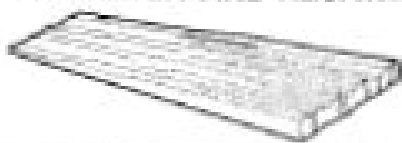
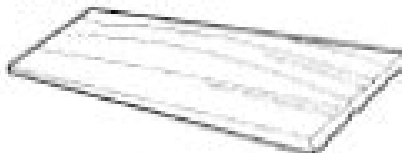


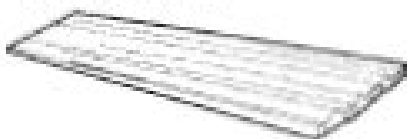
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These manuals can be ordered below. It can be used on its own or as part of the Standard Form of Warranty. It has been extensively revised to reflect the roofing industry today, with now twice the content of the previous edition. The current edition of the manual includes Also useful to architects, engineers, specifiers, and building owners. It provides the theoretical and technical information required to perform the tasks set out in the national training standards for both apprentices and journey persons. It supplements existing roofing training material and current methods. It is an ideal reference for use on the job site and to supplement other information that roofers require to do their jobs safely, effectively and efficiently. Uptodate knowledge helps our members ensure that Canada's roofing industry is progressive and well informed. We do this in a variety of ways, including Click on this section to order your complete printed set. To prevent automatic queries by computer programs, Linguee only allows a certain number of queries per computer. For users with disabled Javascript, this number is much lower than for those with enabled Javascript. The following steps may be helpful to prevent your computer from being blocked again enable Javascript in your browser settings, wait for a few hours, and then try using Linguee again. The publication, CRCA Specification Manual, includes information on newly introduced roofing assemblies, including vegetated roofs and photovoltaic PV installations. Included in the comprehensive manual for architects, specifiers, and contractors are 175 drawings and 30 specifications for roofing assemblies. Register here Your account gives you unlimited free access to our Ebook Collection, Newsletter Archives and our Digital Editions of Construction Canada. The RPM also contains the official list of materials specifically accepted for use in a RoofStarGuaranteed Project the Accepted Materials.<http://sera-forage.com/userfiles/di-box-behringer-manual.xml>

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For an understanding of the nomenclature used in the RPM, see Numbering System below. The four classes are described below. We visually separate Standards from both Guiding Principles, Recommendations and Reference material, in an effort to clarify for the reader what is mandatory. Guiding Principles also include those parts of the Roofing Practices Manual that pertain to how the RoofStar Guarantee Program is administered. The reader is nevertheless strongly urged to understand and apply recommendations when specifying a RoofStar Guarantee or when performing work that must conform to the RoofStar Guarantee Standards. Each Standard is particular to a System, and the Standard is further divided by a numbering system that is parallel among all divisions, systems and standards. The detailed provisions are indicated by numbers in brackets, and broken down by Sentence, Subsentence, Clause and Subclause. The nomenclature of the RPM can be illustrated this way The RoofStar Guarantee is issued under the RoofStar Guarantee Program by the RGC RCABC Guarantee Corp., also referred to as the Guarantor . In this Manual, the terms Guarantor, RoofStar Guarantee Program and RGC will be used interchangeably, and shall be understood to mean one and the same thing. Because the Manual changes periodically, the reader is responsible to remain current with the latest iteration of the Manual. Therefore, the Design Authority must also look to other related standards, Codes and design guidelines for a complete understanding of the work to be specified. The RGC accepts no responsibility for the failure of any party to exercise prudence and Due Diligence in a design. However, should a conflict arise. Low slope roofing includes water impermeable, or weatherproof, types of roof membranes installed on slopes less than or equal to 2:12. Steep slope roofing includes watershedding types of roof coverings installed on slopes

