inch o.c. at 2-inch lap and 6-inch o.c. in two (2), 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-82	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 (2), equally spaced, staggered center rows	(Optional) APP-TA	APP-TA	-90.0		
W-83	Min. 19/32-inch plywood at max 24-inch spans	Glasbase; Flexiglas; Flintlastic Base 20; All Weather / Empire Base; Poly SMS Base; Ultra Poly SMS Base; Yosemite Venting 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 (4), equally spaced, staggered center rows	BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-105.0		
W-84	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 Venting Base	Simplex MAXX Cap	6-inch o.c. at 2-inch lap and 6-inch o.c. in three (3), 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-85	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 (3), equally spaced, staggered center rows	(Optional) APP-TA	APP-TA	-105.0		



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System No.	Deck (Note 1)	Base Sheet			Attach	Roof Cover (Note 15)		MDP (psf)
		Base	Fasteners	Ply		Cap		
W-95	Min. 15/32-inch plywood at max 24-inch spans	Glasbase; Flexiglas; Flintlastic Base 20; Poly SMS Base; Ultra Poly SMS Base; Yosemite Venting 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	6-inch o.c. at 4-inch lap and 6-inch o.c. in three (3), 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-96	Min. 15/32-inch plywood at max 24-inch spans	Flintlastic APP Base T	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 (3), equally spaced, staggered center rows.	APP-TA	APP-TA	-97.5	
W-97	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 Venting Base	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-98	Min. 19/32-inch plywood at max 24-inch spans	Glasbase; Flexiglas; Flintlastic Base 20; Poly SMS Base; Ultra Poly SMS Base; Yosemite Venting Base	Note 2	7-inch o.c. at 3-inch lap and 7-inch o.c. in three (3), equally spaced, staggered center rows	BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-105.0	
W-99	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	7-inch o.c. at 3-inch lap and 7-inch o.c. in three (3), equally spaced, staggered center rows	APP-TA	APP-TA	-105.0	
W-100	Min. 15/32-inch plywood at max 24-inch spans	Glasbase; Flexiglas; Flintlastic Base 20; Poly SMS Base; Ultra Poly SMS Base; Yosemite Venting 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	6-inch o.c. at 4-inch lap and 6-inch o.c. in four (4), 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-101	Min. 15/32-inch plywood at max 24-inch spans	Flintlastic APP Base T	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 (4), equally spaced, staggered center rows.	APP-TA	APP-TA	-127.5	
<b>COLD-APPLIED SYSTEMS:</b>								
W-102	Min. 15/32-inch plywood at max 24-inch spans	Glasbase; Flexiglas Base; Flintlastic Base 20; All Weather / Empire Base; Yosemite Venting Base; Flintlastic Poly SMS Base; Flintlastic Ultra Poly SMS Base	Flintfast 3 in. Insulation Plates with FlintFast #12 or #14; Trufast 3" Metal Insulation Plates with DP or HD	8-inch o.c. at 4-inch lap and 8-inch o.c. in three (3), equally spaced, staggered center rows	(Optional) SBS-CA1	SBS-CA1	-52.5	

System No.	Deck (Note 1)	Primer	Roof Cover (Note 15)		MDP (psf)
			Base	Ply	
W-103	Min. 15/32-inch plywood at max 24-inch spans	FlintPrime or FlintPrime SA	SBS-SA-H	(Optional) SBS-TA, APP-TA	-112.5
W-104	Min. 15/32-inch plywood at max 24-inch spans	FlintPrime or FlintPrime SA	SBS-SA	(Optional) SBS-SA	-127.5

TABLE 1G: WOOD DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF) SYSTEM TYPE F: NON-INSULATED, BONDED ROOF COVER



NEMO | etc.

**TABLE 2A: STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER  
SYSTEM TYPE B: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Insulation Layer			Top Insulation Layer			Roof Cover (Note 15)			MDP (psf)
		Type	Fasteners	Attach	Type	Attach	Base	Ply	Cap		
S-8	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch AC Foam II, FlintBoard, ENRGY 3 or H-Shield	Note 2	1 per 4 ft <sup>2</sup>	Min. 0.25-inch SECURROCK Gypsum-Fiber Roof Board	HA, D-IS, M-OSFA, OB500, ICP BOARD-MAX or CR-20	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-37.5*	
S-9	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch AC Foam II, FlintBoard, ENRGY 3 or H-Shield	Note 2	1 per 2 ft <sup>2</sup>	Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation, min. 0.75-inch FescoBoard (homogeneous).	HA	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0*	
S-10	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch AC Foam II, FlintBoard, ENRGY 3 or H-Shield	Note 2	1 per 2 ft <sup>2</sup>	Min. 0.25-inch Dens Deck or Dens Deck Prime	HA	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0*	
S-11	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch AC Foam II, FlintBoard, ENRGY 3 or H-Shield	Note 2	1 per 2 ft <sup>2</sup>	Min. 0.25-inch SECURROCK Gypsum-Fiber Roof Board	HA, D-IS, M-OSFA, OB500, ICP BOARD-MAX or CR-20	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0*	
S-12	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch AC Foam II, FlintBoard, ENRGY 3 or H-Shield	Note 2	1 per 3.2 ft <sup>2</sup>	Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation, min. 0.75-inch FescoBoard (homogeneous).	HA	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0*	
S-13	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch AC Foam II, FlintBoard, ENRGY 3 or H-Shield	Note 2	1 per 3.2 ft <sup>2</sup>	Min. 0.25-inch Dens Deck or Dens Deck Prime	HA	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0*	
S-14	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch AC Foam II, FlintBoard, ENRGY 3 or Multi-Max FA3	Note 2	1 per 1.33 ft <sup>2</sup>	Min. 0.75-inch FescoBoard (homogeneous)	HA	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-52.5	
S-15	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2-inch AC Foam II, FlintBoard, ENRGY 3 or H-Shield	Note 2	1 per 1.6 ft <sup>2</sup>	Min. 0.25-inch SECURROCK Gypsum-Fiber Roof Board	HA, D-IS, M-OSFA, OB500, ICP BOARD-MAX or CR-20	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-60.0	
S-16	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch AC Foam II, FlintBoard, ENRGY 3 or Multi-Max FA3	Note 2	1 per 1.33 ft <sup>2</sup>	Min. 0.5-inch Structodek High Density Fiberboard	HA	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-67.5	



**NEMO | etc.**

**TABLE 2B: STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER SYSTEM TYPE C: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Insulation Layer(s)	Top Insulation Layer			Roof Cover (Note 15)			MDP (psf)
			Type	Fasteners	Attach	Base	Ply	Cap	
<b>SELF-ADHERING SYSTEMS:</b>									
S-23	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch SECURROCK Gypsum-Fiber Roof Board	Note 2	1 per 3.2 ft <sup>2</sup>	SBS-SA	(Optional) SBS-SA	SBS-SA	-30.0*
S-24	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch SECURROCK Gypsum-Fiber Roof Board	FlintFast #12 (steel only) or #14 HD with FlintFast 3" Insulation Plates or Trufast #12 (steel only) or HD with Trufast 3" Metal Insulation Plates	1 per 2.7 ft <sup>2</sup>	SBS-SA	(Optional) SBS-SA	SBS-SA	-37.5*
S-25	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 3/8-inch SECURROCK Gypsum-Fiber Roof Board	Note 2	1 per 2.7 ft <sup>2</sup>	SBS-SA	(Optional) SBS-SA	SBS-SA	-45.0*
S-26	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch Dens Deck	Note 2	1 per 1.33 ft <sup>2</sup>	Apply FlintPrime or FlintPrime SA to board & plates, followed by SBS-SA	(Optional) SBS-SA	SBS-SA	-45.0
S-27	Min. 22 ga., type B, Grade 40 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch FlintBoard ISO	FlintFast #14 HD with FlintFast 3" Insulation Plates or Trufast HD with Trufast 3" Metal Insulation Plates	1 per 1.78 ft <sup>2</sup>	Apply FlintPrime to board & plates, followed by SBS-SA	(Optional) SBS-SA	SBS-SA	-67.5
S-28	Min. 22 ga., type B, Grade 40 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch SECURROCK Gypsum-Fiber Roof Board	FlintFast #14 HD with FlintFast 3" Insulation Plates or Trufast HD with Trufast 3" Metal Insulation Plates	1 per 1.6 ft <sup>2</sup>	Apply FlintPrime to board & plates, followed by SBS-SA	(Optional) SBS-SA	SBS-SA	-82.5
S-29	Min. 22 ga., type B, Grade 40 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch FlintBoard ISO, FlintBoard ISO H, ACFoam II or H-Shield	FlintFast #15 EHD (steel only) or FlintFast #14 HD (concrete only) with FlintFast 3" Insulation Plates or Trufast EHD (steel only) or Trufast HD (concrete only) with Trufast 3" Metal Insulation Plates	1 per 1 ft <sup>2</sup>	Apply FlintPrime to board & plates, followed by SBS-SA	(Optional) SBS-SA	SBS-SA	-97.5
<b>HYBRID SYSTEMS:</b>									
S-30	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch Dens Deck; Dens Deck Prime	Note 2	1 per 2 ft <sup>2</sup>	SBS-SA-H	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-30.0*



NEMO | etc.

**TABLE 2B: STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER SYSTEM TYPE C: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Insulation Layer(s)	Top Insulation Layer			Roof Cover (Note 15)			MDP (psf)
			Type	Fasteners	Attach	Base	Ply	Cap	
S-39	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	FlintFast #12 (steel only) or #14 HD with FlintFast 3" (steel only) or HD with Trufast 3" Metal Insulation Plates	1 per 1 ft <sup>2</sup>	SBS-SA-H	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-135.0
<b>CONVENTIONAL SYSTEMS:</b>									
S-40	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.75-inch FescoBoard (homogeneous)	Note 2	1 per 2.67 ft <sup>2</sup>	BP-AA, SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-30.0*
S-41	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation	Note 2	1 per 4 ft <sup>2</sup>	BP-AA, SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-37.5*
S-42	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 4 ft <sup>2</sup>	BP-AA, SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-37.5*
S-43	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 2-inch ACFoam II, FlintBoard or ENRGY 3	Note 2	1 per 1.6 ft <sup>2</sup>	BP-AA2	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-37.5*
S-44	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	Note 2	1 per 4 ft <sup>2</sup>	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0*
S-45	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation, min. 0.75-inch FescoBoard (homogeneous)	Note 2	1 per 2 ft <sup>2</sup>	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0*
S-46	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch Dens Deck or Dens Deck Prime	Note 2	1 per 2 ft <sup>2</sup>	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0*
S-47	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 1-inch FescoBoard (homogeneous) or min. 1.5-inch FescoBoard (laminated)	Note 2	1 per 1.6 ft <sup>2</sup>	BP-AA2	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0*



NEMO etc.

