



April 8, 2024

Dear Sir/Madam:

RE: Request for Quote – SMNPQ 01/24

265 Metcalfe St. S, Simcoe
SMNPQ 01/24 – Asphalt Shingle Roof Replacement

The South & Metcalfe Non-Profit Housing Corporation invites your Quote submission for the **Asphalt Shingle Roof Replacement** at the above noted property.

The **Asphalt Shingle Roof Replacement** contract is expected to be awarded within two (2) weeks of the close of quotes. Please review our Front End Documents and submit your Quote on the enclosed tender forms, completed as indicated.

We ask you to complete the Submission Forms and necessary Appendices and return no later than **11:00 a.m. local time, Friday, May 3rd, 2024**, to the Haldimand and Norfolk Housing Corporation, Unit 2-25 Kent Street North, Simcoe, Ontario N3Y 3S1 or **fax/email** to (519) 426-7630, **ksullivan-swick@hnhousing.ca**.

Please note that the South & Metcalfe Non-Profit Housing Corporation (Owner) shall not be bound to accept the lowest or any other Quote submission. The Owner does not bind itself to accept the whole or any part of any Quote submission, and in particular if only one submission is received, the Owner reserves the right to reject it. Submissions will be assumed to be entirely in conformance with the specifications, unless they are explicitly noted otherwise.

Please confirm via email your firms intentions of submitting.

Sincerely,

A handwritten signature in black ink, appearing to read "m. puype", is written over the word "Sincerely,".

Marc Puype, B.A.Sc
Technical Services Manager



South & Metcalfe Non-Profit Housing Corporation is Proudly Managed by HHNC Community Housing

2-25 Kent Street North

Tel: 519-426-7792 1-800-265-2819 Fax: 519-426-7630

Email: hnhc@hnhousing.ca

SUBMIT WITH BID

QUOTE SUBMISSION FORM

SOUTH & METCALFE NON-PROFIT HOUSING CORPORATION

Tender Number SMNPQ 01/24	Project Address: 265 Metcalfe St. S, Simcoe	Closing Date Friday, May 3rd, 2024	Time 11:00 a.m.
Submitted To (Owner) South & Metcalfe Non-Profit Housing Corporation		Job Description Asphalt Shingle Roof Replacement	
Bidder	Legal Name		
Telephone Number ()	Fax Number ()		
Address	Email		
City	Province	Postal Code	

Having examined the quote documents and specifications and addenda no. _____ to no. _____ inclusive, all issued by the Haldimand Norfolk housing corporation I hereby offer to enter into a contract to perform the work required by the quote documents for the stipulated price indicated below.

Prices are for the completed work including all work associated with each item, all applicable taxes (except HST - shown separately), overhead, profit and all other Contractor's expenses in accordance with the contract documents.

The Owner reserves the right to delete items from this schedule, of up to 25% of the Lump Sum Bid, in addition to "Optional to Owner" items, at the prices quoted. The unit prices quoted will be used for any increase or decrease in quantity, as may be directed by the Owner.

This Quote schedule is to form the basis of the quote submission and is to be used to compute the lump Sum Price to be entered on the Quote Form. Failure to submit this schedule fully completed may result in disqualification of the quote, at the owner's discretion.

Description

1. Supply and installation new asphalt shingles per specification, complete

265 Metcalfe St. S, Simcoe

\$ _____

=====

**PLEASE ALSO SUBMITT
QUANTITY TAKE OFFS.**

SUBTOTAL \$ _____

H.S.T. \$ _____

TOTAL LUMP SUM PRICE \$ _____

Print Name: _____

Signature: _____

Date: _____

SUBMIT WITH BID

Appendix B

Conflict of Interest Declaration

SUBMIT WITH VENDOR SUBMISSION

SMNPQ 01/24 – Asphalt Shingle Roof Replacement

Failure to submit this form fully completed and signed may result in the disqualification of the bid at the Owner's discretion.

I / We acknowledge our responsibility to disclose to the Haldimand-Norfolk Housing Corporation, South and Metcalfe Non-Profit Housing Corporation, Long Point Area Non-Profit Housing Corporation, and Dunnville Non-Profit Housing Corporation all actual or perceived conflicts of interest which may exist while acting as the contractor as noted in the attached Ontario Regulations (O. Reg. 339/01, s.4.) for Conflict of Interest.

I / We further acknowledge our responsibility to disclose to the Haldimand-Norfolk Housing Corporation, South and Metcalfe Non-Profit Housing Corporation, Long Point Area Non-Profit Housing Corporation, Dunnville Non-Profit Housing Corporation and Del-Gold Villa Non-Profit Housing Corporation in writing, on an ongoing basis, any actual or perceived conflicts of interest which arise during the performance of the contract. These actual or perceived conflicts of interest must immediately be disclosed in writing. If an actual or perceived conflict of interest exists, I / we have attached a comprehensive written submission of the complete nature of this actual or perceived conflict of interest. I / We are aware that this information may be submitted to the Service Manager, Norfolk County by the Haldimand-Norfolk Housing Corporation, South and Metcalfe Non-Profit Housing Corporation, Long Point Area Non-Profit Housing Corporation, Dunnville Non-Profit Housing Corporation and Del-Gold Villa Non-Profit Housing Corporation. I / We authorize its submission and use by the Haldimand-Norfolk Housing Corporation, South and Metcalfe Non-Profit Housing Corporation, Long Point Area Non-Profit Housing Corporation, Dunnville Non-Profit Housing Corporation and Del-Gold Villa Non-Profit Housing Corporation and the Service Manager, Norfolk County.

Declaration (INDICATE APPLICABLE)

- I / We have a conflict of interest
- I / We have a perceived conflict of interest
- I / We hereby certify that _____ at the time of
(LEGAL NAME OF COMPANY)
submitting this bid, does not have a conflict of interest.

Dated at _____ this _____ day of _____, 20____.
(Municipality)

(Signature of an authorized signing officer)

(Print Name)

Title

Email

Telephone Number

SUBMIT WITH BID

Social Housing Reform Act, 2000

Excerpt O. Reg. 339/01

Conflict of interest:

- 4. (1)** This section applies to a housing provider in addition to the provisions of the Act listed in subsection 3 (1) to which the housing provider is subject. O. Reg. 339/01, s. 4 (1).
- (2)** A conflict of interest exists if any of the following situations occur:
1. The personal or business interests of a director, officer, agent or employee of a housing provider are in conflict with the interests of the housing provider.
 2. A personal gain, benefit, advantage or privilege is directly or indirectly given to or received by a director, officer, agent or employee of the housing provider or a person related to one of them as a result of a decision by the housing provider. O. Reg. 339/01, s. 4 (2).
- (3)** A director, officer, agent or employee of the housing provider shall not enter into any situation, arrangement or agreement which results in a conflict of interest. O. Reg. 339/01, s. 4 (3).
- (4)** Directors, officers, agents and employees of the housing provider must notify the chair of the board of directors of the housing provider of every potential or actual conflict of interest no later than the first meeting of the board after the director, officer, agent or employee becomes aware that he or she has entered into a situation, arrangement or agreement that results in or may result in a conflict of interest. O. Reg. 339/01, s. 4 (4).
- (5)** The board of directors shall consider the notice given under subsection (4) no later than the second meeting of the board after the notice is given and consideration of the notice must be reflected in the minutes of the meeting. O. Reg. 339/01, s. 4 (5).
- (6)** The chair of the board shall notify the service manager in writing of the receipt of every notice under subsection (4) and the board of directors shall resolve every conflict of interest or potential conflict of interest to the satisfaction of the service manager. O. Reg. 339/01, s. 4 (6).
- (7)** Despite subsection (3), a director, officer, agent or employee or a person related to one of them may directly or indirectly receive a gain, benefit, advantage, privilege or remuneration from the housing provider if all of the following conditions are satisfied:
1. A notice of the conflict of interest or potential conflict of interest is given in accordance with subsection (4).
 2. The service manager agrees that there is no reasonable alternative for the housing provider other than entering into the situation, arrangement or agreement that results in or may result in the conflict of interest. O. Reg. 339/01, s. 4 (7).
- (8)** For the purposes of this section, a person related to a director, officer, agent or employee includes a parent, spouse, child, household member, sibling, uncle, aunt, nephew, niece, mother-in-law, father-in-law, sister-in-law, brother-in-law or grandparent, or a person with whom the director, officer, agent or employee has a business relationship. O. Reg. 339/01, s. 4 (8); O. Reg. 341/05, s. 1 (1).
- (9)** In this section,
- “child”, in relation to an individual, means a child of the individual born within or outside marriage (unless that child has been adopted by one or more other individuals in Ontario or according to the law of another jurisdiction), a child adopted by the individual in Ontario or according to the law of another jurisdiction, and a child whom the individual has demonstrated a settled intention to treat as a child of his or her family, but does not include a child placed in the individual’s home as a foster child for consideration by another person having lawful custody; (“enfant”)

SUBMIT WITH BID

"parent", in relation to an individual, means a natural parent of the individual (unless the individual has been adopted by one or more other persons in Ontario or according to the law of another jurisdiction), an adoptive parent of the individual who has adopted the individual in Ontario or according to the law of another jurisdiction, and a person who has demonstrated a settled intention to treat the individual as a child of his or her family, but does not include a person in whose home the individual has been placed as a foster child for consideration by another person having lawful custody; ("père ou mère")

"spouse", in relation to a person, means,

- (a) an individual who, together with the person, has advised the housing provider that the individual and the person are spouses, or
- (b) an individual who is residing in the same dwelling place as the person, if the social and familial aspects of the relationship between the individual and the person amount to cohabitation and,
 - (i) the individual is providing financial support to the person,
 - (ii) the person is providing financial support to the individual, or
 - (iii) the individual and the person have a mutual agreement or arrangement regarding their financial affairs. ("conjoint") O. Reg. 339/01, s. 4 (9); O. Reg. 341/05, s. 1 (2-4).

SUBMIT WITH BID

Appendix C

Tax Compliance Declaration

SUBMIT WITH VENDOR SUBMISSION

SMNPQ 01/24 – Asphalt Shingle Roof Replacement 265 Metcalfe St. S, Simcoe

**** Failure to submit this form fully completed and signed may result in the disqualification of the bid at the Owner's discretion. ****

Taxes

Bidders must submit with their tender, the following declaration, signed by an authorized officer, certifying that the firm's Ontario taxes are in good standing.

Tax Compliance Declaration

The Haldimand-Norfolk Housing Corporation, Dunnville Non-Profit Housing Corporation, Long Point Area Non-Profit Housing Corporation, South and Metcalfe Non-Profit Housing Corporation and Del-Gold Non-Profit Housing Corporation expects all suppliers to pay their provincial and federal taxes on a timely basis. In this regard, bidders are advised that any contract with the Haldimand-Norfolk Housing Corporation, Dunnville Non-Profit Housing Corporation, Long Point Area Non-Profit Housing Corporation, South and Metcalfe Non-Profit Housing Corporation and Del-Gold Non-Profit Housing will require a declaration from the successful bidder that his/her company's provincial taxes are in good standing.

In order for a company to be considered for a contract award, the bidder must submit the following statement of the company's tax compliance status.

I/We hereby certify that at the time of submitting this bid _____, is in full compliance with all tax statutes administered by the Ministry of Finance for Ontario, and the Canada Revenue Agency for the Government of Canada and that, in particular, all returns required to be filed under all provincial and federal tax statutes have been filed and all taxes due and payable under those statutes have been paid or satisfactory arrangements for their payment have been made and maintained.

Dated this _____ day of _____, 20_____.

(Signature of an authorized signing officer)

(Print Name)

Title

(Email)

Telephone Number

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0.0 General**0.1 Definitions**

“Document” means the Document describing the goods and/or services to be purchased and the terms upon which the goods and/or services are to be purchased and includes without limitation, those Documents referenced on the index of the Document and such addenda as may be issued by the Owner from time to time.

“Operator” means the Owner’s operations employees, and/or contract operator of the site where the work is being performed.

“Owner” means the South & Metcalfe Non-Profit Housing Corporation, and for the purposes of the performance of the Contract, shall mean the entity awarding the Contract.

“Vendor” means the entity submitting a Vendor Submission to the Document and includes the terms “Bidder” and “Contractor”.

“Vendor Submission” means the Document as completed by the Vendor for the purpose of offering to sell to the Owner the services and/or goods specified in the Document, and include but are not limited to quotations, tenders and proposals and include the terms “Bid” and “Tender Submission”.

0.2 General

The intent of this Request for Tender/Quotation is to invite and receive Vendor Submissions to furnish labour and materials, services and incidentals to perform the Work as described in the Documents.

0.3 DATE AND PLACE FOR RECEIVING VENDOR SUBMISSIONS AND ACCEPTANCE PERIOD

0.3.1 Vendor Submissions will be received electronically by the Owner on or before **11:00 a.m. local time on the 3rd day of May 2024**, at the office of **Haldimand Norfolk Housing Corporation, Unit 2 – 25 Kent St. N, Simcoe ON N3Y 3S1. TEL: 519-426-7762 ext. 117.**

Submissions to be sent electronically to: ksullivan-swick@hnhousing.ca.

Vendor Submissions shall be irrevocable and open for acceptance for a period of 60 days following the date of the Vendor Submission Closing.

It is the vendor's sole responsibility to ensure their submissions are received by the time and date specified within the Document.

0.4 MANDATORY SITE VISIT

0.4.1 "REQUIRED"

0.5 INFORMATION AND COMMUNICATIONS

0.5.1 Inquiries related to **technical aspects** of the drawings or specification shall be submitted in writing to the Owner's Representative at least four working days prior to closing:

Marc Puype, Technical Services Manager
mpuype@hnhousing.ca
Haldimand Norfolk Housing Corporation
Tel. No.: (519) 426-7792 or 1-800-265-2819 EXT 117

0.5.2 Inquiries related to the **administrative aspects** of the tender Documents shall be submitted in writing to the Owner's Representative at least four working days prior to closing:

Kerri Sullivan-Swick, Contracts Coordinator
ksullivan-swick@hnhousing.ca
Haldimand Norfolk Housing Corporation
Tel. No.: (519) 426-7792 or 1-800-265-2819 EXT 141

0.5.3 The Vendor shall promptly notify the Owner of any ambiguity, inconsistency or errors discovered upon examination of tender Documents, site, existing premises and local conditions.

0.5.4 Replies to questions and modifications to the tender Documents will be issued in writing in the form of an Addendum where appropriate.

0.5.5 Replies to questions and modifications in any other manner will not be legally binding. No oral communications will be considered binding.

1.0 Vendor Submissions

1.1 Vendors shall submit Vendor Submissions **properly sealed in the envelope provided and** on the Vendor Submission Form supplied and deliver such Vendor Submission so that it is in the hands of the Owner or as may be designated in the Invitation to Vendors, within the time and at the location specified in the submission requirements. **- NOT APPLICABLE FOR THIS TENDER -**

1.2 The Vendor must:

- (a) **put the Vendor's name and return address on the envelope provided for the Vendor Submission Form, or affix the label provided by the Owner to an envelope marked with the Vendor's name and address; - NOT APPLICABLE FOR THIS TENDER -**
- (b) complete and fully execute the Vendor Submission Form supplied in all respects with appropriate Documents and all requisite information; and

(c) provide bid security (NOT required) as specified in the Vendor Submission Form.

1.3 The Vendor Submission and any amendments **MAY** be submitted by telecommunications which include but are not limited to telephone transmission of facsimile and electronic mail.

1.4 Vendors shall not make any changes or alterations to the Document as issued by the Owner.

The Vendor Submission of any Vendor found prior to the award to have made such alterations shall be disqualified by the Owner and shall be given no further consideration.

In the event that following an award an alteration is discovered to have been made by the successful Vendor, the Document as issued by the Owner shall be deemed to contain the governing terms and conditions between the parties, and any alterations made to it by the Vendor shall be of no force or effect. The Owner shall further have the right, at its sole option, to terminate any Contract with a Vendor who subsequent to award, is found by the Owner to have altered the Owner's Document. This right is in addition to and without prejudice to all other rights, remedies, actions or alternatives that may be available to the Owner.

