

ADDENDUM NO. 1
April 20, 2023



500 West Fulton Street
Sanford, Florida 32771

Phone: 407.322.6841
Fax: 407.330.0639

CONTRACT DOCUMENTS
For
Eatonville Town Hall Roof & HVAC Replacement

ISSUED BY

CPH, LLC
CPH PROJECT NO. E6611

To: Prospective Bidders and other Concerned Parties

This Addendum No. 1 to the Plans, Specifications, and Contract Documents for the Eatonville Town Hall Roof & HVAC Replacement is hereby declared a part of the Original Contract Documents. This addendum shall be incorporated within the Contract Documents and have the same force and effect as if part of the original documents, and in case of conflict, this Addendum No. 1 shall govern.

This addendum consists of the following attachments.

PROJECT MANUAL CHANGES

- REMOVE and REPLACE Section 00030 Invitation to Bid

END OF ADDENDUM NO. 1

**SECTION 00030
INVITATION TO BID**

**Town of Eatonville
307 East Kennedy Blvd.
Eatonville, FL 32751**

BID NO.: TH-01

OPENING TIME: 2:00 pm

OPENING DATE: Friday, May 19, 2023

You are invited to bid on the following:

**BID NO. TH-01
ROOF & HVAC IMPROVEMENTS**

SCOPE OF WORK: The project will consist of removal of existing Bituminous roof membrane and ballast covering, replacement of roof coping, roof accessories and HVAC roof top improvements. Remove and reinstall two (2) existing HVAC roof top units and remove and replace four (4) HVAC units.

Project budget: \$1,200,000

The complete set of bidding documents are available through the CPH FTP site:

<ftp://ftp.cphcorp.com>

Username: townhallbid

Password: [ftp4thall](#)

A **mandatory** pre-bid conference for all bidders will be held at Town of Eatonville, Town Hall, 307 East Kennedy Blvd., Eatonville, FL, on Thursday, April 27, 2023, at 2:00 pm local time. The purpose of this meeting is to review the scope of work and completion schedule for the Project, to answer questions, and to ensure that there is a clear understanding of the work that must be performed and completion deadlines to successfully complete this entire project. All bidders who are present at the pre-bid meeting will be required to provide the contact information to be added to the list of potential bidders for the project.

Bidders are responsible for checking the FTP site for communications including any bid addenda. All bid questions must be received prior to 5:00PM, Thursday, May 11, 2023, local time to the project coordinator, Jeff Millard (jmillard@cphcorp.com)

Terms of Payment: Net 30 days upon delivery and acceptance of invoice.

Bid must be received in the Town Manager's Office, Eatonville Town Hall, 307 East Kennedy Blvd., Eatonville, FL 32751, before:

Time: 2:00 pm

Date: FRIDAY, MAY 19, 2023

Bids will be immediately opened after the Bid Due Date and Time in the Eatonville Town Hall.

You are invited to be present.

State of Florida Tax Exemption Number is 59-1023080.

END OF SECTION

**SECTION 00030
INVITATION TO BID**

**Town of Eatonville
307 East Kennedy Blvd.
Eatonville, FL 32751**

BID NO.: TH-01

OPENING TIME: 2:00 pm

OPENING DATE: Friday, May 19, 2023

You are invited to bid on the following:

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ROOF & HVAC IMPROVEMENTS**

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You are invited to be present.

State of Florida Tax Exemption Number is 59-1023080.

END OF SECTION

SECTION 00060

CONFLICT OF INTEREST STATEMENT

STATE OF Florida

COUNTY OF Polk

Before me, the undersigned authority, personally appeared Ambrosio Lopez,
who was duly sworn, deposes, and states:

1. I am the Commercial Project Manager of
1st Class Roofing, Inc. with a local office in
Auburndale, FL and principal office in Auburndale, FL
(Town & State) (Town & State)
2. The above-named entity is submitting a Bid for the Town of Eatonville, described as:
Bid No. TH-01 ROOF & HVAC IMPROVEMENTS
3. The Affiant has made diligent inquiry and provides the information contained in this Affidavit based upon his/her own knowledge.
4. The Affiant states that only one submittal for the above bid is being submitted and that the above-named entity has no financial interest in other entities submitting bids for the same project.
5. Neither the Affiant nor the above-named entity has directly or indirectly entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive pricing in connection with the entity's submittal for the above bid. The entity will restrict the discussion of pricing data until the completion of negotiations and execution of the Contract for this project, if necessary.
6. Neither the entity nor its affiliates, nor anyone associated with them, is presently suspended or disqualified or otherwise ineligible from participation in contract letting by any local, State, or Federal Agency.
7. Neither the entity, nor its affiliates, nor anyone associated with them, have any potential conflict of interest due to any other clients, contracts, or property interests for this project.
8. I certify that no member of the entity's ownership or management is presently applying for an employee position or actively seeking an elected position with the Town of Eatonville.
9. I certify that no member of the entity's ownership, management or staff has a vested interest in any aspect of the Town of Eatonville.

10. In the event that a conflict of interest is identified in the provision of services, I, on behalf of the above-named entity, will immediately notify the Town of Eatonville.

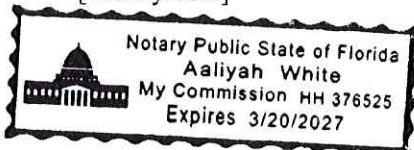
Signed  Dated 5/18/2023
Ambrosio Lopez (Commercial Project Manager)
Typed Name and Title

STATE OF Florida
COUNTY OF Polk

The foregoing instrument was acknowledged before me by means of ☒ physical presence or ☐ online notarization, this (date) 5/18/2023 by (name of person acknowledging) Ambrosio Lopez, who is personally known to me or who has produced (type of identification) _____ as identification.


Notary Public – Signature

[Notary Seal]



Aaliyah White
Name typed, printed or stamped
My Commission Expires: 3/20/2027

****THIS FORM MUST BE COMPLETED AND RETURNED WITH YOUR BID.**

END OF SECTION

SECTION 00300

BID FORM

1. GENERAL

1.01 Description

The following Bid is hereby made to the Town of Eatonville, hereafter called the Town. Bid is submitted by:

Legal Name: 1st Class Roofing, Inc.

Address: 1815 Thornhill Rd. Suite 301s., Auburndale, FL 33823

Phone Number: (407) 413-3079 Fax Number: _____

FEIN: 46-3815585 Corp. Structure S-Corp
(sole proprietorship, partnership, corporation, etc.)

Contact Person: Ambrosio Lopez

Email address: ambrosiolopez.1cri@gmail.com

1.02 The Undersigned:

A. Acknowledges receipt of:

1. Project Manual (Specifications) for **ROOF & HVAC IMPROVEMENTS** from the Town of Eatonville, dated **MARCH 30, 2023**.
2. Project Plans
3. Addenda:

Number 1, dated April 20, 2023
Number _____, dated _____

Number _____, dated _____
Number _____, dated _____

B. Has examined all Bidding Documents and understands that in submitting this Bid, he/she waives all rights to plead any misunderstanding regarding the same.

C. Has carefully examined the site of the Work and that, based upon its own investigations, Bidder has fully satisfied itself as to: (1) the nature and location of the Work; (2) the location of all existing utilities, whether above or below the surface; (3) all subsurface conditions; (4) the character, quality and quantity of all materials needed for the performance of the Work; (5) the kind and extent of the equipment, labor and other resources or facilities needed for the performance of the Work; (6) the general and local conditions, as well as all difficulties that may be encountered, including but not limited to weather conditions; and (7) all other items which may in any way affect or impact the Work or its performance, and agrees:

1. To hold this Bid open for sixty (60) calendar days after the bid opening date.

2. To accept the provisions of the Instructions to Bidders regarding disposition of Bid Security.
3. To enter into and execute a contract with the Town, if awarded on the basis of this Bid, and to furnish a Performance Bond and a Labor and Material Payment Bond in accordance with the Instructions to Bidders.
4. To accomplish the work in accordance with the Contract Documents.
5. To begin work not later than fourteen (14) days after the issuance of a Notice to Proceed, unless otherwise provided, to Substantially Complete the work within **Ninty (90)** Calendar Days and to Finally Complete the work within **One Hundred Twenty (120)** Calendar Days of date of the Notice to Proceed. (See Agreement Form; Section 00500, 1.02, C.)
6. To accept the provisions of the Agreement (Section 00500) as to liquidated damages in the event of failure to complete the work on time (when applicable).

1.03 Miscellaneous Requirements and Affirmations

- A. Proposals (Bids) must be submitted on this Bid Form.
- B. I have completed and totaled the attached Bid Form Schedule of Values (page 4 of this section) to reflect my total bid amount.
- C. I have attached evidence of qualification and licensing to do business in the State and locality of this project.
- D. I have attached the required Bid Security to this Bid.
- E. I have attached a list of all subcontractors I will utilize for the Contract work.
- F. I have attached the following required items:
 - a. Bid Form
 - b. Notarized power-of-attorney
 - c. Bid Security
 - d. Conflict of Interest Statement
 - e. Drug-Free Workplace Certification Form
 - f. Non-Collusion Affidavit of Bidder
 - g. Dispute Disclosure Form
 - h. Standard Insurance Requirements
 - i. A list of all sub-contractors
 - j. A list of business references
 - k. Evidence of qualification and licensing
 - l. Evidence of corporate or joint-venture certification in the state
 - m. Vendor Certification Regarding Scrutinized Companies
 - n. E-Verify Form
 - o. List of substitutions or alternates from bid specifications.
 - p. Equipment List (Section 00100, 1.05, C, g (2))

1.04

RESPECTFULLY SUBMITTED, signed and sealed this 18th day of

May, 20 23

Contractor 1st Class Roofing, Inc.

Signature

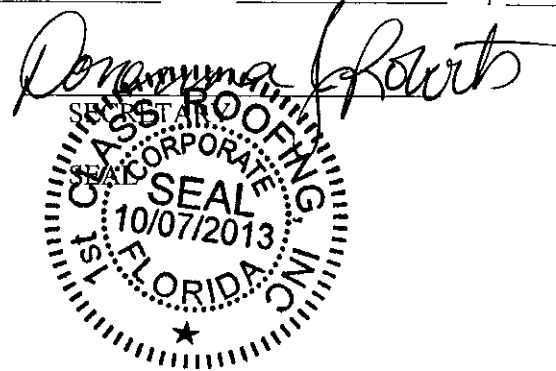
Printed Name Ambrosio Lopez

Title Commercial Project Manager

Business Address 1815 Thornhill Rd. Suite 301s

Town Auburndale State FL Zip 33823

ATTEST:



BID SCHEDULE

The Bidder hereby agrees to perform all work as required by the Contract Documents for the following Unit Prices. All work required to be performed by the Contract Documents is to be included within the following Pay Items, inclusive of furnishing all manpower, equipment, materials and performance of all operations relative to construction of the project. Work for which there is not a Pay Item will be considered incidental to the Contract and no additional compensation will be allowed.

BID SCHEDULE - ROOF & HVAC IMPROVEMENTS BID #??-??

| ITEM NO. | DESCRIPTION | UNIT | QUANTITY | UNIT PRICE | TOTAL |
|-----------|--------------------------------------|------|----------|--------------|--------------|
| 1 | MOBILIZATION / DEMOBILIZATION | LS | 1 | \$19,192.90 | \$19,192.90 |
| 2 | PROJECT RECORD DOCUMENTS | LS | 1 | \$3,838.58 | \$3,838.58 |
| 3 | INDEMNIFICATION | EA | 1 | \$100.00 | \$100 |
| 4 | BUILDING PERMIT | LS | 1 | \$7,677.16 | \$7,677.16 |
| 5 | DEMOLITION OF OLD ROOF | LS | 1 | \$114,656.18 | \$114,656.18 |
| 6 | FURNISH NEW ROOF | LS | 1 | \$114,656.18 | \$114,656.18 |
| 7 | REMOVE / REINSTALL 2 HVAC UNITS | LS | 1 | \$61,868.50 | \$61,868.50 |
| 8 | FURNISH AND INSTALL 4 NEW HVAC UNITS | LS | 1 | \$61,868.50 | \$61,868.50 |
| TOTAL BID | | | | | \$383,858- |

TOTAL BID
AMOUNT
WRITTEN IN
WORDS

Three hundred eighty-three thousand, eight hundred fifty-eight

BIDDER
NAME:

1st Class Roofing, Inc.