**TABLE 2B: STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER SYSTEM TYPE C: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Insulation Layer(s)	Top Insulation Layer			Roof Cover (Note 15)			MDP (psf)
			Type	Fasteners	Attach	Base	Ply	Cap	
S-57	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional for Concrete or Recover) Min. 1.5-inch AC Foam II, FlintBoard, H-Shield	Min. 0.5-inch Dens Deck Prime	Trufast HD with Trufast 3" Metal Insulation Plates or FlintFast #14 with FlintFast 3" Insulation Plates	1 per 1 ft <sup>2</sup>	BP-AA, SBS-AA	(Optional) BP-AA, SBS-AA	SBS-AA	-157.5
S-58	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional for Concrete or Recover) Min. 1.5-inch AC Foam II, FlintBoard, H-Shield	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	Trufast HD with Trufast 3" Metal Insulation Plates or FlintFast #14 with FlintFast 3" Insulation Plates	1 per 1 ft <sup>2</sup>	BP-AA, SBS-AA	(Optional) BP-AA, SBS-AA	SES-AA	-172.5
<b>COLD-APPLIED SYSTEMS:</b>									
S-59	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	FlintFast #12 (steel only) or #14 HD with FlintFast 3" Insulation Plates or Trufast #12 (steel only) or HD with Trufast 3" Metal Insulation Plates	1 per 2.7 ft <sup>2</sup>	SBS-CA1	None	SBS-CA1	-37.5*
S-60	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 1.5-inch AC Foam III, FlintBoard Iso Cold, H-Shield CG or FlintBoard Iso Cold <sub>H</sub>	FlintFast #12 (steel only) or #14 HD with FlintFast 3" Insulation Plates or Trufast #12 (steel only) or HD with Trufast 3" Metal Insulation Plates	1 per 2 ft <sup>2</sup>	SBS-CA1	None	SBS-CA1	-45.0*
S-61	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 3/8-inch SECUROCK Gypsum-Fiber Roof Board	FlintFast #12 (steel only) or #14 HD with FlintFast 3" Insulation Plates or Trufast #12 (steel only) or HD with Trufast 3" Metal Insulation Plates	1 per 2.7 ft <sup>2</sup>	SBS-CA1	None	SBS-CA1	-45.0*
S-62	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	FlintFast #12 (steel only) or #14 HD with FlintFast 3" Insulation Plates or Trufast #12 (steel only) or HD with Trufast 3" Metal Insulation Plates	1 per 1.45 ft <sup>2</sup>	SBS-CA1	None	SBS-CA1	-82.5*



NEMO | etc.

**TABLE 2C: STEEL OR STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER SYSTEM TYPE D: INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER**

System No.	Deck (Note 1)	Insulation Layer(s) (Note 13)		Base or Anchor Sheet			Roof Cover (Note 15)		MDP (psf)
		Type	Attach	Base	Fasteners	Attach	Ply	Cap	
S-73	Min. 22 ga., type B, 40 ksi steel or min. 2,500 psi structural concrete	Min. 2-inch, One or more layers, any combination	Prelim. Attached	Ultra Poly SMS Base	Trufast 2" Barbed Metal Seam Plates with Trufast #15 EHD (steel only) or Trufast #14 HD (concrete only)	12-inch o.c. within the min. 4-inch wide, heat-welded side lap	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-52.5
S-74	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	Min. 1.5-inch, One or more layers, any combination	Prelim. Attached	Ultra Poly SMS Base	Trufast 2.4" Barbed Metal Seam Plates with Trufast #15 EHD (steel only) or Trufast #14 HD (concrete only)	12-inch o.c. within the min. 4-inch wide, heat-welded side lap	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-60.0
S-75	Min. 22 ga., type B, 40 ksi steel or min. 2,500 psi structural concrete	Min. 2-inch, One or more layers, any combination	Prelim. Attached	Ultra Poly SMS Base	Trufast 2.4" Scoop Seam Plates with Trufast #15 EHD (steel only) or Trufast #14 HD (concrete only)	12-inch o.c. within the min. 4-inch wide, heat-welded side lap	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-67.5
S-76	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch, One or more layers, any combination	Prelim. Attached	Glasbase; Yosemite Venting Base	OMG Flat Bottom Plates with OMG #14 HD (Accutrac)	6-inch o.c. at 4-inch lap and 6-inch o.c. in two (2), equally spaced, staggered center rows	BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-67.5
S-77	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch, One or more layers, any combination	Prelim. Attached	Flexiglas Base; Flintlastic Base 20; Yosemite Venting Base	Note 2	6-inch o.c. at 4-inch lap and 6-inch o.c. in two (2), equally spaced, staggered center rows	BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-67.5
S-78	Min. 22 ga., type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5-inch, One or more layers, any combination	Prelim. Attached	Glasbase; Flexiglas; Flintlastic Base 20; All Weather / Empire Base; Poly SMS Base; Ultra Poly SMS Base; Yosemite Venting Base	Flintfast 3 in. Insulation Plates with FlintFast #14; Trufast 3" Metal Insulation Plates with Trufast HD	6-inch o.c. at 4-inch lap and 6-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
S-79	Min. 22 ga., type B, 40 ksi steel or min. 2,500 psi structural concrete	Min. 2-inch, One or more layers, any combination	Prelim. Attached	Ultra Poly SMS Base	Trufast 2.4" Scoop Seam Plates with Trufast #15 EHD (steel only) or Trufast #14 HD (concrete only)	6-inch o.c. within the min. 4-inch wide, heat-welded side lap	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-112.5
S-80	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	Min. 1.5-inch, One or more layers, any combination	Prelim. Attached	Poly SMS Base; Ultra Poly SMS Base	Note 2	12-inch o.c. at 4-inch lap and 12-inch o.c. in two (2), equally spaced, staggered center rows	SBS-TA or APP-TA	SBS-TA or APP-TA	-112.5
S-81	Min. 22 ga., type B, Grade 80 steel or min. 2,500 psi structural concrete	Min. 1.5-inch, One or more layers, any combination	Prelim. Attached	Poly SMS Base; Ultra Poly SMS Base	Note 2	12-inch o.c. at 4-inch lap and 12-inch o.c. in two (2), equally spaced, staggered center rows	SBS-AA	SBS-AA or SBS-TA	-120.0



NEMO | etc.

**TABLE 3A: STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

SEE NOTE 16 FOR VAPOR BARRIER OPTIONS

Sys. No.	Deck (Note 1)	Primer	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)			MDP (psf)
			Type	Attach	Type	Attach	Base	Ply	Cap	
<b>SELF-ADHERING SYSTEMS:</b>										
C-1.	Structural concrete	FlintPrime (ASTM D41)	Min. 1.5-inch ACFoam II, FlintBoard, ENRGY 3 or H-Shield	HA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	HA	SBS-SA	(Optional) SBS-SA	SBS-SA	-172.5
C-2.	Structural concrete	FlintPrime (ASTM D41)	Min. 1.5-inch ACFoam II, FlintBoard, ENRGY 3 or Multi-Max FA3	HA	Min. 0.25-inch Dens Deck primed with FlintPrime or FlintPrime SA	HA	SBS-SA	(Optional) SBS-SA	SBS-SA	-192.5
C-3.	Structural concrete	None	Min. 1.5-inch ACFoam II, FlintBoard, ENRGY 3 or Multi-Max FA3	A-PD	Min. 0.25-inch Dens Deck primed with FlintPrime or FlintPrime SA	A-PD	SBS-SA	(Optional) SBS-SA	SBS-SA	-105.0
C-4.	Structural concrete	None	Min. 1.5-inch ACFoam II, FlintBoard, ENRGY 3 or H-Shield	A-PD	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	A-PD	SBS-SA	(Optional) SBS-SA	SBS-SA	-172.5
C-5.	Structural concrete	None	Min. 1.5-inch ACFoam II, FlintBoard, ENRGY 3 or Multi-Max FA3	A-PD 6-inch o.c.	Min. 0.25-inch Dens Deck primed with FlintPrime or FlintPrime SA	A-PD 6-inch o.c.	SBS-SA	(Optional) SBS-SA	SBS-SA	-192.5
C-6.	Structural concrete	(Optional) FlintPrime (ASTM D41)	Min. 1.5-inch Multi-Max FA	D-IS	Min. 0.25-inch Dens Deck primed with FlintPrime or FlintPrime SA	D-IS	SBS-SA	(Optional) SBS-SA	SBS-SA	-67.5
C-7.	Structural concrete	(Optional) FlintPrime (ASTM D41)	Min. 1.5-inch ENRGY 3	D-IS	Min. 0.25-inch Dens Deck primed with FlintPrime or FlintPrime SA	D-IS	SBS-SA	(Optional) SBS-SA	SBS-SA	-112.5
C-8.	Structural concrete	(Optional) FlintPrime (ASTM D41)	Min. 1.5-inch ACFoam II or FlintBoard	D-IS	Min. 0.25-inch Dens Deck primed with FlintPrime or FlintPrime SA	D-IS	SBS-SA	(Optional) SBS-SA	SBS-SA	-120.0
C-9.	Structural concrete	None	Min. 1.5-inch ACFoam II, FlintBoard, ENRGY 3 or H-Shield	D-IS	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	D-IS	SBS-SA	(Optional) SBS-SA	SBS-SA	-172.5
C-10.	Structural concrete	None	Min. 1.5-inch ACFoam II, FlintBoard, ENRGY 3 or H-Shield	M-OSFA or M-PG1	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-OSFA or M-PG1	SBS-SA	(Optional) SBS-SA	SBS-SA	-172.5
C-11.	Structural concrete	None	Min. 1.5-inch ACFoam II, FlintBoard, ENRGY 3 or Multi-Max FA	M-OSFA or M-PG1	Min. 0.25-inch Dens Deck primed with FlintPrime or FlintPrime SA	M-OSFA or M-PG1	SBS-SA	(Optional) SBS-SA	SBS-SA	-192.5
C-12.	Structural concrete	FlintPrime (ASTM D41)	Min. 1.5-inch ACFoam II, FlintBoard ISO or ENRGY 3	OB500	Min. 0.25-inch Dens Deck primed with FlintPrime or FlintPrime SA	OB500	SBS-SA	(Optional) SBS-SA	SBS-SA	-120.0
C-13.	Structural concrete	None	Min. 1.5-inch ACFoam II, FlintBoard ISO or ENRGY 3	OB500	Min. 0.25-inch Dens Deck primed with FlintPrime or FlintPrime SA	OB500	SBS-SA	(Optional) SBS-SA	SBS-SA	-150.0
C-14.	Structural concrete	None	Min. 1.5-inch ACFoam II, FlintBoard, ENRGY 3 or H-Shield	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	SBS-SA	(Optional) SBS-SA	SBS-SA	-172.5
C-15.	Structural concrete	None	Min. 1.0-inch ISO 95+GL, H-Shield, H-Shield CG, ENRGY 3 or min. 1.3-inch ACFoam III, Min. 1.5-inch Multi-Max FA3 or Ultra-Max	ICP BOARD-MAX or CR-20	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	ICP BOARD-MAX or CR-20	SBS-SA	(Optional) SBS-SA	SBS-SA	-172.5





NEMO | etc.

