



CALIBER QUALITY ASSURANCE PROGRAM • HANDBOOK PART 2

# Installer SPF Certification

Spray Polyurethane Foam (SPF) Installer Certification Handbook

2026 Edition

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## About This Handbook

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This is the second volume in Caliber's series of handbooks describing the Caliber Quality Assurance Program (Caliber QAP). It sets out the certification scheme, requirements and process for anyone who wishes to become, or remain, a certified spray polyurethane foam (SPF) installer. Volume 1, the Site Quality Assurance Program (SQAP) Handbook, describes the roles and responsibilities of manufacturers, registered contractors and installers. Parts 1 and 2 together form the CALIBER Site Quality Assurance Program Handbooks referred to in, and incorporated into, the Installer and Contractor Agreements.

This edition replaces previous versions. The current edition is always available on our website.

## Who Is Caliber?

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Caliber Quality Solutions Inc. ("Caliber") operates the processes, procedures and personnel that support the Site Quality Assurance Program (SQAP) for building product manufacturers. As the certification body, Caliber is responsible for all activities related to the certification of installers, providing assurance that they are trained, knowledgeable and skilled to install the products.

We are dedicated to improving the quality of installation on sites and to supporting the confidence of all stakeholders in the construction industry. The majority of our services are provided to the spray polyurethane foam industry.

Caliber's certification body is accredited by the International Accreditation Service (IAS) to **ISO/IEC 17024:2026** – Conformity assessment – General requirements for bodies operating certification of persons (IAS PCB-112). Caliber's inspection body is accredited to ISO/IEC 17020:2026 (IAS AA-785).

## Impartiality

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Caliber is committed to impartiality in all its certification and inspection activities. Certification decisions are based solely on the objective evidence of the candidate's competence obtained through the written examination and practical evaluation, and are made by Caliber – not by manufacturers, contractors or trainers.

Caliber does not provide training for the certification it grants. The manufacturers that deliver the prerequisite training have no role in examining, evaluating or certifying, and a trainer may not proctor or evaluate his or her own trainees. Caliber identifies and manages threats to impartiality – including those arising from its relationships with manufacturers, from its own personnel and from financial pressures – through a documented risk assessment reviewed with its Steering Committee, which represents contractors, manufacturers, and industry, building and regulatory interests without any one interest predominating. Caliber's Impartiality Policy is available on [our](#) website.

## Outline of the SPF Certification Scheme

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The National Building Code of Canada and the installation standard for spray polyurethane foam (CAN/ULC S705.2 and S712.2) require polyurethane foam installers to be certified. Certification requires successful completion of a training course, a written examination and a practical evaluation on the product being applied.

Spray polyurethane foam is a site-manufactured material supplied to the certified installer / contractor as two separate chemical components; the final quality of the product depends directly on the skill of the installer. A site quality assurance program is therefore required to give the property owner, the authority having jurisdiction and the design professional assurance of compliance with the installation standard.

Installation requires specialized knowledge, skills and equipment, including an understanding of the health and safety issues of handling the chemicals and of off-gassing during and after installation. The certified installer is responsible for all aspects of on-site installation: safe handling and storage of the material, isolation of the spray area, warning signs while spraying, site housekeeping, and the health and safety of the installer and crew.

This Handbook does not purport to address all the health and safety aspects associated with the products. Anyone using the products is responsible for consulting the appropriate authorities and establishing health and safety practices, in conjunction with applicable regulatory requirements, before use.

## Programs and accreditation status

| Program                                                                                                                                         | Status                                                                                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| Certified Spray Polyurethane Foam Installer – medium- and light-density SPF (NBC 5.3.1.3; CAN/ULC S705.1, S705.2, S712.1, S712.2; CAN/ULC S718) | Accredited certification – ISO/IEC 17024, IAS PCB-112                                            |
| SPF Air Barrier System Installer                                                                                                                | Manufacturer training status – not a certification; requires current SPF Installer certification |
| Registered Apprentice                                                                                                                           | SQAP Program status only – not a certification                                                   |

## Essential learning and skills

The essential learning task list (Appendix G) is derived from CAN/ULC application standards and manufacturers' installation instructions, and is kept current through Caliber's participation in the CAN/ULC task group that maintains the standards. It takes into account a wide range of stakeholder interests, including customers and end users, designers and architects, certified installers, SPF system manufacturers, equipment manufacturers, health and safety agencies, inspections and audits, and trade associations and quality assurance agencies.

## Critical tasks

The certified installer must demonstrate knowledge, skills and competence in all of the following essential learning areas: SPF product knowledge; equipment and start-up procedures; environmental conditions; installation and application; job-site preparation; job-site health and safety; pre-installation verification; troubleshooting; building code; quality control (Appendix H).

## Prerequisites

- Completion of an approved SPF training course delivered by a Caliber QAP manufacturer (see Training).
- A reasonable comprehension of English or French, sufficient to follow safety and installation instructions.
- Physical ability to operate spray equipment safely and to work in personal protective equipment, including supplied-air respirators.
- Employment or engagement by a Registered Contractor, for certified status to be maintained (the SQAP's surveillance operates through the contractor). You may take the examinations before your employment is confirmed.

## Written examination and practical evaluation

The written examination covers the essential learning task list. The practical evaluation assesses whether you have the practical knowledge, hands-on skills and abilities to install SPF; it is conducted at an approved training location, at a contractor's shop using a mock-up wall, or at a job site.

## Training

Candidates must attend a training program offered by a Caliber QAP product manufacturer. Training is delivered by the manufacturer, not by Caliber, and completing it does not confer certification. The manufacturer may send a technical field consultant to follow up at the job site after the in-class training to provide additional hands-on training or review site equipment.

## How to Become a Certified SPF Installer

To achieve certification, each installer completes the following:

1. Obtain and read the current edition of this Handbook and confirm that you understand and are able to perform the tasks required of a certified SPF installer.
2. Register for, attend and complete an approved SPF training course offered by a Caliber QAP manufacturer.

Apply on Caliber's online platform. Your employer – a contractor registered with the program – adds you under its company profile with your name (as on your government photo ID), e-mail and phone number. You are then prompted on the platform to apply: you apply by clicking "I apply for certification" and accepting the declaration and the Installer Agreement (CBI-C-04). Your employer, mailing address, language and the manufacturer products are taken from your employer's profile; you may ask Customer Service for the other examination language or for a specific-needs accommodation before your examination. Your manufacturer confirms your training directly to Caliber. Caliber reviews your application before your examination is scheduled and tells you and your employer of anything missing. Your identity is checked against your photo ID at the examination.

3. Pass the Caliber written examination (pass mark 62 %).
4. Pass the Caliber practical evaluation (pass mark 75 %).

From the moment you apply you are an installer candidate. This is not a certification; Caliber may grant you Registered Apprentice status individually while you complete certification (see Apprentice Status).

Certification is granted by Caliber when steps 3, 4 and 5 are complete and your record is in order. You then receive your certification card (or a certificate of completion – see Certification Card and Certificate) and are listed on the public register.

**Fees:** evaluation, re-examination, renewal and other fees are set out in Caliber's Fee Schedule, available upon request. Taxes are extra; additional fees may apply for job-site or contractor-shop evaluations, remote locations or urgent evaluations.

### Certification by transfer

If you currently hold SPF installer certification from **Urethane Foam Consultants (UFC)** or the **Canadian Urethane Foam Contractors Association (CUFCA)**, you may apply for Caliber certification by transfer without re-taking the written examination and practical evaluation. Caliber has reviewed these schemes and determined them to be equivalent to the Caliber scheme for this purpose. No other certification is accepted for transfer; holders of other certifications follow the standard path.