END OF SECTION

BID FORM

00300-4

Nielson, Wojtowicz, Neu & Associates a Member of Nielson and Company, Inc.

1126 Central Avenue, Suite 200 St. Petersburg, FL 33705 Phone: (727) 209-1803 Fax: (727) 209-1335 www.nielsonbonds.com

IF LOW, BOND MAJOR SUBS IS REQUIRED

****Bid Bond Attached****

To: 1st Class Roofing, Inc.
Attn: Dovonna/Ambrosio

Date: 5/16/2023

Attached, please find the bid bond for the following:

Bid Date: 5/19/2023

Estimated Bid Amt:

\$1,200,000

\$400,000

Owner: Town of Eatonville FL

Project: Bid NO. TH-01 Roof & HVAC Improvements,

****NOTE, should your bid exceed the above estimate by 10% or greater, we must be notified. Please call (727) 209-1803.**

In order to maintain accurate records to better serve you, we request your assistance in providing bid results once they become available.

Please complete this form and return via fax to (727) 209-1335 or email to: eheard@nielsonbonds.com.

Results:

Contractor Name

Bid Amount

Low Bidder _____

\$ _____

2nd Bidder _____

\$ _____

3rd Bidder _____

\$ _____

*****If your bid exceeds the first three:

\$ _____

Thank you for your assistance & **GOOD LUCK!**
Sincerely,

Nielson, Wojtowicz, Neu & Associates – Tampa Bay

THE INFORMATION CONTAINED IN THIS FAX IS INTENDED FOR THE USE OF THE INDIVIDUAL(S) NAMED BELOW. IF THE READER OF THIS MESSAGE IS NOT THE INTENDED RECIPIENT(S) OR EMPLOYEE/AGENT RESPONSIBLE TO DELIVER IT TO THE INTENDED RECIPIENT(S), YOU ARE HEREBY ADVISED THAT ANY DISSEMINATION, DESTRUCTION OR COPYING OF THIS COMMUNICATION IS PROHIBITED. IF YOU HAVE RECEIVED THIS COMMUNICATION IN ERROR, PLEASE BE KIND ENOUGH TO NOTIFY US IMMEDIATELY BY TELEPHONE AND RETURN THE ORIGINAL TO US BY MAIL AT THE ABOVE ADDRESS.

IF YOU DO NOT RECEIVE ALL PAGES, PLEASE CALL

[HTTPS://NIELSONHOOVERTGROUP.SHAREPOINT.COM/SHARED DOCUMENTS/TAMPA SHARED DATA/CONTRACTOR/CLIENTS/F-H/1ST CLASS ROOFING, INC. \(DEVIN\)/BID RESULTS SHEET.DOCONE OF THE ABOVE NUMBERS](https://nielsonhoovertgroup.sharepoint.com/Shared%20Documents/Tampa%20Shared%20Data/Contractor/Clients/F-H/1st%20Class%20Roofing,%20Inc.%20(Devin)/Bid%20Results%20Sheet.docx)

SECTION 00410
BID BOND FORM

KNOW ALL MEN BY THESE PRESENTS, that we, the undersigned, _____
1st Class Roofing, Inc., as Principal, and
Lexington National Insurance Company,
as Surety, are hereby held and firmly bound unto the Town of Eatonville, Florida, as Town in the
penal sum of (5 % of the Contract Bid) _____
(written amount in dollars and cents)

Five Percent of Amount Bid

(\$ 5% amt bid) for the payment of which, well and truly to be made, we
(figure)

hereby jointly and severally bind ourselves, successors and assigns.

Signed, this 19th day of May, 2023. The Condition of the above obligation
is such that whereas the Principal has submitted to the Town of Eatonville, Florida a certain Bid, attached
hereto and hereby made a part hereof to enter into a contract in writing, for the Town of Eatonville BID NO.
TH-01 ROOF & HVAC IMPROVEMENTS and to provide Performance and Payment Bonds acceptable
to the Town.

1st Class Roofing, Inc.
Principal

Witness



Witness Eileen Heard, Surety Witness

By _____
Title

Lexington National Insurance Company
Surety

By 
Attorney in Fact & Resident Agent of Florida
Kevin R. Wojtowicz

**** THIS FORM MUST BE COMPLETED AND RETURNED WITH YOUR BID.**

END OF SECTION

POWER OF ATTORNEY

Lexington National Insurance Corporation

Lexington National Insurance Corporation, a corporation duly organized under the laws of the State of Florida and having its principal administrative office in Baltimore County, Maryland, does hereby make, constitute and appoint:

**Charles Nielson, Edward Ward, Kevin R. Wojtowicz, Shawn Burton, Jarrett Merlucci,
David Hoover, Michael Megahan, Brett Rosenhaus, Jessica P. Reno, Laura Mosholder**

as its true and lawful attorney-in-fact, each in their separate capacity, with full power and authority to execute, acknowledge, seal and deliver on its behalf as surety any bond or undertaking of \$6,000,000 or less. This Power of Attorney is void if used for any bond over that amount.

This Power of Attorney is granted under and by authority of the following resolutions adopted by the Board of Directors of the Company on February 15, 2018:

Be it Resolved, that the President or any Vice-President shall be and is hereby vested with full power and authority to appoint suitable persons as Attorney-in-Fact to represent and act for and on behalf of the Company subject to the following provisions:

Attorney-in-Fact may be given full power and authority for and in the name of and on the behalf of the Company, to execute, acknowledge and deliver any and all bonds, contracts, or indemnity and other conditional or obligatory undertakings, including any and all consents for the release of retained percentages and/or final estimates on engineering and construction contracts, and any all notices and documents cancelling or terminating the Company's liability thereunder and any such instruments so executed by any Attorney-in Fact shall be binding upon the Company as if signed by the President and sealed by the Corporate Secretary.

RESOLVED further, that the signature of the President or any Vice-President of LEXINGTON NATIONAL INSURANCE CORPORATION may be affixed by facsimile to any power of attorney, and the signature of the Secretary or any Assistant Secretary and the seal of the Company may be affixed by facsimile to any certificate of such power, or any such power or certificate bearing such facsimile signature or seal shall be valid and binding on the Company. Any such power so executed and sealed and certified by certificate so executed and sealed with respect to any bond to which it is attached continue to be valid and binding upon the Company.

IN WITNESS WHEREOF, the Company have caused this instrument to be signed and their corporate seal to be hereto affixed.



Ronald A. Frank, President



State of Maryland
County of Harford County, SS:

Before me, a notary public, personally appeared, Ronald A. Frank, President of Lexington National Insurance Corporation, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under the PENALTY of PERJURY under the laws of the State of Maryland that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Commission Expires: 05/23/24


Notary

I, Lisa R. Slater, Secretary of Lexington National Insurance Corporation, do hereby certify that the above and foregoing is true and correct copy of a Power of Attorney, executed by said company, which is still in full force and effect; furthermore, the resolutions of the Boards of Directors, set out in the Power of Attorney are in full force and effect.

In Witness Whereof, I have hereunto set my hand and affixed the seal of said Company at Baltimore, Maryland this 3rd day of May, 2022.

Corporate Seal:


Lisa R. Slater, Secretary

Attached to bond signed this 19th day of May, 2023

SECTION 00420

DRUG-FREE WORKPLACE CERTIFICATION FORM

IDENTICAL TIE BIDS-In accordance with Florida State Statutes Section 287.087, preference shall be given to businesses with drug-free workplace programs. Whenever two or more bids which are equal with respect to price, quality, and service are received by the State or by any political subdivision for the procurement of commodities or contractual services, a bid received from a business that certifies that it has implemented a drug-free workplace program shall be given preference in the award process. Established procedures for processing tie bids will be followed if none of the tied vendors have a drug-free workplace program. In order to have a drug-free workplace program, a business shall:

1. Publish a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the workplace and specifying the actions that will be taken against employees for violations of such prohibition.
2. Inform employees about the dangers of drug abuse in the workplace, the business's policy of maintaining a drug-free workplace, any available drug counseling, rehabilitation, and employee assistance programs, and the penalties that may be imposed upon employees for drug abuse violations.
3. Give each employee engaged in providing the commodities or contractual services that are under bid a copy of the statement specified in subsection 1 above.
4. In the statement specified in subsection 1, notify the employees that, as a condition of working on the commodities or contractual services that are under bid, the employee will abide by the terms of the statement and will notify the employer of any conviction of, or plea of guilty or nolo contendere to, any violation of Chapter 893 or of any controlled substance law of the United States or any state, for a violation occurring in the workplace no later than five (5) days after such conviction.
5. Impose a sanction on, or require the satisfactory participation in a drug abuse assistance or rehabilitation program if such is available to whom is so convicted.
6. Make a good faith effort to continue to maintain a drug-free workplace through implementation of this entire section.

As the person authorized to sign this statement, I certify that this firm complies fully with the above requirements.



Authorized Signature

Ambrosio Lopez

Printed Name

5/18/2023

Date
Commercial Project Manager

Title

**** THIS FORM MUST BE COMPLETED AND RETURNED WITH YOUR BID.**

END OF SECTION

SECTION 00440

NON-COLLUSION AFFIDAVIT OF BIDDER

STATE OF FL

COUNTY OF Polk

Ambrosio Lopez, being duly sworn, deposes and says that:

1. He/She is Commercial Project Manager of _____

 (Title)
1st Class Roofing, Inc.

 (Company Name)
 the bidder that has submitted the attached bid;

2. He/She is fully informed respecting the preparation and contents of the attached bid and of all pertinent circumstances respecting such bid;
3. Such Bid is genuine and is not a collusive or sham bid;
4. Neither the said bidder nor any of its officers, partners, owners, agents, representatives, employees, or parties in interest, including this affiant, has in any way colluded, connived, or agreed, directly or indirectly, with any other bidder, firm or person to submit a collusive or sham bid in connection with such Contract, or has in any manner, directly or indirectly, sought by agreement or collusion or communication or conference with any other bidder, firm, or person to fix the price or prices in the attached bid or any other bidder, or to fix any overhead, profit or cost element of the bid price or the bid price of any other bidder, or to secure through any collusion, connivance, or unlawful agreement any advantage against the Town of Eatonville, Florida or any person interested in the proposed Contract; and
5. The price or prices quoted in the attached bid are fair and proper and are not tainted by any collusion, conspiracy, connivance, or unlawful agreement on the part of the bidder or any of its agents, representatives, owners, employees, or parties in interest, including this affiant.

Signed [Signature] Dated 5/18/2023
Ambrosio Lopez (Commercial Project Manager)
 Typed Name and Title

STATE OF FL

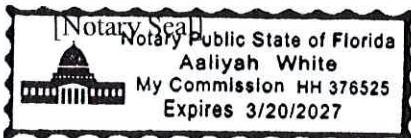
COUNTY OF Polk

The foregoing instrument was acknowledged before me by means of ☒ physical presence or ☐ online notarization, this (date) 5/18/23 by (name of person acknowledging) Ambrosio Lopez, who is personally known to me or who has produced (type of identification) _____ as identification.

Aaliyah white
 Notary Public Signature

Aaliyah white
 Name typed, printed or stamped

My Commission Expires: 3/20/2027



****THIS FORM MUST BE COMPLETED AND RETURNED WITH YOUR BID.**

END OF SECTION

SECTION 00460

DISPUTES DISCLOSURE FORM

Answer the following questions by placing an "X" after "YES" or "NO". If you answer "YES", please explain in the space provided, or via attachment.

Has your firm or any of its officers, received a reprimand of any nature or been suspended by the Department of Professional Regulations or any other regulatory agency or professional association within the last five (5) years?