**TABLE 3A: STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**  
SEE NOTE 16 FOR VAPOR BARRIER OPTIONS

Sys. No.	Deck (Note 3)	Primer	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)			MDP (psf)
			Type	Attach	Type	Attach	Attach	Base	Ply	
C-31.	Structural concrete	None	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-PG1	None	N/A	SBS-SA-H	(Optional) SBS-AA, SBS-TA, APP-TA	SBS-AA, SBS-TA, APP-TA	-195.0
C-32.	Structural concrete	None	Min. 1.5-inch ACFoam II, FlintBoard ISO, H-Shield, FlintBoard ISO <sub>H</sub>	OB500	(Optional) Additional layer(s) base insulation	OB500	SBS-SA-H	(Optional) SBS-AA, SBS-TA, APP-TA	SBS-AA, SBS-TA, APP-TA	-135.0
C-33.	Structural concrete	None	Min. 1.5-inch ACFoam II, FlintBoard ISO, H-Shield, FlintBoard ISO <sub>H</sub>	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	SBS-SA-H	(Optional) SBS-AA, SBS-TA, APP-TA	SBS-AA, SBS-TA, APP-TA	-217.5
C-34.	Structural concrete	None	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	None	N/A	SBS-SA-H	(Optional) SBS-AA, SBS-TA, APP-TA	SBS-AA, SBS-TA, APP-TA	-195.0
C-35.	Structural concrete	None	Min. 1.5-inch ACFoam II, FlintBoard ISO, H-Shield, FlintBoard ISO <sub>H</sub>	ICP BOARD-MAX or CR-20	(Optional) Additional layer(s) base insulation	ICP BOARD-MAX or CR-20	SBS-SA-H	(Optional) SBS-AA, SBS-TA, APP-TA	SBS-AA, SBS-TA, APP-TA	-270.0
C-36.	Structural concrete	None	Min. 1.5-inch ACFoam II, FlintBoard ISO, H-Shield, FlintBoard ISO <sub>H</sub>	ICP BOARD-MAX or CR-20	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	ICP BOARD-MAX or CR-20	SBS-SA-H	(Optional) SBS-AA, SBS-TA, APP-TA	SBS-AA, SBS-TA, APP-TA	-217.5
C-37.	Structural concrete	None	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	ICP BOARD-MAX or CR-20	None	N/A	SBS-SA-H	(Optional) SBS-AA, SBS-TA, APP-TA	SBS-AA, SBS-TA, APP-TA	-195.0
<b>CONVENTIONAL SYSTEMS:</b>										
C-38.	Structural concrete	FlintPrime (ASTM D41)	Min. 1.5-inch ACFoam II, ENRGY 3, H-Shield, FlintBoard ISO	HA	(Optional) Additional layer(s) of base insulation	HA	BP-AA3, 24-inch grid	(Optional) BP-AA, SBS-AA	SBS-AA	-37.5
C-39.	Structural concrete	FlintPrime (ASTM D41)	Min. 1.5-inch ACFoam II or FlintBoard ISO	HA	Min. 0.25-inch Dens Deck, Dens Deck Prime	HA	SBS-TA	(Optional) SBS-TA	SBS-TA	-180.0
C-40.	Structural concrete	FlintPrime (ASTM D41)	(Optional) Min. 1.5-inch ACFoam II or FlintBoard ISO	HA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	HA	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-180.0
C-41.	Structural concrete	FlintPrime (ASTM D41)	(Optional) Min. 2-inch ACFoam II, FlintBoard ISO, ENRGY 3 or H-Shield	HA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	HA	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-225.0
C-42.	Structural concrete	FlintPrime (ASTM D41)	(Optional) Min. 1.5-inch ACFoam II, FlintBoard ISO	HA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	HA	APP-TA	(Optional) APP-TA	APP-TA	-252.5
C-43.	Structural concrete	FlintPrime (ASTM D41)	Min. 1.5-inch ACFoam II, FlintBoard ISO, ENRGY 3 or H-Shield	HA	Min. 0.5-inch Structodek High Density Fiberboard	HA	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-227.0
C-44.	Structural concrete	FlintPrime (ASTM D41)	(Optional) Min. 2-inch ACFoam II, FlintBoard ISO, ENRGY 3 or H-Shield	HA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	HA	SBS-TA or APP-TA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-232.5



NEMO | etc.

**TABLE 3A: STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER  
SEE NOTE 16 FOR VAPOR BARRIER OPTIONS**

Sys. No.	Deck (Note 1)	Primer	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)			MDP (psf)
			Type	Attach	Type	Attach	Base	Ply	Cap	
C-57.	Structural concrete	None	Min. 0.25-inch Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	A-PD, 6-inch o.c.	None	N/A	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-195.0
C-58.	Structural concrete	None	Min. 1.5-inch ACFoam II or FlintBoard ISO.	D-IS	Min. 0.25-inch Dens Deck	D-IS	SBS-TA	(Optional) SBS-TA	SBS-TA	-112.5
C-59.	Structural concrete	None	Min. 1.5-inch ACFoam II, FlintBoard ISO, H-Shield, FlintBoard ISO <sub>H</sub>	D-IS	Min. 0.25-inch Dens Deck Prime	D-IS	BP-AA, SBS-AA	(Optional) BP-AA, SBS-AA or SBS-TA	SBS-AA or SBS-TA	-297.5
C-60.	Structural concrete	None	Min. 1.5-inch ACFoam II, FlintBoard ISO, H-Shield, FlintBoard ISO <sub>H</sub>	D-IS	Min. 0.25-inch Dens Deck Prime	D-IS	SBS-TA	(Optional) SBS-TA	SBS-TA	-302.5
C-61.	Structural concrete	None	Min. 2-inch ACFoam II, FlintBoard ISO, ENRGY 3 or H-Shield	D-IS	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	D-IS	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-225.0
C-62.	Structural concrete	None	Min. 2-inch ACFoam II, FlintBoard ISO, ENRGY 3 or H-Shield	D-IS	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	D-IS	SBS-TA or APP-TA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-232.5
C-63.	Structural concrete	None	Min. 1.5-inch ACFoam II, FlintBoard ISO, H-Shield, FlintBoard ISO <sub>H</sub>	D-IS	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	D-IS	APP-TA	(Optional) APP-TA	APP-TA	-252.5
C-64.	Structural concrete	None	Min. 1.5-inch ACFoam II, FlintBoard ISO, H-Shield, FlintBoard ISO <sub>H</sub>	D-IS	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	D-IS	BP-AA, SBS-AA or SBS-TA	(Optional) BP-AA, SBS-AA or SBS-TA	SBS-AA or SBS-TA	-297.5
C-65.	Structural concrete	None	0.5-inch Structodek High Density Fiberboard	D-IS	None	N/A	BP-AA, SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-195.0
C-66.	Structural concrete	None	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	D-IS	None	N/A	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-195.0
C-67.	Structural concrete	None	Min. 1.5-inch ACFoam II, FlintBoard ISO, ENRGY 3 or H-Shield	M-OSFA	Min. 0.5-inch Structodek High Density Fiberboard	M-OSFA	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-127.5
C-68.	Structural concrete	None	Min. 1.5-inch ACFoam II, FlintBoard ISO, ENRGY 3 or H-Shield	M-PG1	Min. 0.5-inch Structodek High Density Fiberboard	M-PG1	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-180.0
C-69.	Structural concrete	None	Min. 1.5-inch ACFoam II, FlintBoard ISO, ENRGY 3 or H-Shield	M-OSFA	Min. 0.25-inch Dens Deck	M-OSFA	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-232.5
C-70.	Structural concrete	None	Min. 1.5-inch ACFoam II, FlintBoard ISO, ENRGY 3 or H-Shield	M-PG1	Min. 0.25-inch Dens Deck	M-PG1	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-240.0



NEMO | etc.

**TABLE 3A: STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**  
SEE NOTE 16 FOR VAPOR BARRIER OPTIONS

Sys. No.	Deck (Note 1)	Primer	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)			MDP (psf)
			Type	Attach	Type	Attach	Base	Ply	Cap	
C-85.	Structural concrete	None	Min. 1.5-inch AC Foam II, FlintBoard ISO, H-Shield, FlintBoard ISO <sub>H</sub>	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	BP-AA, SBS-AA or SBS-TA	(Optional) BP-AA, SBS-AA or SBS-TA	SBS-AA or SBS-TA	-297.5
C-86.	Structural concrete	None	0.5-inch Structodek High Density Fiberboard	OB500	None	N/A	BP-AA, SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-195.0
C-87.	Structural concrete	None	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	None	N/A	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-195.0
C-88.	Structural concrete	None	Min. 1.0-inch ISO 95+ GL, H-Shield, H-Shield CG, ENRGY 3 or min. 1.3-inch AC Foam III, Min. 1.5-inch Multi-Max FA3 or Ultra-Max	ICP BOARD-MAX or CR-20	Min. 0.5-inch Structodek High Density Fiberboard or DuraBoard (homogeneous) or min. 1.5-inch FascoBoard (laminated)	ICP BOARD-MAX or CR-20	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-180.0
C-89.	Structural concrete	None	Min. 1.0-inch ISO 95+ GL, H-Shield, H-Shield CG, ENRGY 3 or min. 1.3-inch AC Foam III, Min. 1.5-inch Multi-Max FA3 or Ultra-	ICP BOARD-MAX or CR-20	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	ICP BOARD-MAX or CR-20	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-225.0
C-90.	Structural concrete	None	Min. 1.0-inch ISO 95+ GL, H-Shield, H-Shield CG, ENRGY 3 or min. 1.3-inch AC Foam III, Min. 1.5-inch Multi-Max FA3 or Ultra-Max	ICP BOARD-MAX or CR-20	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	ICP BOARD-MAX or CR-20	SBS-TA or APP-TA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-232.5
C-91.	Structural concrete	None	Min. 1.0-inch ISO 95+ GL, H-Shield, H-Shield CG, ENRGY 3 or min. 1.3-inch AC Foam III, Min. 1.5-inch Multi-Max FA3 or Ultra-Max	ICP BOARD-MAX or CR-20	Min. 0.25-inch Dens Deck	ICP BOARD-MAX or CR-20	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-240.0
C-92.	Structural concrete	None	0.5-inch Structodek High Density Fiberboard	ICP BOARD-MAX or CR-20	None	N/A	BP-AA, SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-195.0
C-93.	Structural concrete	None	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	ICP BOARD-MAX or CR-20	None	N/A	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-195.0
<b>COLD-APPLIED SYSTEMS:</b>										
C-94.	Structural concrete	None	(Optional) Min. 0.5-inch AC Foam II, FlintBoard ISO, H-Shield, FlintBoard ISO <sub>H</sub>	OB500, ICP BOARD-MAX or CR-20	Min. 1.5-inch AC Foam III, FlintBoard Iso Cold, H-Shield CG or FlintBoard Iso Cold <sub>H</sub>	OB500, ICP BOARD-MAX or CR-20	SBS-CA1	None	SBS-CA1	-82.5



NEMO | etc.

**TABLE 3C: STRUCTURAL CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE F: NON-INSULATED, BONDED ROOF COVER**

System No.	Deck (Note 1)	Primer	Roof Cover (Note 15)			MDP (psf)
			Base	Ply	Cap	
<b>SELF-ADHERING SYSTEMS:</b>						
C-98.	Structural concrete	FlintPrime SA	SBS-SA	(Optional) SBS-SA	SBS-SA	-555.0
C-99.	Structural concrete	FlintPrime (ASTM D41)	SBS-SA	(Optional) SBS-SA	SBS-SA	-630.0
<b>HYBRID SYSTEMS:</b>						
C-100.	Structural concrete	FlintPrime SA	Flintlastic Ultra Glass SA	(Optional) SBS-AA, SBS-TA, APP-TA	SBS-AA, SBS-TA, APP-TA	-52.5
C-101.	Structural concrete	FlintPrime (ASTM D41)	Flintlastic Ultra Glass SA	(Optional) SBS-AA	SBS-AA	-135.0
C-102.	Structural concrete	FlintPrime (ASTM D41)	Black Diamond Base Sheet	(Optional) SBS-TA, APP-TA	SBS-TA, APP-TA	-150.0
C-103.	Structural concrete	FlintPrime (ASTM D41)	Flintlastic Ultra Glass SA	(Optional) SBS-TA, APP-TA	SBS-TA, APP-TA	-322.5
C-104.	Structural concrete	FlintPrime (ASTM D41)	Black Diamond Base Sheet	(Optional) BP-AA, SBS-AA	SBS-AA	-240.0
C-105.	Structural concrete	FlintPrime (ASTM D41)	BP-AA, SBS-AA	SBS-SA-H	SBS-AA, SBS-TA, APP-TA	-635.0
<b>CONVENTIONAL SYSTEMS:</b>						
C-106.	Structural concrete	FlintPrime (ASTM D41)	APP-TA	(Optional) APP-TA	APP-TA	-420.0
C-107.	Structural concrete	FlintPrime (ASTM D41)	SBS-TA	(Optional) SBS-TA	SBS-TA	-542.5
C-108.	Structural concrete	FlintPrime (ASTM D41)	BP-AA, SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-635.0
<b>COLD-APPLIED SYSTEMS:</b>						
C-109.	Structural concrete	FlintPrime (ASTM D41)	SBS-CA1	(Optional) SBS-CA1	SBS-CA1	-262.5



NEMO | etc.