1.5 (a) The Vendor Submission must be made on the printed forms supplied by the Owner for the purpose and must be clearly legible with all blanks filled in, using ink or type. Scanning is not permitted.

(b) The Vendor Submission must be signed by a person or persons authorized to sign on behalf of the Vendor and the same person or persons shall initial any erasures, overwriting or strikeouts within the Vendor Submission.

(c) All pricing in the Vendor Submission must be expressed in figures and in writing, and must be in Canadian dollars.

(d) Prices in the Vendor Submission must include all costs necessary to complete the Work in accordance with the Document including customs and duties.

(e) No oral or written alterations or variations in the terms and conditions of the Document and/or Contract shall be valid or binding upon the Owner unless authorized by the Owner in writing.

(f) Vendor submissions which are qualified or subject to any conditions, limitations or restrictions shall be rejected by the Owner.

(g) The Vendor acknowledges that it is solely responsible for obtaining and reviewing all the Contract Documents and all addenda issued by the Owner pertaining to the Document.

1.6 The Vendor must observe carefully all requirements and conditions of the Documents submitted pursuant to this part 1.0.

2.0 Acceptance and Rejection of Vendor Submissions

2.1 Under no circumstances will the Owner consider a Vendor Submission which is:

(a) not received at the address given in the Request for Tender/Quotation, within the time prescribed therein;

(b) not properly signed.

- 2.2 The Owner has the unqualified right to:
- (a) accept or reject any Vendor Submission of all Vendor Submissions; and
 - (b) waive the formalities in any Vendor Submission Documents as the interest of the Owner may require; without giving any reasons for such action.
- 2.3 The Owner is not obligated to accept any Vendor Submission because it is the lowest bid submitted.
- 3.0 Examination of the Site, Specifications and Drawings**
- 3.1 Before submitting a Bid, carefully examine the site of the proposed work, evaluate the existing conditions and limitations and include the amounts in the Vendor Submission to cover the cost of all items required to be done to fulfill the Contract.
- 4.0 Taxes and Duties**
- 4.1 The bidder must make provision in the Bid to cover the full cost of Federal, Provincial, Municipal Taxes, Permits and Fees and provide its HST Registration Number.
- 4.2 In the event of any change in any applicable tax made public after the date of tender closing, the Contract Price shall be adjusted by an amount equal to the increase or decrease in the cost of the Work to the Contractor brought about by the change in such tax.
- 4.3 The Vendor shall complete the "**TAX COMPLIANCE DECLARATION**" supplied with the Bid Form as "**Appendix E**", (or as Appendix C in Maintenance Service Agreement Quotations) certifying that all Taxes of its company are in good standing.
- 5.0 Award of Contract**
- 5.1 When a Bid is called for more than one project, a contract may be awarded on the basis of any one or designated group of projects but not all, listed in the Request for Tender/Quotation.
- (a) Bidders wishing to bid on more than one parcel of the work may do so provided a separate submission is made for each parcel.
- 5.2 The Owner has up to sixty (60) days after the date of tender closing to notify the Vendor that its Bid is accepted.
- 5.3 The Contract shall be deemed to be awarded on the date that the Owner advises the Vendor in writing of such award.
- 5.4 If there is any discrepancy in the Vendor Submission Form or Documents submitted by the Vendor, between any amount shown in writing and in figures, the Owner may choose to accept the amount shown in writing or to reject the Vendor's Submission.
- 5.5 Unit Prices
- (a) Any quantities given in the Request for Tender/Quotation which are to be priced on a unit basis are approximate only and are based on information available to the Owner at the time of tendering. Final quantities for payment of tender items supplied on a unit price basis shall be based on actual field measurements as determined by the Owner;
 - (b) In the case of an error made by the Vendor in extending the unit prices, the Owner will use the unit price to determine the correct Bid price.

5.6 The Owner reserves the right to award the contract in its entirety or in part to one or more Vendors in accordance with its requirements. Prior to award, the Owner reserves the right to perform a site visit at the Vendor's facilities for the purpose of evaluating the Vendor's Submission.

5.7 If a Contract is awarded, the following Documents will all form part of the Contract:

Instructions to Vendors
General Conditions
Supplementary Terms and Conditions
General Requirements
Request for Tender/Quotation Form
Specifications with Appendices and Addenda
Schedules
Drawings
Conflict of Interest Declaration
Code of Conduct
Conditional Award Letter
Contract Award Letter

6.0 **Addenda**

6.1 Addenda, if required, issued by the Owner and related to this Contract shall hereby form part of the Contract. The Owner reserves the right to issue Addenda of required additions to, deletions from, or alterations to requirements of the Bid Documents. Such changes shall become an integral part of the Bid Documents, and shall be allowed for in arriving at the Bid Price.

Any addenda related to this contract will be forwarded to the registered vendors via mail, however we do not guaranty that addenda will be mailed to you or received by you. It is the vendor's sole responsibility to contact the Owner to inform themselves of any addenda issued.

6.2 Insert in space provided on Bid Form, the number of all Addenda received during the bidding period including any bound into the specifications.

6.3 Acknowledgement of addenda on the Bid Form shall indicate that the vendor has received the addenda in its entirety, has read and understood its content, and all addenda were considered when the bid was prepared. Submissions which do not provide evidence of receipt of addenda as requested in each Document may be rejected by the Owner as non-compliant.

6.4 If no Addenda have been received, insert the word "NONE" instead.

7.0 **Qualification Information**

7.1 The Owner reserves the right to require any Vendor to submit qualification information prior to the award of the Contract, which information shall include evidence of the capability of the Vendor to properly carry out and maintain the work and the equipment, together with details of the qualifications of the Vendor's staff that may be employed in the execution of the Contract.

7.2 The Owner reserves the right of interpretation of qualification information and any decisions made by the Owner based upon its findings which may affect the award of the Contract shall be final.

7.3 The Owner reserves the right to give preference to materials, products and equipment:

- (a) Of Canadian origin and manufacture;
- (b) Which can demonstrate environmental benefit;
- (c) Which are energy efficient.

8.0 Municipal Freedom of Information and Protection of Privacy Act

- 8.1 The Vendor Submission and any information related thereto are subject to the Municipal Freedom of Information and Protection of Privacy Act.
- 8.2 Any proprietary or confidential information of the Vendor should be identified as such and the desired treatment of the information stated.

9.0 Vendor Submission Withdrawal and Modification Procedures

- 9.1 The Owner will permit Vendors to withdraw their bids under the following conditions:
- (a) The Vendor must make a withdrawal request prior to the closing time for the acceptance of Vendor Submissions, in person, or by letter or facsimile to the Owner. Telephone requests will not be allowed;
 - (b) The withdrawal of a Vendor Submission shall not preclude the Vendor from submitting another Vendor Submission for the same tender within the stipulated closing time for that tender;
 - (c) Vendor Submissions which have met the criteria for withdrawal will not be opened and will be returned unopened to the Vendor.
- 9.2 Modifications to Bids will be accepted in the following form only:
- (a) Modification of Vendor Submission shall not reveal the original amount nor the revised amount; only the amount to be added or subtracted from the original amount shall be stated;
 - (b) By letter, signed by the same authorized representative who signed the Request for Tender/Quotation Bid Form;
 - (c) Modification must be received before bid closing time.
- 9.3 If the Vendor does not provide performance security, insurance or other Documents required by the General Conditions, the Owner may treat the Vendor Submission as disqualified.
- 9.4 If the Vendor alters or withdraws its Bid after tender closing the Owner may retain the bid security and reserves the right to recover any damages suffered by the Owner. In addition, the Owner reserves the right to discipline the Vendor in accordance with its policies.

10.0 Document Submission Deposit (if required) – NOT APPLICABLE FOR THIS TENDER –

In order to be considered, Vendor Submissions shall be accompanied by a document submission deposit in the form of a certified cheque or bank draft payable to the Owner.

The amount of the document submission deposit to accompany your submission is \$0.00.

Interest shall not be paid on the document submission deposit. A bid bond will not be accepted in lieu of a certified cheque or bank draft.

The document submission deposit of the two lowest Vendors will be retained after opening of the Vendor Submissions. These two document submission deposits will be returned

within 45 days of the award of the Contract, unless otherwise specified within this Document.

The document submission deposit of the Vendor whose submission is accepted shall be forfeited by the Vendor should the Vendor fail to execute the contract or provide the necessary documents as required within this Document (including, without limitation, satisfactory bonds, insurance certificate, Workplace Safety and Insurance Board letter of clearance) within seven days after receiving written notice from the Owner of the award of the Contract to the Vendor.

11.0 Agreement to Bond (if required) – NOT APPLICABLE FOR THIS TENDER –

In order to be considered for award, the Vendor shall submit as part of their Vendor Submission, an Agreement to Bond in the form attached in the Appendices, completed by a Bonding Company with an A.M. Best rating of B+ or better. Any others will not be accepted. Each vendor must submit the completed Agreement to Bond with its tender in order to validate their bid.

Upon receipt of written notice from the Owner that it has been awarded the Contract, the successful Vendor shall provide, within seven days of such notice, a Performance Bond and a Labour and Material Payment Bond, each for the amount of 50 per cent of the total lump sum price, to guaranty the performance of all obligations of the Contract.

12.0 Sub-Contractors

The Vendor shall provide in the Vendor Submission the name and address of each of its proposed Subcontractors to be utilized in this project.

The Owner will not require completed Agreement to Bond forms for the Subcontractors' bonds mentioned above to be submitted by the Vendor at the time of Tendering. The Vendor may decide, at the Vendor's discretion to obtain Agreements to Bond from the Vendor's Subcontractors at the time of Tendering.

13.0 Owner Rights

The Owner reserves the right, in its sole and absolute discretion to:

- (a) deem a Vendor Submission to be unbalanced and may reject any and all Vendor Submissions, which it deems, and for this purpose, "unbalanced" shall include, without limitation, a Vendor Submission, which does not reflect a realistic breakdown of the costs of each or any portion of the Work;
- (b) adjust the totals in a Vendor Submission where there are errors in extensions, additions, or computations. In such cases, the unit prices shown shall govern;
- (c) reject any or all Vendor Submissions, accept a Vendor Submission which is not the lowest price, reject a Vendor Submission even if it is the only one received by the Owner; and cancel this request for Vendor Submissions at any time either before or after the receipt of Vendor Submissions, following which the Owner may proceed as it determines in its sole discretion, including without limitation, negotiating with any one or more of the vendors or any other person or entity for the performance of the Work under such terms, and conditions as the Owner may decide in its sole discretion, or issuing a new request for Vendor Submissions on the same or modified terms, all without liability to itself;
- (d) inspect and have a demonstration of the goods and/or services offered prior to award of a Contract and request evidence of experience, ability or financial standing;
- (e) waive formalities, technical defects, irregularities and omissions in a Vendor

Submission and may accept a Vendor Submission, which does not comply with the formal requirements of the Document, if in doing so the best interests of the Owner will be served;

- (f) remove from the Owner's list of Vendors, the name of any Vendor for failure to accept a contract or for unsatisfactory performance or non-performance of a contract; and,
- (g) fully evaluate the Vendor Submission, which evaluation may include, without limitation, a review of references, past performance, history, completion history (including extended completion dates, litigation history (including construction liens filed by subcontractors for non-payment) and claims history of the Vendor, and to reject a Vendor Submission if same is not satisfactory to the Owner.
- (h) seek further information and/or clarification, including without limitation a detailed price breakdown, from any Vendor after the closing time, for the purposes of assisting the Owner in interpreting and evaluating any Vendor Submission and interpreting any inconsistencies which may appear in any Vendor Submission, and the Owner shall have right to consider and rely on such further information and clarifications in evaluating the Vendor Submissions and awarding the Contract.

14.0 Collusion and Conflict of Interest

- 14.1 Should the Vendor give or offer any gratuity to or attempt to bribe any member, officer or employee of the Owner, or to commit collusion or fraud, the Owner shall be at liberty to reject the Vendor Submission, or if a Contract has been awarded, terminate the Contract forthwith, without liability to itself, and to rely upon the sureties as provided for.

The Vendor represents and declares that:

- (a) no member, officer or employee of the Owner has or will have an interest, directly or indirectly, in the performance of the Contract, or in the supplies, Work or business in connection with the said Contract, or in any portion of the profits thereof, or in any monies to be derived therefrom;
- (b) the Vendor Submission is not made in collusion with any other Vendor making a Vendor Submission for the same goods and services and is, in all respects, fair and without fraud.

- 14.2 Each Bidder must include in its bid the following statements:

14.2.1 That the bidder does not have, and will not have any conflict of interest (actual or potential) in submitting its Bid or, if selected, with the contractual obligations of the bidder as Contractor under the Agreement. Where applicable, a Bidder must declare in its Bid any situation that may be a conflict of interest in submitting its Bid, or if selected, with the contractual obligations of the bidder as Contractor under the Agreement; and

14.2.2 That the Bidder neither has, nor has access to any Confidential Information as defined below;

"Confidential Information" refers to confidential information of the Owner (other than confidential information which is disclosed to bidders in the normal course of the bidding process); the Confidential Information is relevant to the Work required by the Bid Documents, their pricing or the Bid evaluation process; and the disclosure of which could result in the prejudice to the Owner or an unfair advantage to the Bidder.

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- 14.3 In addition, each Vendor Submission shall include the following information:
- 14.3.1 A list of the names, addresses and telephone numbers of the persons who participated in the development of the Vendor Submission; and
 - 14.3.2 A list of the names of any former employees of the Owner, and their job classification, that the bidder has either appointed to its board of directors or employed since January 1, 2001.
 - 14.3.3 **The Vendor shall complete the Declaration of [Conflict of Interest Appendix B](#) and submit with Vendor Submission.**
- 14.4 The submission of any Vendor Submission may be disqualified where the Vendor fails to provide confirmation of the foregoing or makes misrepresentations regarding any of the above. Further, the Owner shall have the right to rescind any contract with the selected Vendor in the event that if the Owner in his/her sole discretion determines that the selected Vendor has made a misrepresentation regarding any of the above. This is in addition to or in lieu of any other remedies that the Owner has in law or in equity.
- 15.0 Code of Conduct**
- 15.1 While your firm is performing work for the Owner, the home and apartment building sites will remain open and accessible to the public and staff members. Your employees, suppliers, and sub-contractors must be made aware of the following list of rules to be followed while they are on the site:
1. The use of facilities or equipment (such as washrooms, electrical power, water, etc.) is not permitted unless otherwise specified or pre-approved by the Owner.
 2. All residents and their guests shall be treated with dignity and respect. Inappropriate behavior or offensive language will not be permitted.
 3. Clothing considered to be offensive or unsuitable for a public building will not be worn by the Contractor's/Vendor's staff. Clothing prohibited by the Ministry of Labour Construction Safety Act will not be permitted.
 4. People involved in operations where shoes and clothing are badly soiled (roofing, concrete work, demolition, etc.) shall refrain from entering any finished areas of the building. If entry is required, all areas shall be cleaned before leaving the work site at the end of the day.
 5. All employees, suppliers, sub-contractors, or others on site representing the Contractor/Vendor will be 18 years of age or older.
 6. Earphones and electronic devices (such as iPods, mp3 players, etc.) are not permitted on site at any time.
 7. A list of all Contractors' and Sub-Contractors' personnel who will be on site shall be provided to the Housing Corporation upon request.
 8. The Contractor shall rope off or barricade all areas affected by work in progress where injury or inconvenience could occur to the public or the staff. The installation and removal of ropes, barricades, and associated debris are the responsibilities of the Contractor.
 9. Food and drink are not to be consumed in an apartment building.
 10. Smoking is not permitted within the building or within 9 meters of any home or apartment

building entrance.