YES ☐

NO ☒

Has your firm, or any member of your firm, been disqualified from bidding, debarred, declared in default, terminated or removed from a contract or job related to the services your firm provides in the regular course of business within the last five (5) years?

YES ☐

NO ☒

Has your firm had against it or filed any requests for equitable adjustment, contract claims, bid protests, or litigation in the past five (5) years that is related to the services your firm provides in the regular course of business?

YES ☐

NO ☒

If yes, state the nature of the request for equitable adjustment, contract claim, litigation, or protest, and state a brief description of the case, the outcome or status of the suit and the monetary amounts or extended contract time involved.

I hereby certify that all statements made are true and agree and understand that any misstatement or misrepresentation or falsification of facts shall be cause for forfeiture of rights for further consideration of this bid for the Town of Eatonville BID NO. TH-01 ROOF & HVAC IMPROVEMENTS.

1st Class Roofing Inc.
Firm
Doronna Roberts
Authorized Signature
5/18/23
Date
Doronna J Roberts - President
Typed Name and Title

****THIS FORM MUST BE COMPLETED AND RETURNED WITH YOUR BID.**

END OF SECTION

STATEMENT OF INSURANCE COMPLIANCE

The undersigned firm agrees to obtain prior to award, if selected, Professional Liability Insurance, Worker's Compensation and General Liability in accordance with the requirements as set forth in the Invitation for Proposal, Invitation to Bid, or Invitation for Qualifications, or draft agreement, attached hereto.

Policies other than State Issued Worker's Compensation shall be issued only by companies authorized by maintaining certificates of authority issued to the companies by the Department of Insurance of the State of Florida to conduct business in the State of Florida and which maintain a Rating of "A" or better and a Financial Size category of "VIP" or better according to the A.M. Best Company. Policies for Worker's Compensation may be issued by companies authorized as a group self-insurer.

1st Class Roofing, Inc.
PROPOSER/BIDDER
Deanna Roberts
AUTHORIZED SIGNATURE
President
OFFICER TITLE
5/18/2023
DATE

****THIS FORM MUST BE COMPLETED AND RETURNED WITH YOUR BID.**

END OF SECTION

May 19, 2022

To Whom It May Concern:

I am pleased to inform you that 1st Class Roofing of Auburndale, FL has been an authorized Duro-Last dealer/contractor in good standing since 2016. During this period, they have performed well, both technically and as a growing independent business which markets the Duro-Last roofing system.

Through inspections performed by Duro-Last's Quality Assurance Department, 1st Class Roofing has earned excellent ratings on their Duro-Last projects. In fact, 1st Class Roofing is a leader in Duro-Last's network of highly experienced contractors, having received Duro-Last's quality-oriented Master Roofing Award qualifying them for Elite contractor status.

We are proud to have 1st Class Roofing as a member of the Duro-Last dealer/contractor network. They are exceptional in the roofing industry and we are fortunate to be able to serve their needs.

Sincerely,



Steve Ruth
Vice President of Sales



Ron DeSantis, Governor

Melanie S. Griffin, Secretary



STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

CONSTRUCTION INDUSTRY LICENSING BOARD

THE ROOFING CONTRACTOR HEREIN IS CERTIFIED UNDER THE
PROVISIONS OF CHAPTER 489, FLORIDA STATUTES

ROBERTS, DOVONNA JENELL

1ST CLASS ROOFING, INC.
1815 THORNHILL RD SUITE 301S
AUBURNDALE FL 33823

LICENSE NUMBER: CCC1327267

EXPIRATION DATE: AUGUST 31, 2024

Always verify licenses online at MyFloridaLicense.com



Do not alter this document in any form.

This is your license. It is unlawful for anyone other than the licensee to use this document.

POLK COUNTY LOCAL BUSINESS TAX RECEIPT**ACCOUNT NO. 174442****CLASS: B+****EXPIRES:****09/30/2023****OWNER NAME****LOCATION****DOVONNA JENELL ROBERTS****5610 LAKE FOX CIR
WINTER HAVEN****BUSINESS NAME AND MAILING ADDRESS****CODE ACTIVITY TYPE****FIRST CLASS ROOFING INC**

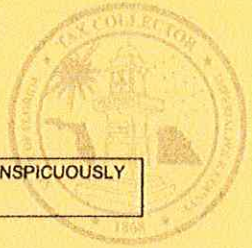
1ST CLASS ROOFING INC

PO BOX 3811

WINTER HAVEN, FL 33885

230250 CONTRACTOR ROOFING**PROFESSIONAL LICENSE (IF APPLICABLE)**

-

OFFICE OF JOE G. TEDDER, CFC * TAX COLLECTORTHIS POLK COUNTY LOCAL BUSINESS TAX RECEIPT MUST BE CONSPICUOUSLY
DISPLAYED AT THE BUSINESS LOCATION**PAID - 827115 07/11/2022 OPY****OLP 57.75****FIRST CLASS ROOFING INC**



1STCLAS-01

CERTS

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

2/15/2023

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

| | | |
|---|---|--------------|
| PRODUCER Construction Casualty Insurance, LLC 3637 4th Street North Suite 310 Saint Petersburg, FL 33704 | CONTACT Certificates NAME: PHONE (A/C, No, Ext): (727) 502-2190 FAX (A/C, No): E-MAIL: certs@cci-ins.com ADDRESS: | |
| | INSURER(S) AFFORDING COVERAGE | |
| INSURED 1st Class Roofing Inc 1815 Thornhill Rd Suite 301S Auburndale, FL 33823 | INSURER A : Obsidian Specialty Insurance Company | NAIC # 16871 |
| | INSURER B : ASCENDANT COMMERCIAL INSURANCE, INC. | 13683 |
| | INSURER C : Mesa Underwriting & Specialty Co | 36838 |
| | INSURER D : Bridgefield Casualty Insurance Co | 10335 |
| | INSURER E : Evanston Insurance Company | 35378 |
| | INSURER F : | |

COVERAGES

CERTIFICATE NUMBER:

REVISION NUMBER:

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

| INSR LTR | TYPE OF INSURANCE | ADDL INSD | SUBR WVD | POLICY NUMBER | POLICY EFF (MM/DD/YYYY) | POLICY EXP (MM/DD/YYYY) | LIMITS |
|----------|---|-----------|----------|------------------|-------------------------|-------------------------|--|
| A | <input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER: | X | X | PTCGL00000160800 | 7/8/2022 | 7/8/2023 | 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 |
| B | AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input checked="" type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS ONLY <input checked="" type="checkbox"/> NON-OWNED AUTOS ONLY | | | CA-57749-0 | 7/8/2022 | 7/8/2023 | COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$ |
| C | <input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED RETENTION \$ | | | 11140148-A | 2/16/2023 | 7/8/2023 | EACH OCCURRENCE \$ 2,000,000 AGGREGATE \$ Aggregate \$ 2,000,000 |
| D | WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory In NH) <input type="checkbox"/> Y <input checked="" type="checkbox"/> N If yes, describe under DESCRIPTION OF OPERATIONS below | | N/A | 0196-55392 | 6/10/2022 | 6/10/2023 | <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 |
| E | Property | | | 1AA324145 | 7/27/2022 | 7/8/2023 | Business Personal Pr 20,000 |

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
Glenn Roberts and Dovonna Roberts are excluded from the Workers' Compensation policy. When required by written contract, the certificate holder is listed as additional insured, on a primary non-contributory basis, with regard to the General Liability policy. A waiver of subrogation applies in favor of the certificate holder on the General Liability policy.

CERTIFICATE HOLDER

CANCELLATION

For Informational Purposes Only

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

WORK REFERENCES

| | | |
|---|----------------------|------------------------|
| 1 | Company/Agency Name: | HJB Construction, Inc. |
| | Address: | 656 Ellis Oak Avenue |
| | City/State/Zip | Charleston, SC 29412 |
| | Contact Name: | Ted |
| | Contact Phone: | 843-853-6801 |
| | Services Provided: | Roof |
| | Begin Date: | 2019-2023 |

| | | |
|---|----------------------|--------------------------------------|
| 2 | Company/Agency Name: | W.H. Bass, Inc. |
| | Address: | 11300 Johns Creek Parkway, Suite 100 |
| | City/State/Zip | Duluth, GA, 30097 |
| | Contact Name: | David King |
| | Contact Phone: | 770-540-1270 |
| | Services Provided: | Roof |
| | Begin Date: | 2019-23 |

| | | |
|---|----------------------|-----------------------------|
| 3 | Company/Agency Name: | Pasco County B.O.C.C |
| | Address: | 7536 State Street Suite 221 |
| | City/State/Zip | New Port Richey, FL, 34654 |
| | Contact Name: | Tim Wilson |
| | Contact Phone: | 727-207-6723 |
| | Services Provided: | roof |
| | Begin Date: | 2020-2023 |

| | | |
|---|----------------------|---|
| 4 | Company/Agency Name: | B.O.C.C. Polk County Procurement Division |
| | Address: | 300 West Church Street, Room 150 |
| | City/State/Zip | Bartow, FL, 33830 |
| | Contact Name: | Carlos Baez |
| | Contact Phone: | 863-534-6757 |
| | Services Provided: | Roof |
| | Begin Date | 2020-2023 |

| | | |
|---|----------------------|-------------------------|
| 5 | Company/Agency Name: | A.O. Construction, Inc. |
| | Address: | 3535 Lake Alfred Road |
| | City/State/Zip | Winter Haven, FL 33881 |
| | Contact Name: | Mark Atterson |
| | Contact Phone: | (863) 299-4444 |
| | Services Provided: | Roof |
| | Begin Date: | 2018-2023 |

2023 FLORIDA PROFIT CORPORATION AMENDED ANNUAL REPORT

DOCUMENT# P13000082093

Entity Name: 1ST CLASS ROOFING, INC.**Current Principal Place of Business:**1815 THORNHILL RD.,
SUITE 301S
AUBURNDALE, FL 33823**Current Mailing Address:**P.O. BOX 3811
WINTER HAVEN, FL 33885 US**FEI Number:** 46-3815585**Certificate of Status Desired:** No**Name and Address of Current Registered Agent:**ROBERTS, DOVONNA J
5610 LAKE FOX CIRCLE
WINTER HAVEN, FL 33884 US*The above named entity submits this statement for the purpose of changing its registered office or registered agent, or both, in the State of Florida.***SIGNATURE:**

Electronic Signature of Registered Agent

Date

Officer/Director Detail :

| | |
|-----------------|-----------------------|
| Title | P |
| Name | ROBERTS, DOVONNA J |
| Address | 5610 LAKE FOX CIRCLE |
| City-State-Zip: | WINTER HAVEN FL 33884 |

| | |
|-----------------|-----------------------|
| Title | VP |
| Name | ROBERTS, GLENN J JR. |
| Address | 5610 LAKE FOX CIRCLE |
| City-State-Zip: | WINTER HAVEN FL 33884 |

| | |
|-----------------|-----------------------------------|
| Title | OFFICE MANAGER |
| Name | HARPER, LULA MAE |
| Address | 1815 THORNHILL RD., SUITE 301S |
| City-State-Zip: | AUBURNDALE FL 33823 |

I hereby certify that the information indicated on this report or supplemental report is true and accurate and that my electronic signature shall have the same legal effect as if made under oath; that I am an officer or director of the corporation or the receiver or trustee empowered to execute this report as required by Chapter 607, Florida Statutes; and that my name appears above, or on an attachment with all other like empowered.

SIGNATURE: DOVONNA ROBERTS

PRESIDENT

02/07/2023

Electronic Signature of Signing Officer/Director Detail

Date

SECTION 00710

VENDOR CERTIFICATION REGARDING SCRUTINIZED COMPANIES

Vendor Name: 1st Class Roofing Inc
 Vendor FEIN: 46-3815585
 Authorized Representative's Name: Doronna J Roberts
 Authorized Representative's Title: President
 Address: 1815 Thornhill Rd. Ste 301
 Town, State, Zip: Auburndale, FL 33823
 Phone number: 863-324-4043
 Email address: 1stclassroofingCD@gmail.com

Sections 287.135 and 215.473, Florida Statutes, prohibit Florida municipalities from contracting with companies, for goods or services over \$1,000,000 that are on either the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, or to engage in any Business operations with Cuba or Syria. Sections 287.135 and 215.4725 also prohibit Florida municipalities from contracting with companies, for goods or services in any amount that are on the list of Scrutinized Companies that Boycott Israel.