**TABLE 4A: LIGHTWEIGHT CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Lightweight Concrete (Note 14)	Base Insulation Layer		Coverboard		Roof Cover (Note 15)			MDP (psf)
			Type	Attach	Type	Attach	Base	Ply	Cap	
LWC-12	Min. 22 ga. steel at max 6 ft spans	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	One or more layer(s), min. 1.5-inch thick FlintBoard ISO, FlintBoard ISO H, ACFoam II, ACFoam III, H-Shield or H-Shield CG	CR-20	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	CR-20	SBS-SA	(Optional) SBS-SA	SBS-SA	-52.5
LWC-13	Structural concrete	Min. 200 psi, min. 2-inch Celcore, Elastizell or Celcore	Min. 1.0-inch ISO 95+ GL, H-Shield, H-Shield CG, ENRGY 3 or min. 1.3-inch ACFoam II, Min. 1.5-inch Multi-Max FA3 or Ultra-Max	CR-20	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	CR-20	SBS-SA	(Optional) SBS-SA	SBS-SA	-172.5
LWC-14	Structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	One or more layer(s), min. 1.5-inch thick FlintBoard ISO, FlintBoard ISO H, ACFoam II, ACFoam III, H-Shield or H-Shield CG	CR-20	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	CR-20	SBS-SA	(Optional) SBS-SA	SBS-SA	-172.5
LWC-15	Structural concrete	Min. 200 psi, min. 2-inch Celcore, Elastizell or Celcore	Min. 1.0-inch ISO 95+ GL, H-Shield, H-Shield CG, ENRGY 3 or min. 1.3-inch ACFoam III, Min. 1.5-inch Multi-Max FA3 or Ultra-Max	CR-20	Min. 0.25-inch Dens Deck primed with FlintPrime or FlintPrime SA	CR-20	SBS-SA	(Optional) SBS-SA	SBS-SA	-180.0
<b>HYBRID SYSTEMS:</b>										
LWC-16	Min. 22 ga. steel at max 6 ft spans	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	One or more layer(s), min. 1.5-inch thick FlintBoard ISO, FlintBoard ISO H, ACFoam II, ACFoam III, H-Shield or H-Shield CG	M-OSFA, M-PG1, ICP BOARD-MAX, ICP CR-20 or OB500	(Optional) Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-OSFA, M-PG1, ICP BOARD-MAX, ICP CR-20 or OB500	SBS-SA-H	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-52.5
LWC-17	Structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	One or more layer(s), min. 1.5-inch thick FlintBoard ISO, FlintBoard ISO H, ACFoam II, ACFoam III, H-Shield or H-Shield CG	M-OSFA, M-PG1, ICP BOARD-MAX, ICP CR-20 or OB500	(Optional) Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-OSFA, M-PG1, ICP BOARD-MAX, ICP CR-20 or OB500	SBS-SA-H	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-215.0
<b>CONVENTIONAL SYSTEMS:</b>										
LWC-18	Structural concrete	Min. 200 psi, min. 2-inch Elastizell	Min. 1.5-inch ACFoam II, FlintBoard ISO, ENRGY 3 or H-Shield	A-PD 6-inch o.c.	Min. 0.5-inch Structodek High Density Fiberboard or Min. 0.25-inch Dens Deck	A-PD 6-inch o.c.	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-187.5
LWC-19	Structural concrete	Min. 200 psi, min. 2-inch Elastizell	Min. 1.5-inch ACFoam II, FlintBoard ISO, ENRGY 3 or H-Shield	A-PD 6-inch o.c.	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	A-PD, 6-inch o.c.	BP-AA or SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-217.5
LWC-20	Min. 22 ga. steel at max 6 ft spans	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	One or more layer(s), min. 1.5-inch thick FlintBoard ISO, FlintBoard ISO H, ACFoam II, ACFoam III, H-Shield or H-Shield CG	M-OSFA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-OSFA	BP-AA or SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-52.5



NEMO etc.

TABLE 4A: LIGHTWEIGHT CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER

System No.	Deck (Note 1)	Lightweight Concrete (Note 14)	Base Insulation Layer		Coverboard			Roof Cover (Note 15)			MDP (psf)
			Type	Attach	Type	Attach	Base	Ply	Cap		
LWC-32	Structural concrete	Min. 200 psi, min. 2-inch Celcore, Elastizell or Celcore	Min. 1.0-inch ISO 95+ GL, H-Shield, H-Shield CG, ENRGY 3 or min. 1.3-inch ACFoam III, Min. 1.5-inch Multi-Max FA3 or Ultra-Max	CR-20	Min. 0.5-inch Structodek High Density Fiberboard or DuraBoard (homogeneous) or min. 1.5-inch FescoBoard (laminated)	CR-20	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-180.0	
LWC-33	Structural concrete	Min. 200 psi, min. 2-inch Celcore, Elastizell or Celcore	Min. 1.0-inch ISO 95+ GL, H-Shield, H-Shield CG, ENRGY 3 or min. 1.3-inch ACFoam III, Min. 1.5-inch Multi-Max FA3 or Ultra-Max	CR-20	Min. 0.25-inch SECURROCK Gypsum-Fiber Roof Board or Dens Deck or Dens Deck Prime	CR-20	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-180.0	
LWC-34	Structural concrete	Min. 300 psi Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	One or more layer(s), min. 1.5-inch thick FlintBoard ISO, FlintBoard ISO H, ACFoam II, ACFoam III, H-Shield or H-Shield CG	CR-20	Min. 0.25-inch SECURROCK Gypsum-Fiber Roof Board	CR-20	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-215.0	
<b>COLD APPLIED SYSTEMS:</b>											
LWC-35	Min. 22 ga. steel at max 5 ft spans or structural concrete	Min. 350 psi, min 2-inch Range II Elastizell Lightweight Insulating Concrete with Zell Fibers.	Min. 1.5-inch H-Shield CG	OB500, 6-inch o.c.	(Optional) Additional layers of base insulation	OB500, 6-inch o.c.	BP-CA3 or SBS-CA3	(Optional) BP-CA3 or SBS-CA3	SBS-CA3	-60.0	
LWC-36	Min. 22 ga. steel at max 5 ft spans or structural concrete	Min. 350 psi, min 2-inch Range II Elastizell Lightweight Insulating Concrete with Zell Fibers. When walkable, attach LWC with Flintfast #14 and Flintfast 3" Round Plates at 1 per 8 ft <sup>2</sup> through to the structural deck.	Min. 1.5-inch H-Shield CG	OB500, 6-inch o.c.	(Optional) Additional layers of base insulation	OB500, 6-inch o.c.	BP-CA3 or SBS-CA3	(Optional) BP-CA3 or SBS-CA3	SBS-CA3	-67.5	



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**TABLE 4B: LIGHTWEIGHT CONCRETE DECKS – NEW CONSTRUCTION or REROOF (Tear-Off)**  
**SYSTEM TYPE A-2: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	LWC (Note 14)		Anchor Sheet			Insulation			Roof Cover (Note 15)			MDP (psf)	
		Deck Treatment	LWC	Surface Treatment	Type	Fasteners	Attach	Base	Top	Attach	Base	Ply		Cap
LWC-41	Min. 22 ga. steel or structural concrete deck.	None	Min 350 psi, min 2-inch Elastizell cellular LWC	None	Yosemite Venting Base	Trufast FM-90 Base Ply Fasteners	7-inch o.c. at the 4-inch side lap and 7-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	Min. 1.5-inch AC Foam II	(Optional) Additional layers base insulation	Hot asphalt	BP-AA3, 18-inch grid	(Optional) BP-AA, SBS-AA	SBS-AA	-37.5*
LWC-42	Min. 22 ga. steel or structural concrete deck.	None	Min 350 psi, min 2-inch pre-existent cellular LWC	None	Yosemite Venting Base	Trufast Twin-Loc Nails	9-inch o.c. at the 4-inch side lap and 9-inch o.c. at two, equally spaced, staggered rows in the center of the sheet	Min. 1.5-inch AC Foam II	(Optional) Additional layers base insulation	Hot asphalt	BP-AA4, 18-inch o.c.	(Optional) BP-AA, SBS-AA	SBS-AA	-60.0
LWC-43	Min. 22 ga., type BV, Grade 40 steel at max. 6 ft span	Celcore S-1 Deck Preparation at ~1/16-inch	Min. 470 psi, min. 2-inch Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	Celcore PVA Curing Compound	All Weather/Empire Base Sheet, Flexiglas Base, Glasbase Base Sheet, Yosemite Venting Base or Flintlastic Base 20	FlintFast FM-90 Base Sheet Fasteners or Trufast FM-90 Base Sheet Fasteners	7-inch o.c. at the min. 4-inch side laps and 7-inch o.c. at two, equally spaced, staggered center rows	Min. 1.5" FlintBoard ISO or FlintBoard ISO-T	Min. 0.125-inch STURDY-DEK Asphaltic Cover Board, min. 0.25-inch DensDeck Prime or SECURROCK Gypsum-Fiber Roof Board, min. 0.5-inch Structodek High Density Fiberboard Roof Insulation or min. 0.75-inch Fesco Board (homogeneous)	Hot asphalt	BP-AA or SBS-AA	(Optional) SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-60.0
<p>Note: To qualify the LWC under this assembly, the subject fastener shall achieve an average withdrawal of 88 lbf when tested per ANSI/SPRI FX-1 or TAS 105.</p>														

**CONVENTIONAL SYSTEMS:**



**TABLE 4C: LIGHTWEIGHT CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE E: MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER**