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This volume replaces The NRCA The new volume provides up to date NRCA best practice guidelines for the design and installation of membrane roof systems. Some specifiers and manufacturers apply this term to adhered applications of single ply roof. NRCA recommends the term fully adhered be. Commonly, where temporary roof systems are specified, they are bituminous. A temporary roof system may function as a vapor retarder in a finished roof. This appendix provides design guidelines for temporary roof systems. NRCA approached lightweight insulating. NRCA added recommendations for designs where an. This update was based on NRCA's Guidelines for. NRCA considers manufacturers factory applied plastic. Also in Chapter 4, sections discussing expanded. NRCA stresses its concern with fire safety and prevention during the application of. The potential for fire is particularly concerning during the. NRCA considers the. It may be installed. Asphalt core boards are not intended. The applicable material. NRCA recommends designers determine the required. This appendix provides information about determining design wind. It has been updated to address changes in wind design. NRCA approached RCMA with a. In sections addressing. Chapter 9 includes. Chapter 10 references New Appendix. New figures illustrate NRCA recommendations for base flashing securement at stud walls see Figure 1. Two new details address roof drain. In addition to Appendix A1 Wind Uplift and Appendix. Instead, the 2019. Hard copies also can be purchased. Nonmembers may purchase a hard or electronic. Member employees can download PDF copies. Please log in to leave a comment. There are two types of roofs flat and sloped. Most houses have sloped roofs, while most commercial and industrial buildings have flat roofs. You can work on both types of roof or specialize in just one. You must be very safety conscious and able to work in potentially dangerous places with machines like mechanical saws. Good manual dexterity and an eye for detail are helpful.

You may work both independently or in a team setting. Your work is project based and seasonal, so working hours may not be regular throughout the year. Your wages are affected by location, employer, and the number of hours you work each year. This means that your wage rates and benefits are negotiated on your behalf by union representatives. The Construction Sector Council predicts the job outlook for roofers will be balanced to good over the next 9 years. As a result, roofers are typically busy even when new construction activity slows. With a Red Seal, you can work in this trade anywhere in Canada. You can become certified by completing a three year apprenticeship program through BC's Industry Training Authority ITA. Apprenticeship programs involve a combination of work experience and technical training. You must find an employer who is willing to sponsor you in the program. You also receive the Red Seal endorsement. This includes completing 5,400 hours work in the trade and successfully writing the Interprovincial Red Seal exam. Check the job postings daily, the careers section in the Vancouver Sun on Wednesdays and Saturdays, and in The Province on Sundays. The resources below help you with finding jobs in this

“hidden” job market. Contact them directly to find out if they’re hiring. In the top search box enter “roofing” and click SEARCH. Select the appropriate headings. Lower down, select the Province, choose the cities, and click the “View Results” button. NOTE You can access this database from a Library computer. If you are using a computer from outside the Library, you will need a Vancouver Public Library card to login to this database. After clicking on the database name, you will be asked to enter your library card number and PIN usually last four digits of your telephone number. Networking, working as a volunteer or registering with a temporary employment agency are good ways of helping you find jobs and meet people in your industry.

They may know someone who is hiring. Working as a volunteer, attending events, and joining clubs and associations are good ways to gain “Canadian experience.” They are also good ways to meet people to learn about the local job market. You are also able to transfer your skills to related trades, such as carpentry or sheet metal work. COVID19 Get the latest updates or take a selfassessment. JavaScript is required to view this site Ontario.ca needs JavaScript to function properly and provide you with a fast, stable experience. To have a better experience, you need to Go to your browsers settings Enable JavaScript JavaScript est necessaire pour ce site Le site Ontario.ca exige JavaScript pour fonctionner comme il faut, avec rapidite et stabilite. Learn about the browsers we support. Vous utilisez un navigateur desuet qui n’est plus accepte par Ontario.ca. Les navigateurs desuets ne disposent pas de caracteristiques securitaires permettant d’assurer la securite de vos renseignements. En savoir plus sur les navigateurs que nous supportons. Why trust your most valuable asset to anyone else. About Us Founded in 1886, GAF is North Americas largest roofing manufacturer. An Americanowned company with dedicated inspectors, GAF is known for Advanced Quality, Industry Expertise, and Solutions Made Simple. With our full line of topquality roofing products, industryleading guarantees, and expert tools and resources, GAF makes it easy for you to select the right roofing solution for your needs. Its why property managers nationwide trust us to help them make their best roofing choice. Use the GAF Roof Advisor to find the roof solutions specific to your building. Answer 15 basic questions and GAF will recommend your top three roof solutions. Resources GAF Roof Advisor Four steps to Maximizing Your Roof Investment For U.S.