11. Drugs and alcohol are not permitted on site.
12. Contractor's staff shall not park their vehicles in unauthorized parking areas. Designated areas for Contractor's parking, deliveries, storage, garbage bins, parking etc., are the visitor parking areas or will be assigned by the Owner.

***** END OF SECTION *****

Part 1 General Requirements

1.0 Insurance

The Contractor shall keep in force for the duration of the Contract, Public Liability, Property Damage, and Pollution Insurance in an amount not less than \$2,000,000.00. Without limiting the foregoing, such insurance coverage shall include Comprehensive General Liability, Contractual Liability, Personal Injury and Contingent Liability with respect to Sub-Contractors. The Contractor shall submit proof of such insurance in the form of a certificate which shall contain a firm undertaking by the insurer to give the Owner 30 days' notice prior to any cancellation or modification of such insurance. If the Contractor fails to provide such insurance within 7 Business Days of receipt of the notification of award, the Owner, at its sole option, shall have the right to terminate the contract.

1.1 Workplace Safety and Insurance Board Certificate of Clearance

The Contractor shall produce a Workplace Safety and Insurance Board Certificate of Clearance Form from time to time when requested by the Owner and prior to final payment under the Contract. If the Contractor will be unable to produce clearance as required because it claims it is an independent operator, with no insurable workers and is otherwise unable to obtain a clearance, it shall submit to the Owner written confirmation from the Workplace Safety and Insurance Board of its status as an independent operator of the Contract, within 7 Business Days of receipt by the Contractor of the notification of the award. If the Contractor does not produce such confirmation, the Owner may at its sole option, terminate the contract.

1.2 Covid-19 Vaccination Policy

The current Covid-19 Vaccination Policy came into effect November 17, 2021 and pertains to all HNHC employees, Board Members and Contractors. Contractors who are awarded a contract with HNHC, are required to disclose their vaccination status and provide a copy of their vaccination passport. Contractors who are not vaccinated, will not be permitted to attend any HNHC site or the HNHC office. If the Contractor does not provide proof of vaccination, the Owner may at its sole option, terminate the contract.

NOT APPLICABLE FOR THIS TENDER

1.3 Assignment

The Contractor shall not assign the Contract nor the proceeds without written consent of the Owner.

1.4 Taking the Work out of the Contractor's Hands

Where the Contractor becomes bankrupt or insolvent, delays commencing or diligently executing the Work, abandons the Work or has otherwise failed to perform any of the provisions of the Contract, the Owner, may without previous notice and without process of suit at law, take the work out of the hands of the Contractor and have it completed by whatever means are considered necessary. In addition to any other remedy available in law or equity, the Owner may use all monies due on the Contract to correct or complete the work.

1.5 Indemnity

The Contractor shall indemnify and save harmless the Owner and its officers from all claims, demands, losses, costs, damages, actions, suits or proceedings by whomsoever made, occasioned by or attributable to the activities or omissions of the Contractor or those for whom the Contractor is responsible in performing the Contract.

1.6 Interpretation

If any question arises regarding meaning, intent or other matter required by the Contract, the question shall be decided by the Owner.

1.7 Accessibility for Ontarians with Disabilities Act Compliance Statement

The Accessible Customer Service Regulation 429/07 under the Accessibility for Ontarians with

Disabilities Act, 2005 came into effect on January 1, 2008. If you are a provider of goods or services in Ontario, and have one or more employees in Ontario, you will be required to comply with this regulation. Due to this legislation, and in order to be compliant, the [Haldimand Norfolk Housing Corporation as managing agent](#), must have a signed AODA Contractor/Vendor Compliance Statement Form from all its contractors as proof of training. The training will consist of a short training video available for employees to view from: Serve-Ability E-Training Course: <https://www.labour.gov.on.ca/english/hs/elearn/worker/index.php>. This training video is approximately 20 minutes in length. The AODA Contractor/Vendor Compliance Statement Form will be issued with the award letter to the successful contractor. If the Contractor fails to provide the AODA Contractor/Vendor Compliance Statement form, the Owner may at its sole option, terminate the contract.

Part 2 Governing Regulations

2.0 Permits, By-Laws

The Contractor agrees to abide by all laws, rules, regulations, by-laws and ordinances covering the class or character of the work to be executed including but not limited to Workplace Safety and Insurance, Unemployment Insurance, Fair Wage Program, as applicable and to pay all costs in connection the same.

2.1 Labour

The Contractor shall employ on the Work only persons qualified to perform the work required. The Contractor shall comply with the provisions of the Government Contracts Hours and Wages Act and the Employment Standards Act, as applicable. The Contractor shall ensure that all persons employed on the Work are paid not less than the current wage rate set forth in the Ministry of Labour Fair Wage Schedule, where applicable, and attached to the bid documents, and as it may be amended during the term of the Contract.

Part 3 Procedural Requirements

3.0 Commencement and Completion

The Work shall be commenced immediately after instructions are given to proceed by the Owner's representative and shall be completed within the time specified on the Bid Submission form.

3.1 Protection

The Contractor shall provide adequate protection to the public and property, the Work and other areas affected from any damages, theft or vandalism until the Work is accepted.

3.2 Clean Up

At the end of each day's work, the Contractor shall remove all debris, hazardous impediments, equipment and material which are not to be reused from the site.

3.3 Cutting and Patching

The Contractor shall not undertake any cutting, patching or the like, other than indicated in the Contract, without prior written approval of the Owner.

3.4 Loss of Damage to Material or Equipment

The Contractor shall be solely responsible for loss or damage to the Contractor's material or equipment and for any material delivered to the Contractor from whatever source to the site.

Part 4 Adherence to Drawings and Specifications

4.0 Materials

All materials, products and equipment supplied for the work shall be new, of the best quality and as far as possible – unless otherwise specified – be of Canadian origin and manufacture.

4.1 Changes in Work

The Owner may make changes with the Contract Price and the completion date being adjusted accordingly. No additional work shall be done nor shall other changes to the Contract be made without receiving prior written authority from the Owner.

4.2 Samples

The Contractor shall furnish for the approval of the Owner, such samples or materials, tests and designs as required from time to time. The work must be in accordance with the approved samples, tests and designs.

Part 5 Payment and Warranty

5.0 Payment

If practicable, progress payments may be arranged with the Owner. The 10% holdback required by the Construction Lien Act, 1983 will not be retained by the Owner for this Contract. The Construction Lien Act, 1983 applies to the performance of the Work and the Owner is subject to its provisions. In the discretion of the Owner, no payment otherwise due under the Contract shall be made to the Contractor until all claims under the Construction Lien Act, 1983 have been satisfactorily met to the extent the Owner may be liable.

5.1 No Additional Payment for Increased Costs

The amount payable to the Contractor under the Contract will not be increased or decreased by reason of any increase or decrease in the cost of the Work brought about by any increase or decrease in the cost of plant, equipment, labour, materials, or the wage rates set out and prescribed herein.

5.2 Correction of Faulty Work

The Contractor shall, for (2) years after the date of final completion of the work, or for the usual manufacturer's or producer's warranty period, whichever is the greater, at the cost of the Contractor, rectify defects in the Work caused by faulty workmanship or materials for which it shall have received notice from the Owner. This warranty does not override any warranty conditions specified in the Contract documents.

5.3 Acceptability of Work

All work performed by the Contractor shall be completed to the entire satisfaction of the Owner.

Part 6 Time

Time is of the essence.

***** END OF SECTION *****

1 INTENT

1.1 This section outlines the general requirements that shall be administered by the General Contractor. While the specification section establishes the requirements for each trade, the General Contractor shall directly supervise and administer all contract requirements to ensure the provision of materials, labour and equipment necessary to complete the work on time and to the quality specified.

1.2 Job Title:

1.2.1 The work under this contract applies to apartment building owned by Haldimand-Norfolk Housing Corporation and located at:

1. 265 Metcalfe St. S, Simcoe

1.3 Scope of Work:

1.3.1 **Work under this contract includes but is not limited to:**

1. Removal and disposal of existing asphalt shingle roof complete, drip edges and plumbing boots.
2. Installation of new asphalt shingle roof, drip edges, roof deck protection (100% coverage), ice and water shield, starter strip, ridge cap, new plumbing boots and new roof vents to replace existing.

1.3.2 Owner's Occupancy:

1. The project will be occupied by tenants throughout the duration of the Contract.
2. Access to units must be maintained at all times. Ensure an unobstructed path to existing stairwells and elevators and post warning signs at main entrance of the building and stairwells.

2 WORK SCHEDULE

2.1 **Projected completion deadline shall be no later than Friday, August 30th, 2024.**

2.2 On approval of the Work Schedule by the Owner, proceed to ensure completion of work within the scheduled time.

2.3 Work shall be carried out between the hours of 09:00 hrs. and 17:00 hrs., local time, Monday through Friday only, except statutory holidays unless requested otherwise in writing. Not applicable to snow clearing services contract.

3 PROJECT MEETINGS

3.1 The Owner may call an Initial Project Meeting. The Owner's staff and their consultants will be invited.

4 TEMPORARY UTILITIES

4.1 Light and Power:

1. When not available Provide Temporary Power during work to a maximum of 115 volts, 30 amps electrical, for temporary lighting and operating of power tools.
2. Where capacity is insufficient provide and pay for additional services.
3. Provide temporary wiring, fixtures, equipment panels, transformers, generators, etc. as necessary to complete the work.

5 TEMPORARY FACILITIES AND CONTROLS

5.1 **Not applicable to this work**

6 WORK WITHIN SUITES

6.1 Leave work site in broom clean conditions.

7 FIRE SAFETY REQUIREMENTS AS NECESSARY

- 7.2 Comply with the Ontario Fire Code, by:
- 7.3 Shutting off and capping abandoned service lines.
- 7.4 Maintaining and protecting continuing service lines.
- 7.5 Providing fire watches as required.
- 7.6 Management of combustible salvage, waste and rubbish.
- 7.7 Protecting persons and properties.
- 7.8 Maintaining operable fire protection equipment.
- 7.9 Maintaining free access route for fire-fighters, ambulance.
- 7.10 Providing temporary fire extinguishing equipment.
- 7.11 Maintaining existing and temporary fire exits.

8 CONTRACTOR'S USE OF SITE

- 8.1 As specified herein.

9 CUTTING, FITTING AND PATCHING

- 9.1 Cut and patch were required to match existing. Leave no evidence of construction other than new hardware.

10 LAYOUT OF WORK

- 10.1 As specified

11 CODES and STANDARDS

- 11.1 Execute work to meet or exceed:
 - 1. Ontario Building Code, including all amendments up to project date.
 - 2. Ontario Fire Code, including all amendments up to project date.
 - 3. Occupational Health and Safety Act and regulations for Canadian Construction Projects, latest edition.
 - 4. Canadian Construction Safety Code.
 - 5. Rules and regulations or authorities having jurisdiction.
 - 6. Project specifications.
 - 7. Latest edition of all relevant codes, by-laws, regulation and standards.
- 11.2 Adhere to the most stringent requirement when above noted codes and standards conflict.

12 SHOP DRAWINGS, SAMPLES, PRODUCT DATA

- 12.1 As specified in specifications

13 INSPECTION AND TESTING When Required

- 13.1 Submit two (2) copies of inspection and test reports promptly to the Owner.
(Not Applicable)

14 THE OCCUPATIONAL HEALTH AND SAFETY ACT AND OTHERS

- 14.1 The contractor shall comply with all conditions and regulations of the Occupational Health and Safety Act, R.S.O. 1990, and regulations enacted there under for construction projects and amendments thereto; any other Federal or Provincial Statute or local by-law concerning safety, including but not limited to Ontario Building Code, the regulations of the Ontario

Ministry of Labour, Ontario Hydro Safety Requirements, Workplace Safety and Insurance Board. Requirements shall be strictly enforced. In the event of conflict between and provisions of the above authorities the most stringent provisions will apply.

14.2

Safety Requirements

1. Provide all safety requirements and protection necessary or as required by local by-laws, governing authorities including but not limited to: guard rails, barriers, lights, and warning notices.
2. Take all precautions and provide all required protection to ensure the safety of the general public and the workers in accordance with latest edition of the Occupational Health and Safety Act and Regulations for Construction Projects.
3. Provide an adequate supply of required protective clothing and equipment to workers, such as eye goggles, hard hats, and fall arrest equipment which shall be used at all times in accordance with Ontario Health and Safety Association regulations and Occupational Health and Safety Act, R.S.O. 1990, including amendments up to this project date.
4. Provide and maintain temporary ladders required to perform the work. Ladders shall be strongly constructed and shall comply with all requirements of safety authorities having jurisdiction over the work. All ladders shall be secured and used only by methods approved by the Authorities.

14.3

W.H.M.I.S.

The contractor shall provide the owner with Material Safety Data Sheets for all W.H.M.I.S. products used for this contract. A copy of these MDS sheets must be available at the site at all times for the duration of the project.

15

ASBESTOS

15.1

Obtain from Owner an inspection report indicating whether or not any friable/non-friable material that is likely to be handled, dealt with, disturbed or removed contains asbestos.

15.2

If the friable/non-friable material contains asbestos, the report shall:

1. Name the type of asbestos and shall contain drawings, plans and specifications, as appropriate, to show the location of the friable/non-friable material containing asbestos that will be handled, dealt with, disturbed or removed.

15.3

Comply with the requirements of Regulation Respecting Asbestos on Construction Projects and in Buildings and Repair Operations - made under the Occupational Health and safety Act, Ontario Regulation 278/05.

15.4

There are NO known friable/non-friable materials containing asbestos in area of work.

16

POLYCHLORINATED BIPHENYLS (PCBs)

16.1

Conform to the Environmental Protection Act and Regulations, Ontario Regulation 11/82 as amended.

16.2

There are no known lighting fixture ballasts or transformers containing PCBs in area of work.

17

WASTE MANAGEMENT

17.1

Remove and dispose of debris and waste from job site at the end of each work day.

18

CO-ORDINATION

18.1

Not applicable to this work

19

SALVAGE

19.1

Not applicable to this work.

20

AS BUILT DRAWINGS AND MANUALS (N/A)

As specified herein.

21 WARRANTIES

21.1 Expedite the preparation and submission of warranties, particularly extended period warranties, as specified.

21.2 Provide warranties fully executed and notarized.

22 CLEANING

22.1 Maintain a clean site and building.

***** END OF SECTION *****

PART 1 - GENERAL

1.1 Scope

1.1.1 Comply with the requirements of the General Conditions for Public and Invitational Tenders, General Requirements, this specification, and OBC 2006 9.26.

1.1.2 Provide materials, labour and equipment to:

- .1 Remove & dispose existing shingles, starter strip/drip edge at all eaves and rakes, plumbing boots, valleys, sheathing felt paper & eave protection.
- .2 Inspect all metal flashing & counter flashing, and chimney saddles including sealants. Re Seal all.
- .3 Install new eave protection (ice and water shield) as per Ontario Building Code requirements.
- .4 Install new shingles, starter strip/drip edge at all eaves and rakes, plumbing boots, valleys, roof deck protection and eave protection, approx. 25 roof vents, as necessary to complete the work.
- .5 Reset and reseal all exhaust fan termination vents, as needed.
- .6 If required all metal flashing & counter flashing, chimney saddles repairs, roof deck replacement will be extra to contract. Report all work to owner before proceeding.
- .7 Eave protection (ice and water shield) to be installed at all valleys.

1.2 Standards

1.2.1 To CAN/CSA A123.51-M85 and/or CAN/CSA A123.52-M85 and CRCA Specification SH-1.

1.2.2 Do not use asphalt shingles on vertical or near vertical surfaces.

1.3 Samples

1.3.1 Submit duplicate samples of full size shingles, as specified.

1.4 Existing Conditions

1.4.1 Visit site and determine existing conditions, limitations and requirements for protection of this and adjacent work and verify dimensions.