System No.	Deck (Note 1)	Lightweight Concrete (Note 14)			Base Sheet				Roof Cover (Note 15)		MDP (psf)	
		Deck Treatment	LWC	Surface Treatment	Type	Fasteners	Attach	Base Ply	Cap			
<b>SELF-ADHERING SYSTEMS:</b>												
LWC-47	Min. 22 ga., type BV, Grade 40 steel at max. 6 ft span	Celcore S-1 Deck Preparation at ~1/16-inch	Min. 470 psi, min. 2-inch Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	Celcore PVA Curing Compound	Flintlastic SA NailBase	FlintFast FM-90 Base Sheet Fasteners or Trufast FM-90 Base Sheet Fasteners	7-inch o.c. at the min. 4-inch side laps and 7-inch o.c. at two, equally spaced, staggered center rows	SBS-SA	SBS-SA	-45.0		
LWC-48	Min. 22 ga., type BV, Grade 40 steel at max. 6 ft span	None	Min. 490 psi, min. 2-inch Elastizell Range III Cellular Concrete with Zell-Crete Fibers	None	Flintlastic SA NailBase	FlintFast FM-90 Base Sheet Fasteners or Trufast FM-90 Base Sheet Fasteners	7-inch o.c. at the min. 4-inch side laps and 7-inch o.c. at two, equally spaced, staggered center rows	SBS-SA	SBS-SA	-45.0		
LWC-49	Min. 22 ga. steel at max 5 ft spans or structural concrete	None	Min. 300 psi, min. 2-inch pre-existent cellular lightweight insulating concrete.	None	Flintlastic SA NailBase	Trufast Twin Loc-Nail Assembled Fastener (min. 1.8")	7-inch o.c. at the min. 2-inch lap and 7-inch o.c. in two (2), equally spaced, staggered center rows; Stress plates shall be primed with FlintPrime (ASTM D41) primer or FlintPrime SA	SBS-SA	SBS-SA	-60.0		
LWC-50	Min. 22 ga. steel at max 5 ft spans or structural concrete	None	Min. 300 psi, min. 2-inch pre-existent cellular lightweight insulating concrete.	None	Flintlastic SA NailBase	Trufast Twin Loc-Nail Assembled Fastener (min. 1.8")	9-inch o.c. at the min. 2-inch lap and 9-inch o.c. in two (2), equally spaced, staggered center rows; Stress plates shall be primed with FlintPrime (ASTM D41) primer or FlintPrime SA	SBS-SA	SBS-SA	-60.0		
<b>HYBRID SYSTEMS:</b>												
LWC-51	Min. 26 ga. steel at max 5 ft spans or structural concrete	None	Min. 200 psi, min 2-inch Range II Elastzell Lightweight Insulating Concrete.	None	Glasbase; Flexiglas Base; Flintlastic Base 20; All Weather / Empire Base or Poly SMS Base	Trufast FM-90 Base Sheet Fasteners or Trufast Twin Loc-Nail Assembled Fasteners (1.8 inch)	7½-inch o.c. at the 4-inch lap and 7½-inch o.c. in two (2), equally spaced, staggered center rows	SBS-SA-H	SBS-AA, SBS-TA or APP-TA	-30.0		
LWC-52	Min. 22 ga. steel at max 5 ft spans or structural concrete	None	Min. 200 psi, min 2-inch Range II Elastzell Lightweight Insulating Concrete.	None	Glasbase; Flexiglas Base; Flintlastic Base 20; All Weather / Empire Base or Poly SMS Base	Trufast FM-90 Base Sheet Fasteners or Trufast Twin Loc-Nail Assembled Fasteners (1.8 inch)	7-inch o.c. at the 4-inch lap and 7-inch o.c. in two (2), equally spaced, staggered center rows	SBS-SA-H	SBS-AA, SBS-TA or APP-TA	-45.0		





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**TABLE 4C: LIGHTWEIGHT CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE E: MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER**

System No.	Deck (Note 1)	Lightweight Concrete (Note 14)			Base Sheet			Roof Cover (Note 15)		MDP (psf)
		Deck Treatment	LWC	Surface Treatment	Type	Fasteners	Attach	Base Ply	Cap	
<b>CONVENTIONAL SYSTEMS:</b>										
LWC-60	Min. 26 ga. steel at max 5 ft spans or structural concrete	None	Min. 200 psi, min 2-inch Range II Elastizell Lightweight Insulating Concrete.	None	Glasbase; Flexiglas Base; Flintlastic Base 20; All Weather / Empire Base; Poly SMS Base; Yosemite Venting Base	Trufast FM-90 Base Sheet Fasteners or Trufast Twin Loc-Nail Assembled Fasteners (1.8 inch)	7½-inch o.c. at the 4-inch lap and 7½-inch o.c. in two (2), equally spaced, staggered center rows	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-30.0
LWC-61	Min. 26 ga. steel at max 5 ft spans or structural concrete	None	Min. 200 psi, min 2-inch Range II Elastizell Lightweight Insulating Concrete.	None	Flintlastic APP Base T	Trufast FM-90 Base Sheet Fasteners	7½-inch o.c. at the 4-inch lap and 7½-inch o.c. in two (2), equally spaced, staggered center rows	(Optional) APP-TA	APP-TA	-30.0
LWC-62	Min. 22 ga., type BV, Grade 40 steel at max. 6 ft span	Celcore S-1 Deck Preparation at ~1/16-inch	Min. 470 psi, min. 2-inch Celcore MF Cellular Concrete with Celcore HS Rheology Modifying Admixture	Celcore PVA Curing Compound	All Weather/Empire Base Sheet, Flexiglas Base, Glasbase Base Sheet, Yosemite Venting Base or Flintlastic Base 20	FlintFast FM-90 Base Sheet Fasteners or Trufast FM-90 Base Sheet Fasteners	7-inch o.c. at the min. 4-inch side laps and 7-inch o.c. at 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
LWC-63	Min. 22 ga., type BV, Grade 40 steel at max. 6 ft span	None	Min. 490 psi, min. 2-inch Elastizell Range III Cellular Concrete with Zell-Crete Fibers	None	All Weather/Empire Base Sheet, Flexiglas Base, Glasbase Base Sheet, Yosemite Venting Base or Flintlastic Base 20	FlintFast FM-90 Base Sheet Fasteners or Trufast FM-90 Base Sheet Fasteners	7-inch o.c. at the min. 4-inch side laps and 7-inch o.c. at 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
LWC-64	Min. 22 ga. steel at max 5 ft spans or structural concrete	None	Min. 200 psi, min 2-inch Range II Elastizell Lightweight Insulating Concrete.	None	Glasbase; Flexiglas Base; Flintlastic Base 20; All Weather / Empire Base; Poly SMS Base; Yosemite Venting Base	Trufast FM-90 Base Sheet Fasteners or Trufast Twin Loc-Nail Assembled Fasteners (1.8 inch)	7-inch o.c. at the 4-inch lap and 7-inch o.c. in two (2), equally spaced, staggered center rows	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0
LWC-65	Min. 22 ga. steel at max 5 ft spans or structural concrete	None	Min. 200 psi, min 2-inch Range II Elastizell Lightweight Insulating Concrete.	None	Flintlastic APP Base T	Trufast FM-90 Base Sheet Fasteners	7-inch o.c. at the 4-inch lap and 7-inch o.c. in two (2), equally spaced, staggered center rows	(Optional) APP-TA	APP-TA	-45.0



**TABLE 4C: LIGHTWEIGHT CONCRETE DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE: MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER**

System No.	Deck (Note 1)	Lightweight Concrete (Note 14)					Base Sheet				Roof Cover (Note 15)		MDP (psf)
		Deck Treatment	LWC	Surface Treatment	Type	Fasteners	Attach	Base Ply	Cap				
LWC-72	Min. 22 ga. steel at max 5 ft spans or structural concrete	None	Min. 300 psi, min. 2-inch pre-existent cellular lightweight insulating concrete.	None	Glasbase; Flexiglas Base; Flintlastic Base 20; All Weather / Empire Base; Yosemite Venting Base	Trufast Twin Loc-Nail Assembled Fastener (min. 1.8")	7-inch o.c. at the 4-inch lap and 7-inch o.c. in two (2), equally spaced, staggered center rows	BP-AA or SBS-AA	SBS-AA, SBS-TA or APP-TA	-67.5			
LWC-73	Min. 22 ga. steel at max 5 ft spans or structural concrete	None	Min. 350 psi, min. 3-inch pre-existent cellular lightweight insulating concrete.	None	Flexiglas Base; Flintlastic Base 20; Poly SMS Base; Yosemite Venting Base	Trufast FM-90 Base Sheet Fasteners	7-inch o.c. at the 4-inch lap and 10-inch o.c. in two (2), equally spaced, staggered center rows	BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-67.5			
LWC-74	Min. 22 ga. steel at max 5 ft spans or structural concrete	None	Min. 300 psi, min. 2-inch pre-existent cellular lightweight insulating concrete.	None	Poly SMS Base; Ultra Poly SMS Base	Trufast Twin Loc-Nail Assembled Fastener (min. 1.8")	9-inch o.c. at the 4-inch lap and 9-inch o.c. in two (2), equally spaced, staggered center rows	BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-75.0			
LWC-75	Min. 22 ga. steel at max 5 ft spans or structural concrete	None	Min. 300 psi, min 2-inch Celcore Cellular Concrete.	Celcore PVA Curing Compound	Glasbase; Flexiglas Base; Flintlastic Base 20; All Weather / Empire Base; Poly SMS Base; Yosemite Venting Base	Trufast FM-90 Base Sheet Fasteners	7-inch o.c. at the 3-inch lap and 7-inch o.c. in two (2), equally spaced, staggered center rows	BP-AA or SBS-AA	SBS-AA, SBS-TA or APP-TA	-75.0			
<b>COLD APPLIED SYSTEMS:</b>													
LWC-76	Min. 22 ga. steel at max 5 ft spans or structural concrete	None	Min. 350 psi, min 2-inch Range II Elastzell Lightweight Insulating Concrete with Zell Fibers.	None	Flintlastic Base 20; Flintlastic Poly SMS Base	Trufast FM-90 Base Sheet Fasteners	7-inch o.c. at the 4-inch lap and 7-inch o.c. in two (2), equally spaced, staggered center rows	(Optional) BP-CA2 or SBS-CA2	SBS-CA2	-45.0			
LWC-77	Min. 22 ga. steel at max 5 ft spans or structural concrete	None	Min. 350 psi, min 2-inch Range II Elastzell Lightweight Insulating Concrete with Zell Fibers.	None	Glasbase; Flexiglas Base; Poly SMS Base	Trufast FM-90 Base Sheet Fasteners	7-inch o.c. at the 4-inch lap and 7-inch o.c. in two (2), equally spaced, staggered center rows	(Optional) BP-CA3 or SBS-CA3	SBS-CA3	-52.5			



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**TABLE 5A: CEMENTITIOUS WOOD FIBER DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)			MDP (psf)
		Type	Attach	Type	Attach	Base	Ply	Cap	
<b>SELF-ADHERING SYSTEMS:</b>									
CBF-1.	Tectum	Min. 1.5-inch FlintBoard ISO, AC Foam II, ENRGY 3 or Multi-Max FA3	OB500	Min. 0.25-inch Dens Deck primed with FlintPrime or FlintPrime SA; or SECUROCK Gypsum-Fiber Roof Board	OB500	SBS-SA	(Optional) SBS-SA	SBS-SA	-45.0*
CBF-2.	Tectum	Min. 1.0-inch ISO 95+ GL, H-Shield, H-Shield CG, ENRGY 3 or min. 1.3-inch AC Foam III, Min. 1.5-inch Multi-Max FA3 or Ultra-Max	ICP BOARD-MAX or CR-20	Min. 0.25-inch Dens Deck primed with FlintPrime or FlintPrime SA; or SECUROCK Gypsum-Fiber Roof Board	ICP BOARD-MAX or CR-20	SBS-SA	(Optional) SBS-SA	SBS-SA	-52.5
<b>CONVENTIONAL SYSTEMS:</b>									
CBF-3.	Tectum	Min. 1.5-inch FlintBoard ISO, AC Foam II, ENRGY 3 or Multi-Max FA3	OB500	Min. 0.5-inch StructoDeck High Density Fiberboard	OB500	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0*
CBF-4.	Tectum	Min. 1.5-inch FlintBoard ISO, AC Foam II, ENRGY 3 or Multi-Max FA3	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board or Dens Deck or Dens Deck Prime	OB500	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0*
CBF-5.	Tectum	Min. 1.0-inch ISO 95+ GL, H-Shield, H-Shield CG, ENRGY 3 or min. 1.3-inch AC Foam III, Min. 1.5-inch Multi-Max FA3 or Ultra-	ICP BOARD-MAX or CR-20	Min. 0.5-inch StructoDeck High Density Fiberboard or DuraBoard (homogeneous) or min. 1.5-inch FescoBoard (laminated)	ICP BOARD-MAX or CR-20	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-52.5
CBF-6.	Tectum	Min. 1.0-inch ISO 95+ GL, H-Shield, H-Shield CG, ENRGY 3 or min. 1.3-inch AC Foam III, Min. 1.5-inch Multi-Max FA3 or Ultra-Max	ICP BOARD-MAX or CR-20	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board or Dens Deck or Dens Deck Prime	ICP BOARD-MAX or CR-20	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-52.5