To transfer, apply on the online platform in the same way (your employer adds you; you accept the declaration and the Installer Agreement), indicate that you hold existing certification, and upload a copy of your current certification card or certificate from UFC or CUFCA showing your name, the issuing body and the issue and expiry dates. Your certification must be current on the date of transfer. Caliber verifies the documents and, if the requirements are met, issues Caliber certification with the same expiry date as your existing certification, after which the standard recertification requirements apply. Transfer does not carry over demerit points, suspensions or complaints from the other body, but Caliber may ask the other body to confirm that your certification is in good standing.

### Approval for an additional manufacturer's product

Product approvals are not chosen by the installer: they follow the manufacturer products purchased by your registered contractor and may be shown on your card. Where a manufacturer requires its own product training, that training must be completed before the product is added.

### SPF installer certification and Product Listings

Spray polyurethane foam products in Canada are demonstrated as compliant to the CAN/ULC material standard through evaluation reports and associated product listing by an approved third party agency. As part of the evaluation report, the foam manufacturer, through its field quality control and training program, must ensure that the product is installed by qualified, certified installers and that field evaluations are carried out by a third-party certification body.

## Training and Examination Registration

### Manufacturer training course

Candidates must attend an approved manufacturer training course consistent with the Caliber QAP certification scheme before completing the written examination and practical evaluation. Approved training courses are offered by the Caliber QAP SPF manufacturers.

### Training course and examination registration

Check the manufacturer training schedule and register early to get your preferred date. The written examination is normally presented at the end of the in-class training course by a Caliber field examiner. The written examination may also be completed online under remote proctoring: Caliber verifies your identity by photo ID on camera, checks your examination environment, and monitors and may record the session. The same rules, time limit, pass mark and security requirements apply. Book a remote session through Caliber Customer Service.

A person who delivered your training course, or who is your employer or supervisor, may not act as proctor or evaluator for your examination or practical evaluation.

### Cancelling and rescheduling a training course

**By the manufacturer:** the manufacturer may cancel a training course before the training. In an emergency, or where the location is unsafe or inaccessible because of severe weather or a natural disaster, the course may be delayed or cancelled; the manufacturer will contact you to reschedule.

**By the candidate:** notify the manufacturer no later than 5 business days before the training if you cannot attend. Emergencies are taken into account and rescheduling is permitted without penalty.

**Failure to attend:** failure to attend a training course may result in a fee unless the training was rescheduled or cancelled according to policy. Requests for an excused absence, with written verification and supporting documents, must reach the manufacturer within 5 business days of the course date. Absence on the day may be excused without penalty for: a traffic accident; a natural disaster or other circumstance clearly outside your control; documented illness of yourself or an immediate family member (medical note required); a death in the immediate family; jury duty or a court appearance; military duty.

### Persons with specific needs

Caliber supports participation by applicants with specific needs. If you have a disability, a medical condition, a language or literacy barrier, or another circumstance that would prevent you from taking the examination or practical evaluation under standard conditions, tell Caliber on the application form or as soon as possible before the examination. Caliber will provide reasonable accommodation – for example additional time, a reader, a large-print or screen-read examination, or an accessible location – provided the accommodation does not compromise the validity of the examination. Requests are treated confidentially and the decision is recorded on your application.

## Written Examination

### Admitting the candidates

Candidates enter and leave the examination room through a single check-in point staffed by one or more proctors, and present photo identification. For remote examinations, identification is shown to the camera and compared with the name on your application.

### What to bring

You must present valid (not expired) government-issued photo ID with signature – for example a driver's licence, passport, citizenship card or other government ID. Register with exactly the name shown on the ID, or you will not be allowed to take the examination. A headshot photo for your certification card is normally uploaded to your record before the examination and is checked against your ID at the examination; if none has been provided, Caliber will take your photo at the examination.

### Arrival time

Arrive (or connect) 15 minutes before the scheduled start. Candidates who arrive 30 minutes or more after the scheduled time may be considered absent at the proctor's discretion.

### Knowledge areas

The written examination covers the critical areas of knowledge each candidate must demonstrate, and is documented proof of the installer's knowledge of installation of the material in accordance with the manufacturer's quality assurance program and CAN/ULC application standards.

| Knowledge area                            | Weighting (%) |
|-------------------------------------------|---------------|
| Spray polyurethane foam product knowledge | 20            |
| Equipment and start-up procedures         | 10            |
| Installation and application              | 30            |
| Job-site health and safety                | 20            |
| Quality control                           | 10            |
| Codes and standards                       | 10            |

The examination is available in English and French. Both versions are developed from the same essential learning task list and are reviewed for equivalence by bilingual subject-matter experts.

### Examination questions

The written examination is in multiple-choice format; each question has one best answer among the options given, and questions relate to the essential learning task list. Sample questions:

1. In regard to the spray polyurethane foam manufacturer, what is the role of Caliber? A. They provide training. B. They are the certification body. C. They represent the manufacturer at the ULC level. D. They are the testing firm. (Answer: B)
2. If temperature \_\_\_\_\_, the viscosity of "A" and "B" thickens, making it harder to pump. A. decreases B. increases C. cavitation D. centipoise (Answer: A)

### Time, pass mark and examination type

The time allotted for the written examination is **1 hour**. The examination consists of **50 multiple-choice questions**. The pass mark is **62 %**. The examination is closed book; no material or device other than those provided by the proctor is permitted.

### During the examination

Remain seated except when given permission to leave by the proctor. Answer every question, even if you are unsure; unanswered questions are scored as incorrect.

### Reporting a problem during your examination

Raise your hand (remote: use the agreed signal) to notify the proctor if: you encounter a problem such as bad lighting, excessive noise or uncomfortable temperature; you feel unwell and cannot continue; you see someone cheating; you need a washroom break (the examination time is not stopped); or you need to leave the room for any other reason.

### Illness during the examination

If you cannot continue, tell the proctor, who will complete an incident report for your file. Consult a recognized medical authority immediately, obtain a medical note, and submit it to Caliber the next day or as soon as possible.

### Interruption by an external event

Report any emergency, including a health issue requiring an ambulance or a security issue, to the proctor immediately. If the fire alarm sounds, evacuate immediately, following the proctor's directions; leave all examination material on your desk and your belongings behind. The proctor keeps candidates together at a safe distance until instructed to return and decides whether the examination resumes. For remote examinations, a loss of the audio / video connection is handled as described under Written examination security.

### Re-examination

A failed written examination may be re-taken once at no additional charge; further attempts are subject to the re-examination fee (Fee Schedule) and Caliber may require you to repeat the manufacturer training first. You must wait at least 1 day between attempts.

### After the examination

If you finish before the end of the examination period, submit your examination and leave the room quietly.

### Written examination security

To ensure the integrity of the certification program, the following measures apply:

- Any material brought into the examination room may be inspected.
- All examination content, including questions, answers and diagrams, is the exclusive and confidential property of Caliber and is protected by copyright; it may not be copied, reproduced, recorded, published, posted, transmitted or distributed in any way.
- You are observed at all times. Remote examinations are conducted with continuous audio and video, with your face and workspace visible and the examination window shared. Caliber may record the session at its discretion. If the connection is lost for more than the time allowed by Caliber's procedure, the attempt is void and a new examination is taken.
- Detrimental behaviour during the training course or the examination may result in invalidation of your results and withdrawal of certification.

- Eating, drinking and tobacco use are prohibited in the examination room; unauthorized paper may not be brought into or removed from the room; you may not leave without the proctor's permission; you must present acceptable photo ID to enter.