1.5 Delivery and Storage

1.5.1 Deliver in original bundles, packages and containers. Ensure that materials are carefully handled to prevent damage to new and existing work.

1.5.2 Store materials dry and free from foreign matter during all phases of work.

1.6 Warranty

1.6.1 Provide documentation warranting the shingles free from manufacturing defects due to faulty materials for a period of 40 years commencing on the date of final acceptance.

1.6.2 Provide a signed certificate warranting the application of the roofing and flashing membranes for a period of 2 years and the related sheet metal for a five-year period, commencing on the date of the final acceptance. Make good promptly, at no additional expense, any defects occurring or becoming apparent within the warranty period. Such defects include but are not restricted to leaking, failure to stay in place, undue expansion, lifting and deformation

PART 2 - PRODUCTS

- 2.1 **Sheathing:** Douglas fir plywood unsanded, to CAN/CSA O121-M78; 16 mm thick.
- 2.2 **Principal material suppliers are:**
- .1 ELK/GAF - Timberline HD - hickory**
- 2.3 **Use materials specified in 2.2 to 2.6 from one manufacturer to ensure compatibility.**
- 2.4 **Roofing Deck Protection:** GAF roof deck Protection – Shingle-Mate® fiberglass-reinforced, asphaltic roof deck protection.
- 2.5 **Roofing Cement:**
2.5.1 Plastic Cement: To CAN/CGSB 37-GP-5Ma.
2.5.2 Lap Cement: To CAN/CGSB 37-GP-4Ma.
- 2.6 **Eave Protection:** Self-sealing, self-adhering, composite sheet membrane composed of high-density, cross laminated polyethylene and rubberized asphalt. Acceptable Product:
(1) GAF Water & Ice Shield-Storm Guard®
- 2.7 **Sheet Metal, Flashings, Drip Edge, etc.:** Galvanized or prefinished Sheet steel; 0.46 mm thick (26 ga).
- 2.8 **Nails:** Large head roofing to CAN/CSA B111-74, galvanized steel, of sufficient length to penetrate deck minimum 12 mm.
- 2.9 **Roof Vent:** Duraflor Weather Pro Series Pro 50.
- 2.10 **Plumbing Boots:** Duraflor permoseal stretchfit pipe flashing by Canplas Industries Ltd.

PART 3 - EXECUTION

- 3.1 **Preliminary Work**
3.1.1 Give at least two (2) weeks' notice to the Owner before starting work.
3.1.2 Remove if necessary and store residents and other furniture in a safe place during the work and afterwards replace.
3.1.3 Provide temporary protection to all interior areas during operations.
- 3.2 **Preparation**
3.2.1 Remove existing shingles, starter strip, nails, all metal flashing & counter flashing, chimney saddles, sheathing paper & eave protection at designated roof locations. Obtain a smooth, even and clean deck surface.
3.2.2 Examine existing deck and report to the Owner any areas of damaged, deteriorated or unsuitable sheathing.
3.2.3 Renail loose plywood sheathing.
3.2.4 Promptly remove discarded materials from the site. Stockpiling of refuse or scrap material on site is not permitted.

- 3.2.5 Apply materials in strict accordance with manufacturers printed instructions.
- 3.2.7 Secure and re seal all exhaust fan termination vents
- 3.2.8 Install new work promptly after removal of existing roofing to minimize exposure to weather. Do not apply work during rain, fog or snow. Do not work over damp, frozen or unsuitable surfaces.
- 3.2.9 **Install drip edge at all rakes and along eaves, overhanging 12 mm, with minimum 50 mm flange extending on to roof decking. Nail to deck at 400 mm oc maximum.**

3.3 Installation

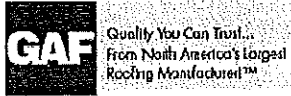
3.3.1 In accordance with CAN/CSA A123.51-M85 and/or CAN/CSA A123.52-M85 and CRCA specification SH-1: and **OBC 2006 Section 9.26.**

- .1 Install sheet metal valleys.
- .2 Install metal flashings, as required.
- .3 **Roof deck protection to cover entire roof.**
- .4 Install eave protection outside edge to form a line not less than 750 mm inside the inner face of the exterior wall measured horizontally. Conform to OBC requirements.
- .5 Install eave protection (ice & water shield) as per OBC requirements. Lay roof deck protection as horizontal underlayment with minimum 50 mm head lap and 100 mm side lap; use sufficient nails to hold in place until shingle application complete; overlap eave protection 100 mm minimum.
- .6 Install shingles over dry substrate to manufacturer's recommendations.
- .7 Moderately butt shingles together.
- .8 Stagger joints to OBC requirements in succeeding courses to permit vertical alignment.
- .9 Use four nails per shingle. Provide one nail 25 to 40 mm from each side edge and remaining two nails above cut-outs just below self-sealing strip and to manufacturers printed directions; do not nail into or above factory-applied adhesive strip; drive nails straight and flush.
- .10 Install asphalt shingles starter strip laid granule side up, facing tabs up roof slope, overhanging eave edge 20 mm to provide a drip nail along bottom edge 300 mm oc.

3.4 Clean-up

3.4.1 Remove surplus material, equipment and debris and leave site clean and tidy. Magnetic sweep for all nails on grounds. Sweep all parking lots to remove all nails.

***** END OF SECTION *****



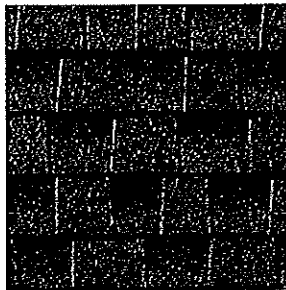
Roofing Home > Residential Products > Shingles > Timberline > High Definition



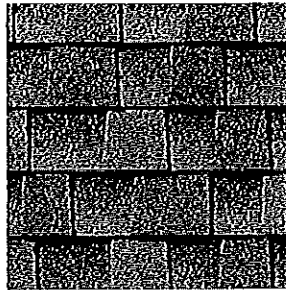
[Shingle Features](#) | [Shingle Colors](#) | [Photo Gallery](#) | [Instructions, Warranties & Codes](#) | [Product Reviews](#)

Colors Available In The Area N4B2Z9

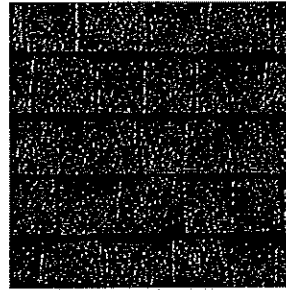
[Wrong City? Click Here to Change Location](#)



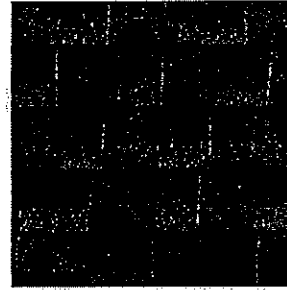
Timberline HD - Barkwood



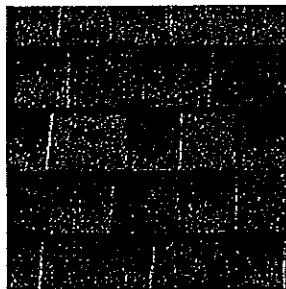
Timberline HD - Birchwood



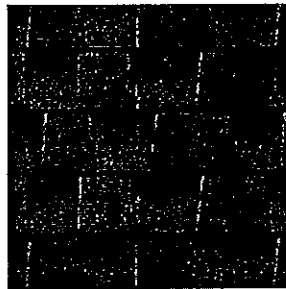
Timberline HD - Canadian Driftwood



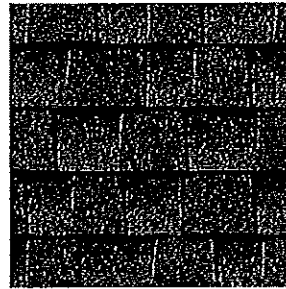
Timberline HD - Charcoal



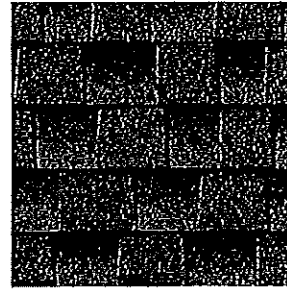
Timberline HD - Hickory



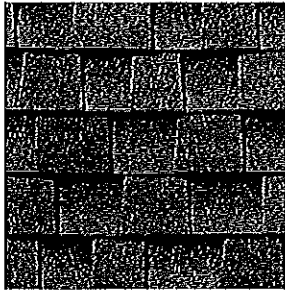
Timberline HD - Hunter Green



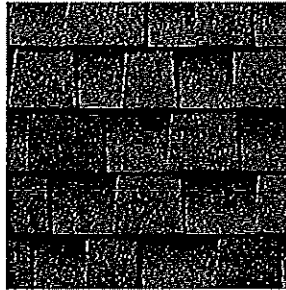
Timberline HD - Mission Brown



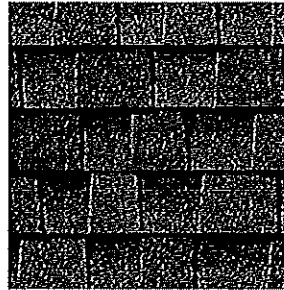
Timberline HD - Pewter Gray



Timberline HD - Shakeswood



Timberline HD - Slate



Timberline HD - Weathered Wood

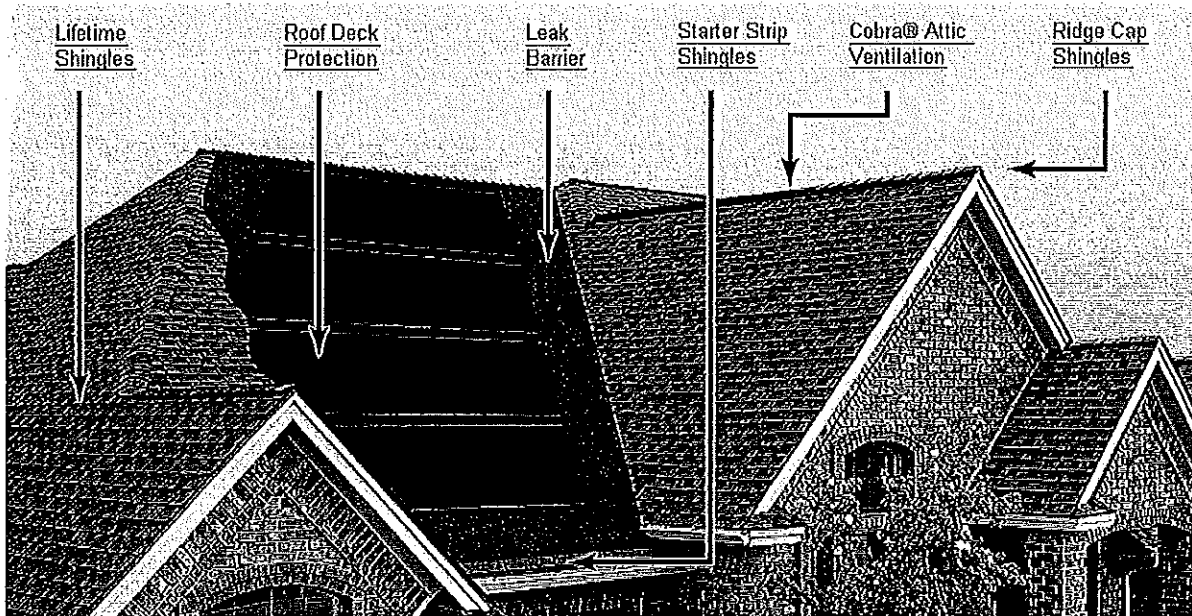
Note: It is difficult to reproduce the color clarity and actual color blends of these products. Before selecting your color, please ask to see several full-size shingles.

Get Lifetime Protection On Your Timberline High Definition® Shingles and Your Entire GAF Roofing System - At No Additional Cost!



What Is The Lifetime Roofing System? Click For Details!

- YOU ■ A Lifetime ltd. warranty... on your shingles and all qualifying GAF accessories! [\(See Details\)](#)
- GET: ■ Non-prorated coverage for the first 10 years [\(See Details\)](#)



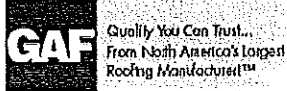
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[Instructions, Warranties & Codes](#)

[Product Reviews](#)

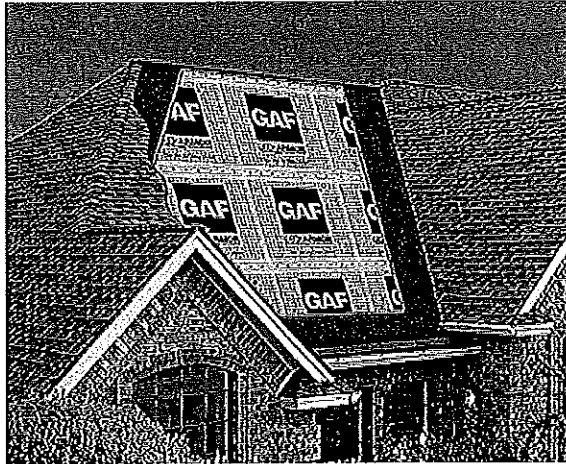


What Is The Lifetime Roofing System? Click Here For Details!

Roofing Home > Residential Products > Roof Deck Protection

GAF Roof Deck Protection, Roofing Felt, Underlayment

"Avoid A Buckled, Bumpy-Looking Roof And Reduce Blow-Off With Quality Roof Deck Protection"



Deck-Armor™ (Best)

Help protect your home with premium "breathable" roof deck protection.



Tiger Paw™ (Better)

Help protect your home from damaging moisture with superior roof deck protection.

Superior Quality Roof Deck Protection Can Protect And Beautify At The Same Time! Quality Roof Deck Protection:

- Prevents wind-driven rain... (or water from other sources) from infiltrating under your shingles and causing damage to your roof structure or the inside of your home
- Provides an extra layer of protection... Between your shingles and your roof deck
- Lays flatter... And will not buckle when installed
- Helps reduce blow-off... By allowing your shingles to lay flatter and more uniformly



Shingle-Mate® (Good)

Fiberglass-reinforced, asphaltic roof deck protection.

* use of this product on entire roof required



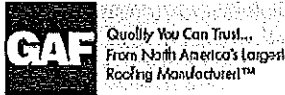
VersaShield® Fire-Resistant Roof Deck Protection

Protects against dangerous flame spread and penetration into interior of property.



RoofPro™

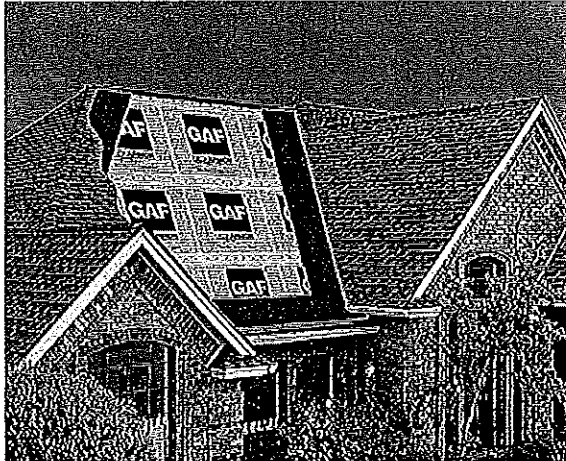
SBS-Modified All-Purpose Underlayment



Roofing Home > Residential Products > Leak Barriers

GAF Roof Leak Barriers / Water & Ice Shields

"Protect Your Investment And Safeguard Vulnerable Areas"



** Use this product at all eaves + valleys as specified*

StormGuard®

Film surfaced leak barrier, suitable for application under shingle and metal roofs.

WeatherWatch® XT

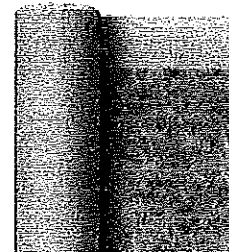
Mat surfaced leak barrier with XTra traction, suitable for application under shingle roofs.