NEMO ETC, LLC

Certificate of Authorization #32455

Prepared by: Robert Nieminen, PE-59166

6<sup>TH</sup> EDITION (2017) FBC NON-HVHZ EVALUATION

CertainTeed Flintlastic® Modified Bitumen Roof Systems; (610) 651-5847

Evaluation Report 3520.03.04-R24 for FL2533-R23

Revision 24: 06/20/2019

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**TABLE 5C: CEMENTITIOUS WOOD FIBER DECKS – NEW CONSTRUCTION, REROOF (TEAR-OFF) OR RECOVER SYSTEM TYPE C: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Insulation Layer(s)	Top Insulation Layer			Roof Cover (Note 15)			MDP (psf)
			Type	Fasteners	Attach	Base	Ply	Cap	
CHF-11.	Tectum	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch StructoDeck High Density Fiberboard Roof Insulation	OMG Polymer GypTec with 3" GypTec Plate	1 per 2 ft <sup>2</sup>	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0*
CHF-12.	Tectum	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch Dens Deck or Dens Deck Prime	OMG Polymer GypTec with 3" GypTec Plate	1 per 1.78 ft <sup>2</sup>	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0*
CHF-13.	Tectum	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch StructoDeck High Density Fiberboard Roof Insulation	Trufast Twin Loc-Nail Assembled Fasteners (minimum 1-inch embedment into deck)	1 per 2 ft <sup>2</sup>	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0*
CHF-14.	Tectum	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch Dens Deck or Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	Trufast Twin Loc-Nail Assembled Fasteners (minimum 1-inch embedment into deck)	1 per 2 ft <sup>2</sup>	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0*

**TABLE 5D: CEMENTITIOUS WOOD FIBER DECKS – NEW CONSTRUCTION OR REROOF (TEAR-OFF) SYSTEM TYPE E: MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base	Base Sheet		Attach	Roof Cover (Note 15)		MDP (psf)
			Fasteners	Fasteners		Ply	Cap	
<b>SELF-ADHERING SYSTEMS:</b>								
CHF-15.	Tectum	Flintlastic SA NailBase	Trufast Twin Loc-Nail Assembled Fastener (min. 1.8")	6-inch o.c. at the 4-inch lap and 10-inch o.c. in two (2), equally spaced, staggered center rows	SBS-SA	SBS-SA	SBS-SA	-60.0
CHF-16.	Tectum	Flintlastic SA NailBase	Trufast Twin Loc-Nail Assembled Fastener (min. 1.8")	7-inch o.c. at the 4-inch lap and 7-inch o.c. in two (2), equally spaced, staggered center rows	SBS-SA	SBS-SA	SBS-SA	-60.0
<b>CONVENTIONAL SYSTEMS:</b>								
CHF-17.	Tectum	All Weather / Empire Base; Yosemite Venting Base	Trufast Insuldeck Loc-Nail Base Sheet Fastener	9-inch o.c. at the 4-inch lap and 12-inch o.c. in two (2), equally spaced, staggered center rows	BP-AA or SBS-AA	BP-AA or SBS-AA	SBS-AA	-30.0*
CHF-18.	Tectum	All Weather / Empire Base; Yosemite Venting Base	Trufast Insuldeck Loc-Nail Base Sheet Fastener	7½-inch o.c. at the 4-inch lap and 7½-inch o.c. in two (2), equally spaced, staggered center rows	BP-AA or SBS-AA	BP-AA or SBS-AA	SBS-AA	-45.0*
CHF-19.	Tectum	Glasbase; Flexiglas Base; All Weather / Empire Base; Yosemite Venting Base	Simplex Turbo Tube-Lok	9-inch o.c. at the 4-inch lap and 12-inch o.c. in two (2), equally spaced, staggered center rows	SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0*
CHF-20.	Tectum	Glasbase; Flexiglas Base; Flintlastic Base 20; All Weather / Empire Base or Yosemite Venting Base	Trufast Twin Loc-Nail Assembled Fastener (min. 1.8")	6-inch o.c. at the 4-inch lap and 10-inch o.c. in two (2), equally spaced, staggered center rows	BP-AA or SBS-AA	BP-AA or SBS-AA	SBS-AA, SBS-TA or APP-TA	-60.0
CHF-21.	Tectum	Glasbase; Flexiglas Base; Flintlastic Base 20 or All Weather / Empire Base; Yosemite Venting Base	Trufast Twin Loc-Nail Assembled Fastener (min. 1.8")	7-inch o.c. at the 4-inch lap and 7-inch o.c. in two (2), equally spaced, staggered center rows	BP-AA or SBS-AA	BP-AA or SBS-AA	SBS-AA, SBS-TA or APP-TA	-67.5



NEMO | etc.

**TABLE 6A: GYPSUM DECKS – REROOF (T<sub>EAR-OFF</sub>)  
SYSTEM, TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)			MDP (psf)
		Type	Attach	Type	Attach	Base	Ply	Cap	
G-11.	Existing sound gypsum or gypsum plank	One or more layer(s), min. 1.5-inch thick FlintBoard ISO, FlintBoard ISO H, AC Foam II, AC Foam III, H-Shield or H-Shield CG	M-OSFA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-OSFA	BP-AA or SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-187.5
G-12.	Existing sound gypsum or gypsum plank	Min. 1.5-inch AC Foam II, FlintBoard ISO, ENRGY 3 or H-Shield	M-OSFA	Min. 0.25-inch Dens Deck	M-OSFA	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-232.5
G-13.	Existing sound gypsum or gypsum plank	Min. 2-inch AC Foam II, FlintBoard ISO, ENRGY 3 or H-Shield	M-OSFA	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-OSFA	BP-AA or SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-202.5
G-14.	Existing sound gypsum or gypsum plank	One or more layer(s), min. 1.5-inch thick FlintBoard ISO, FlintBoard ISO H, AC Foam II, AC Foam III, H-Shield or H-Shield CG	M-PG1	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-PG1	BP-AA or SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-187.5
G-15.	Existing sound gypsum or gypsum plank	Min. 1.5-inch AC Foam II, FlintBoard ISO, ENRGY 3 or H-Shield	OB500	Min. 0.5-inch Structodek High Density Fiberboard	OB500	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-120.0
G-16.	Existing sound gypsum or gypsum plank	Min. 1.5-inch AC Foam II, FlintBoard ISO, ENRGY 3 or H-Shield	OB500	Min. 0.25-inch Dens Deck, Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	OB500	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-135.0
G-17.	Existing sound gypsum or gypsum plank	One or more layer(s), min. 1.5-inch thick FlintBoard ISO, FlintBoard ISO H, AC Foam II, AC Foam III, H-Shield or H-Shield CG	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-187.5
G-18.	Existing sound gypsum or gypsum plank	One or more layer(s), min. 1.5-inch thick FlintBoard ISO, FlintBoard ISO H, AC Foam II, AC Foam III, H-Shield or H-Shield CG	ICP BOARD-MAX	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	ICP BOARD-MAX	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-187.5
G-19.	Existing sound gypsum or gypsum plank	Min. 1.0-inch ISO 95+ GL, H-Shield, H-Shield CG, ENRGY 3 or min. 1.3-inch AC Foam III, Min. 1.5-inch Multi-Max FA3 or Ultra-Max	CR-20	Min. 0.25-inch Dens Deck or Dens Deck Prime	CR-20	SBS-TA	(Optional) SBS-TA	SBS-TA	-180.0
G-20.	Existing sound gypsum or gypsum plank	Min. 1.0-inch ISO 95+ GL, H-Shield, H-Shield CG, ENRGY 3 or min. 1.3-inch AC Foam III, Min. 1.5-inch Multi-Max FA3 or Ultra-Max	CR-20	Min. 0.5-inch Structodek High Density Fiberboard or DuraBoard (homogeneous) or min. 1.5-inch FescoBoard (laminated)	CR-20	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-180.0
G-21.	Existing sound gypsum or gypsum plank	One or more layer(s), min. 1.5-inch thick FlintBoard ISO, FlintBoard ISO H, AC Foam II, AC Foam III, H-Shield or H-Shield CG	CR-20	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	CR-20	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-187.5
G-22.	Existing sound gypsum or gypsum plank	Min. 1.0-inch ISO 95+ GL, H-Shield, H-Shield CG, ENRGY 3 or min. 1.3-inch AC Foam III, Min. 1.5-inch Multi-Max FA3 or Ultra-Max	CR-20	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	CR-20	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-225.0



NEMO | etc.

**TABLE 6B: GYPSUM DECKS – REROOF (TEAR-OFF)**  
**SYSTEM TYPE A-2: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Anchor Sheet		Base Insulation		Top Insulation			Roof Cover (Note 15)			MDP (psf)
		Type	Fasteners (Note 11)	Attach	Type	Attach	Type	Attach	Base	Ply	Cap	
G-28.	Existing sound gypsum or gypsum plank	Glasbase; Flexiglas Base; Flintlastic Base 20; All Weather / Empire Base or Yosemite Venting Base	Trufast Twin Loc-Nail Assembled Fastener (Field W/D > 80 lbf)	6-inch o.c. at the 4-inch lap and 10-inch o.c. in two (2), equally spaced, staggered center rows	Min. 1.5-inch ACFoam II, FlintBoard ISO, ENERGY 3 or Multi-Max FA3	HA	Min. 0.75-inch FescoBoard (homogeneous) or min. 0.5-inch Structodek High Density Fiberboard	HA	BP-AA or SBS-AA	(Optional) BP-AA or SBS-AA	SBS-AA, SBS-TA or APP-TA	-60.0
G-29.	Existing sound gypsum or gypsum plank	Glasbase; Flexiglas Base; Flintlastic Base 20; All Weather / Empire Base; Yosemite Venting Base	Trufast Twin Loc-Nail Assembled Fastener (Field W/D > 69 lbf)	7-inch o.c. at the 4-inch lap and 7-inch o.c. in two (2), equally spaced, staggered center rows	Min. 1.5-inch ACFoam II, FlintBoard ISO, ENERGY 3 or Multi-Max FA3	HA	Min. 0.75-inch FescoBoard (homogeneous) or min. 0.5-inch Structodek High Density Fiberboard	HA	BP-AA or SBS-AA	(Optional) BP-AA or SBS-AA	SBS-AA, SBS-TA or APP-TA	-60.0

**TABLE 6C: GYPSUM DECKS – REROOF (TEAR-OFF)**  
**SYSTEM TYPE C: MECHANICALLY ATTACHED INSULATION, BONDED ROOF COVER**

System No.	Deck (Note 1)	Base Insulation Layer(s)	Top Insulation Layer		Roof Cover (Note 15)			MDP (psf)	
			Type	Fasteners (Note 11)	Base	Ply	Cap		
G-30.	Existing sound gypsum or gypsum plank	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation	OMG Polymer GypTec with 3" GypTec Plate (Field W/D > 180 lbf)	BP-AA or SBS-AA	1 per 2 ft <sup>2</sup>	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0*
G-31.	Existing sound gypsum or gypsum plank	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch Dens Deck or Dens Deck Prime	OMG Polymer GypTec with 3" GypTec Plate (Field W/D > 160 lbf)	BP-AA, SBS-AA, SBS-TA or APP-TA	1 per 1.78 ft <sup>2</sup>	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0*
G-32.	Existing sound gypsum or gypsum plank	(Optional) One or more layers, any combination, loose laid	Min. 0.5-inch Structodek High Density Fiberboard Roof Insulation	Trufast Twin Loc-Nail Assembled Fasteners (Field W/D > 180 lbf)	BP-AA or SBS-AA	1 per 2 ft <sup>2</sup>	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0*
G-33.	Existing sound gypsum or gypsum plank	(Optional) One or more layers, any combination, loose laid	Min. 0.25-inch Dens Deck or Dens Deck Prime or SECUROCK Gypsum-Fiber Roof Board	Trufast Twin Loc-Nail Assembled Fasteners (Field W/D > 180 lbf)	BP-AA, SBS-AA, SBS-TA or APP-TA	1 per 2 ft <sup>2</sup>	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-45.0*



NEMO | etc.