### **Examination irregularities**

Although examinations are administered under strict supervision, irregularities may occur. Candidates and others directly implicated in an irregularity affecting the validity of examination results are subject to sanctions, including exclusion from examinations, withholding of results and withdrawal of certification.

### **Grounds for dismissal from the examination**

Candidates must take no action that compromises the integrity or confidentiality of the examination. The proctor may dismiss you for misconduct or failure to comply with warnings, and Caliber may cancel your results or take other action, if there is a reasonable basis to conclude that you have: engaged in dishonest or unethical conduct such as cheating; used an unauthorized copy of the examination; used or attempted to use someone else to take the examination; failed to provide acceptable identification; had access to notes or unauthorized material; given or received unauthorized assistance or used prohibited aids; created a disturbance; removed or attempted to remove examination material in any format; left the room without permission; used electronic devices; or failed to comply with the proctor's instructions and the rules in this Handbook. Any decision may be appealed (see Appeals).

## Practical Evaluation

### Purpose

The practical evaluation assesses the critical knowledge areas and skills each installer must demonstrate. It is intended: (1) to assess whether the candidate has the practical knowledge, skills and abilities to install the manufacturer's SPF and obtain certification; (2) to verify that the SPF is installed safely and in accordance with CAN/ULC S705.1, S705.2, S712.1 and S712.2 (current editions), the manufacturer's application guidelines and the evaluation reports; and (3) to ensure that the installer fully understands his or her obligations under the Quality Assurance Program. The evaluation includes, but is not limited to: documentation; health and safety, including fire safety and spill handling; environmental conditions; quality assurance testing (thickness, density, adhesion, cohesion); application technique; substrate preparation; visual inspection including surface finish; troubleshooting; installer awareness; storage and handling; and waste disposal.

### Arranging an evaluation

The practical evaluation may be held with the manufacturer training course or scheduled by the candidate or contractor later. To schedule directly: (1) contact Caliber Customer Service – full payment secures the booking and additional fees may apply for urgent evaluations or remote locations; (2) prepare by reviewing the training materials, this Handbook and the manufacturer's guidelines, and arrange access to the job site or a mock-up wall. The contractor provides the spray foam rig, test kit and installer PPE unless Caliber advises otherwise.

Remote practical evaluations may be offered where the conditions of Caliber's remote examination procedure can be met: the evaluation is observed live by video, with identity verified on camera; Caliber may record the session at its discretion.

### Practical evaluation knowledge areas

| Knowledge area                                             | Weighting (%) |
|------------------------------------------------------------|---------------|
| Documentation: knowledge of administrative requirements    | 5             |
| Environmental and substrate conditions                     | 10            |
| Quality assurance testing requirements including thickness | 20            |
| Foam application techniques and methodology                | 5             |
| Health and safety                                          | 20            |
| Troubleshooting of the application                         | 20            |
| Storage and handling of the materials                      | 10            |
| Waste disposal                                             | 5             |
| Daily machine start-up and shut-down procedures            | 5             |

The pass mark for the practical evaluation is **75 %**. The practical evaluation is available in English and French.

### Duration

Duration depends on the number of candidates but should not normally exceed one hour per candidate. The evaluator may extend the time for equipment breakdown, weather, substrate preparation or other site issues affecting the evaluation.

### Documents and testing equipment the candidate provides

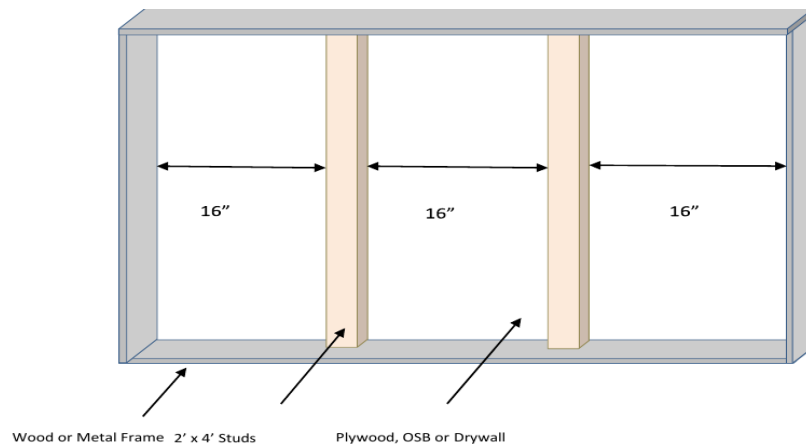
**Documents:** daily work records (DWR); safety data sheets for all materials; technical data sheets for all chemicals on site; job specification (if applicable); job site label.

**Testing equipment:** surface temperature reader; depth gauges; humidity indicator; means to gauge wind speed for exterior installation; infrared surface temperature reader; site test kit meeting CAN/ULC S705.2 (Appendix E).

## Location

The practical evaluation may take place on a real job site or on a mock-up at an approved location. On a job site, at least 6 m<sup>2</sup> (64 ft<sup>2</sup>) of substrate must be available for the evaluation or recertification evaluation – typically interior stud walls, poured concrete, a ceiling or external walls.

Recertification evaluations may be completed at a job site or an approved training centre. Mock-up evaluations at a contractor's shop or warehouse are treated as an actual job site: the CAN/ULC standards, the manufacturer's instructions and the appropriate health and safety precautions apply. The mock-up consists of: (a) at least one 1200 mm (4 ft) wide × 2400 mm (8 ft) high sheet of plywood, drywall or OSB; (b) enclosed by metal or wood framing on four sides; (c) with 2 × 4 studs at 400 mm (16 in.) centres; (d) the other side of the sheathing left open to simulate an external wall application; (e) the installer may be required to spray both sides. The mock-up is not included in the evaluation fee and is not Caliber's responsibility; the Caliber examiner reviews it for acceptability before starting.



## Suspending the practical evaluation

The evaluator may suspend the evaluation if: PPE, SPF equipment or conforming testing equipment is not available; anyone's health and safety is jeopardized; weather or climatic conditions are not acceptable; equipment is unsafe, inoperative or cannot be repaired in reasonable time; the candidate is suspected of being under the influence of alcohol or drugs; or the candidate or helper will not cooperate with the evaluator's instructions.

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## Examination Policies

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### Delivery of results

Written examination results are shown to you on completion of the examination; practical evaluation results are given by the examiner in a sealed envelope (in person) or verbally (remote). Results are reported as pass or fail with your score. With your consent in the application declaration, your pass / fail status is also released to your contractor and the manufacturer.

### Evaluation cancellation policy

The evaluation booking fee must be paid in full before the evaluation date. Cancellations are subject to a cancellation fee; rescheduling (in-person examinations) requires at least 14 days' notice and a rescheduling fee may apply. Cancellation or rescheduling is not permitted within 48 hours of the session and fees are then forfeited, except that Caliber may grant exceptions in extenuating circumstances such as death or serious illness, with written documentation. If Caliber cancels an evaluation, it gives sufficient notice, the reason, and a proposed new date. If the evaluator is delayed, the evaluator contacts the candidate with the new arrival time.

### Individual confidentiality

Caliber respects your right to control your personal information and handles it in accordance with its confidentiality policy and applicable privacy law (PIPEDA). Restricted information is not released without your written consent, except as required by law. Your name, certification number, scope, status and expiry are published on the public register; examination results are released to your contractor and the manufacturer as you agree in the application declaration.

### Feedback

Caliber strives to provide a professional experience throughout the evaluation process and welcomes your feedback at [qap@caliberqa.com](mailto:qap@caliberqa.com) or by mail to Caliber Quality Solutions Inc., 10225 Yonge St, Unit R126, Richmond Hill, ON L4C 3B2. Feedback is reviewed as part of Caliber's continual improvement.