The list of "Scrutinized Companies" is created pursuant to Section 215.473, Florida Statutes. A copy of the current list of "Scrutinized Companies" can be found at the following link:

<https://www.sbafla.com/fsb/FundsWeManage/FRSPensionPlan/GlobalGovernanceMandates/QuarterlyReports.aspx>

As the person authorized to sign on behalf of the Respondent Vendor, I hereby certify that the company identified above in the section entitled "Respondent Vendor Name" is not listed on either the Scrutinized Companies with Activities in Sudan List; or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List; is not participating in a boycott of Israel; and does not have any business operations with Cuba or Syria. I understand that pursuant to Sections 287.135 and 215.473, Florida Statutes, the submission of a false certification may subject the Respondent Vendor to civil penalties, attorney's fees, and/or costs.

I understand and agree that the Town may immediately terminate any contract resulting from this solicitation upon written notice if the company referenced above is found to have submitted a false certification or any of the following occur with respect to the company or a related entity: (i) for any contract for goods or services in any amount of monies, it has been placed on the Scrutinized Companies that Boycott Israel List, or is engaged in a boycott of Israel, or (ii) for any contract for goods or services of one million dollars (\$1,000,000) or more, it has been placed on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, or it is found to have been engaged in business operations in Cuba or Syria.

Doronna J Roberts
Authorized Signature

Doronna J Roberts
Print Name

Signature



SECTION 00720

AFFIDAVIT OF E-VERIFY PER SECTION 448.095, FLORIDA STATUTES

Beginning January 1, 2021, every public employer, contractor, and subcontractor shall register with and use the E-Verify system to verify the work authorization status of all newly hired employees. A public employer, contractor, or subcontractor may not enter into a contract unless each party to the contract registers with and uses the E-Verify system.

- If a contractor enters into a contract with a subcontractor, the subcontractor must provide the contractor with an affidavit stating that the subcontractor does not employ, contract with, or subcontract with an unauthorized alien.
- The contractor shall maintain a copy of such affidavit for the duration of the contract.
- A public employer, contractor, or subcontractor who has a good faith belief that a person or entity with which it is contracting has knowingly violated s. 448.09(1) shall terminate the contract with the person or entity.
- A public employer that has a good faith belief that a subcontractor knowingly violated this subsection, but the contractor otherwise complied with this subsection, shall promptly notify the contractor and order the contractor to immediately terminate the contract with the subcontractor.
- A contract terminated under subparagraph 1 or subparagraph 2 is not a breach of contract and may not be considered as such.
- A public employer, contractor, or subcontractor may file an action with a circuit or county court to challenge a termination under paragraph (c) no later than 20 calendar days after the date on which the contract was terminated.
- If a public employer terminates a contract with a contractor under paragraph (c), the contractor may not be awarded a public contract for at least 1 year after the date on which the contract was terminated.
- A contractor is liable for any additional costs incurred by a public employer as a result of the termination of a contract.

DATED this 18TH day of May, 2023.

1st Class Roofing, Inc.
Full Legal Name of Firm

Doronna J Roberts
Authorized Representative Signature

Doronna J Roberts
Printed Name - Authorized Representative



STATE OF Florida

COUNTY OF polk

The foregoing instrument was acknowledged before me by means of ☒ physical presence or ☐ online notarization, this (date) 5/18/23 by (name of person acknowledging) Ambrosio Lopez, who is personally known to me or who has produced (type of identification) _____ as identification.



Aaliyah White

Aaliyah White

Notary Public – Signature

[Notary Seal]

Aaliyah White

Name typed, printed or stamped

My Commission Expires: *3/20/27*

**** THIS FORM MUST BE COMPLETED AND RETURNED WITH YOUR BID.**

The logo for Duro-Last, featuring the brand name in a bold, sans-serif font with a registered trademark symbol.

20-Year NDL Warranty

Warranty No. _____

I. TERMS and CONDITIONS

Duro-Last®, Inc., ("Duro-Last") grants this No-Dollar Limit ("NDL") Warranty to the owner of a building ("Owner") containing a **Duro-Last Roofing System ("Duro-Last System")** installed by a Duro-Last Authorized Dealer/Contractor ("Contractor"), subject to the terms and conditions and limitations contained herein.

Duro-Last's obligation during the 1st through 20th year shall be to repair any leak in the Duro-Last System caused by any defect in a component of the Duro-Last System or by the workmanship of the Contractor, but only as the workmanship relates to the installation of the Duro-Last System itself and not as it relates to other work performed, if any. Duro-Last's obligation includes, at Duro-Last's discretion, either the repair or replacement of part or all of the Duro-Last System and also includes the furnishing or cost of labor to repair the Duro-Last System provided the following conditions are met:

- A. Duro-Last and Contractor have been paid in full for the Duro-Last System, its installation and any outstanding invoices issued by Duro-Last that arise after the installation;
- B. The Duro-Last System has been approved by Duro-Last following inspection by an authorized Duro-Last Quality Assurance Technical Representative ("Duro-Last QA Tech Rep"), this No-Dollar Limit Warranty has been signed by a Duro-Last QA Tech Rep or Quality Assurance Manager, and the Contractor confirms that the Duro-Last System was installed in accordance with Duro-Last's specifications and written installation requirements;
- C. The Owner has notified Duro-Last within 14 days of the discovery of any leak, failure or other alleged Duro-Last System defect. Owner must notify Duro-Last by calling the Duro-Last Quality Assurance Department at 1-866-284-9424, by e-mailing ws@duro-last.com, or by certified mail, return receipt requested;
- D. The Owner allows Duro-Last's QA Tech Rep(s) and/or Duro-Last Contractor(s) access to the roof including, if necessary, the removal and replacement by Owner at Owner's expense any and all obstructions, including but not limited to: rooftop gardens, earth, soil, pavers, ballast, decks, patio and walking surface materials, photovoltaic system, and other overburden; and
- E. Duro-Last authorizes the repair and, at Duro-Last's option, either Duro-Last's QA Tech Rep(s) or an authorized Contractor makes the repair.

II. OWNER'S RESPONSIBILITIES

The Owner is not entitled to recover under this No-Dollar Limit Warranty unless Owner exercises reasonable and diligent care in the maintenance of the Duro-Last System, including but not limited to inspecting and maintaining the Duro-Last System regularly and as needed, including after storms or natural disasters, and for removing any debris from the Duro-Last System, rooftop, and adjacent areas, and maintaining and keeping all drains in working order and clear of debris and other obstructions.

III. LIMITATIONS and EXCLUSIONS

- A. This No-Dollar Limit Warranty does not apply to a Duro-Last System installed on a single-family residence.
- B. Duro-Last shall not be liable for damages arising from defects in the design or construction of the building or roof assembly, including inadequate or insufficient drainage; nor shall Duro-Last be liable for any other products aside from the Duro-Last System.
- C. Duro-Last is not liable for any Duro-Last System failure nor for subsequent damages arising from Acts of God or causes outside Duro-Last's control including, but not limited to:
 - 1) Damage caused by fire, lightning, hurricane, gale, hail, tornado, flood, earthquake, animals, insects; or
 - 2) Damage caused by accident, vandalism, intentional act, negligence or failure to use reasonable care, whether on the part of the Owner or another; or
 - 3) Damage caused by any unauthorized modification to the Duro-Last System including, but not limited to: damage caused by unauthorized components used in installation or repair, by additional equipment or structures added to or made a part of the roof, by traffic, or by chemicals not normally found in nature or the like; or
 - 4) Interior condensation and/or moisture entering the Duro-Last System through walls, copings, structural defects, HVAC systems, or any part of the building structure, including from adjacent buildings.
- D. Duro-Last does not warrant the watertightness of metal products that are located outside of the termination of the Duro-Last membrane.
- E. Duro-Last does not warrant against color change and/or pattern change and/or print change in the Duro-Last System.
- F. Duro-Last shall have no liability under any theory of law for any claims, repairs, or other damages relating to the presence of asbestos or any vapors, fumes, molds, fungi, bacteria, spores, mycotoxins, or the like on or in the Duro-Last System or in the building or in the air or water serving the building.
- G. This No-Dollar Limit Warranty is transferable to subsequent Owners only upon the express written consent of Duro-Last and at Duro-Last's sole discretion. Duro-Last reserves the right to require an inspection of the Duro-Last

OVER: CONTINUED ON BACK

System prior to transfer of this No-Dollar Limit Warranty. The Owner (undersigned below) must pay a \$500 warranty transfer fee and must pay for any non-warranted repairs identified by Duro-Last during any pre-transfer inspection. A transfer of this No-Dollar Limit Warranty shall not be effective unless all outstanding Duro-Last invoices have been satisfied.

- H. This No-Dollar Limit Warranty must be signed by a Duro-Last QA Tech Rep or Quality Assurance Manager. Coverage under the terms of this No-Dollar Limit Warranty begins on the Effective Date. The Effective Date is determined by Duro-Last. Failure of the Owner or Contractor to sign this No-Dollar Limit Warranty does not alter the Effective Date.
- I. This No-Dollar Limit Warranty shall be governed by the laws of the State of Michigan without regard to principles of conflicts of law. Duro-Last and Owner hereby agree that the Circuit Court for the County of Saginaw, State of Michigan, or the United States Federal District Court for the Eastern District of Michigan in Bay City, shall have the exclusive jurisdiction to determine any and all disputes, or claims relating to this No-Dollar Limit Warranty and do hereby submit themselves to the sole personal jurisdiction of those Courts.
- J. No claim, suit, or other proceeding arising out of or related to the Duro-Last products or these terms, including without limitation this No-Dollar Limit Warranty, may be brought by the Owner or anyone else after one (1) year from the date it accrues.
- K. Duro-Last does not waive any rights under this No-Dollar Limit Warranty by refraining from exercising its rights in full in one or more instances.

THIS NO-DOLLAR LIMIT WARRANTY AND THE RESPONSIBILITIES AND REMEDIES STATED HEREIN ARE EXPRESSLY AGREED TO BY OWNER AND DURO-LAST AND CONSTITUTE THE SOLE WARRANTY AND REMEDIES OF THE OWNER FOR ANY ALLEGED DEFECT OR FAILURE OF THE DURO-LAST SYSTEM, WHETHER MEMBRANE, ACCESSORIES, OR CONTRACTOR WORKMANSHIP.

THERE ARE NO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE (EITHER EXPRESS OR IMPLIED IN FACT, LAW OR CUSTOM) THAT EXTEND BEYOND THE EXPRESS TERMS STATED IN THIS NO-DOLLAR LIMIT WARRANTY TO THE FULL EXTENT DISCLAIMER IS PERMITTED BY LAW. OWNER AND DURO-LAST TOGETHER JOINTLY DISCLAIM ANY OTHER OR FURTHER WARRANTIES EXCEPT THOSE INCLUDED IN THIS DOCUMENT. IN ANY EVENT, ANY IMPLIED WARRANTY THAT MAY ARISE BY LAW IS LIMITED IN DURATION TO THE TERM HEREIN. THE REPAIR, OR REPLACEMENT PROVIDED HEREIN IS EXCLUSIVE AND IN LIEU OF ALL OTHER REMEDIES. DURO-LAST WILL HAVE NO LIABILITY TO ANYONE FOR CONSEQUENTIAL, SPECIAL, INCIDENTAL, INDIRECT, EXEMPLARY, OR PUNITIVE DAMAGES OF ANY KIND WHATSOEVER, INCLUDING WITHOUT LIMITATION PROPERTY DAMAGE, LOST PROFITS, LOST USE OR ANY OTHER PECUNIARY DAMAGE, WHETHER DUE TO ANY DEFECT IN THE PRODUCTS, BREACH OF THIS AGREEMENT, DELAY, NON-DELIVERY, NON-PERFORMANCE, RECALL, OR ANY OTHER REASON. ALL CLAIMS FOR NEGLIGENCE AND FOR FAILURE OF ESSENTIAL PURPOSE ARE EXPRESSLY WAIVED, RELEASED, AND EXCLUDED.