- **Protect Your Property...**
Help prevent wind-driven rain from leaking through the roof deck, or melting ice and snow (caused by ice dams in harsh winter climates) from leaking into property's interior
- **Add Extra Protection...**
In valleys and at eave and rake edges — the most leak-prone areas of the roof. Strongly recommended for chronic problem areas like skylights, dormers, vent pipes, chimneys, and other flashing areas
- **Won't Leak...**
Helps ensure a 100% watertight seal
- **Avoid Costly Repairs...**
Due to staining on interior walls and ceilings
- **Better Appearance...**
Fiberglass reinforcement helps resist wrinkling and buckling — lays flatter under shingles
- **Saves Labor...**
Split-back release film peels off in sections, for faster installation and superior property owner value
- **Peace Of Mind...**
Benefits from the same warranty term as the shingles they are applied under, up to a maximum of 30 years*



WeatherWatch®

Mineral surfaced leak barrier, suitable for application under shingle roofs.



UnderRoof™ 2

Premium leak barrier designed for use under tile roofs.

*See ltd. warranty for complete coverage and restrictions

Get Lifetime Protection On Your GAF Leak Barriers and Your Entire GAF Roofing System - At No Additional Cost!



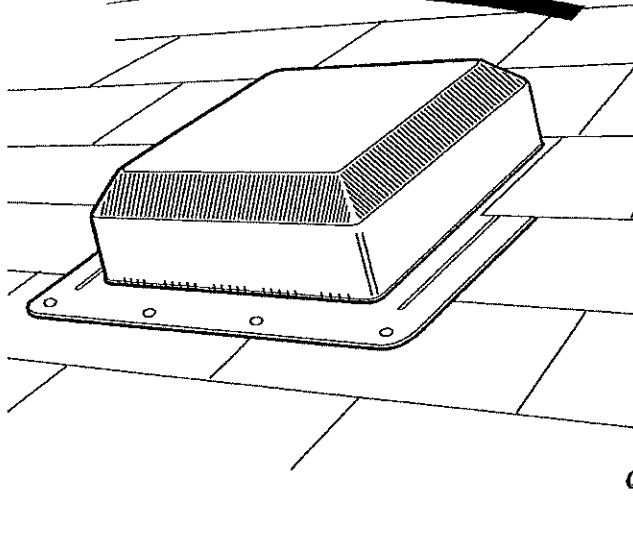
What Is The Lifetime Roofing System? Click For Details!

- YOU ▪ A Lifetime ltd. warranty... on your shingles and all qualifying GAF accessories! [\(See Details\)](#)
- GET: ▪ Non-prorated coverage for the first 10 years [\(See Details\)](#)

Model: WeatherPRO® PRO50, model # 60PRO50

WeatherPRO® Series PRO50

Control the Weather



Description:

- Unique, patented, weather infiltration protection internal baffle system
- Net free venting area of 50 sq-in
- Five WeatherPRO PRO50's will ventilate 1000 sq ft of attic space (approx)
- Roof pitch range 2/12 – 14/12
- Injection molded from pure, high grade polypropylene with premium UV inhibitor additives
- Top venting design uses chimney effect to channel moist air away from roof eliminating shingle staining
- Vent cap design with built in weeping holes eliminates bird nesting and water pooling

Approved Certifications:



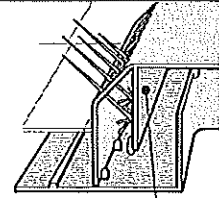
- CSA certified – Plastic Type B roof vents, for installation on sloping surfaces
- Miami Dade High Velocity Hurricane Zone certified: NOA 04.0401.01

Durability: Engineered to resist denting, peeling, extreme heat and cold impact to -40

Colors: Black, Brown, Weatherwood, Grey, White

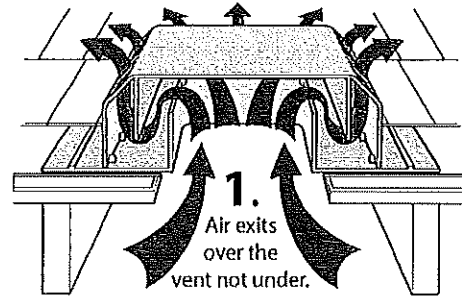
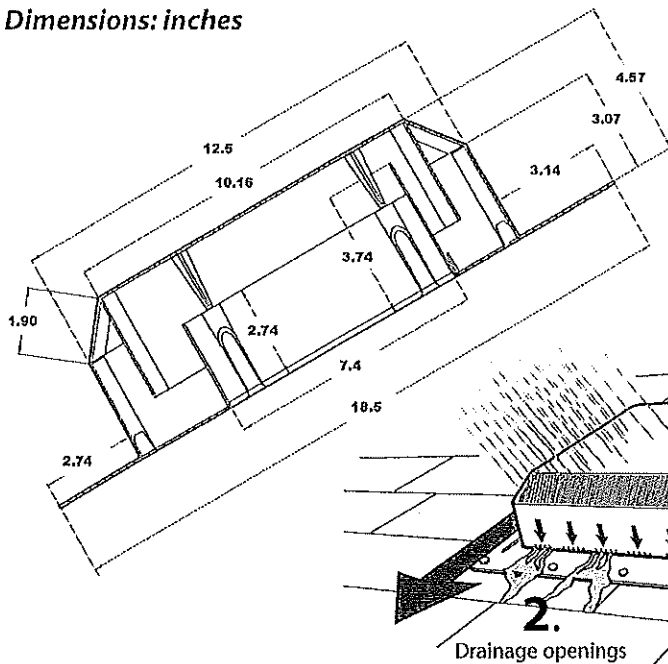
Weather Protection :

WeatherPRO's patented internal baffles deflect water and snow, allowing it to drain harmlessly out the drainage openings. Designed to allow high airflow while providing excellent defense against weather infiltration.



Interior baffle shield

Dimensions: inches

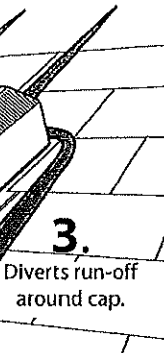


1.
Air exits over the vent not under.

1. Unique baffle system wards off driving snow and blistering rain while allowing warm moist air to exit in a chimney like fashion eliminating shingle stains.

2. Drainage openings allow for water to escape.

3. PRO50 design diverts water around vent cap. The flat exterior wall acts as second weather defense system while improving airflow.



3.
Diverts run-off around cap.

USA - Canplas LLC
11402 East 53rd Ave., Suite 200
Denver, Colorado U.S.A. 80239
Tel: 1-888-461-5307
Fax: 1-888-461-5309

CANADA - Canplas Industries Ltd.
P.O. Box 1800, 500 Veterans Drive
Barrie, Ontario L4N 9J5
1-800-461-5300
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Fax: (705) 726-8991

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WE KNOW VENTILATION

an OAliaxis company

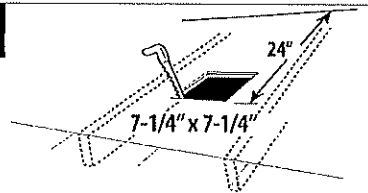
duraflo® INSTALLATION GUIDE

Installation of Duraflo **WeatherPRO® PRO50 Roof Vent** should comply with all local standards and regulations. Before beginning a job, determine how much ventilation is required in both soffit and roof vents and what sizes of vent would best suit the job. If required, refer to Duraflo Ventilation Calculator for guidance.

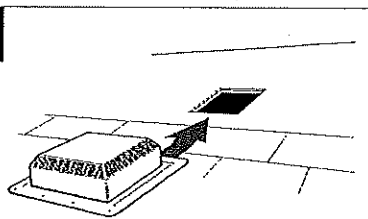
For New Construction or Re-Roofing

- Determine the location of vents:**
 Evenly space the roof vents along the width of the roof, marking the location of all roof vents before cutting holes. Centre the holes between the rafters within two feet (24") from the peak of the roof.
Cut and prepare the opening:
 Cut the holes in the sheathing before applying shingles. Shingle up until the first full course of shingles covers the bottom of the hole. Cut the excess shingles away from the hole.
- Position the vent and nail the vent in place:**
 Duraflo Roof Vents have a top arrow indicator. Make sure the throat of the vent is in the proper position centered over the opening. Using the pre-marked nail holes, nail the vent securely into place.
- Complete the shingle installation:**
 Continue installing shingles, overlapping the flange of the vent. Cut the shingles around the top of the vent to match its shape. Please Read Caution Below.

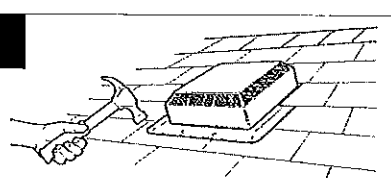
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2.



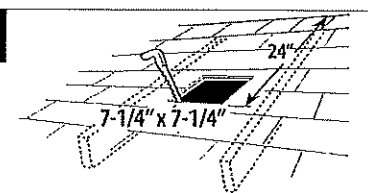
3.



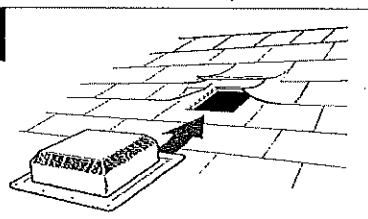
Adding Ventilation to Finished Roofs

- Determine the location of the vents:**
 Determine how much additional ventilation is required and the best location for the holes. Inspect the attic to determine the location of rafters and other obstructions. Evenly space the roof vents along the width of the roof, marking the location of all roof vents before cutting holes. Centre the holes between the rafters within two feet (24") from the peak of the roof.
Cut and prepare the opening:
 Using a sharp knife, cut away shingles. Cut through the sheathing using a keyhole saw or electric reciprocating saw. Carefully remove the roofing nails within 3" of the hole. Cut the shingles at the top of the hole to accommodate the molded peak of the roof vent.
- Position the vent:**
 Duraflo Roof Vents have a top arrow indicator. Slide the vent into place beneath the shingles ensuring that the throat of the vent is centered on the hole. The shingles should overlap the top half of the vent flange. The bottom half of the vent's flange will be exposed on top of the shingles.
- Nail the vent into place:**
 Nail the vent into place, using the pre-marked holes. Replace nails in the shingles as necessary to ensure a proper seal.

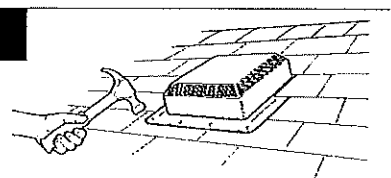
1.



2.



3.



Caution: DO NOT USE roofing cement /roofing tar to seal the vent to the roof. The wide flange and molded-in water guards will force the water down the roof over the shingles. The polypropylene flange is large enough and flexible enough to effectively self seal against the roof without the aid of roofing tars. Roofing tars are potentially damaging to the roof vent and the asphalt shingles. Use of roofing tar will void any warranty on the Duraflo Roof Vents. Optional: Seal all nail heads with an approved sealant, such as silicone. Make sure the sealant is a non-petroleum product (usually available in a plastic tube).

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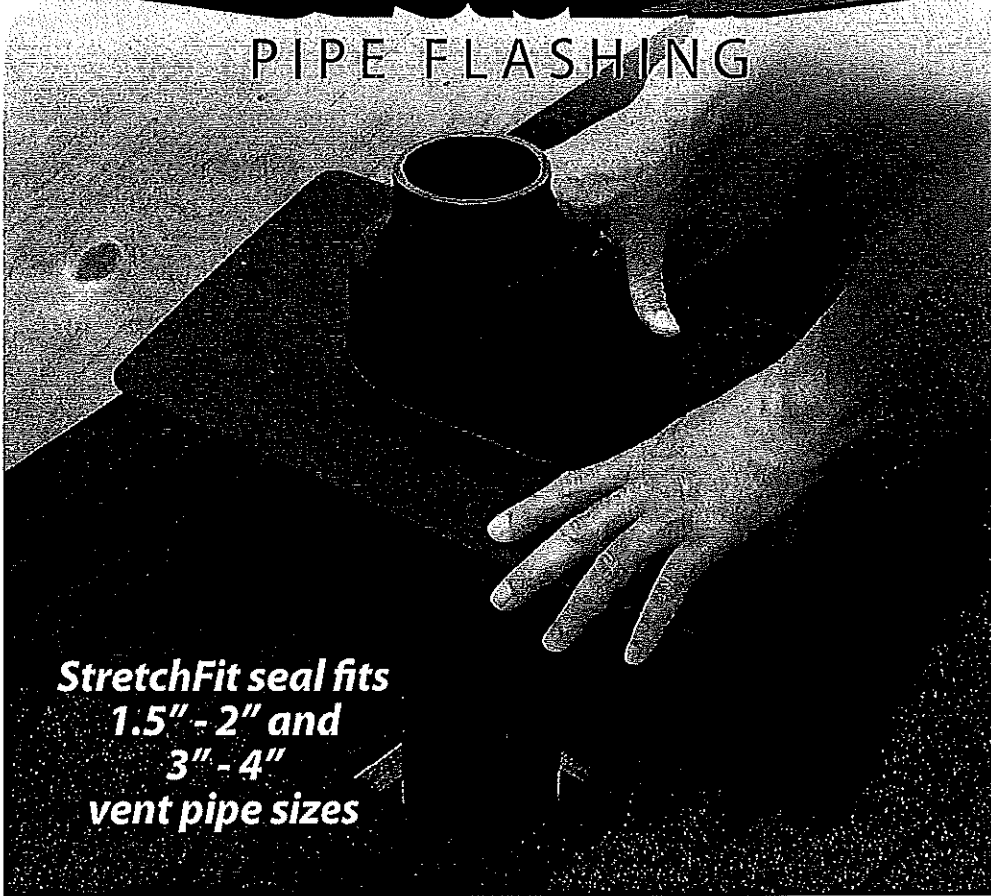
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Put away your knives and pliers!