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## Apprentice Status

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A registered apprentice is an individual registered with Caliber who installs spray-applied polyurethane foam on the job site under the direct supervision of a certified installer. Apprentice is a temporary status that allows the candidate to gain experience under a certified installer until he or she completes certification.

**Apprentice registration is not a certification and is not covered by accreditation.**

Registered Apprentice status is not assigned automatically. An installer candidate who has not yet achieved certification may be granted apprentice status by Caliber on an individual basis. Apprentice status is valid for 6 months or until the end of the calendar year, whichever is longer, and is not renewable; Caliber may, at its sole discretion, extend it case by case where there is good reason (for example, a language barrier delaying the examination). If certification is not achieved within that period, the certification process must be restarted. The registered apprentice may install material only under the direct supervision (continuous visual observation) of a certified installer.

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## Certification Card and Certificate

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When Caliber has decided to grant certification, you are issued a certification card bearing: your name and photo; your unique certification number; the scope of certification; the date certification was granted and the expiry date; and Caliber's name and contact information. Cards are renewed annually and remain the property of Caliber; a card must be returned or destroyed on suspension or withdrawal. Your current status can always be checked on the public register via the QR code on the card. Where Caliber has granted certification but cannot issue a card – for example because you are not employed by a registered contractor – you receive a certificate of completion instead, bearing the same certification information. A card is issued once you are employed by a registered contractor.

### Use of the certification card and marks

Use your certification, card and any Caliber mark only for the installation of the products and scope you are certified for, and never in a way that could mislead or bring Caliber into disrepute (Installer Agreement – Labels and Proprietary Rights of Caliber). On suspension or withdrawal you must stop all claims of certification.

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## Maintaining Certification

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### Certified installer obligations

1. Comply with all requirements of the Site Quality Assurance Program.  
Apply the material in accordance with CAN/ULC application standards and the manufacturer's installation guidelines.  
Confirm, using drum labels or other documentation, that the material on site has been declared by the manufacturer to meet CAN/ULC material standards before commencing installation.
2. Take responsibility for all aspects of on-site installation, including safe handling and storage of the material, isolation of the spray area, warning signs when spraying, site housekeeping, and your own and your crew's health and safety.
3. Follow all safety, operational, maintenance and cleaning instructions of the equipment manufacturer for the equipment used (transfer pumps, proportioner, hoses, hose heaters, guns, compressors, generators, etc.).
4. Directly supervise any apprentice applying the material; the certified installer is responsible for the application.
5. Complete a daily work record at the beginning of each day, each time a material batch is changed, and when the job site changes within a day.
6. Post a job site label in a prominent location (e.g. the electrical panel) when the installation is completed.
7. Remove all waste from the site safely at the end of each working day and dispose of it according to local, provincial and federal requirements.
8. Remove all empty and partially empty drums and containers from the job site.  
Inform Caliber without delay of any matter that can affect your ability to continue to meet the certification requirements.

### SPF installer code of conduct

As an SPF installer certified with Caliber QAP, you commit to uphold and advance the honour and dignity of the certification program. You will: adhere to high standards of ethical conduct; remain impartial in providing your installation services; conduct interactions with the public and consumers with professionalism, honesty

and integrity; comply with the rules of the certification body set out in your Installer Agreement; diligently pursue compliant installation of SPF to minimize complaints; keep confidential all information obtained through the certification process, such as examination questions, except as required by law; and avoid actual and perceived conflicts of interest.

### Daily work records

The certified installer completes a Daily Work Record (DWR) to verify that each installation conforms to the standards and the manufacturer's installation guidelines, at the beginning of every day, each time a material batch is changed and when the job site changes within a day (example in Appendix K). The installer submits the DWR to the registered contractor.

### Daily site testing requirements

The certified installer performs a daily quality-control check on all construction projects and on other applications where testing is practical: (1) verify that the substrate has been properly prepared; (2) verify that environmental conditions are within the approved range; (3) ensure the equipment is set to safe and proper operating parameters for the chemical system; (4) exercise ongoing visual and physical quality verification, watching cell size and structure and any change in spray pattern, colour or reaction; (5) check thickness continuously with a depth gauge to provide the minimum thickness specified by the owner; (6) apply the foam so the surface is reasonably smooth and consistent; (7) conduct density, adhesion, cohesion and substrate verification at the beginning of each day, each time a material batch is changed and when the job site changes; (8) record the results and site conditions on the DWR. On very small or repair jobs physical testing is not required where it is not practical; if in doubt, contact the manufacturer or Caliber.

### Surveillance

Certified installers are monitored for ongoing compliance throughout the certification period through contractor annual renewal, daily work records, project audits (including remote live-stream audits), complaint investigations and periodic surveillance of job sites. The certified installer must cooperate with surveillance. Where non-compliance with SQAP requirements is found, demerit points are assessed and certification may be suspended or withdrawn as described below.

### Annual card renewal

Certification cards are renewed annually. Caliber reviews each installer's status to confirm that: all SQAP requirements set by the manufacturer and Caliber are met; fees are paid and the account is up to date; and all paperwork requested by Caliber or the manufacturer has been returned. When Caliber is satisfied, the card is re-issued.

### Recertification

Recertification is required every 5 years and includes: passing a written and practical evaluation. At Caliber's sole discretion, status may be withheld if any reported complaints, deficiencies or non-compliances found during surveillance activities have not been resolved. In such cases, corrective actions will be provided in writing to the installer to permit resolution and maintain certification status.

### Demerit point system

Caliber uses demerit points to assess the certified installer's ongoing commitment to the requirements of the Site Quality Assurance Program:

| Area                     | Demerit points |
|--------------------------|----------------|
| Environmental conditions | 50 – 100       |
| Application methodology  | 50             |

| Area                             | Demerit points |
|----------------------------------|----------------|
| Visual inspection                | 50             |
| Testing                          | 50 – 100       |
| Documentation                    | 5 – 50         |
| Material physical properties     | 50 – 100       |
| Safety                           | 50 – 250       |
| Waste disposal                   | 25             |
| Storage and handling of material | 50 – 100       |
| Substrate                        | 50 – 100       |

## Suspension, Withdrawal and Reinstatement

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**Suspension.** Certification is suspended when you accumulate 250 demerit points; when a complaint or audit identifies a Major non-conformance that you have not corrected within the time given; when annual renewal requirements (fees, paperwork, program obligations) are not met within 30 days of the renewal date; or where a safety breach is confirmed. Caliber notifies you and your registered contractor in writing, stating the reason, the corrective action required and your right to appeal. While suspended you may not install SPF under the program and the public register shows your status as "Suspended". The public register shows each certified installer's status as Active, On Hold or Suspended.

**Reinstatement.** Suspension is lifted when you have demonstrated the required corrective action and settled outstanding obligations. Where the suspension resulted from a Major non-conformance in your installation work, or has lasted more than 6 months, Caliber may require a practical evaluation before reinstatement.

**Withdrawal.** Certification is withdrawn when you accumulate 500 demerit points within a certification period; when you fail to comply with CAN/ULC or SQAP requirements after suspension; when a false statement is discovered in your application; or when you misuse the certification card or make misleading claims about your certification. Before withdrawal Caliber reviews your record and gives you the opportunity to respond. Withdrawal is notified in writing to you, your registered contractor and the manufacturer, with the steps required to apply again.

Caliber is not responsible for any actual or perceived damages, such as loss of income, associated with suspension or withdrawal of certification.