THERE ARE NO THIRD-PARTY BENEFICIARIES TO THESE TERMS. OWNER ACKNOWLEDGES THESE LIMITATIONS AND WAIVERS, DECLARES THAT THEY HAVE BEEN READ AND UNDERSTOOD, AND AGREES TO BE SO BOUND. ANY PAYMENT FOR THE DURO-LAST SYSTEM OR REGISTRATION OF THE WARRANTY WITH DURO-LAST SIGNIFIES THAT THE OWNER HAS VOLUNTARILY AND KNOWINGLY CONSENTED TO ALL TERMS.

The Contractor is not an agent of Duro-Last and does not have authority to bind Duro-Last. If any Contractor or sales representative made any statements about Duro-Last, its products, services, obligations, or warranties, those statements cannot be relied upon by Owner or any other party and cannot be attributed to Duro-Last. Furthermore, no person may change or modify any terms or conditions of this No-Dollar Limit Warranty, unless in writing and signed by the authorized representative of the Owner and by a Duro-Last officer or by the Duro-Last Quality Assurance Manager.

SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO SUCH A LIMITATION MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS THAT VARY FROM STATE TO STATE. If any provision or individual term herein is invalid or unenforceable under any applicable law, the provision or term will be ineffective to that extent and for the duration of the illegality, but the remaining provisions and terms will be unaffected.

DURO-LAST®, INC.
525 Morley Drive
Saginaw, MI 48601

Signature of Duro-Last QA Tech Rep or QA Manager

Name of Building

Signature of Owner

Address of Building

Owner (printed)

City, State & Zip of Building

Signature of Contractor

Building Designation

Contractor (printed)

Effective Date

Square Footage

Serial No.

Warranty No.

DURO-LAST® 60-MIL MEMBRANE

Advantages:

Duro-Last® 60-Mil (DL60) is an excellent choice for projects requiring a long lasting, energy efficient roofing membrane. The membrane is available in custom-fabricated sections or as roll goods. A complete line of custom-fabricated accessories and parapets are available for use with DL60.

Description:

DL60 is composed of PVC film laminated to both sides of a reinforcement fabric (weft-inserted scrim).

Duro-Last membranes must not be used with Duro-Last EV membranes.

PVC Film – Proprietary thermoplastic PVC formulation of resins, plasticizers, stabilizers, biocides, flame retardants, and U.V. absorbents.

- PVC film above weft-inserted scrim – 28 mil, nominal

Weft-Inserted Scrim – An 18 x 14 polyester fabric construction with weft insertion, composed of 840 x 1000 denier threads, provides superior tear and puncture resistance. The polyester thread is treated to prevent wicking.

Total Thickness – 60 mil, nominal.

Weight – 0.36 lb. per square foot.

Colors – White, tan, gray and dark gray.

R-Value – 0.1 R (0.1 ft²·°F·hr/Btu).

Available Configurations:

Custom-fabricated Sections – DL60 is available in custom-fabricated sections as listed within the Ordering and Estimating section on the Duro-Last website.

Roll Dimensions¹

| Width | Length (max.) | Roll Area | Approx. Weight | Approx. Coverage ² |
|-----------|---------------|-------------|----------------|-------------------------------|
| 64 inches | 100 ft. | 533 sq. ft. | 192 lb. | 483 sq. ft. |
| 64 inches | 50 ft. | 267 sq. ft. | 97 lb. | 241 sq. ft. |
| 32 inches | 100 ft. | 267 sq. ft. | 97 lb. | 217 sq. ft. |
| 12 inches | 100 ft. | 100 sq. ft. | 36 lb. | N/A |
| 8 inches | 100 ft. | 67 sq. ft. | 25 lb. | N/A |

¹ Custom rolls of maximum 64 in. by 240 ft. may be produced upon request.

² Assuming 6-inch overlap.

Energy Efficiency:

White DL60 is an excellent product for complying with California Title 24, LEED® and other energy efficiency programs requiring the use of a highly reflective roof membrane.



Cool Roof Rating Council (CRRC)

| | CRRC ID | Solar Reflectance | | Thermal Emittance | | Solar Reflective Index (SRI) | |
|-----------|------------|-------------------|------|-------------------|------|------------------------------|------|
| | | Initial | 3-yr | Initial | 3-yr | Initial | 3-yr |
| White | 0610-0001a | 0.86 | 0.74 | 0.89 | 0.89 | 108 | 91 |
| Tan | 0610-0005 | 0.39 | 0.33 | 0.89 | 0.89 | 43 | 35 |
| Gray | 0610-0004 | 0.47 | 0.40 | 0.89 | 0.89 | 54 | 45 |
| Dark Gray | 0610-0006 | 0.26 | 0.25 | 0.87 | 0.89 | 25 | 25 |

LEED-NC & LEED-EB Credits – White DL60 alone can obtain 1 credit in either U.S. Green Building Council's LEED-NC or LEED-EB programs. In combination with other design criteria the membrane may help attain other credits.

| LEED-NC Credit Category | Duro-Last Attribute |
|--|------------------------------------|
| Sustainable Sites Heat Island Reduction | Solar Reflective Index (SRI) = 108 |
| LEED-EB Credit Category | Duro-Last Attribute |
| Sustainable Sites Heat Island Reduction | Solar Reflective Index (SRI) = 108 |

Warranty:

The following warranties are available for projects utilizing DL60. Contact Duro-Last for warranty details.

| Available Warranties | | | | | |
|----------------------|--|--|--|---|--|
| Supreme | 15-Year NDL Warranty | | 20-Year NDL Warranty – 15 Years Consequential Damages And 5 Years Material | | 20-Year NDL Warranty – 15 Years Consequential Damages And 5 Years Material and Labor |
| | | | 20-Year NDL Warranty – 15 Years Consequential Damages And 5 Years Material | | |
| Ultra | 15-Year NDL Hail Warranty ¹ | 15-Year NDL Hail & High Wind Warranty ¹ | 15-Year NDL High Wind Warranty ¹ | 20-Year NDL High Wind Warranty ¹ | 25-Year NDL High Wind Warranty ^{1, 2} |
| Basic | 15-Year NDL Warranty ¹ | | 20-Year NDL Warranty ¹ | | 25-Year NDL Warranty ^{1, 2} |
| Residential | 15-Year Residential Material Limited Warranty ¹ | | 20-Year Residential Material Limited Warranty ¹ | | |

¹ Excludes consequential damage coverage.

² Refer to the 25 and 30-Year Warranty Requirements for additional installation criteria.

DURO-LAST® 60-MIL MEMBRANE

Codes and Standards:

Underwriters Laboratories (US & Canada), UL Evaluation Report (ER10128), FM Approvals, Canadian Construction Materials Centre (CCMC 13299-L), State of Florida, Miami-Dade County, Texas Department of Insurance.

Storage:

Store rolls lengthwise on pallets. Use tarps to keep rolls dry.

Membrane Attachment:

Mechanically Fastened – DL60 may be mechanically fastened to a variety of roof deck and wall materials. An appropriate slip sheet, insulation or cover board may be required. Refer to the Duro-Last Mechanically Fastened Roofing System Specification for custom-fabricated system requirements. If using roll goods, refer to the Duro-Last Roll Good Mechanically Fastened Roofing System Specification.

Induction welded – Induction welding may be used to attach DL60. An appropriate slip sheet, insulation or cover board may be required. Refer to the Duro-Bond® Induction Weld Roofing System Specification for system requirements.

Adhered – DL60 may be adhered to a variety of properly prepared roof decks, walls, cover boards and insulations. Refer to the Adhered Roofing System Specification for system requirements.

Physical Properties:

DL60 has been subjected to the tests required by ASTM D4434 "Standard Specification for Poly (Vinyl Chloride) Sheet Roofing" and has been classified as a Type III, internally reinforced sheet. The results of each test are listed below. ASTM's Overall Thickness requirements for the membrane are plus or minus 10% (nominal) of the listed Typical Value.

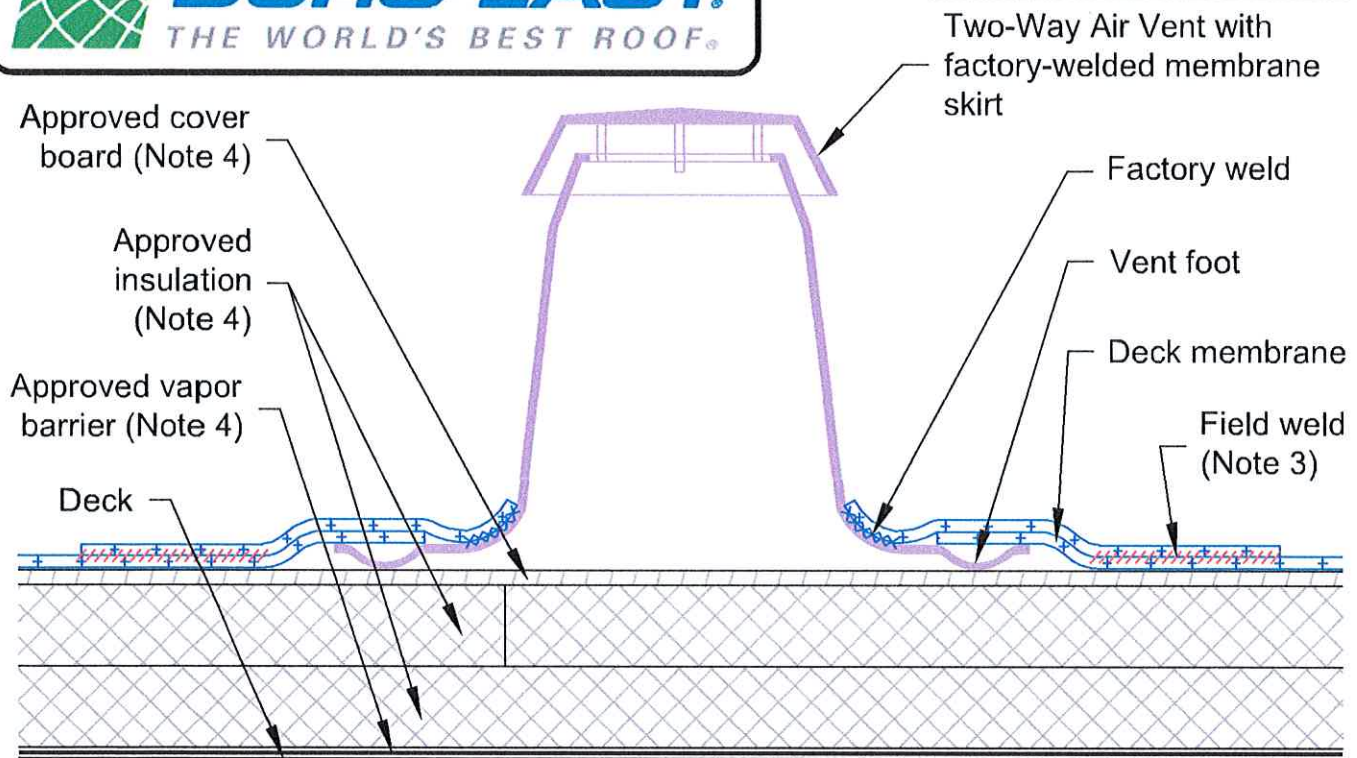
| Physical Property | Test Method | ASTM D4434 Requirement | Result | Typical Value |
|------------------------------------|-----------------------|--|--------|-----------------------------|
| Overall Thickness | ASTM D751 | ≥ 0.054 and ≤ 0.066 in. (≥ 54 and ≤ 66 mil) | PASS | 0.060 in. (60 mil), nominal |
| Thickness Over Scrim | ASTM D7635 | ≥ 0.016 in. | PASS | 0.028 in. (28 mil) |
| Breaking Strength ¹ | ASTM D751 Grab Method | ≥ 200 lbf./in. | PASS | 438 x 390 lbf./in. |
| Elongation ¹ | ASTM D751 Grab Method | ≥ 15% | PASS | 31% x 31% |
| Seam Strength | ASTM D751 Grab Method | ≥ 328 lbf. (75% of Breaking Strength.) | PASS | 431 lbf. |
| Tear Strength ¹ | ASTM D751 Procedure B | ≥ 45 lbf. | PASS | 132 x 163 lbf. |
| Low Temp. Bend | ASTM D2136 | Must pass at -40° F. | PASS | PASS |
| Heat Aging | ASTM D3045 | Conditioned for 56 days in oven maintained at 176° F. | PASS | PASS |
| Accelerated Aging | ASTM G155 | 10,000 hours total test time. Irradiance level of 0.35 W/m ² -340nm. Cycle: 102 minutes light, 18 minutes light + H ₂ O spray, 63±2.5° C black panel, 30±5% RH | PASS | PASS |
| Dimensional Stability ¹ | ASTM D1204 | Conditioned for 6 hours in oven maintained at 176° F. Allowable change: ≤ 0.5% | PASS | -0.45% x -0.20% |
| Water Absorption | ASTM D570 | Immersed in water at 158° F for 168 hours. Allowable weight change: ≤ 3% | PASS | 2.6% |
| Static Puncture | ASTM D5602 | ≥ 33 lbf. | PASS | 56 lbf. |
| Dynamic Puncture | ASTM D5635 | ≥ 14.7 ft-lbf. (20 J) | PASS | ≥ 14.7 ft-lbf. (20 J) |