PermOseal®

StretchFit

PIPE FLASHING

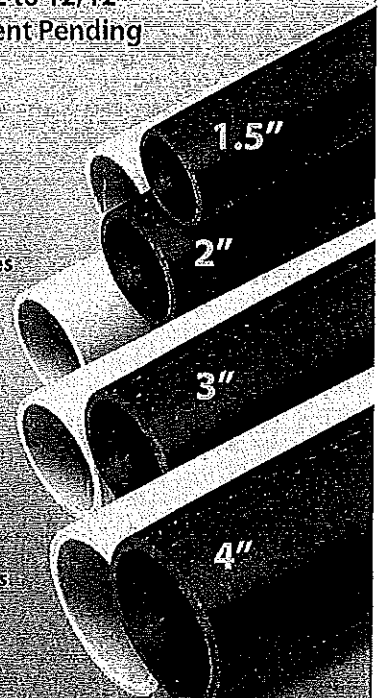


*StretchFit seal fits
1.5" - 2" and
3" - 4"
vent pipe sizes*

*The new
PermOseal®
StretchFit
requires no
adjustment, no
cutting and no
tearing!*

- UV and Extreme Cold Resistant
- Built in water deflectors
- Fits roof pitches from 2/12 to 12/12
- Patent Pending

MODEL:
551222
1.5"-2"
Pipe Sizes



MODEL:
551224
3"-4"
Pipe Sizes

*The only flashing available
in a selection of colors.*



BL - Black

G - Green

WW - Weatherwood

W - White

BR - Brown

GR - Gray

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by **canplas®**

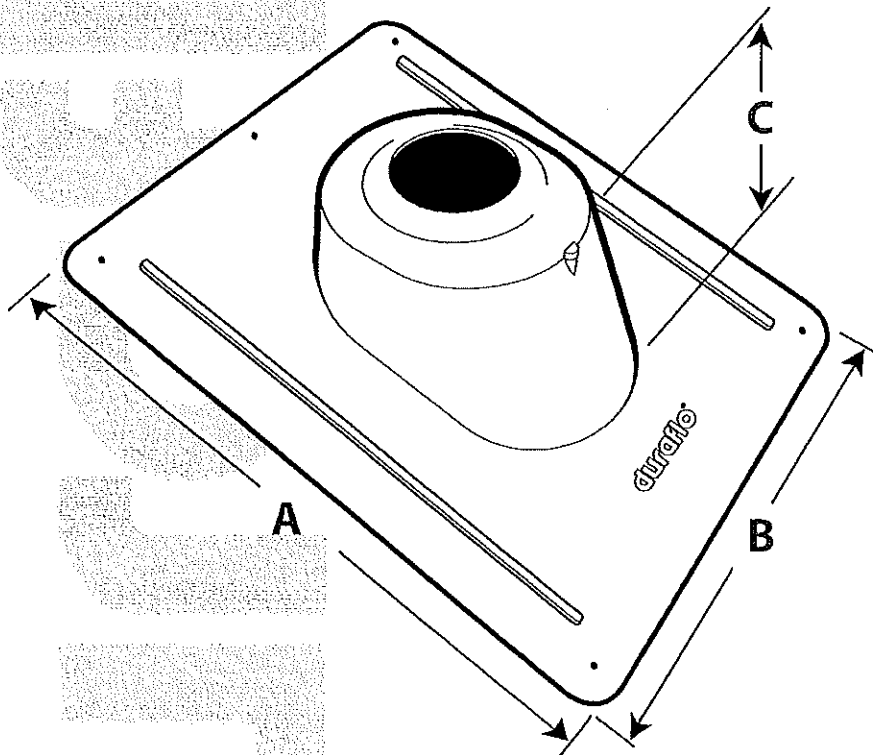
an Ollaxis company

PermOseal® StretchFit

PIPE FLASHING

*The new PermOseal®
StretchFit flashing
by Duraflo® is a
breakthrough in flashing
seal technology.*

Our newly engineered material can stretch beyond 200% to accommodate a wide variety of pipe sizes. Installers no longer have to carry multiple size flashings or pull and tear inferior materials risking poor pipe seals. With the 1.5"- 2" or the 3"- 4" StretchFit you simply push the flashing opening over the vent pipe, attach the flange to the roof and install the shingles. No adjustment to the product is required meaning less time spent during installation and a perfect seal every time.



Dimensions:

MODEL: 551222
1.5"- 2" Pipe Size

A: 13"
B: 9-1/4"
C: 3-1/2"

MODEL: 551224
3"- 4" Pipe Size

A: 15-1/2"
B: 12"
C: 4-1/2"

COLOR	PART #	CTN. QTY.	WT. CTN. (LBS.)
PIPE SIZE 1.5" to 2"			
Black	551222BL	12	6
PIPE SIZE 3" to 4"			
Black	551224BL	12	9

Colors available - See front for color codes



CANADA

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ROOFING

BUILDING CODE REFERENCES

DIVISION B

- 9.26.1.1. Purpose of Roofing
- 9.26.1.2. Alternate Installation Methods
- 9.26.2.1. Material Standards
- 9.26.2.2. Nails
- 9.26.2.3. Staples
- 9.26.3.1. Slope
- 9.26.4.1. Required Flashing at Intersections
- 9.26.4.2. Materials (Flashing)
- 9.26.4.3. Valley Flashing
- 9.26.4.4. Intersection of Shingle Roofs and Masonry
- 9.26.4.5. Intersection of Shingle Roofs and Walls Other Than Masonry
- 9.26.4.6. Intersection of Built-Up Roofs and Masonry
- 9.26.4.7. Intersection of Built-Up Roofs and Walls other than Masonry
- 9.26.4.8. Chimney Saddles
- 9.26.5.1. Required Eave Protection
- 9.26.5.2. Materials (Eave Protection for Shingles and Shakes)
- 9.26.6.1. Materials (Underlay Beneath Shingles)
- 9.26.6.2. Installation
- 9.26.7.1. Coverage
- 9.26.7.2. Starter Strip
- 9.26.7.3. Head Lap
- 9.26.7.4. Fasteners
- 9.26.7.5. Securing of Tabs
- 9.26.7.6. Hips and Ridges
- 9.26.7.7. Eave Protection
- 9.26.7.8. Flashing
- 9.26.8.1. Coverage
- 9.26.8.2. Starter Strip
- 9.26.8.3. Securing of Tabs
- 9.26.8.4. Securing of Shingle Courses
- 9.26.8.5. Hips and Ridges
- 9.26.8.6. Flashing
- 9.26.8.7. Fastening
- 9.26.9.1. Decking
- 9.26.9.2. Grade
- 9.26.9.3. Size
- 9.26.9.4. Spacing and Joints
- 9.26.9.5. Fastening
- 9.26.9.6. Exposure
- 9.26.9.7. Flashing
- 9.26.9.8. Eave Protection
- 9.26.10.1. Size and Thickness
- 9.26.10.2. Underlay
- 9.26.10.3. Spacing and Joints
- 9.26.10.4. Fastening
- 9.26.10.5. Exposure
- 9.26.10.6. Flashing
- 9.26.10.7. Eave Protection
- 9.26.10.8. Grade
- 9.26.11.1. Quantity of Materials
- 9.26.11.2. Coal-Tar and Asphalt Products
- 9.26.11.3. Roof Felts
- 9.26.11.4. Aggregate Surfacing
- 9.26.11.5. Flashing
- 9.26.11.6. Number of Layers
- 9.26.11.7. Installation of Layers
- 9.26.11.8. Roofing over Wood-Based Sheathing
- 9.26.11.9. Attachment to Decking
- 9.26.11.10. Cant Strips
- 9.26.12.1. Double Coverage
- 9.26.12.2. Joints
- 9.26.13.1. Thickness
- 9.26.14.1. Support
- 9.26.15.1. Installation (Hot Applied Rubberized Asphalt Roofing)
- 9.26.16.1. Installation (Polyvinyl Chloride Sheet Roofing)
- 9.26.17.1. Installation (Concrete Roof Tiles)
- 9.26.18.1. Roof Drains
- 9.26.18.2. Downspouts

Exterior roof finishes must effectively shed rain from all roofs and prevent water, caused by ice damming or wind-driven rain, from penetrating into the roof space. Roofs also include platforms that may serve as roofs with respect to the accumulation or drainage of precipitation. The focus of this chapter is to outline Code requirements for roofing methods and materials, and to offer a helpful commentary on common problem areas.

There are a large number of standards for roofing materials and installation referenced in the Code. Many roofing materials may require more information prior to design and construction than provided in this guide. It is advisable to consult the relevant standards for any materials that are not discussed in this Guide.

The requirements for common material applications and their respective slope limitations are discussed in Subsection 9.26.3. of the Code.

Always check the adequacy of roof framing to support the loads imposed by roofing materials. For instance, clay tile roofs may require additional structural reinforcement to support the loads from the roofing material.

Minimum Dimensions for Roof Fasteners (mm (in))

Nails**	Head Diameter	Shank Thickness	Length
Asphalt shingles	9.5 (3/8")	2.95 (1/8")	12 * (1/2")
Wood shakes and shingles**	4.8 (3/16")	2.0 (3/32")	12 * (1/2")
Staples**	Crown width	Thickness or Diameter	Length
Asphalt Shingles	25 *** (1")	1.6 (1/16")	19 (3/4")
Wood shakes and shingles**	9.5 (3/8")	1.6 (1/16")	29 (1-3/16")

Notes:
 * Minimum penetration into roof sheathing
 ** All roofing fasteners must be corrosion resistant. Wood roofing requires fasteners made of aluminum or stainless steel, except nails may also be hot-dipped galvanized
 *** May be 11 mm (1/2") if shingles are fastened with at least 6 staples, located at least 25-40 mm (1 to 1-1/2") from each end of each strip shingle and spaced evenly between, and not less than 12 mm (1/2") above the tops of the cutouts in accordance with 9.26.7.4.

Figure 8.18 Requirements for Roof Fasteners (9.26.2.2.) (9.26.2.3.)

GENERAL

Asphalt shingle applications not described in this section of the Guide may be permitted provided that they comply with CAN3-A123.51, "Asphalt Shingle Applications on Roof Slopes 1:3 and Steeper", or CAN3-A123.52, "Asphalt Shingle Applications on Roof Slopes 1:6 to Less than 1:3".

NAILS AND STAPLES

Nails must comply with CSA B111, "Wire Nails, Spikes and Staples". Nails and staples that are used for wood shakes and shingles are required to be made of stainless steel, aluminum, or hot dipped galvanized steel (nails only). Figure 8.18 outlines the sizing criteria for nails and staples.

ROOF SLOPE

Roofs and elements acting as roofs should be constructed with sufficient slope away from exterior walls and guards (connected to the roof by more than posts or pickets). Roofs should maintain a positive slope after the building frame shrinks and the design load is applied for cantilevered roofs. These requirements can be ignored where it can be shown that water from negative or back slopes will not adversely affect supporting elements or adjacent supported elements. Maintaining a positive roof slope will minimize the possibility of water ingress to supported or supporting elements that may cause premature roofing failure.

The table in Figure 8.19 lists the minimum and maximum roof slopes permitted for common roof types. Note that asphalt and gravel or coal tar and gravel roofs may be of a lesser slope provided that roof drains are installed at the lowest point on the roof. Metal roofing systems designed specially for lower slopes may also be applied if they are installed according to the manufacturer's written instructions.

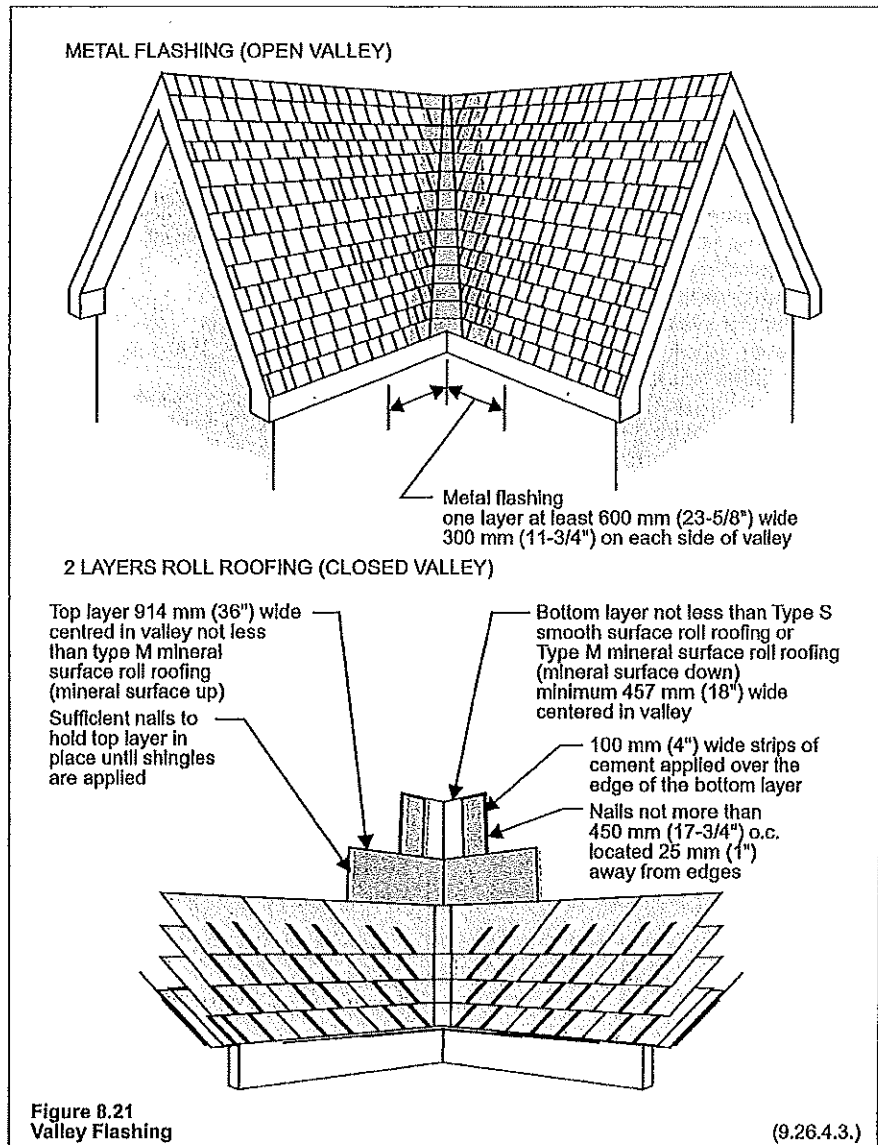
Roofing Types and Slope Limits of Roofs		
Type of Roofing	Minimum Slopes	Maximum Slope
Built-up Roofing		
Asphalt base (gravelled)	1 in 50*	1 in 4
Asphalt base (without gravel)	1 in 25	1 in 2
Coal-tar base (gravelled)	1 in 50*	1 in 25
Cold process	1 in 25	1 in 1.33
Clay Shakes	1 in 3	no limit
Asphalt Shingles		
Normal application	1 in 3	no limit
Low slope application	1 in 6	no limit
Roll Roofing		
Smooth and mineral surface	1 in 4	no limit
Selvage asphalt roofing 480 mm wide	1 in 6	no limit
Cold application felt	1 in 50	1 in 1.33
Wood Shingles	1 in 4	no limit
Asbestos-Cement Corrugated Sheets	1 in 4	no limit
Profiled Metal Roofing	1 in 4	no limit
Profiled Metal Shingles	1 in 4	no limit
Slate Shingles	1 in 2	no limit
Clay Tile	1 in 2	no limit
Glass Fibre Reinforced Polyester Roofing Panels	1 in 4	no limit
Modified Bituminous Membranes	1 in 50	1 in 4
<p>* May not be used in conjunction with Type 1 expanded polystyrene insulation.</p> <p>Note: Asphalt and gravel or coal tar and gravel roofs may be constructed with lower slopes than required by Figure 8.17 when effective drainage is provided by roof drains located at the lowest points on the roofs.</p> <p>Profiled metal roof cladding systems specifically designed for low-slope applications are permitted to be installed with lower slopes than 1 in 4 provided they are installed with the manufacturer's written instructions.</p>		
<p>Figure 8.19 Roofing Types and Slope Limits of Roofs (9.26.3.1.)</p>		

FLASHING

The installation of flashing is intended to provide protection for joints, corners, and material intersections and to ensure the integrity of the roof as a water-shedding surface. Flashing is required at the junction between roofs and walls that rise above the roof. Flashing must also be applied between roofs and guards that are connected to the roof by more than posts or pickets. Flashing materials in roof surfacing applications must comply with the requirements set out in Figure 8.20.

When roofing planes intersect to form a valley, the intersection must be flashed even when continuous sheathing is used. Flashing in a closed valley, where the flashing is not exposed, must be sheet metal, composite membranes (such as polyethylene and bitumen), one layer Type S roll roofing, or one layer Type M mineral surface roll roofing.

Flashing in an open valley, where the flashing is exposed, must be either sheet metal or a layer of Type S smooth roll roofing or Type M mineral surfaced roofing topped with a second layer of mineral surfaced Type M in accordance with the sizing and attachment requirements illustrated in Figure 8.21.



Materials	
Material	Minimum Thickness mm (mil)
Sheet Lead	1.73 (68)
Galvanized Steel	0.33 (13)
Copper	0.33 (13)
Zinc	0.35 (14)
Aluminum	0.48 (19)
Figure 8.20 Materials (9.26.4.2.)	

The intersection of shingle roofing and masonry, including chimneys and parapets, requires flashing. Figures 8.22 to 8.25 include a number of details with minimum dimensional requirements for flashing at the edge of a slope and at the top and the bottom of a slope.

It is very important that a roof sloping away from a masonry wall is flashed to the inside up under the sheathing paper to ensure that any condensation within the wall is shed out onto the roof.

A roof must not slope directly perpendicular into a wall. It may slope at an acute angle to it to ensure that water will not collect and leak into the roof space.