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Click the links below for the Architects and Specifiers Portal, brochures, codes, specifications, application instructions, Safety Data Sheets, and more. No matter your roofing challenge, we can help. You can stay up to date on all the latest happenings at GAF by reading our press releases, visiting us on Facebook, following us on Twitter, and more. Resources GAF Press Room Facebook Twitter Educational Opportunities GAF offers a wide range of educational opportunities for commercial property owners and other industry professionals. Click on the following links to access over a century of roofing expertise. Resources YouTube For U.S. use only unless otherwise indicated CARE GAF Video library For U.S. use only unless otherwise indicated CONTACT GAF Find information on products, warranties, installation, residential and commercial field offices, and more. Contact GAF PROFESSIONAL INSTALLATION For peace of mind choose a GAF factorycertified roofing contractor. GAF is happy to share our website content with you through our free media sharing service. The quantities of asphalt roofing products produced and shipped are used as an indicator of the economic condition of this industry and trends in the housing market, as an input to Canada's Gross Domestic Product and as an input into macro and microeconomic studies to determine market shares and industry trends. Data are used by the business community, trade associations including the Canadian Asphalt Shingle Manufacturers Association, federal and provincial departments and international organizations. The observed population is made of the establishments in the target population that have the highest revenues those establishments account for more than 99% of the total revenue generated by the industry. Regular dialogue is maintained with the association and the respondents, and every effort is made to ensure that the questions asked are relevant and can be answered by the manufacturers.

Sampling and subsampling Sample was determined by selecting the most important establishments allowing to cover 99% of the industry total revenue. The sample size for reference period January 2020 is 12 establishments. Data capture and preliminary editing are performed simultaneously to ensure validity of the data. Businesses from whom no response has been received or whose data may contain errors are followed up by telephone or fax. Under normal circumstances, data are collected, captured, edited, tabulated and published within 4 weeks after the reference month. Data that fail the edits are subject to manual inspection and possible corrective action. In addition, subject matter experts analyse the data at a more aggregate level to detect and verify any large month to month or year over year changes for the industry. Many methods of imputation may be used to complete a questionnaire, including manual changes made by an analyst. The automated, statistical techniques used to impute the missing data include replacement using historical data with a trend calculated, when appropriate and replacement based on known data relationships for the sample unit. Usually, key variables are imputed first and are used as anchors in subsequent steps to impute other, related variables. Estimation of totals is done by simple aggregation of the values of all estimation units that are found in the domain of estimation. Estimates are computed for one domain of interest which is Canada, based on the most recent classification information available for the estimation unit and the survey reference period. It should be noted that this classification information may differ from the original sampling classification since records may have changed in size, industry or location. Changes in classification are reflected immediately in the estimates.

Information available from other sources such as the Monthly Survey of Manufacturing or MSM record number 2101, the Building Permits Survey record number 2802, the media, other government organizations, and industry associations are also used in the validation process. Various confidentiality rules are applied to all data that are released or published to prevent the publication or disclosure of any information deemed confidential. If necessary, data are suppressed to prevent direct or residual disclosure of identifiable data. Confidentiality analysis includes the detection of possible direct disclosure, which occurs when the value in a tabulation cell is composed of a few responses or when the cell is dominated by a few companies. Revisions are disseminated in subsequent periods and reflected in the CODR Common Output Data Repository. Since data are

collected from all Canadian producers of asphalt roofing products as defined in the observed population, the resulting estimates are not subject to sampling error. However, the results are still subject to the nonsampling errors associated with coverage, nonresponse, inaccurate reporting, and processing. Errors relating to coverage and nonresponse can be measured. All attempts are made to control inaccurate reporting and processing errors. Response rate The collection response rate for this survey for the 12 months of 2019 is set at 99.07%. Nonresponse bias Some respondents may be unable to provide data for numerous reasons i.e., fire, theft, strike, economic hardship, etc., while others may be late in responding. To minimize nonresponse, delinquent respondents are followed up rigorously by phone or fax. Data for nonresponding units are imputed using industry trends and other related information. Data are revised at a later date, if completed questionnaires are received after the end of a collection cycle.