¹ Typical values are shown for both machine and cross machine directions. The machine direction results are listed first.

Additional Tests

| | | |
|-----------------------------|-----------------------------|--------------------------------------|
| Fungi Resistance | ASTM G21 | No Sustained Growth or Discoloration |
| Moisture Vapor Transmission | ASTM E96, Proc. B, Method A | < 0.35 U.S. perms |





INSTRUCTIONS

1. Install Two-Way Air Vents (vents) between fastener rows and at high points of roof area. Vents must not be installed within 7 feet of the building edge. Never install vents in low, or drainage areas.
 - a. A minimum of one vent must be installed for every 1,000 square feet of roof area, or portion thereof, but with a minimum of two vents per roof area.
 - b. Vent Placement
 - i. Corners - Vents must first be installed within 8 to 10 feet of the outer corners. Install vents at opposite corners whenever possible.
 - ii. Remaining Roof Area - Starting at 8 to 10 feet from the building edge, evenly distribute the remaining vents throughout the remaining roof area. (Smaller roof areas may not have additional vents.)
2. Cut a 7-inch diameter hole and a 2-inch slit in deck membrane. Rotate vent to allow feet to slide underneath deck membrane at slit (see drawing above). Do not fasten vent to roof deck.

Note 1: **Vents must NOT be used on refrigerated buildings, freezer buildings or adhered roofing systems.**

Note 2: Vents are not required on open-air structures (e.g. carports) or roofing systems with overburden (e.g. ballast, paver, vegetation, etc.).

Note 3: All field welds shall be a minimum of 1-1/2 inches wide.

Note 4: Refer to specifications for vapor barrier, insulation and cover board requirements.

REVISED: 01/16/2019

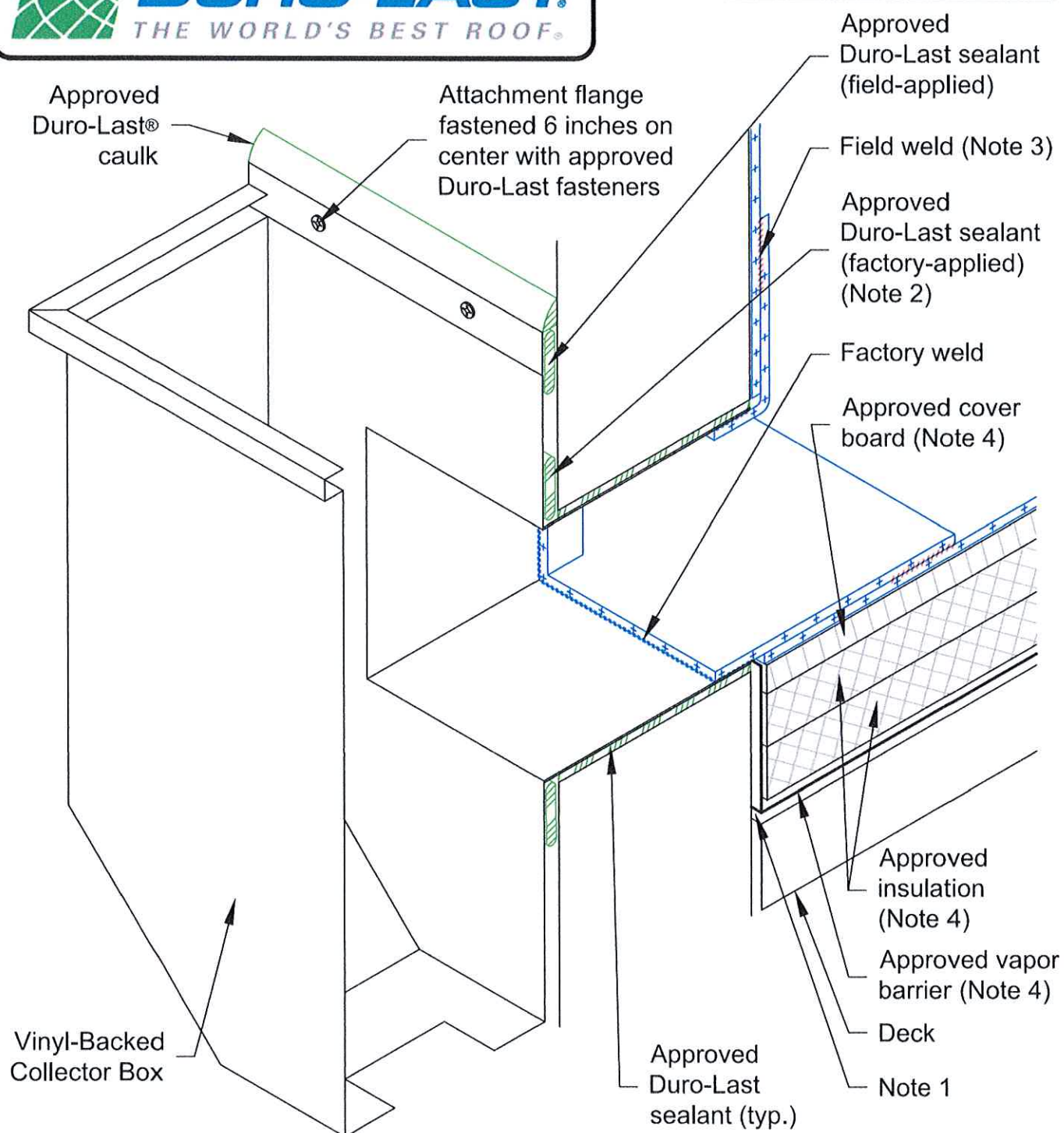
VENT DETAIL FOR MECHANICALLY FASTENED SYSTEMS

PREVIOUS: 02/02/2017

TWO-WAY AIR VENT

SCALE: NONE

NEW CONSTRUCTION OR RE-ROOF



Note 1: Precaution must be taken to ensure that all wall-to-deck transitions are sealed.

Note 2: Collector box is back-sealed with factory-applied sealant around scupper opening. Remove paper backing when ready to install scupper.

Note 3: All field welds shall be a minimum of 1-1/2 inches wide.

Note 4: Refer to specifications for vapor barrier, insulation and cover board requirements.

REVISED: 05/11/2017

DRAINAGE DETAIL FOR MECHANICALLY FASTENED SYSTEMS

PREVIOUS: 01/01/2009

VINYL-BACKED COLLECTOR BOX WITH SCUPPER

SCALE: NONE

NEW CONSTRUCTION OR RE-ROOF

Gutter

Description:

Four box-style profiles in three sizes each. Support straps are provided based on 30" centers.

- Front edge of gutter is 2" lower than the back edge.
- Internal splice plates eliminate the need to completely rivet sections together.
- Riveted inside and outside miters can be fabricated to any angle.
- Roof flanges can be bent to accommodate various roof pitches or eliminated altogether.
- Custom sizes and profiles are available.



Energy Efficiency:

LEED® and ENERGY STAR® compliant.

Installation:

1. Install in accordance with EXCEPTIONAL® Metals Details #2091 and #3025.
2. Any deviation from the requirements set forth in detail drawings must be pre-approved, in writing, by the EXCEPTIONAL Metals Technical Department.

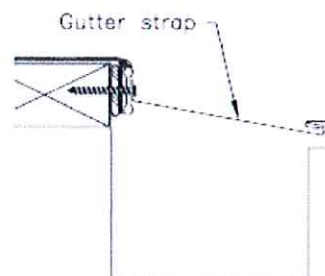
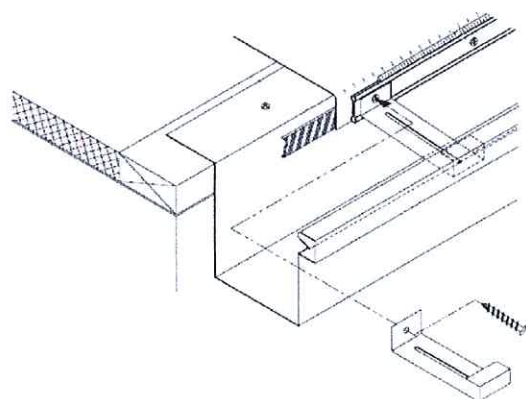
Warranty:

EXCEPTIONAL Metals offers a finish and substrate warranty. Contact the membrane manufacturer for any additional warranty that may be offered.

Technical Services:

Product samples, detail sheets, color chips, and color chart are available for your submittal package. For assistance with questions or submittals, contact your local representative or call EXCEPTIONAL Metals.

| Material | Gauge | Finish |
|------------------|-------------|----------------|
| Aluminum | .040 / .050 | Mill or Kynar® |
| Stainless Steel | 24-gauge | N/A |
| Bonderized Steel | 24-gauge | N/A |
| Galvalume® | 24-gauge | Mill or Kynar® |
| Copper | 16 oz. | Mill |



Note: The quantity and size of gutters are the responsibility of the contractor or design professional.

2-Piece Snap-On Compression

Description:

The 2-Piece Snap-On Compression system may be used as a perimeter flashing for single-ply roofing systems. The system consists of a 24-gauge Galvalume® base and a snap-on metal cover.

- Base and cover is fabricated in 10' lengths; 3" – 8" widths.
- Cover is double-hemmed to prevent roof material from excessive wear.
- Ready-to-assemble inside and outside corners are available in flat face.
- Both sizes available in flat face profiles.

Energy Efficiency:

LEED® and ENERGY STAR® compliant.

Installation:

1. A wood nailer is required if 1" or greater of insulation is used.
2. This nailer should be attached to the wall in accordance with ANSI/SPRI ES-1 3.9.
3. Install in accordance with EXCEPTIONAL® Metals Detail #3110.
4. Any deviation from the requirements set forth in detail drawings must be pre-approved, in writing, by the EXCEPTIONAL Metals Technical Department.