## Appeals

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You may appeal any decision Caliber makes about your certification: refusal of your application; a written examination or practical evaluation result; refusal to grant, renew, reinstate or transfer certification; assessment of demerit points; suspension; or withdrawal. Making an appeal is free of charge and will never be held against you.

### How to appeal

Send your appeal in writing – by e-mail to [qap@caliberqa.com](mailto:qap@caliberqa.com) or by letter to **Caliber Quality Solutions Inc.**, 10225 Yonge St, Unit R126, Richmond Hill, ON L4C 3B2 – within 10 business days of the date you were notified of the decision. State which decision you are appealing and why you believe it is wrong, and attach any supporting information. Appeals may be made in English or French. If you need help putting your appeal in writing, call 1-888-572-7435.

### What happens next

Caliber acknowledges your appeal in writing within 5 business days, tells you who will decide it and when to expect the decision. Appeals are decided by Caliber's Program Director, who is independent of the certification operations and has had no part in the decision you are appealing; where the Program Director was involved, the appeal is decided by two members of the Steering Committee who have no interest in the outcome. The decision-maker reviews the complete file, obtains a written response from the examiner or staff member concerned, may obtain independent technical advice, and may ask you for further information; you will be given the chance to comment on any new information relied on. If the decision will take longer than 30 business days you will be told why and given a new date.

### The decision

You receive the decision in writing, with reasons, within 30 business days of receipt (or the extended date). The appeal may be upheld (the decision is reversed or varied – for example demerit points removed, suspension lifted or a result corrected), upheld in part, or dismissed. The written decision concludes Caliber's

appeal process. Your registered contractor and manufacturer are informed of the outcome only where they were informed of the original decision. If you remain dissatisfied, you may raise the matter with Caliber's accreditation body, the International Accreditation Service (IAS), [www.iasonline.org](http://www.iasonline.org).

## Complaints

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Anyone – an installer, contractor, manufacturer, building owner, authority or member of the public – may make a complaint about Caliber, its staff, its examinations or its inspections, or about the work of a certified installer. Complaints may be made in English or French by e-mail to **[qap@caliberqa.com](mailto:qap@caliberqa.com)** or by letter to the **address above**. Making a complaint is free of charge.

Caliber acknowledges every complaint in writing within 5 business days, tells you who is handling it, and confirms whether it relates to activities Caliber is responsible for. Complaints are investigated by the Program Manager; a complaint about a decision or the conduct of the Program Manager, or a complaint that you do not consider resolved, is reviewed by the independent Program Director. Nobody involved in the matter complained about takes part in handling it. You are kept informed of progress and receive a written notice of the outcome and any action taken – normally within 30 business days, or within 60 business days where a site audit and contractor corrective action are needed. A complaint about a certified installer's work is investigated under the Site Quality Assurance Program (Handbook Part 1) with the manufacturer and registered contractor; the installer is informed and may be assessed demerit points, and may appeal that assessment as described above. After the Program Director's review you may raise the matter with IAS.

## Frequently Asked Questions

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**Q1. How do I register for a training course?** Contact the manufacturer directly to register for the next available course.

**Q2. How do I register for a practical evaluation?** Contact Caliber by phone or email.

**Q3. What is the purpose of the practical evaluation?** To assess your knowledge and ability to apply, in a practical way, what was presented in the classroom – including administrative requirements, health and safety, environmental requirements, quality assurance testing and application technique.

**Q4. Where can I take the written examination?** At the end of the manufacturer's training course, or online under remote proctoring.

**Q5. When will I receive my written examination results?** They are shown to you on completion of the examination.

**Q6. Does Caliber offer courses to pass the examinations?** No. Training is available through the product manufacturers; Caliber does not train the candidates it certifies.

**Q7. Can I review the written examination I took?** You may review the questions you answered incorrectly by arrangement with Caliber, normally in support of an appeal. A review fee applies (Fee Schedule).

**Q8. How often can I take the written examination?** As often as needed, waiting at least 1 day between attempts; the first re-take is free (see Re-examination).

**Q9. What if I fail the written examination?** You may attend the next training course, subject to the manufacturer's requirements, and re-take the examination. Re-taking the practical evaluation is not free of charge.

**Q10. Is the examination open book?** No, it is closed book.

**Q11. How long is the written examination?** 1 hour, 50 multiple-choice questions.

**Q12. What is a passing score?** 62 % for the written examination and 75 % for the practical evaluation.

**Q13. What languages are the examinations available in?** English and French.

**Q14. I am certified by another body. Do I have to start again?** Holders of current UFC or CUFCA certification may apply for certification by transfer. Other certifications follow the standard path.

## Appendix A – Contact Information

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Caliber Quality Solutions Inc. – 10225 Yonge St, Unit R126, Richmond Hill, ON L4C 3B2 (administrative and mailing address) · Tel. 1-888-5-QAP-HELP (1-888-572-7435) · qap@caliberqa.com · www.CaliberQA.com

## Appendix B – Terms and Definitions

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**ACCREDITATION** – formal recognition by an accreditation body (for Caliber, the International Accreditation Service, IAS) that a certification body or inspection body is competent to carry out specific conformity assessment activities in accordance with ISO/IEC 17024 or ISO/IEC 17020.

**APPEAL** – a request by an applicant, candidate or certified installer for reconsideration of a decision made by Caliber relating to his or her certification.

**CANDIDATE** – an applicant who has fulfilled the specified prerequisites and been admitted to the certification process.

**CERTIFICATION BODY** – Caliber Quality Solutions Inc., the organization accredited to ISO/IEC 17024 that operates the SPF Installer Certification scheme and makes all certification decisions.

**CERTIFICATION PROCESS** – all activities by which a certification body establishes that a person fulfils specified competence requirements, including application, evaluation, decision on certification, surveillance and recertification, and use of certificates and logos / marks.

**CERTIFIED INSTALLER** – a person to whom Caliber has granted certification under this Handbook, responsible for the installation of spray polyurethane foam and the related site requirements, and authorized to supervise a Registered Apprentice.

**CERTIFICATION SCHEME** – the competence and other requirements related to specific occupational or skilled categories of persons (ISO/IEC 17024).

**COMPETENCE** – the ability to apply knowledge and skills to achieve intended results.

**COMPLAINT** – an expression of dissatisfaction, other than an appeal, by any person or organization to Caliber, relating to the activities of Caliber or of a certified installer, where a response is expected.

**EVALUATION** – the process that assesses a person's fulfilment of the requirements of the scheme, leading to a decision on certification.

**EXAMINATION** – the mechanism, part of the evaluation, that measures a candidate's competence by one or more means such as written, oral, practical and observational.

**EXAMINER / EVALUATOR** – a person competent to conduct and score an examination or practical evaluation.

**ESSENTIAL LEARNING TASK LIST** – the comprehensive list of knowledge, skills and tasks an individual is expected to demonstrate in order to earn Caliber certification (Appendix G).

**PROCTOR** – a person authorized by Caliber who administers or supervises an examination but does not evaluate the competence of the candidate.

**QUALIFICATION** – demonstrated education, training and work experience, where applicable.

**RECERTIFICATION** – the process of confirming continued fulfilment of the certification requirements.

**REGISTERED APPRENTICE** – an individual registered with Caliber who installs spray-applied polyurethane foam on the job site under the direct supervision of a certified installer.

**REGISTERED CONTRACTOR** – an individual, organization or corporation responsible for meeting all requirements and obligations for the installation and registered with Caliber.

**SITE QUALITY ASSURANCE PROGRAM (SQAP)** – the program that ties the supplier, registered contractor and installer together, outlines the responsibilities and obligations of each, and makes them responsible for the installation.