Nonresponse rate is calculated using the number of nonresponses in the year divided by the number of total expected responses in the year. Coverage error Coverage errors consist of omissions, erroneous inclusions, duplications and misclassification of units in the survey frame. Statistics Canadas Business Register BR provides the frame for the Asphalt Roofing survey. The BR is a data service centre updated through a number of sources including administrative data files, feedback received from conducting Statistics Canada business surveys, and profiling activities including direct contact with companies to obtain information about their operations and Internet research findings. Using the BR will ensure quality, while avoiding overlap between surveys and minimizing response burden to the greatest extent possible. Other nonsampling errors These errors may occur at various stages of processing such as coding, data entry, verification, editing, weighting, and tabulation, etc. Nonsampling errors are difficult to measure. More important, nonsampling errors require control at the level at which their presence does not impair the use and interpretation of the results. Measures have been undertaken to minimize the nonsampling errors. For example, units have been defined in a most precise manner and the most up-to-date listings have been used. Questionnaires have been carefully designed to minimize different interpretations. As well, detailed acceptance testing has been carried out for the different stages of editing and processing and every possible effort has been made to reduce the nonresponse rate as well as the response burden. Is there information outdated. Cant find what youre looking for. CDC twenty four seven. Saving Lives, Protecting People Our present society, however, requires that a home provide not only shelter, but also privacy, safety, and reasonable protection of our physical and mental health.

A living facility that fails to offer these essentials through adequately designed and properly maintained interiors and exteriors cannot be termed "healthful housing." These are some of the elements that the housing inspector must examine when making a thorough housing inspection. Click here for the key to Figure 6.2. The figures show the complexity and the numerous components of a home. These components form the vocabulary that is necessary to discuss housing structure inspection issues. All fireboxes are not equipped with an ash dump. The spacing between the balusters should be less than 4 inches to prevent small children from getting stuck between the balusters. Balusters are considered a safety item and provide an additional barrier. The intent is to conceal the joint between the floor and wall finish. Basement windows are occasionally below the finish grade level and will be surrounded on the exterior by a window well. They are most commonly constructed of wood solid or louvered panels or plastic. Originally they were designed to close and secure over the windows for security and foul weather. Most shutters now are more likely decorative pieces that are secured to the house beside the windows. It is sometimes used as a cap trim for wainscoting see wainscoting . Most homes will have a terra cotta tile flue or a metal flue. They are usually located in the middle to upper third portion of the rafters. It is also known as a collar beam or collar brace. It creates a solid level surface to walk and work on. It also provides lateral compression resistance for the foundation walls, preventing soil pressure from outside the foundation from pushing the foundation walls and footings inward. The tile can be individual

sections of clay or asphalt tubing or, in more recent construction, a perforated plastic drain tile that is approximately 4 inches in diameter. The drain tile leads either towards a sump or to an exterior discharge away from the house.