Codes and Standards:

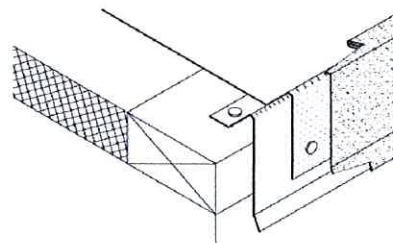
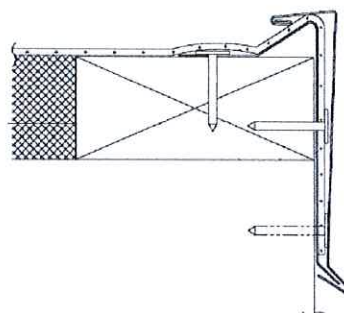
- ANSI/SPRI ES-1 Compliant with 3" – 8" base and cover.
- Meets TAS 111-95 Test with 4" and 6".
- FM Approval on 4" and 6".

Warranty:

EXCEPTIONAL Metals offers a finish and substrate warranty. Contact the membrane manufacturer for any additional warranty that may be offered.

Technical Services:

Product samples, detail sheets, color chips, and color chart are available for your submittal package. For assistance with questions or submittals, contact your local representative or call EXCEPTIONAL Metals.



| Material | Gauge | Finish |
|------------------|----------|----------------|
| Aluminum | .040 | Mill or Kynar® |
| Stainless Steel | 24-gauge | N/A |
| Bonderized Steel | 24-gauge | N/A |
| Galvalume® | 24-gauge | Mill or Kynar® |
| Copper | 16 oz. | Mill |

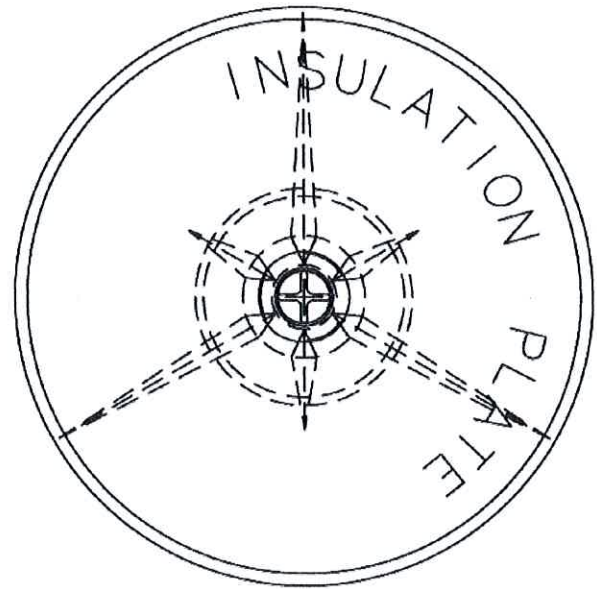
DURO-LAST® INSULATION PLATE

DESCRIPTION:

The Duro-Last® Insulation Plate is a 0.375 inch (9.5mm) thick, 3 inch (76.5mm) diameter distribution plate designed to hold insulation and underlayment boards under the Duro-Last roofing system. Duro-Last Insulation Plates are packaged and sold in quantities of 1,000.

The Duro-Last Insulation Plate includes a recessed 0.280 inch (7 mm) diameter hole in the center, keeping the head of the fastener from coming into contact with the Duro-Last roofing membrane. To maintain necessary strength and position, the Duro-Last Insulation Plate is manufactured with a thick center that embeds into the insulation and a thin flexible exterior to help reduce facer tear. In addition, there are tabs pressing against the fastener head to prevent the fastener from backing out.

The Duro-Last Insulation Plate is a long-lasting, durable plate that is available only from Duro-Last, Inc.



MATERIAL SAFETY DATA SHEET:

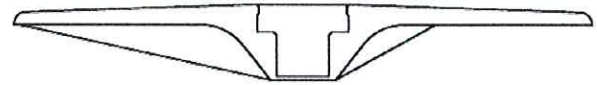
Product Identity: Duro-Last Insulation Plates

INSTALLATION:

1. Refer to details 1020 and 1030 installation information.

NOTE:

- Duro-Last Insulation Plates shall only be used to attach insulation or cover boards in mechanically fastened systems. They shall not be used in adhered systems.



DURO-LAST® CLEAT PLATE™

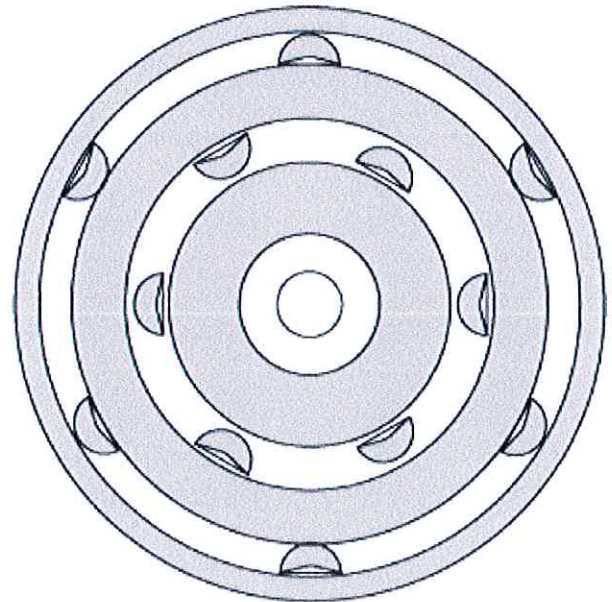
DESCRIPTION:

The Duro-Last® Cleat Plate™ is a 0.035-inch (0.9-mm) thick, 2-3/8-inch (60.3-mm) diameter galvalume plate. The Galvalume finish has proven weatherability and resiliency. Cleat Plates are packaged and sold in quantities of 1,000.

Cleat Plates are stamped to include a recessed 0.265-inch (6.7-mm) diameter hole in the center and a series of ribs for added strength. The configuration of the ribs and the hole is used to prevent the screw head from coming in contact with the Duro-Last roofing membrane.

In addition to the stamped ribs, there are "cleats" stamped into the plate to hold the Duro-Last roofing membrane in place without tearing or puncturing the membrane in high-stress load applications. Also, because the cleats are not sharp, they are easier to handle.

The Cleat Plate is a long-lasting and durable plate that is available from Duro-Last, Inc.



INSTALLATION:

The Cleat Plate is installed with the "cleats" toward the membrane.

When used with prefabricated mechanically fastened systems, the Cleat Plate can be used for securing Duro-Last membranes to the deck along the prefabricated fastening tabs and the edges of the sheet parallel to the tab direction. The Cleat Plate must be installed with the edge flush to the edge of the fastening tab.

When used with the Duro-Roof® Roofing System, the Cleat Plate must be installed along the center of the 6-inch (152-mm) fastening tab.

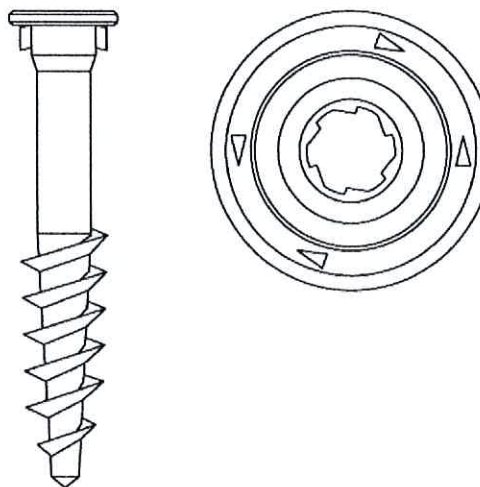
When used with adhered systems, the Cleat Plate must not be used for attachment of insulation or cover boards.

DURO-LAST® AUGER FASTENER

DESCRIPTION:

The Duro-Last® Auger Fastener is made from glass-filled nylon with an internal square drive. A specially designed plate and fastener combination is manufactured with one way tabs on the underside of the fastener head that lock into the ratchet teeth of the 2-inch (52 mm) metal plate. The 2-inch (52 mm) metal plate is manufactured with barbs that maximize membrane holding power.

The auger fasteners are designed to attach insulation and roofing membrane to cementitious wood fiber, gypsum, and lightweight concrete decks. The auger fasteners surpass the FM 4470 specifications.



INSTALLATION:

1. A 7/16 inch (12 mm) – 9/16 (14 mm) pilot hole is required on gypsum and lightweight concrete decks depending on density of the deck. No pilot hole is required on cementitious wood fiber decks unless overlaying an existing roof system; in which case a hole must be drilled through the roof system to the top of the roof deck.
2. Penetration into the deck is 1.5 inches (38 mm), minimum.
3. Install the fastener with a 1/4-inch (6.3 mm) square-drive bit. One bit is supplied in each box of Auger fasteners.

NOTE:

- On Factory Mutual-insured projects, penetration is 2 inches (51 mm), minimum.
- Duro-Last, Inc. stocks auger fasteners in the sizes noted in the table to the right. Additional sizes, up to 14 inch (356 mm), are available on a drop ship basis. Please allow adequate time for ordering and delivery of special orders.

| AUGER FASTENER DIMENSIONS | |
|---------------------------|------------------|
| Length | Quantity per Box |
| 2 in. (51 mm) | 500 |
| 2.5 in. (64 mm) | 500 |
| 3 in. (76 mm) | 500 |
| 3.5 in. (89 mm) | 500 |
| 4 in. (102 mm) | 500 |
| 4.5 in. (114 mm) | 500 |
| 5 in. (127 mm) | 500 |
| 5.5 in. (140 mm) | 500 |
| 6 in. (152 mm) | 500 |
| 6.5 in. (165 mm) | 500 |
| 7 in. (178 mm) | 250 |
| 7.5 in. (190 mm) | 250 |
| 8 in. (203 mm) | 250 |
| 8.5 in. (216 mm) | 250 |
| 9 in. (229 mm) | 250 |
| 10 in. (254 mm) | 250 |

EHD SCREWS

DESCRIPTION:

Duro-Last®, Inc. Duro-Coated Screws are used for the mechanical fastening of the Duro-Last roofing system and insulation board. Duro-Last EHD (Extra Heavy-Duty) Screws are #15 diameter fasteners equipped with a P-3 truss head, and a drill point.

When greater fastener pullout resistance is needed, the Duro-Last EHD Screw should be used.

Duro-Last EHD Screws can be used in most types of roofing applications. These Duro-Coated Screws twice pass the FM 4470 standard for corrosion resistance, totaling 30 cycles in a Kesternich cabinet. Duro-Coated Screws pass 20° and 40° bend tests (hardness) and are able to penetrate a 20-gauge deck in under three seconds with a 50-pound load.

ORDERING:

Duro-Last, Inc. stocks EHD Screws in the sizes and quantities noted in Table 1. Additional sizes are available on a drop ship basis. Allow adequate time for ordering and delivery of special orders.

PRECAUTIONS:

1. Read Safety Data Sheets (SDS) prior to using.
2. Wear proper personal protective equipment, such as gloves and eye protection, per the SDS.

INSTALLATION:

1. Penetration into all deck types is a minimum of 1 in. (25 mm) from the top surface of the deck. Take care to orient the fastener perpendicular to the deck and not to overdrive the fastener.



TABLE 1. EHD SCREW DIMENSIONS AND PACKAGING

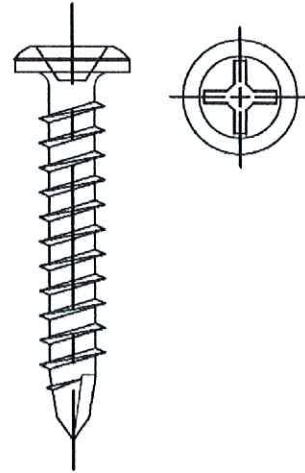
| Overall Length | Thread Length | Quantity per Pail |
|-----------------|-------------------|-------------------|
| 2 in. (51 mm) | 2 in. (51 mm) | 1,000 |
| 3 in. (76 mm) | 2.875 in. (73 mm) | 1,000 |
| 4 in. (102 mm) | 2.875 in. (73 mm) | 1,000 |
| 5 in. (127 mm) | 3.875 in. (98 mm) | 1,000 |
| 6 in. (152 mm) | 3.875 in. (98 mm) | 500 |
| 7 in. (178 mm) | 3.875 in. (98 mm) | 500 |
| 8 in. (203 mm) | 3.875 in. (98 mm) | 500 |
| 9 in. (229 mm) | 3.875 in. (98 mm) | 250 |
| 10 in. (254 mm) | 3.875 in. (98 mm) | 250 |
| 11 in. (279 mm) | 3.875 in. (98 mm) | 250 |
| 12 in. (305 mm) | 3.875 in. (98 mm) | 250 |
| 14 in. (356 mm) | 3.875 in. (98 mm) | 250 |
| 16 in. (406 mm) | 3.875 in. (98 mm) | 250 |
| 18 in. (457 mm) | 3.875 in. (98 mm) | 250 |
| 20 in. (508 mm) | 3.875 in. (98 mm) | 250 |

DURO-LAST® HD SCREWS

DESCRIPTION:

Duro-Last®, Inc. requires the use of Duro-Coated Screws for mechanical fastening of the Duro-Last roofing system. Duro-Last HD Screws are #14 diameter, are equipped with a P-3 truss head and are available with either a drill point or a spade point.