**TABLE 7A: RECOVER APPLICATIONS  
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Substrate (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Attach	Base	Roof Cover (Note 15)		MDP (psf)
		Type	Attach	Type	Attach			Ply	Cap	
<b>SELF-ADHERING SYSTEMS:</b>										
R-1	Existing fully bonded BUR or modified bitumen roof cover	Min. 0.25-inch Dens Deck primed with FlintPrime SA; or SECUROCK Gypsum-Fiber Roof Board.	HA	None	N/A	SBS-SA	(Optional) SBS-SA	SBS-SA	-105.0	
R-2	Existing fully bonded BUR or modified bitumen roof cover	Min. 1.5-inch AC Foam II, FlintBoard ISO, ENRGY 3, H-Shield or Multi-Max FA3	HA	Min. 0.25-inch Dens Deck primed with FlintPrime SA; or SECUROCK Gypsum-Fiber Roof Board.	HA	SBS-SA	(Optional) SBS-SA	SBS-SA	-105.0	
R-3	Existing fully bonded, smooth surface BUR or modified bitumen	Min. 0.25-inch Dens Deck primed with FlintPrime SA or SECUROCK Gypsum-Fiber Roof Board	A-PD, 6-inch o.c.	None	N/A	SBS-SA	(Optional) SBS-SA	SBS-SA	-105.0	
R-4	Existing fully bonded, mineral surface modified bitumen	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	A-PD, 6-inch o.c.	None	N/A	SBS-SA	(Optional) SBS-SA	SBS-SA	-172.5	
R-5	Existing fully bonded, mineral surface modified bitumen	Min. 0.25-inch Dens Deck primed with FlintPrime SA	A-PD, 6-inch o.c.	None	N/A	SBS-SA	(Optional) SBS-SA	SBS-SA	-180.0	
R-6	Existing fully bonded, smooth surface BUR or modified bitumen	Min. 1.5-inch AC Foam II, FlintBoard, ENRGY 3 or Multi-Max FA3	A-PD, 6-inch o.c.	Min. 0.25-inch Dens Deck primed with FlintPrime SA or SECUROCK Gypsum-Fiber Roof Board	A-PD, 6-inch o.c.	SBS-SA	(Optional) SBS-SA	SBS-SA	-52.5	
R-7	Existing fully bonded, mineral surface BUR or modified bitumen	Min. 1.5-inch AC Foam II, FlintBoard, ENRGY 3 or Multi-Max FA3	A-PD, 6-inch o.c.	Min. 0.25-inch Dens Deck primed with FlintPrime SA or SECUROCK Gypsum-Fiber Roof Board	A-PD, 6-inch o.c.	SBS-SA	(Optional) SBS-SA	SBS-SA	-172.5	
R-8	Existing fully bonded BUR or modified bitumen roof cover	Min. 1.5-inch AC Foam II, FlintBoard, ENRGY 3 or H-Shield	M-OSFA	Min. 0.25-inch Dens Deck primed with FlintPrime SA or SECUROCK Gypsum-Fiber Roof Board	M-OSFA	SBS-SA	(Optional) SBS-SA	SBS-SA	-157.5	
R-9	Existing fully bonded, smooth- or granule-surface BUR or modified bitumen	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-PG1	None	N/A	SBS-SA	(Optional) SBS-SA	SBS-SA	-172.5	
R-10	Existing fully bonded, smooth- or granule-surface BUR or modified bitumen	Min. 0.25-inch Dens Deck primed with FlintPrime SA	M-PG1	None	N/A	SBS-SA	(Optional) SBS-SA	SBS-SA	-180.0	
R-11	Existing fully bonded BUR or modified bitumen roof cover	Min. 1.5-inch AC Foam II, FlintBoard, ENRGY 3 or H-Shield	M-PG1	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-PG1	SBS-SA	(Optional) SBS-SA	SBS-SA	-172.5	



NEMO | etc.

**TABLE 7A: RECOVER APPLICATIONS  
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Substrate (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)			MDP (psf)
		Type	Attach	Type	Attach	Base	Ply	Cap	
R-23	Existing fully bonded BUR or modified bitumen roof cover	Min. 0.25-inch SECURROCK Gypsum-Fiber Roof Board	HA	None	N/A	SBS-SA-H	(Optional) SBS-AA, SBS-TA, APP-TA	SBS-AA, SBS-TA, APP-TA	-105.0
R-24	Existing fully bonded, smooth surface BUR or modified bitumen	Min. 0.25-inch SECURROCK Gypsum-Fiber Roof Board	A-PD, 6-inch o.c.	None	N/A	SBS-SA-H	(Optional) SBS-AA, SBS-TA, APP-TA	SBS-AA, SBS-TA, APP-TA	-105.0
R-25	Existing fully bonded, mineral surface modified bitumen	Min. 0.25-inch SECURROCK Gypsum-Fiber Roof Board	A-PD, 6-inch o.c.	None	N/A	SBS-SA-H	(Optional) SBS-AA, SBS-TA, APP-TA	SBS-AA, SBS-TA, APP-TA	-180.0
R-26	Existing fully bonded, smooth- or granule-surface BUR or modified bitumen	Min. 0.25-inch SECURROCK Gypsum-Fiber Roof Board	M-PG1	None	N/A	SBS-SA-H	(Optional) SBS-AA, SBS-TA, APP-TA	SBS-AA, SBS-TA, APP-TA	-180.0
R-27	Existing fully bonded, smooth- or granule-surface BUR or modified bitumen	Min. 0.25-inch SECURROCK Gypsum-Fiber Roof Board	OB500	None	N/A	SBS-SA-H	(Optional) SBS-AA, SBS-TA, APP-TA	SBS-AA, SBS-TA, APP-TA	-120.0
R-28	Existing fully bonded, smooth- or granule-surface BUR or granule-surface modified bitumen	Min. 0.25-inch SECURROCK Gypsum-Fiber Roof Board	ICP BOARD-MAX	None	N/A	SBS-SA-H	(Optional) SBS-AA, SBS-TA, APP-TA	SBS-AA, SBS-TA, APP-TA	-195.0
R-29	Existing fully bonded, smooth- or granule-surface BUR or modified bitumen	Min. 0.25-inch SECURROCK Gypsum-Fiber Roof Board	CR-20	None	N/A	SBS-SA-H	(Optional) SBS-AA, SBS-TA, APP-TA	SBS-AA, SBS-TA, APP-TA	-195.0
<b>CONVENTIONAL SYSTEMS:</b>									
R-30	Existing fully bonded BUR or modified bitumen roof cover	0.5-inch Structodek High Density Fiberboard or min. 0.75-inch Fesco Board (homogeneous)	HA	None	N/A	BP-AA, SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-105.0
R-31	Existing fully bonded BUR or modified bitumen roof cover	0.25-inch Dens Deck, Dens Deck Prime or SECURROCK Gypsum-Fiber Roof Board	HA	None	N/A	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-105.0
R-32	Existing fully bonded BUR or modified bitumen roof cover	Min. 1.5-inch AC Foam II, FlintBoard ISO, ENRGY 3, H-Shield or Multi-Max FA3	HA	Min. 0.5-inch Structodek High Density Fiberboard, Min. 0.75-inch FescoBoard (homogeneous) or Min. 0.5-inch DuraBoard (homogeneous)	HA	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-105.0
R-33	Existing fully bonded BUR or modified bitumen roof cover	Min. 1.5-inch AC Foam II, FlintBoard ISO, ENRGY 3, H-Shield or Multi-Max FA3	HA	Min. 0.25-inch SECURROCK Gypsum-Fiber Roof Board, Dens Deck, Dens Deck Prime	HA	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-105.0
R-34	Existing fully bonded, smooth surface BUR or modified bitumen	Min. 0.5-inch Structodek High Density Fiberboard	A-PD, 6-inch o.c.	None	N/A	BP-AA, SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-105.0
R-35	Existing fully bonded, mineral surface modified bitumen	Min. 0.5-inch Structodek High Density Fiberboard	A-PD, 6-inch o.c.	None	N/A	BP-AA, SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-180.0





NEMO | etc.

**TABLE 7A: RECOVER APPLICATIONS  
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Substrate (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)			MDP (psf)
		Type	Attach	Type	Attach	Base	Ply	Cap	
R-47	Existing fully bonded BUR or modified bitumen roof cover	Min. 1.5-inch ACFoam II, FlintBoard ISO, ENRGY 3 or H-Shield	M-PG1	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board or Dens Deck	M-PG1	BP-AA or SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-180.0
R-48	Existing fully bonded, smooth- or granule-surface BUR or modified bitumen	Min. 0.5-inch Structodek High Density Fiberboard	OB500	None	N/A	BP-AA, SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-120.0
R-49	Existing fully bonded, smooth- or granule-surface BUR or modified bitumen	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	None	N/A	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-120.0
R-50	Existing fully bonded BUR or modified bitumen roof cover	Min. 1.5-inch ACFoam II, FlintBoard ISO, ENRGY 3 or H-Shield	OB500	Min. 0.5-inch Structodek High Density Fiberboard	OB500	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-120.0
R-51	Existing fully bonded BUR or modified bitumen roof cover	Min. 1.5-inch ACFoam II, FlintBoard ISO, ENRGY 3 or H-Shield	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board, Dens Deck or Dens Deck Prime	OB500	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-120.0
R-52	Existing fully bonded, smooth- or granule-surface BUR or modified bitumen	Min. 0.5-inch Structodek High Density Fiberboard	CR-20	None	N/A	BP-AA, SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-195.0
R-53	Existing fully bonded, smooth- or granule-surface BUR or granule-surface modified bitumen	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	ICP BOARD-MAX	None	N/A	BP-AA, SBS-AA, SBS-TA or APP-TA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-195.0
R-54	Existing fully bonded, smooth- or granule-surface BUR or granule-surface modified bitumen	Min. 1.0-inch ISO 95+ GL, H-Shield, H-Shield CG, ENRGY 3 or min. 1.3-inch ACFoam III, Min. 1.5-inch Multi-Max FA3 or Ultra-Max	ICP BOARD-MAX	Min. 0.25-inch Dens Deck or Dens Deck Prime	ICP BOARD-MAX	SBS-TA	(Optional) SBS-TA	SBS-TA	-180.0
R-55	Existing fully bonded, smooth- or granule-surface BUR or granule-surface modified bitumen	Min. 1.0-inch ISO 95+ GL, H-Shield, H-Shield CG, ENRGY 3 or min. 1.3-inch ACFoam III, Min. 1.5-inch Multi-Max FA3 or Ultra-Max	ICP BOARD-MAX	Min. 0.5-inch Structodek High Density Fiberboard or DuraBoard (homogeneous) or min. 1.5-inch FescoBoard (laminated)	ICP BOARD-MAX	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-180.0
R-56	Existing fully bonded, smooth- or granule-surface BUR or granule-surface modified bitumen	Min. 1.0-inch ISO 95+ GL, H-Shield, H-Shield CG, ENRGY 3 or min. 1.3-inch ACFoam III, Min. 1.5-inch Multi-Max FA3 or Ultra-Max	ICP BOARD-MAX	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	ICP BOARD-MAX	BP-AA or SBS-AA	(Optional) BP-AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA	-225.0
R-57	Existing fully bonded, smooth- or granule-surface BUR or granule-surface modified bitumen	Min. 1.0-inch ISO 95+ GL, H-Shield, H-Shield CG, ENRGY 3 or min. 1.3-inch ACFoam III, Min. 1.5-inch Multi-Max FA3 or Ultra-Max	ICP BOARD-MAX	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	ICP BOARD-MAX	SBS-TA or APP-TA	(Optional) SBS-TA or APP-TA	SBS-TA or APP-TA	-232.5



NEMO | etc.