**SPECIFIC NEEDS** – a circumstance for which a candidate requires accommodation to take an examination under conditions equivalent to other candidates.

**STEERING COMMITTEE** – the committee constituted by Caliber under its Impartiality Policy, whose members fairly and equitably represent the interests of the parties concerned with the certification scheme and the Site Quality Assurance Program without any single interest predominating, and which advises on the development and maintenance of the scheme and on impartiality.

**SURVEILLANCE** – the periodic monitoring, during the period of certification, of a certified person's performance to ensure continued compliance with the certification scheme.

## Appendix C – Substrate Preparation

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Spray polyurethane foam can be applied to a wide variety of substrates. Good adhesion between the substrate and the insulation is extremely important and is achieved by proper surface preparation. All substrates should be clean, dry, and free of grease, oil, loose scale or rust, solvents and other contaminants that may impair the bond. Each substrate must be prepared in accordance with the chemical manufacturer's directions for the application.

1. **Wood, gypsum board and fibreboard** – moisture content should be less than 19 %. Take special care with laminates with surface treatment, which may adversely affect adhesion.
2. **Concrete** – must be surface-dry. If adhesion is suspect because of high moisture content, perform an adhesion test.
3. **Galvanized steel** – new galvanized steel should be washed with mineral spirits, allowed to dry and primed.
4. **Pre-painted substrates** – adhesion can vary significantly with the paint; when uncertain, mechanically score or abrade the paint.
5. **Bare steel** – must be free of oil, solvent and foreign materials; remove loose scale and rust. Steel tanks must be cleaned (xylene or mineral spirits) and primed; sand-blasting may be needed for adhesion of primer to stainless steel.
6. **Aluminium** – clean with mineral spirits (do NOT use caustic solution) and always prime, because acids formed at the foam / aluminium interface cause corrosion.
7. **Glass** – must be clean and dry; when insulating the interior of a window, apply an ultraviolet-blocking coating first to prevent degradation of the foam.
8. **Polyvinyl chloride (PVC)** – wash with a mild solvent such as mineral spirits. Take care where plasticizer content is high (flexible PVC), as plasticizer migration can cause loss of adhesion.
9. **ABS** – clean with mineral spirits and prime.
10. **Asphalt and tar** – must be solvent-free (old enough that no solvent remains); do not apply over fresh asphalt or tar.
11. **Polypropylene and polyethylene** – adhesion is extremely poor; provide mechanical attachment such as wire mesh.
12. **Solvents** – avoid solvents in or on the substrate; allow solvent-cured primers and coatings to cure fully.
13. **Spray polyurethane foam** – clean areas showing ultraviolet degradation by wire brushing before applying more insulation.
14. **Earth** – must be dry and firm; consult the manufacturer where hydrostatic pressure will act on the foam.
15. **Modified bitumen membrane** – the membrane must be adhered to the substrate; confirm proper installation with the membrane manufacturer.

## Appendix D – Climatic Factors

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1. **Ambient temperature** – where the difference between ambient and substrate temperature exceeds 17 °C (e.g. spraying a heated interior in winter), consult the chemical manufacturer; winter formulation is used for heated interiors. Ambient temperatures of 30 °C or more may cause the blowing agent in the resin to boil, causing cavitation; ventilation or air conditioning may be required.
2. **Substrate temperature** – reaction time is affected by differences in substrate temperature between sun and shade; following the sun on exterior projects improves yield and consistency.

3. **Wind** – do not spray outdoors when wind exceeds 15 km/h unless windscreens are used; wind increases overspray, reduces yield and may carry foam onto nearby cars, doors, windows, etc.
4. **Moisture / humidity** – take care when relative humidity exceeds 80 %; high humidity can cause blistering, weak foam, and poor adhesion or cohesion.

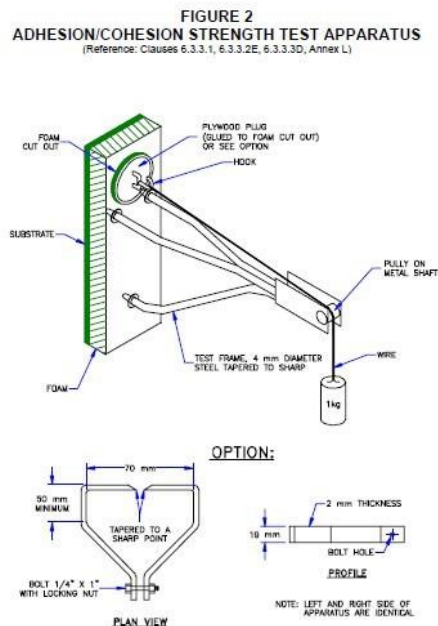
## Appendix E – Test Kit

As a minimum, the certified installer's site test kit contains:

- balance, readable to 0.01 g
- graduated cylinder of at least 1000 mL with maximum 10 mL graduations
- round plywood disk, maximum diameter 70 mm, thickness 20 mm
- picture-hanging wire 30 cm long with hooks at both ends, attached to the plywood disk
- wire 600 mm long
- thin-walled tempered pipe or similar instrument to make a 70 mm cylindrical cut into the insulation
- coring tool made from thin-wall tubing, 70 mm inside diameter
- two-component epoxy glue
- support frame (Appendix F)
- support weight of 1 kg
- alternatively, an apparatus meeting the test methods of ASTM D4541
- calculator
- thermometer and hygrometer (combined or separate)
- thickness gauge
- knife with a blade of at least 180 mm, or a coring tool capable of cutting a sample

## Appendix F – Adhesion / Cohesion Strength Test Apparatus

Reference: CAN/ULC S705.2 (current edition).



## Appendix G – Essential Learning and Skills

The essential learning task list is reviewed by the Program Manager with the Senior Field Examiner at least every 5 years and whenever the CAN/ULC application standards or the manufacturers' instructions change materially, taking into account the stakeholder interests listed under Outline of the SPF Certification Scheme. Sample guideline for the certified installer training program:

| Section | Topic                                   | Content                                                                                                                                                                                                                                        |
|---------|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A       | Introduction to spray polyurethane foam | What is SPF; history of SPF                                                                                                                                                                                                                    |
| B       | Codes and standards                     | building code; material standard; application standard; job standards                                                                                                                                                                          |
| C       | Health and safety                       | first aid level one; WHMIS; workers' compensation / regulations; personal protection (head, respirator, eye, ear, body, hands, feet); transportation of dangerous goods; confined spaces; electrical hazards; trenching / excavation / shoring |
| D       | Site equipment                          | ladders; scaffolding; hoisting / rigging / swing stage; fall protection; fork lift / scissor lift / boom lift                                                                                                                                  |
| E       | Fire protection                         | fire extinguishers; warning signs; smoking; welding; cutting; grinding                                                                                                                                                                         |
| F       | Site isolation                          | warning signs; barriers; protection of helper; protection of others (trades, vehicles, building components)                                                                                                                                    |
| G       | Environmental conditions                | ambient temperature; humidity; wind; substrate temperature                                                                                                                                                                                     |
| H       | Material selection                      | factors affecting material selection                                                                                                                                                                                                           |
| I       | Equipment                               | drum heaters; transfer pumps; proportioner; hoses; hose heaters; guns; compressor; generators                                                                                                                                                  |
| J       | Start-up procedure                      | check equipment (pressures, temperature, conditions); check material supply; test pattern; checklist; work order / job requirements; manufacturer instructions                                                                                 |
| K       | Substrate preparation                   | material; moisture; cleaning; priming; masking                                                                                                                                                                                                 |
| L       | Application methodology                 | distance; angle of spray; cross-hatching; thickness; finish; coverage; hot / cold weather application; high-wind application                                                                                                                   |
| M       | Air barrier requirements                | material requirements; transition membrane; testing requirements                                                                                                                                                                               |
| N       | Thermal barrier requirements            | building code requirements; contractor's responsibility; installer's responsibilities                                                                                                                                                          |
| O       | Heating and hoarding                    | heater requirements                                                                                                                                                                                                                            |
| P       | Troubleshooting                         | blisters; resin-rich; ISO-rich; thermal cracks; scorching; friability; tackiness                                                                                                                                                               |
| Q       | Quality control                         | site testing (visual, density, adhesion, cohesion, temperature, adhesion to failure, air barrier testing); documentation (checklist, daily work records, job site label)                                                                       |
| R       | Storage and handling                    | proper storage of material; handling of drums; water seepage                                                                                                                                                                                   |
| S       | Maintenance                             | equipment                                                                                                                                                                                                                                      |
| T       | Isolation and ventilation               | isolation requirements; during spraying; post-installation ventilation                                                                                                                                                                         |
| U       | Drum decontamination                    | ISO drums; resin drums                                                                                                                                                                                                                         |