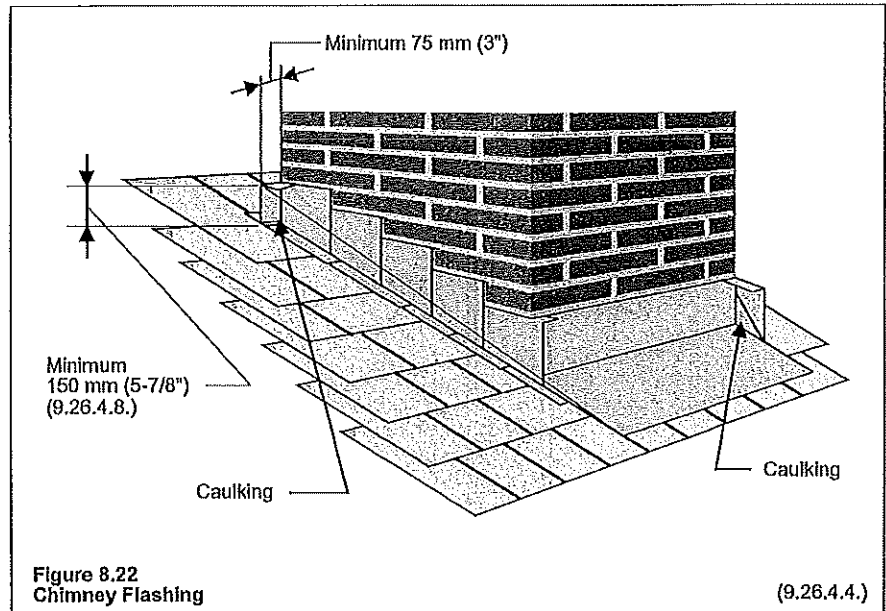


Figure 8.22
Chimney Flashing

(9.26.4.4.)

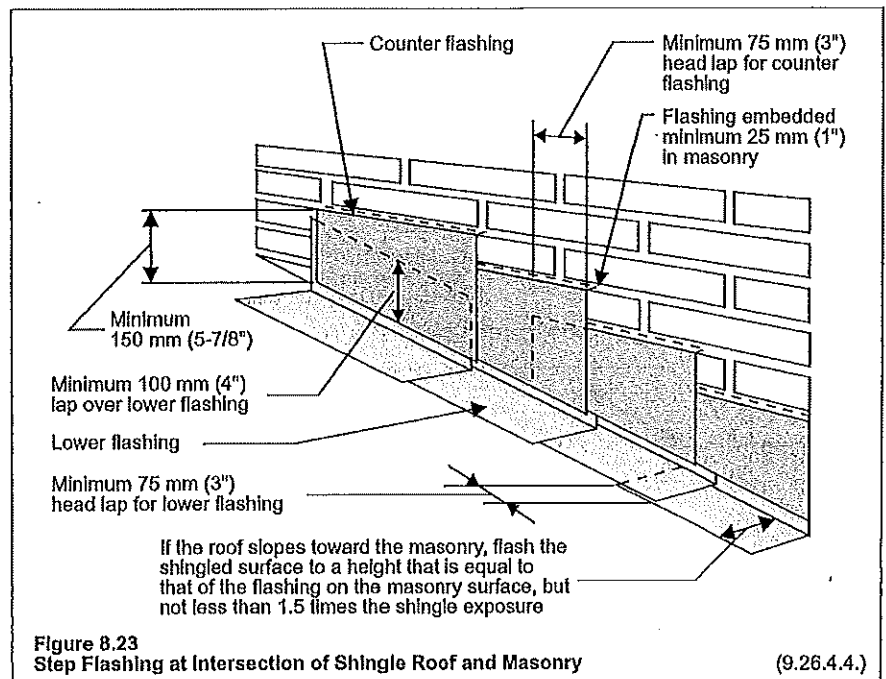


Figure 8.23
Step Flashing at Intersection of Shingle Roof and Masonry

(9.26.4.4.)

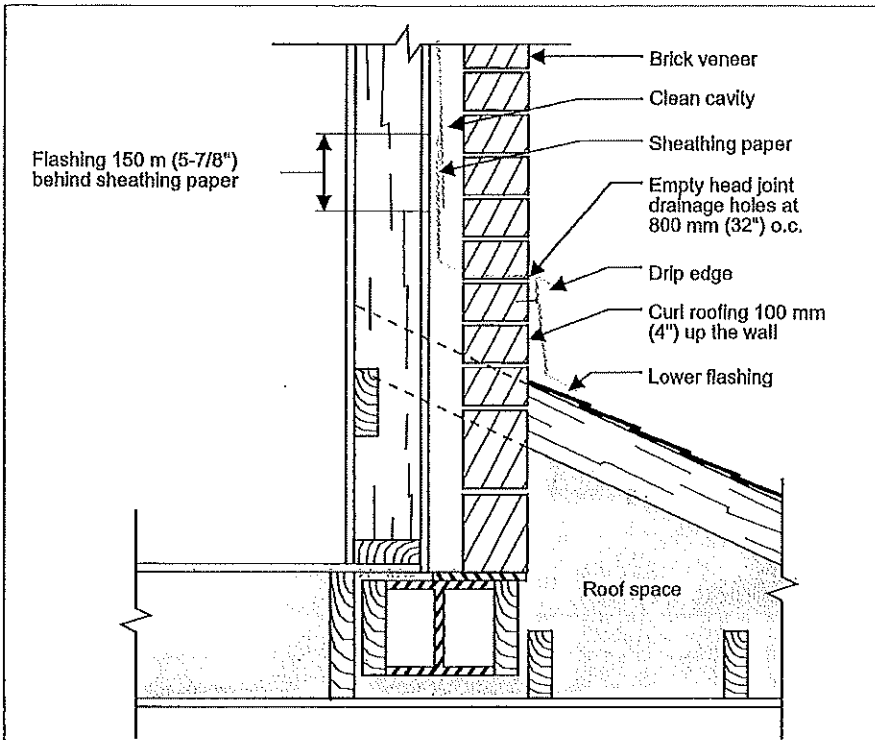


Figure 8.24
Flashing of Roof Sloping Away from Masonry Wall

(9.26.4.4.)

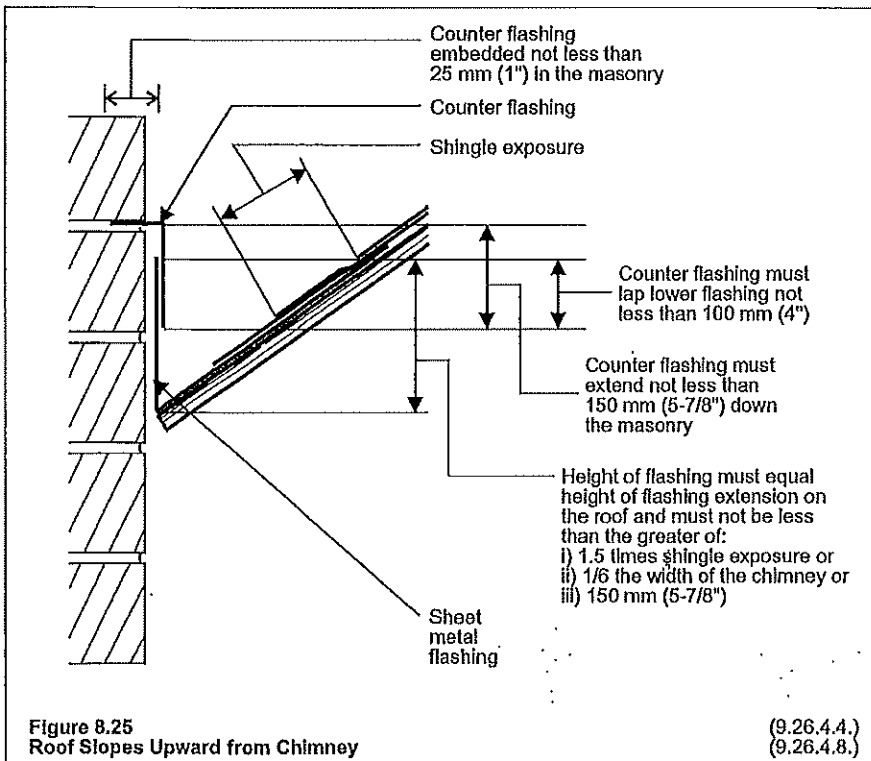


Figure 8.25
Roof Slopes Upward from Chimney

(9.26.4.4.)
(9.26.4.8.)

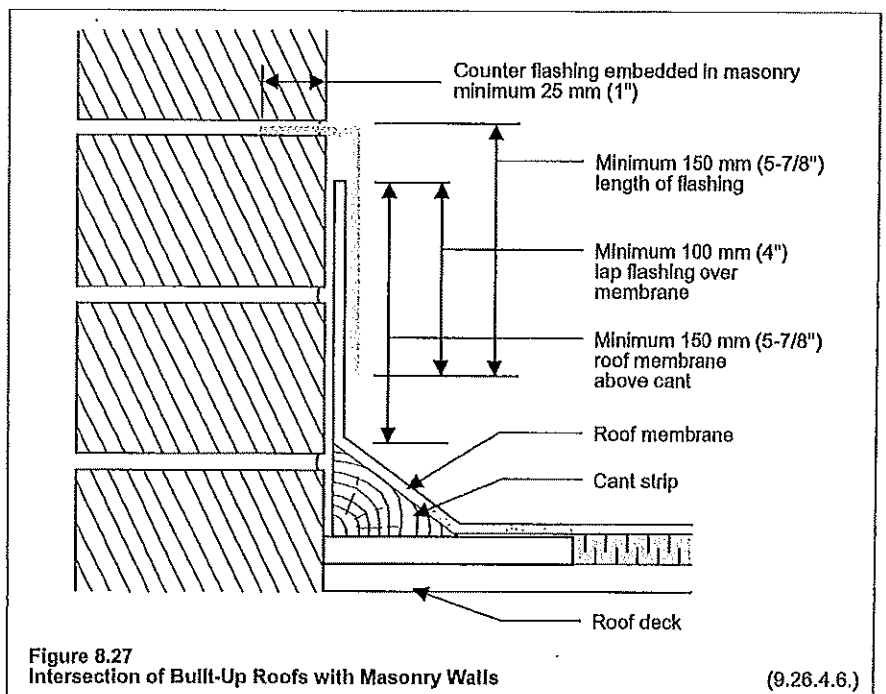
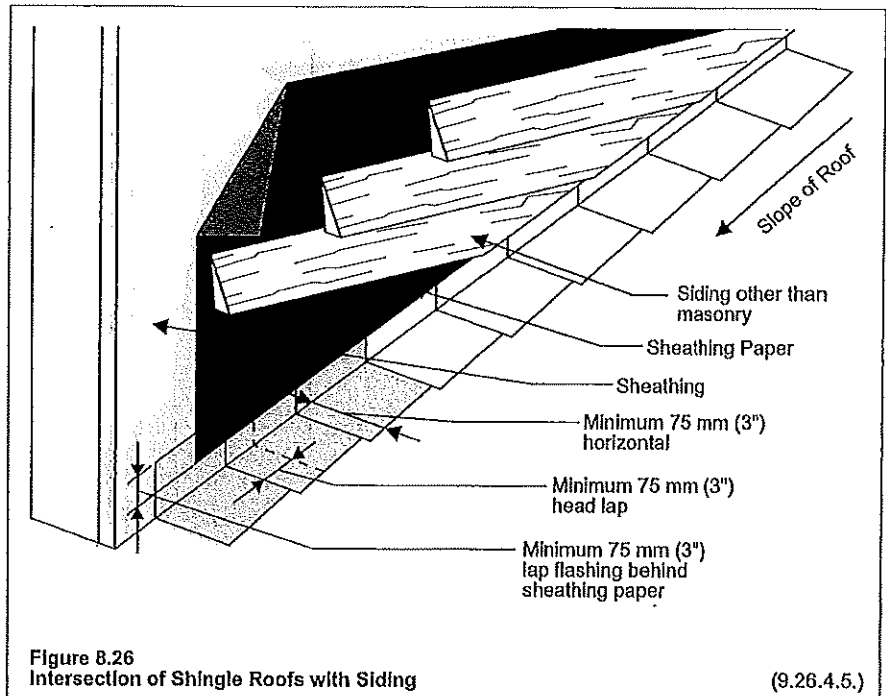
Where shingle roofs intersect with siding or stucco finish the flashing must be installed up behind the sheathing lapping. Figure 8.26 shows the required lapping of the flashing and the minimum dimensions to ensure good water protection.

The intersection of built-up roofs with masonry walls and chimneys must have a cant strip. The roofing material is then mopped up over the strip up the wall at least 150 mm (5-7/8"). Flashing must be embedded into the wall as shown in Figure 8.27 to the minimum dimensions shown.

Intersections of built-up roofs and siding or stucco finishes must be provided with a cant strip and the bitumen mopped up onto the sheathing beneath the sheathing paper at least 150 mm (5-7/8") above the cant strip as shown in Figure 8.28.

Flashing for the edge of built-up roofs is presented in Built-Up Roofing later in this Chapter of the Guide.

Chimneys are required to have saddles constructed in conformance with requirements found in Article 9.26.4.7. of the Code, if they are at least 750 mm (30") wide facing the direction of the roof slope. Figure 8.29 illustrates the flashing methods for chimney saddles. Flashing for chimneys that are not wider than 750 mm (30") must be flashed as is also described above for masonry intersecting a downward sloping roof.



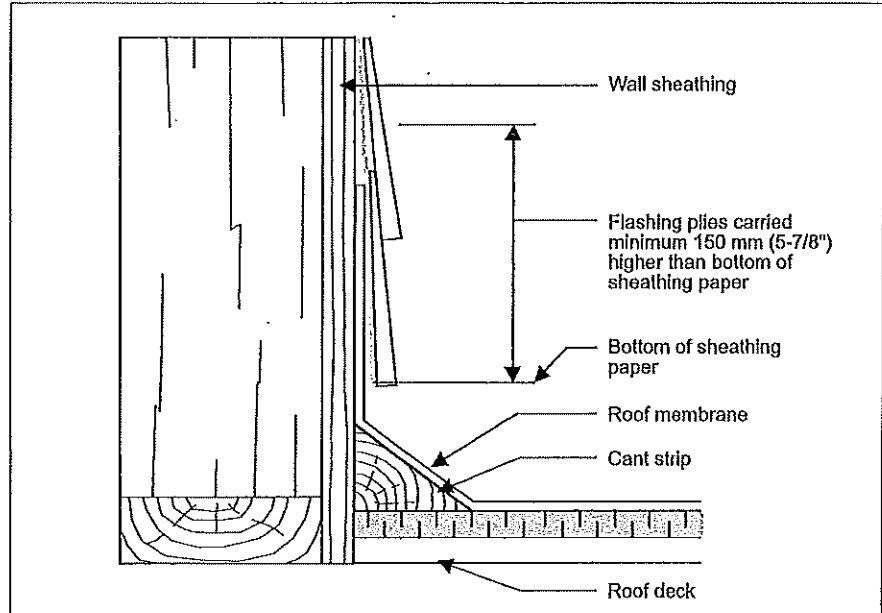


Figure 8.28
Intersection of Built-Up Roofs with Non-Masonry Walls

(9.26.4.7.)