**TABLE 7A: RECOVER APPLICATIONS  
SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER**

System No.	Substrate (Notes 1 & 12)	Base Insulation Layer		Top Insulation Layer		Roof Cover (Note 15)			MDP (psf)
		Type	Attach	Type	Attach	Base	Ply	Cap	
R-69	Existing fully bonded, mineral surface BUR or modified bitumen	Min. 0.5-inch AC Foam II, FlintBoard ISO, H-Shield, FlintBoard ISO <sub>H</sub>	A-PD, 6-inch o.c.	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	A-PD, 6-inch o.c.	SBS-CA1	None	SBS-CA1	-105.0
R-70	Existing fully bonded, smooth- or granule-surface BUR or modified bitumen	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-PG1	None	N/A	SBS-CA1	None	SBS-CA1	-105.0
R-71	Existing fully bonded, mineral surface BUR or modified bitumen	Min. 0.5-inch AC Foam II, FlintBoard ISO, H-Shield, FlintBoard ISO <sub>H</sub>	M-OSFA, M-PG1	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	M-OSFA, M-PG1	SBS-CA1	None	SBS-CA1	-105.0
R-72	Existing fully bonded, smooth- or granule-surface BUR or modified bitumen	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	None	N/A	SBS-CA1	None	SBS-CA1	-105.0
R-73	Existing fully bonded, mineral surface BUR or modified bitumen	Min. 0.5-inch AC Foam II, FlintBoard ISO, H-Shield, FlintBoard ISO <sub>H</sub>	OB500	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	OB500	SBS-CA1	None	SBS-CA1	-105.0
R-74	Existing fully bonded, smooth- or granule-surface BUR or granule-surface modified bitumen	(Optional) Min. 0.5-inch AC Foam II, FlintBoard ISO, H-Shield, FlintBoard ISO <sub>H</sub>	ICP BOARD-MAX	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	ICP BOARD-MAX	SBS-CA1	None	SBS-CA1	-105.0
R-75	Existing fully bonded, smooth- or granule-surface BUR or modified bitumen	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	CR-20	None	N/A	SBS-CA1	None	SBS-CA1	-105.0
R-76	Existing fully bonded, mineral surface BUR or modified bitumen	Min. 0.5-inch AC Foam II, FlintBoard ISO, H-Shield, FlintBoard ISO <sub>H</sub>	CR-20	Min. 0.25-inch SECUROCK Gypsum-Fiber Roof Board	CR-20	SBS-CA1	None	SBS-CA1	-105.0

**TABLE 7B: RECOVER APPLICATIONS – NEW CONSTRUCTION OR REROOF (TEAR-OFF)  
SYSTEM TYPE F: NON-INSULATED, BONDED ROOF COVER**

System No.	Substrate (Notes 1 & 12)	Primer	Roof Cover (Note 15)		MDP (psf)
			Base	Cap	
R-77	Existing fully bonded BUR over structural concrete deck	(Optional) FlintPrime (ASTM D41)	SBS-CA1	None	-187.5

11:39:25 AM 9/24/2018

**Data Contained In Search Results Is Current As Of 09/24/2018 11:33 AM.**

**Search Results**

Please see our [glossary of terms](#) for an explanation of the license status shown in these search results.

For additional information, including any complaints or discipline, click on the name.

License Type	Name	Name Type	License Number/ Rank	Status/Expires
Certified Roofing Contractor	<a href="#">GOLD KEY ROOFING LLC</a>	DBA	CCC1329157 Cert Roofing	Current, Active 08/31/2020
Main Address*: 4874 S. ORANGE AVE ORLANDO, FL 32806				
Certified Roofing Contractor	<a href="#">HEWITT, JEFFREY ALLAN</a>	Primary	CCC1329157 Cert Roofing	Current, Active 08/31/2020
Main Address*: 4874 S. ORANGE AVE ORLANDO, FL 32806				

[Back](#) [New Search](#)

\* denotes

- Main Address - This address is the Primary Address on file.
- Mailing Address - This is the address where the mail associated with a particular license will be sent (if different from the Main or License Location addresses).
- License Location Address - This is the address where the place of business is physically located.

2001 Blair Stone Road, Tallahassee FL 32399 :: Email: [Customer Contact Center](#) :: Customer Contact Center: 850.487.1395

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**Tax Collector Scott Randolph**

**Local Business Tax Receipt**

**Orange County, Florida**

	<b>2019</b>		<b>EXPIRES 9/30/2020</b>				
1806	CERT ROOFING CONTRA	\$40.00	15 EMPLOYEES	5000	BUSINESS OFFICE	\$30.00	1806-1154716
1801	CERT BUILDING CONTR	\$30.00	1 EMPLOYEE				5 EMPLOYEES

TOTAL TAX \$100.00  
 PREVIOUSLY PAID \$100.00  
 TOTAL DUE \$0.00

HEWITT III HARRY  
 HEWITT JEFFREY ALLAN (QUALIFIER)

GOLD KEY ROOFING LLC  
 4874 S ORANGE AVE  
 ORLANDO FL 32808-8831

4874 S ORANGE AVE  
 N - EDGEWOOD, 32806

PAID \$100.00 0099-00904423 8/21/2019

**Tax Collector Scott Randolph**

**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.

	<b>2019</b>		<b>EXPIRES 9/30/2020</b>				
1806	CERT ROOFING CONTRA	\$40.00	16 EMPLOYEES	5000	BUSINESS OFFICE	\$30.00	1806-1154716
1801	CERT BUILDING CONTR	\$30.00	1 EMPLOYEE				5 EMPLOYEES

TOTAL TAX \$100.00  
 PREVIOUSLY PAID \$100.00  
 TOTAL DUE \$0.00



HEWITT III HARRY  
 HEWITT JEFFREY ALLAN (QUALIFIER)

GOLD KEY ROOFING LLC  
 4874 S ORANGE AVE  
 ORLANDO FL 32808-8831

4874 S ORANGE AVE  
 N - EDGEWOOD, 32806

PAID: \$100.00 0099-00804423 8/21/2019

This receipt is official when validated by the Tax Collector.

Orange County Code requires this local Business Tax Receipt to be displayed conspicuously at the place of business in public view. It is subject to inspection by all duly authorized officers of the County.



# CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

1/30/2020

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).

<b>PRODUCER</b> Frank H. Furman, Inc. 1314 East Atlantic Blvd. P. O. Box 1927 Pompano Beach FL 33061	<b>CONTACT NAME:</b> Griseldys Acosta <b>PHONE (A/C, No, Ext):</b> (954) 943-5050 <b>E-MAIL ADDRESS:</b> gris@furmaninsurance.com	<b>FAX (A/C, No):</b> (954) 942-6310
	<b>INSURER(S) AFFORDING COVERAGE</b>	
<b>INSURED</b> Gold Key Roofing, LLC Gold Key International Inc 4874 S. Orange Avenue Orlando FL 32806	<b>INSURER A:</b> Security National Insurance Company <b>NAIC #</b> 19879	
	<b>INSURER B:</b> Old Dominion Insurance Company <b>40231</b>	
	<b>INSURER C:</b>	
	<b>INSURER D:</b>	
	<b>INSURER E:</b>	

**COVERAGES**

CERTIFICATE NUMBER: 20-21 MASTER W/O ENDTS

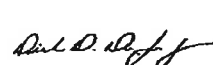
REVISION NUMBER:

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"/> <b>COMMERCIAL GENERAL LIABILITY</b> <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PROJECT <input type="checkbox"/> LOC <input type="checkbox"/> OTHER			SES179118500	2/19/2020	2/19/2021	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 100,000 MED EXP (Any one person) \$ 5,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000 Employee Benefits Liability \$ 1,000,000
B	<b>AUTOMOBILE LIABILITY</b> <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS			B1P4594R	2/19/2020	2/19/2021	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ PIP-Basic \$ 10,000
A	<input checked="" type="checkbox"/> <b>UMBRELLA LIAB</b> <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED \$ RETENTION \$			EXS154040101	2/19/2020	2/19/2021	EACH OCCURRENCE \$ 1,000,000 AGGREGATE \$ 1,000,000
	<b>WORKERS COMPENSATION AND EMPLOYERS' LIABILITY</b> ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N	N/A				PER STATUTE OTH-ER E.L. EACH ACCIDENT \$ E.L. DISEASE - EA EMPLOYEE \$ 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**

City of Belle Isle 1600 Nela Ave Orlando, FL 32809	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.  AUTHORIZED REPRESENTATIVE Dirk DeJong/GA 
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ACORD 25 (2014/01)  
INS025 (201401)

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# CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

12/12/2019

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).

<b>PRODUCER</b> FRSA Self Insurers Fund, Inc. 4099 Metric Drive Winter Park, FL 32792	<b>CONTACT NAME:</b> Debra Guidry, CPCU <b>PHONE (A/C, No, Ext):</b> (800) 767-3772 <b>FAX (A/C, No):</b> (407) 671-2520 <b>E-MAIL ADDRESS:</b> cert@frsasif.com	
	<b>INSURER(S) AFFORDING COVERAGE</b>	
<b>INSURED</b> Gold Key Roofing, LLC and Gold Key Cabinetry, Inc. 4874 S. Orange Avenue Orlando, FL 32806	<b>INSURER A:</b> FRSA Self Insurers Fund / Evanston Insurance Co. <b>NAIC #</b> 35378	
	<b>INSURER B:</b>	
	<b>INSURER C:</b>	
	<b>INSURER D:</b>	
	<b>INSURER E:</b>	
	<b>INSURER F:</b>	

**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
	<b>COMMERCIAL GENERAL LIABILITY</b> <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> OCCUR  GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:			N/A			EACH OCCURRENCE \$ DAMAGE TO RENTED PREMISES (Ea occurrence) \$ MED EXP (Any one person) \$ PERSONAL & ADV INJURY \$ GENERAL AGGREGATE \$ PRODUCTS - COM/OP AGG \$
	<b>AUTOMOBILE LIABILITY</b> <input type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> NON-OWNED AUTOS			N/A			COMBINED SINGLE LIMIT (Ea accident) \$ BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$
	<b>UMBRELLA LIAB</b> <input type="checkbox"/> OCCUR <b>EXCESS LIAB</b> <input type="checkbox"/> CLAIMS-MADE DED    RETENTION \$			N/A			EACH OCCURRENCE \$ AGGREGATE \$
A	<b>WORKERS COMPENSATION AND EMPLOYERS' LIABILITY</b> ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N	N/A	870-040079 / 3EN8747	01/01/2020	01/01/2021	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E L EACH ACCIDENT \$ 1,000,000 E L DISEASE - EA EMPLOYEE \$ 1,000,000 E L DISEASE - POLICY LIMIT \$ 1,000,000

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

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

Jeffrey Allan Hewitt, Qualifier  
Lic #CCC1329157  
Lic #CBC060354

**CERTIFICATE HOLDER**

Attn:

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

**CANCELLATION**

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

Debra Guidry CPCU  
Underwriting Manager