| Section | Topic            | Content                                                            |
|---------|------------------|--------------------------------------------------------------------|
| V       | Spill handling   | containment; clean-up; decontamination; disposal                   |
| W       | Housekeeping     | removing excess foam; clean-up; site waste; buns of foam; disposal |
| X       | Job management   | customer relations; time management; communications                |
| Y       | Installer ethics | work habits; attitudes                                             |

## Appendix H – Critical Tasks

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The certified installer must demonstrate knowledge, skills and competence in all the following essential learning areas: spray polyurethane foam product knowledge; equipment and start-up procedures; environmental conditions; installation and application; job-site preparation; job-site health and safety; pre-installation verification; troubleshooting; building code; quality control.

## Appendix I – Verification of Installer's Competence

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The registered contractor shall ensure that the certified installer:

- has completed a training course developed from the essential learning and skills in Appendix G and approved by the manufacturer and Caliber;
- has the knowledge, skills and abilities required to install the specific material in its applications, demonstrated by successfully completing Caliber's certification process;
- has passed both a written examination and a practical evaluation;
- successfully completes all certification requirements; and
- is recertified every five years by passing a written and practical evaluation conducted by Caliber.

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## Appendix J – Job-Site Set-Up

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1. **General** – the registered contractor and certified installer must be familiar with all local, provincial and federal requirements and use the necessary construction, public and employee safety procedures.
2. **Outdoor spraying** – when wind exceeds 15 km/h, rope off the site, cover possible problem areas with tarps or plastic sheets, and post signs explaining why the area is roped off.
3. **Warning signs** – have warning signs available, such as "No Smoking", "Breathing apparatus must be worn when entering this work area", "Do not enter while spraying" and "Stay clear, overspray possible".
4. **Garbage disposal** – keep the work site clean of debris and provide suitably sized garbage containers with lids.
5. **Fire extinguisher** – a charged extinguisher rated at least 4-A:40-B:C to CAN/ULC S508, net content at least 4.5 kg, must be available at all times in trucks and on job sites.
6. **Masking** – securely fasten masking to areas that must be protected from overspray.
7. **Inhabited buildings** – (a) isolate the area being sprayed (e.g. polyethylene over openings; block intakes to mechanical systems serving other areas) and allow no one into the area without proper protection; (b) provide mechanical ventilation of the spray area during application at 0.3 air changes per hour or more; (c) continue ventilation after spraying for the period declared by the manufacturer at 0.3 air changes per hour or more; (d) this does not apply to new construction or uninhabited buildings.

## Appendix K – Daily Work Record

**INSULATION SYSTEM DAILY WORK RECORD**  
**EMAIL TO DWR@CALIBERQA.COM WITHIN 1 MONTH**


|             |  |  |  |  |  |  |  |  |  |  |  |                       |  |  |  |  |  |  |  |  |  |  |  |
|-------------|--|--|--|--|--|--|--|--|--|--|--|-----------------------|--|--|--|--|--|--|--|--|--|--|--|
| Contractor: |  |  |  |  |  |  |  |  |  |  |  | Date: Y Y Y Y M M D D |  |  |  |  |  |  |  |  |  |  |  |
| Installer:  |  |  |  |  |  |  |  |  |  |  |  | Card #:               |  |  |  |  |  |  |  |  |  |  |  |
| Apprentice: |  |  |  |  |  |  |  |  |  |  |  | Appr. Card #          |  |  |  |  |  |  |  |  |  |  |  |

| PROJECT INFORMATION                                                                      |  |  |  |  |  |  |  |  |  |  |  |                                                                                                               |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|---------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|
| Customer Name:                                                                           |  |  |  |  |  |  |  |  |  |  |  | Construction: Unoccupied <input type="checkbox"/> Occupied <input type="checkbox"/>                           |  |  |  |  |  |  |  |  |  |  |  |
| Project Name:                                                                            |  |  |  |  |  |  |  |  |  |  |  | Ventilation 0.3 ACH: Yes <input type="checkbox"/> No <input type="checkbox"/>                                 |  |  |  |  |  |  |  |  |  |  |  |
| Project Address:                                                                         |  |  |  |  |  |  |  |  |  |  |  | Spray Area Isolated: Yes <input type="checkbox"/> No <input type="checkbox"/>                                 |  |  |  |  |  |  |  |  |  |  |  |
| City:                                                                                    |  |  |  |  |  |  |  |  |  |  |  | Warning Sign Posted: Yes <input type="checkbox"/> No <input type="checkbox"/>                                 |  |  |  |  |  |  |  |  |  |  |  |
| Prov.: AB BC MB NB NL NS NU ON PE QC SK OTHER                                            |  |  |  |  |  |  |  |  |  |  |  | Type: Residential <input type="checkbox"/> Commercial <input type="checkbox"/> Other <input type="checkbox"/> |  |  |  |  |  |  |  |  |  |  |  |
| Project Description:                                                                     |  |  |  |  |  |  |  |  |  |  |  | Building Permit Posted: Yes <input type="checkbox"/> No <input type="checkbox"/>                              |  |  |  |  |  |  |  |  |  |  |  |
| Total Project Wall Area: sq. m <input type="checkbox"/> sq. ft. <input type="checkbox"/> |  |  |  |  |  |  |  |  |  |  |  | Building Permit #:                                                                                            |  |  |  |  |  |  |  |  |  |  |  |
| Person/Company responsible for thermal barrier:                                          |  |  |  |  |  |  |  |  |  |  |  |                                                                                                               |  |  |  |  |  |  |  |  |  |  |  |

| MATERIAL INFORMATION                                                                                                                                                                                                      |  |  |  |  |  |  |  |  |  |  |  |                                                                                                        |  |  |  |  |  |  |  |  |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|
| BASF <input type="checkbox"/> Carlisle <input type="checkbox"/> Demilec <input type="checkbox"/> Icynene <input type="checkbox"/> JM <input type="checkbox"/> SWD <input type="checkbox"/> Other <input type="checkbox"/> |  |  |  |  |  |  |  |  |  |  |  | Product                                                                                                |  |  |  |  |  |  |  |  |  |  |  |
| Isocyanate                                                                                                                                                                                                                |  |  |  |  |  |  |  |  |  |  |  | Resin                                                                                                  |  |  |  |  |  |  |  |  |  |  |  |
| Lot number:                                                                                                                                                                                                               |  |  |  |  |  |  |  |  |  |  |  | CCMC #                                                                                                 |  |  |  |  |  |  |  |  |  |  |  |
| Expiry Date:                                                                                                                                                                                                              |  |  |  |  |  |  |  |  |  |  |  | Formulation                                                                                            |  |  |  |  |  |  |  |  |  |  |  |
| Manufacturing Date:                                                                                                                                                                                                       |  |  |  |  |  |  |  |  |  |  |  | Density: <input type="checkbox"/> Light <input type="checkbox"/> Medium <input type="checkbox"/> Other |  |  |  |  |  |  |  |  |  |  |  |
| Drum Temperature:                                                                                                                                                                                                         |  |  |  |  |  |  |  |  |  |  |  | Color:                                                                                                 |  |  |  |  |  |  |  |  |  |  |  |
| Quantity of Cycles Used:                                                                                                                                                                                                  |  |  |  |  |  |  |  |  |  |  |  | Kg <input type="checkbox"/> Pounds (lb.) <input type="checkbox"/>                                      |  |  |  |  |  |  |  |  |  |  |  |