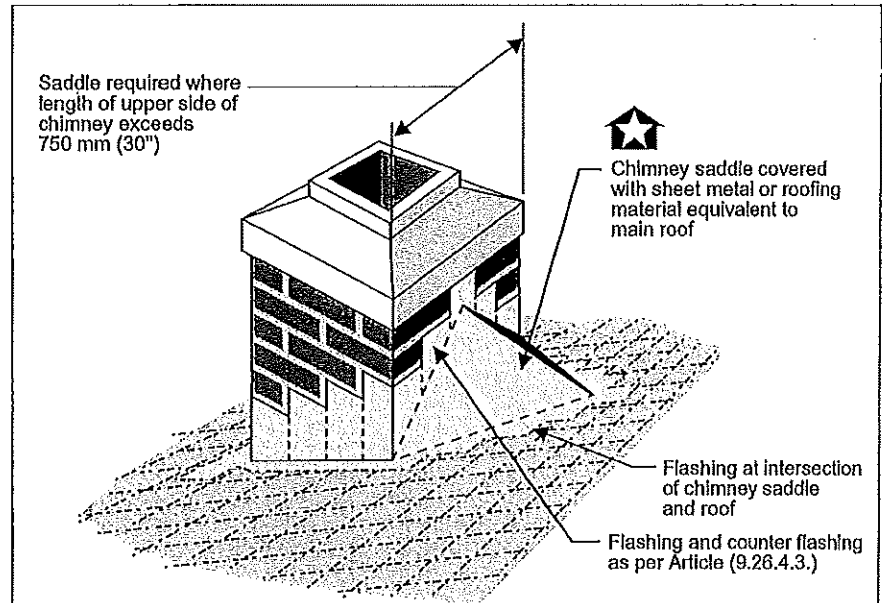


Figure 8.29
Chimney Saddle

(9.26.4.8.)

EAVE PROTECTION AND UNDERLAY FOR SHINGLES AND SHAKES

Eave protection that complies with Figure 8.30 is required unless:

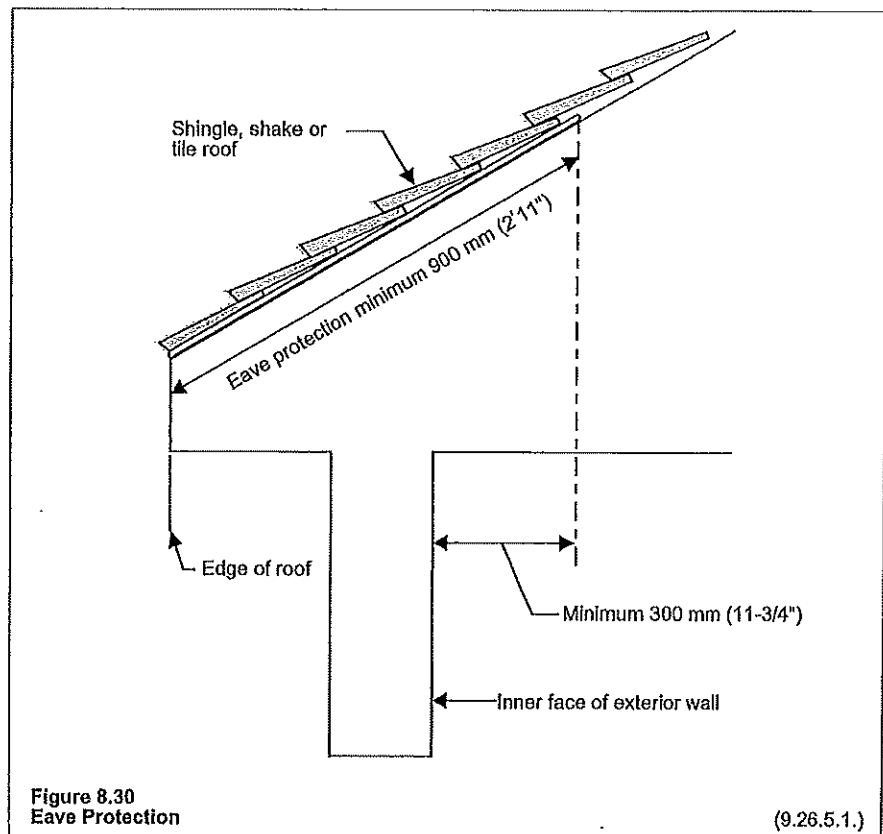
- It is over an unheated garage or where the roof extends more than 900 mm (2' 11") from the interior wall face to the edge of the roof measured along the roof slope,
- the roof slope is less than 1 : 3 and asphalt shingles are laid in cement, or the roof slope is greater than 1 : 1.5, or
- the building is sited in a region with 3500 degree days or less.

Materials for use as eave protection can be one of:

- No. 15 asphalt-saturated felt laid in two plies lapped at least 480 mm (18-7/8") and cemented together,
- Type M or S Roll roofing lapped at least 100 mm (4") and cemented together,
- glass fibre or polyester based sheets, or
- self-sealing composite membranes coated with a modified bituminous material.

Underlay for shingles and shakes when used must be:

- an asphalt-saturated sheathing paper of at least 0.195 kg/m^2 (4 lbs/100 ft²),
- No. 15 plain or perforated asphalt-saturated felt, or
- underlay for wood shingles and shakes must be a breathable type.



ASPHALT ROOF SHINGLES

Slopes greater than 1:3

Roofs with a slope of 1:3 or greater require that shingles be laid at least 2 shingles thick over the entire roof surface not including cutouts. No fewer than 4 fasteners must be provided for every 1 m (3' 3") of shingle width. A narrower shingle requires proportionately fewer fasteners. Fasteners may also be reduced when shingles incorporate interlocking devices. All fasteners must be located within 25 mm (1") to 40 mm (1-9/16") of the edge of the shingle and at least 12 mm (1/2") away from any cutaways or cutouts. Head laps for asphalt shingles are a minimum of 50 mm (2"). Refer to Figure 8.31 for illustrations of these requirements.

Starter strips must conform to the illustration in Figure 8.32 except that starter strips may only be omitted if the eave protection is not less than a Type M mineral faced roll or a composite polyethylene bituminous self-sealing membrane.

All shingle tabs must be secured with spots of plastic cement not greater than 25 mm (1") in diameter under the centre of each tab as shown in Figure 8.31. This requirement is satisfied by using self-sealing shingles. Any approved interlocking device would also be sufficient.

Shingles at hips and ridges must extend 100 mm (4") on both sides of the centreline and must be lapped at least 150 mm (5-7/8") to ensure a tightly fit edge that will not be pulled away. Shingles on ridges and hips must be fastened within 25 mm (1") of the edges and the exposure line of the butt end of the next higher course of shingles.



Better Building Note

Normal sloped roofs can have low sloped sections at hips or valleys, appropriate application of shingles in these low slope situations is necessary.

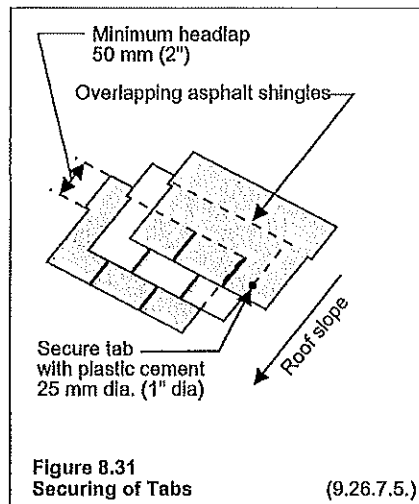


Figure 8.31
Securing of Tabs (9.26.7.5.)

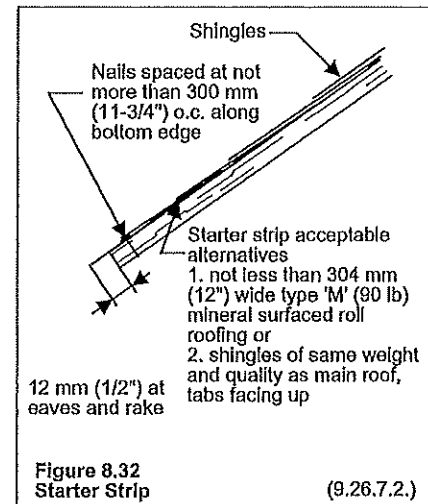


Figure 8.32
Starter Strip (9.26.7.2.)

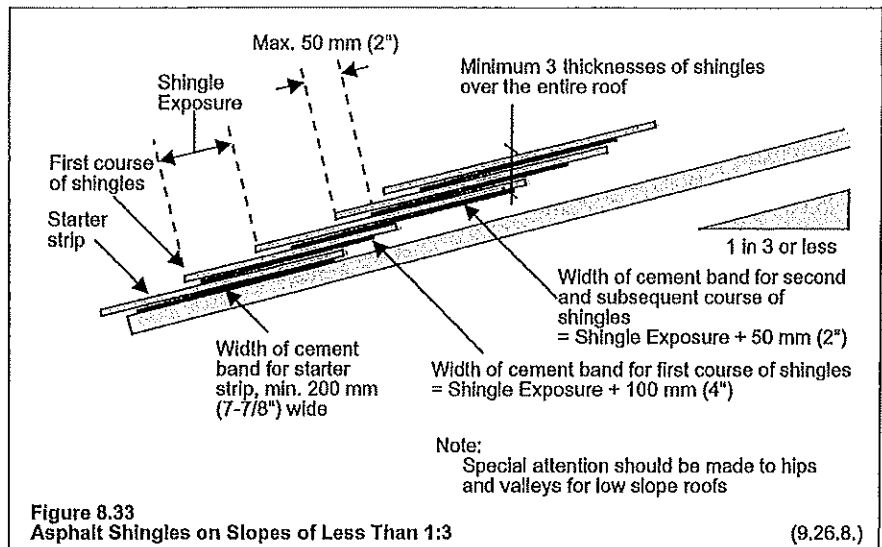


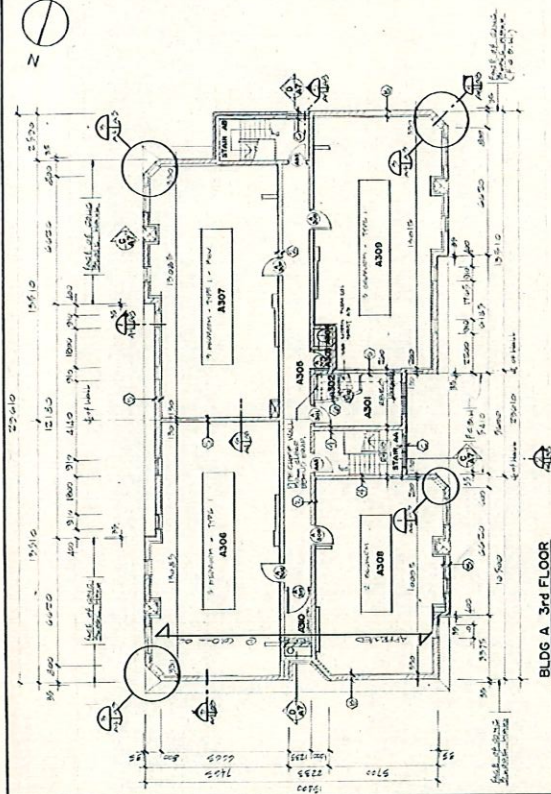
Figure 8.33
Asphalt Shingles on Slopes of Less Than 1:3 (9.26.8.)

Slopes less than 1:3

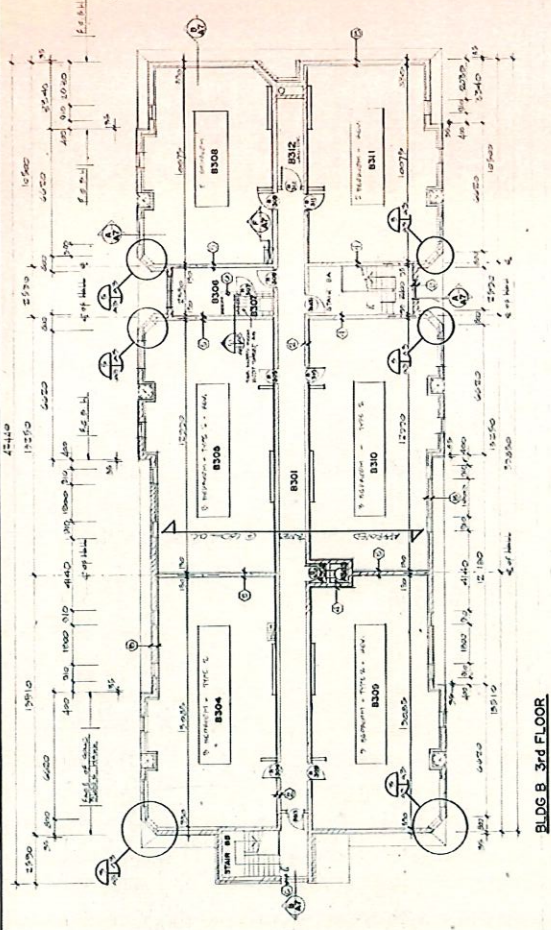
Asphalt shingles applied to roofs on a slope of less than 1:3 are required to be at least 3 shingles thick over the entire roof not including cutouts. Starter strips must be the same as for roofs of greater than 1:3 slope, but the starter strip material must be embedded in a cement band at least 200 mm (7-7/8") wide. The first shingle course must be secured with a continuous band of cement that conforms to Figure 8.33. The successive courses are also attached with cement. All tabs for the shingles must be secured with a cold application of cement of 0.5 L/m² (1 Gal/100 ft²) of cemented area or a hot application of asphalt of 1 kg/m² (0.21 lbs/ft²) of cemented area.

Shingles applied on hips and ridges must be at least 300 mm (11-3/4") wide providing triple coverage and should be centred. The shingles must be cemented with fasteners located at least 40 mm (1-9/16") from the butt end of the overlying shingle and 50 mm (2") from the edge.

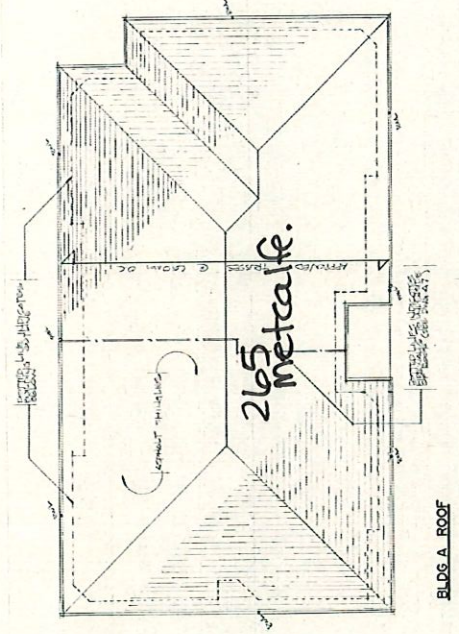
Insulated asphalt siding applications require a 10 mm (3/8") air space behind them to provide ventilation. Refer to Chapter 13, Insulation, Air Barriers and Vapour Barriers of this guide for further information.



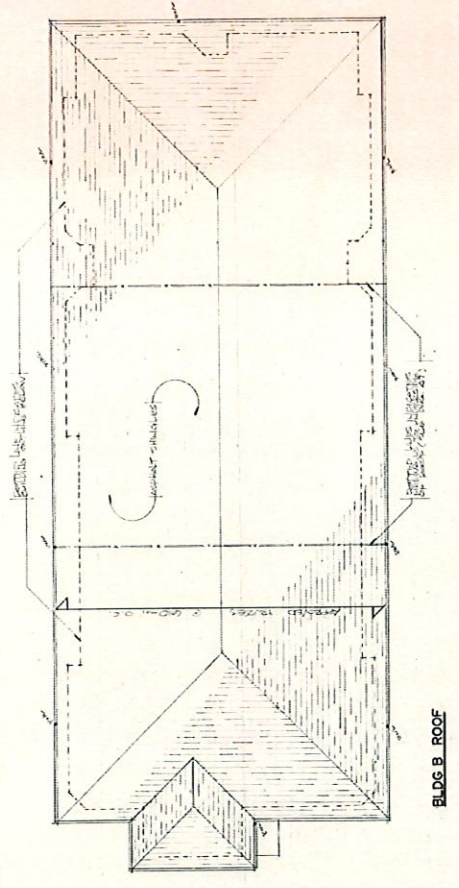
BLDG A 3rd FLOOR



BLDG B 3rd FLOOR



BLDG A ROOF



BLDG B ROOF

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