Duro-Last HD Screws can be used in most types of roofing applications. These Duro-Coated Screws must pass twice the FM 4470 standard for corrosion resistance, totaling 30 cycles in a Kesternich cabinet. Duro-Last, Inc. also requires that all Duro-Coated Screws pass 20° and 40° bend tests (hardness) and be able to penetrate a 20 gauge deck in under three seconds with a 50 lb. (222 N) load.



INSTALLATION:

1. Penetration into all approved deck types is 1 inch (25 mm) minimum, from the top surface of the deck.

NOTE:

- Duro-Last, Inc. stocks HD screws in the sizes noted in the table to the right. Additional sizes are available on a drop ship basis. Please allow adequate time for ordering and delivery of special orders.

| HD SCREW DIMENSIONS | | |
|---------------------|-----------------|---------------------|
| Length | Thread Length | Quantity per Bucket |
| 1.5 in. (38 mm) | 1.5 in. (38 mm) | 2,000 |
| 2 in. (51 mm) | 2 in. (51 mm) | 2,000 |
| 2.5 in. (64 mm) | 2.5 in. (64 mm) | 1,000 |
| 3 in. (76 mm) | 3 in. (76 mm) | 1,000 |
| 3.5 in. (89 mm) | 3 in. (76 mm) | 1,000 |
| 4 in. (102 mm) | 3 in. (76 mm) | 1,000 |
| 4.5 in. (115 mm) | 3 in. (76 mm) | 1,000 |
| 5 in. (127 mm) | 4 in. (102 mm) | 1,000 |
| 5.5 in. (140 mm) | 4 in. (102 mm) | 1,000 |
| 6 in. (152 mm) | 4 in. (102 mm) | 1,000 |
| 7 in. (178 mm) | 4 in. (102 mm) | 500 |
| 8 in. (203 mm) | 4 in. (102 mm) | 500 |
| 9 in. (229 mm) | 4 in. (102 mm) | 500 |
| 10 in. (254 mm) | 4 in. (102 mm) | 500 |
| 11 in. (279 mm) | 4 in. (102 mm) | 500 |
| 12 in. (305 mm) | 4 in. (102 mm) | 500 |

DURO-GUARD® ISO II

FLAT AND TAPERED PANELS

Description:

Duro-Guard® ISO II is a closed-cell polyisocyanurate foam core insulation board with an integrally laminated, fiber-reinforced facer which is compatible with Duro-Last® roof membranes.

- Available in both flat and tapered panels in order to meet thermal insulation needs as well as provide slope for proper roof drainage.
- Manufactured with a blowing agent that has zero ozone depletion potential (ODP) and virtually no global warming potential (GWP).
- Approved for direct application to steel and other deck types.
- Available in two grades of compressive strength per ASTM C 1289:
 - Type II, Class 1, Grade 2 (20 psi).
 - Type II, Class 1, Grade 3 (25 psi).
- Refer to Table 3 for physical properties.

Recommended Uses:

- Mechanically attached Duro-Last roof systems.
- Adhered/Fully Bonded Duro-Last roof systems.
- Duro-Bond® roof systems.
- Metal retrofit roof systems.

Underwriters Laboratories, Inc. Classifications:

- UL 1256.
- Insulated Metal Deck Constructions:
 - No. 120, 123, 292.
- UL 790.
- UL 263 Hourly Rated P Series Roof Assemblies.
- UL Classified for use in Canada.

Factory Mutual Approvals:

- FM 4450, FM 4470.
- Approved for Class 1 insulated steel, wood, concrete and gypsum roof deck construction.
- Refer to FM Approval's RoofNav for details on FM Approved systems (www.roofnav.com).

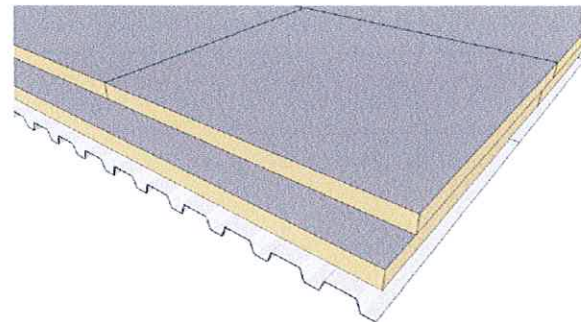


Figure 1. Duro-Guard ISO II Flat On Steel Deck

Flat Panels:

- Available sizes:
 - 4 ft. x 4 ft.
 - 4 ft. x 8 ft.
 - Thicknesses: 1 to 4 inches.
- Refer to Table 2 for R-value and flute spanability.

Tapered Panels:

- Available sizes:
 - 4 ft. x 4 ft.
 - Thicknesses: ½ to 4-½ inches.
- Precut miters and crickets are also available.
- Taper designs and shop drawings available.

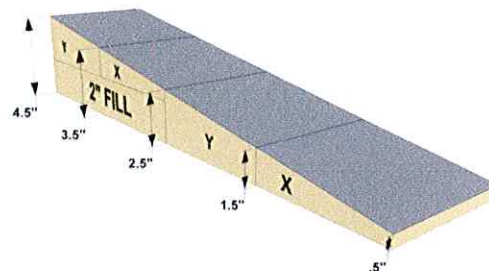


Figure 2. Duro-Guard ISO II Taper

| ID | SLOPE* | | SIZE | MIN | MAX |
|----|------------|----|---------------|------|------|
| Q | ½" per ft. | 4% | 4 ft. x 4 ft. | ½" | 2-½" |
| QQ | ½" per ft. | 4% | 4 ft. x 4 ft. | 2-½" | 4-½" |
| X | ¼" per ft. | 2% | 4 ft. x 4 ft. | ½" | 1-½" |
| Y | ¼" per ft. | 2% | 4 ft. x 4 ft. | 1-½" | 2-½" |
| Z | ¼" per ft. | 2% | 4 ft. x 4 ft. | 2-½" | 3-½" |
| G | ¼" per ft. | 2% | 4 ft. x 4 ft. | 1" | 2" |
| H | ¼" per ft. | 2% | 4 ft. x 4 ft. | 2" | 3" |
| AA | ⅛" per ft. | 1% | 4 ft. x 4 ft. | ½" | 1" |
| A | ⅛" per ft. | 1% | 4 ft. x 4 ft. | 1" | 1-½" |
| B | ⅛" per ft. | 1% | 4 ft. x 4 ft. | 1-½" | 2" |
| C | ⅛" per ft. | 1% | 4 ft. x 4 ft. | 2" | 2-½" |

* Contact Duro-Last for additional slope options.

Installation:

- Panels must be kept dry before, during and after installation. Install only as much insulation as can be covered the same day with completed roofing.
- The use of multiple layers of insulation with joints staggered a minimum of 6 inches between layers is recommended to eliminate thermal bridging.
- Abut panel edges together and stagger joints of adjacent panels.
- Boards must be neatly fitted to roof deck and around penetrations with no gaps greater than ¼ inch.
- Refer to the appropriate Duro-Last roof system specification and detail drawings for deck preparation and attachment requirements.
- Precautions must be taken to ensure that new concrete decks have fully hydrated and do not continue to release moisture.

Panel Attachment:

- Panels may be attached to the roof deck using mechanical fasteners, insulation adhesive or hot bitumen. It is acceptable to use these products in combination.

Mechanical Attachment

- When installing multiple layers (which may include insulation, cover boards and thermal barriers) it is acceptable to mechanically secure through all layers.
- Use fasteners and plates supplied by or approved by Duro-Last, Inc.

Adhesive Attachment

- Insulation adhesive must be supplied by Duro-Last, Inc. Refer to the adhesive's product data sheet for application guidelines. Acceptable products:
 - Duro-Grip® Insta-Stik™.
 - Duro-Grip Olybond®.
 - Duro-Grip Millennium Weather-Tite®.
 - Duro-Grip CR-20.
- Subsequent layers of insulation and approved cover boards may be attached with insulation adhesive.
- Maximum panel dimensions are 4 ft. x 4 ft.

Hot Bitumen Attachment

- When using hot bitumen on concrete decks, priming is necessary.
- Temperature of the bitumen shall be approximately 50° F below the inter-ply hand mopping EVT.
- The deck shall be dry and care must be taken to apply the bitumen in sufficient quantity to totally cover the available deck surface.

TABLE 2. THERMAL VALUES

| THICKNESS* | | LTTR R-VALUE | FLUTE SPANABILITY | |
|------------|-----|-----------------|-------------------|-----|
| inches | mm | | inches | mm |
| 1.00 | 25 | 5.70 | 2.625 | 67 |
| 1.50 | 38 | 8.60 | 4.375 | 111 |
| 1.60 | 41 | 9.10 | 4.375 | 111 |
| 1.70 | 43 | 9.70 | 4.375 | 111 |
| 2.00 | 51 | 11.40 | 4.375 | 111 |
| 2.50 | 64 | 14.40 | 4.375 | 111 |
| 2.60 | 66 | 15.00 | 4.375 | 111 |
| 2.70 | 69 | 15.60 | 4.375 | 111 |
| 2.90 | 74 | 16.80 | 4.375 | 111 |
| 3.00 | 76 | 17.40 | 4.375 | 111 |
| 3.30 | 84 | 19.20 | 4.375 | 111 |
| 3.50 | 89 | 20.50 | 4.375 | 111 |
| 3.60 | 91 | 21.10 | 4.375 | 111 |
| 4.00 | 102 | 23.60 | 4.375 | 111 |

* Contact Duro-Last for additional thickness options.

TABLE 3. TYPICAL PHYSICAL PROPERTIES

| | | | |
|------------------------------------|----------------------------|--|---------------------|
| Compressive Strength | ASTM D 1621 ASTM C 1289 | Grade 2 | 20 psi (138 kPa) |
| | | Grade 3 | 25 psi (172 kPa) |
| Dimensional Stability | ASTM D 2126 | 2% linear change (7 days) | |
| Moisture Vapor Transmission | ASTM E 96 | < 1 perm (85.0 ng/Pa·s·m ²) | |
| Water Absorption | ASTM C 209 | < 1% volume | |
| Service Temperature | | -40° to 200° F (-40° to 93° C) | |

- To ensure embedment, the board shall also be "stepped in" at several points while the bitumen is still hot enough to allow positive attachment.
- Maximum panel dimensions are 4 ft. x 4 ft.
- Any roof membrane contaminated with bitumen must be replaced.

Storage:

- Insulation must be protected from open flame and kept dry at all times.
- Factory applied packaging is intended only for protection during transit. Slit or remove the packaging to prevent accumulation of condensation.
- Store elevated (at least 3 inches) and completely covered with a weatherproof covering such as a tarpaulin.
- Do not use panels which are wet or damaged.
- Refer to PIMA Technical Bulletin No. 109: *Storage and Handling Recommendations for Polyiso Roof Insulation* for additional guidelines (www.pima.org).

Limitations:

- Duro-Last, Inc. will not be responsible or liable for any defects or problems related to building or roof design by others, to deficiencies in construction, to dangerous conditions on the job site, or to improper storage, handling or installation by others.