The platform should be wide enough to allow someone to stand on the platform while opening an outward swinging door such as a storm door even if one is not present. Its primary function is to protect the shell of the house from the elements. The choice of siding materials varies widely to include wood, brick, metal, vinyl, concrete, stucco, and a variety of manufactured compositions such as compressed wood, compressed cellulose paper, fiberreinforced cement, and synthetic stucco. The gutter is usually attached at this location. The gutter is usually attached to this board at the eaves. The most common types of finishes are carpeting; hardwood flooring; ceramic, composite, or laminate stone tile; parquet panels; or vinyl sheet flooring. The firebox leads directly to the fireplace flue. The firebox is constructed of fire or refractory brick set in fireclay or reinforced mortar in traditional masonry fireplaces. The firebox may also be constructed of metal or ceramiccoated metal panels in more modern prefabricated fireplaces. The walls of the firebox are usually slanted toward the living space both to direct smoke up toward the flue and to reflect heat into the room. On a fireplace that is located inside the house, the cleanout door is usually located in the lowest accessible level of the house such as the basement or crawl space. On a fireplace that is located at the outside of the house, the cleanout door will be located at the exterior of the chimney. Not all fireplaces are equipped with a cleanout door. The flashing is mainly intended to prevent water entry and is usually made of rubber, tar, asphalt, or various metals. Joists are usually made of engineered wood Ibeams or 2 x 8 or larger lumber. The foundation is wider than the foundation wall to spread out the load it is bearing and to help prevent settling. A gable is the triangular end of an exterior wall above the eaves. Typical garage doors consist of multiple jointed panels of wood, metal, or fiberglass.

A larger or principal beam used to support concentrated loads at isolated points along its length. The gravel serves a dual purpose of breaking surface tension on the concrete slab and providing a layer that interrupts capillary action of subsurface moisture from reaching the concrete slab. Typically, a polyethylene sheeting will be installed between the gravel fill and the concrete slab for further moisture proofing. Usually located at the eaves of a house and connected to a downspout. The primary purpose of the gutters and downspouts is to carry roof water runoff as far away from the house as possible. The most common form of insulation is fiberglass, whether in batts or blownin material, along with cellulose, rigid foam boards, sprayedin foam, and rock wool. Depending on the size of the opening, there may be several jack studs on either side of the opening. A vapor barrier is also installed in crawl space areas to prevent moisture vapor from entering up through the ground. The newel post is securely anchored into the underlying floor framing or the stair stringer to provide stability to the handrails. Lath has been replaced by gypsum board in most modern construction. Rafters directly support the roof sheathing and create the angle or slope of the roof. This material most commonly consists of plywood OSB or horizontally laid wood boards. The sidewalk can be constructed of poured concrete, laid stone, concrete pavers, or gravel contained between borders or curbs. This barrier prevents soil particles from blocking the movement of groundwater to the drain tile. The stair rail is used to prevent falls and to provide a means of additional support when walking up or down the stairs. In newer construction a metal lally pronounced "lolly" column is commonly used, as well as 4 x 4 or 6 x 6 inch wood posts. It is usually produced naturally by the breakdown of animal and vegetable matter that has been buried and compressed deep underground.

Tar is also manufactured—a hydrocarbon byproduct or residue that is left over after the distillation of petroleum. It is commonly used as a sealant or patch for roof penetrations, such as plumbing vents and chimney flashing. Tar is also used as a sealer on concrete and masonry foundation walls before they have been backfilled. Most construction practices require the top plate to be doubled in

thickness. Fiberglass batts are the most common form of wall insulation. The window well surround is normally constructed of formed corrugated galvanized metal, builtup masonry, or pressure-treated wood. It removes the products of combustion from solid, liquid or gaseous fuel. The liner, made of terra cotta or metal, protects the brick from harmful smoke gases. It protects the brick from weather. In newer construction, fireplaces are constructed of prefabricated metal inserts. In newer construction, roof sheathing is composed of sheets of plywood, or oriented strand board OSB. In newer construction, plastic-type material have replaced tile. Members at the middle or third points of joist spans to brace one to the next and to prevent their twisting. Building paper is also used as a tarred felt under shingles or siding to keep out moisture or wind. In newer construction, vinyl, aluminum, or fiber cement siding and stucco are more prevalent. In newer construction, plaster sheetrock 4 x 8 foot sheets have replaced lath. Usually of steel, but also of wood. Also called a light well. It usually has a pane or panes of glass and is set in a frame or sash that is generally movable for opening and shutting. Rock, sand, or gravel are the most reliable foundation materials. Figure 6.3 shows the three most common foundations for homes. Footings are usually concrete; however, in the past, wood and stone have been used. Some older houses were constructed without footings. This type of crack is called a "Z" crack. The foundation walls may be made of stone, brick, concrete, or concrete blocks.