| EQUIPMENT                   |  |  |  |  |  |                                                                           |  |  |  |  |  |
|-----------------------------|--|--|--|--|--|---------------------------------------------------------------------------|--|--|--|--|--|
| Manufacturer of Machine:    |  |  |  |  |  | Model:                                                                    |  |  |  |  |  |
| Mixing Chamber Size:        |  |  |  |  |  | Hose Length: m <input type="checkbox"/> ft <input type="checkbox"/>       |  |  |  |  |  |
| Isocyanate psi:             |  |  |  |  |  | Resin psi:                                                                |  |  |  |  |  |
| Primary Heater Temperature: |  |  |  |  |  | Hose Temperature: °F <input type="checkbox"/> °C <input type="checkbox"/> |  |  |  |  |  |

| ENVIRONMENTAL CONDITIONS |  |                                                         |  |                   |  |                                                            |  |                                                         |  |  |  |
|--------------------------|--|---------------------------------------------------------|--|-------------------|--|------------------------------------------------------------|--|---------------------------------------------------------|--|--|--|
| Time (hh:mm)             |  | Ambient Temperature                                     |  | Relative Humidity |  | Wind Velocity                                              |  | Substrate Temperature                                   |  |  |  |
| 24h format               |  | °F <input type="checkbox"/> °C <input type="checkbox"/> |  | (%)               |  | Mph <input type="checkbox"/> Km/h <input type="checkbox"/> |  | °F <input type="checkbox"/> °C <input type="checkbox"/> |  |  |  |
|                          |  |                                                         |  |                   |  |                                                            |  |                                                         |  |  |  |
|                          |  |                                                         |  |                   |  |                                                            |  |                                                         |  |  |  |

| SUBSTRATE CONDITIONS |  |                                                          |  |                           |  |                                                          |  |                        |  |  |  |
|----------------------|--|----------------------------------------------------------|--|---------------------------|--|----------------------------------------------------------|--|------------------------|--|--|--|
| Type:                |  |                                                          |  |                           |  | Details:                                                 |  |                        |  |  |  |
| CONDITIONS           |  |                                                          |  |                           |  | SPECIAL CONDITIONS                                       |  |                        |  |  |  |
| Clean:               |  | Yes <input type="checkbox"/> No <input type="checkbox"/> |  | Primer Required:          |  | Yes <input type="checkbox"/> No <input type="checkbox"/> |  | Moisture Content (MC): |  |  |  |
| Dry:                 |  | Yes <input type="checkbox"/> No <input type="checkbox"/> |  | Protection Required:      |  | Yes <input type="checkbox"/> No <input type="checkbox"/> |  |                        |  |  |  |
| Properly Fastened:   |  | Yes <input type="checkbox"/> No <input type="checkbox"/> |  | Exterior Coating:         |  | Yes <input type="checkbox"/> No <input type="checkbox"/> |  |                        |  |  |  |
| Proper Adhesion:     |  | Yes <input type="checkbox"/> No <input type="checkbox"/> |  | Interior Thermal Barrier: |  | Yes <input type="checkbox"/> No <input type="checkbox"/> |  |                        |  |  |  |

| TEST RESULTS                                                                                                               |  |  |  |                                                                                                       |  |  |  |                    |  |  |  |
|----------------------------------------------------------------------------------------------------------------------------|--|--|--|-------------------------------------------------------------------------------------------------------|--|--|--|--------------------|--|--|--|
| Density Calc: Open cell: g ÷ cm <sup>3</sup> = Kg/m <sup>3</sup> Closed cell: g ÷ mL x 1000 = Kg/m <sup>3</sup> + 16 = pcf |  |  |  |                                                                                                       |  |  |  |                    |  |  |  |
| Mass                                                                                                                       |  |  |  | Volume <input type="checkbox"/> cm <sup>3</sup> (open cell) <input type="checkbox"/> mL (closed cell) |  |  |  | Calculated Density |  |  |  |
| Weight of Sample #1 (g):                                                                                                   |  |  |  | Volume of Sample #1:                                                                                  |  |  |  |                    |  |  |  |
| Weight of Sample #2 (g):                                                                                                   |  |  |  | Volume of Sample #2:                                                                                  |  |  |  |                    |  |  |  |
| Weight of Sample #3 (g):                                                                                                   |  |  |  | Volume of Sample #3:                                                                                  |  |  |  |                    |  |  |  |
| Thickness Pass #1:                                                                                                         |  |  |  | mm                                                                                                    |  |  |  | inches             |  |  |  |
| Thickness Pass #2:                                                                                                         |  |  |  | mm                                                                                                    |  |  |  | inches             |  |  |  |
| Thickness Pass #3:                                                                                                         |  |  |  | mm                                                                                                    |  |  |  | inches             |  |  |  |
| Number of Passes: 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/>                         |  |  |  | Total Thickness                                                                                       |  |  |  | mm inches          |  |  |  |
| Adhesion Test #1: Pass <input type="checkbox"/> Fail <input type="checkbox"/>                                              |  |  |  | Cohesion Test #1: Pass <input type="checkbox"/> Fail <input type="checkbox"/>                         |  |  |  |                    |  |  |  |
| Adhesion Test #2: Pass <input type="checkbox"/> Fail <input type="checkbox"/>                                              |  |  |  | Cohesion Test #2: Pass <input type="checkbox"/> Fail <input type="checkbox"/>                         |  |  |  |                    |  |  |  |
| Adhesion Test #3: Pass <input type="checkbox"/> Fail <input type="checkbox"/>                                              |  |  |  | Cohesion Test #3: Pass <input type="checkbox"/> Fail <input type="checkbox"/>                         |  |  |  |                    |  |  |  |

|                                                                                |  |  |  |  |  |  |  |  |  |  |  |
|--------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|
| CORRECTIVE ACTIONS (List corrective action taken as a result of test failures) |  |  |  |  |  |  |  |  |  |  |  |
| Signature                                                                      |  |  |  |  |  |  |  |  |  |  |  |

Updated: 2025-06-02

## Appendix L – Job Site Label

### JOB SITE LABEL

This job site label confirms that the installed spray applied rigid polyurethane foam insulation meets the CAN/ULC S705.1 Medium Density Material Standard.  
This product has been installed according to the CAN/ULC S705.2 Installation Standard

Job Site Address: \_\_\_\_\_  
 Product Names: \_\_\_\_\_ CCMC# \_\_\_\_\_  
 Licensed Contractor: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Phone: \_\_\_\_\_ Email: \_\_\_\_\_  
 Certified Installer(s) \_\_\_\_\_  
 License No(s) \_\_\_\_\_  
 Signed: \_\_\_\_\_ Date: \_\_\_\_\_