

# SEALCRAFT

## Architectural Window Systems

STANDARD PROCEDURE

No. I-130

*Window Installation Instructions*  
*Hung Window Systems without Accessories*

Examined, Accepted and Approved

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Title: President

## 1.0 INTRODUCTION:

- 1.1 The purpose of this standard procedure is to establish the procedures required for the successful installation of Seal Craft window systems utilizing no panning, fins, flanges, receptors, closures, interior trim or any other accessories into existing construction which incorporates metal or wood stud framing with gypsum board returns on the interior and brick at the exterior.
- 1.2 The guidelines set forth herein are based on standard industry practices AAMA Publication IPCB-08 which can be located at [www.seal-craft.com](http://www.seal-craft.com) and Seal Craft specific recommendations coupled with our understanding of job site conditions and requirements.
- 1.3 It should be noted that Seal Craft considers this to be one of the most difficult forms of installation that can be executed. It requires a higher level of attention to detail than other installation methods and much care must be exercised to achieve a waterproof and workmanlike installation. Seal Craft prefers other methods of installation which are generally more forgiving of slight tolerance variances in existing wall conditions.
- 1.4 This procedure does not purport to address all of the safety problems that may be associated with its use. It is the responsibility of whoever uses this procedure to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.

## 2.0 INSTALLER QUALIFICATIONS AND RESPONSIBILITY:

- 2.1 The window installation subcontractor should be an experienced mechanic in the field with at least five continuous years of successful experience installing similar window systems into projects of similar scope, magnitude and design.
- 2.2 The basic function of the window installation subcontractor is to ensure that all windows are installed per the approved manufacturers written instructions and job specific Shop Drawings as approved by the Architect or Owner's Representative.
- 2.3 The window installation subcontractor shall be responsible to ensure that all openings are correctly prepared and ready to accept new window units. Any problems found should be reported to the General Contractor or approving authority promptly and the window installation should not be initiated until all opening deficiencies are corrected.
- 2.4 The window installation subcontractor shall then be responsible to ensure that all windows are properly installed, adjusted and ready for use by the Owner, with the exception of final glass washing, which is to be preformed by the pre-occupancy clean-up subcontractor.

### 3.0 RESPONSIBILITIES:

- 3.1 The window installation subcontractor is responsible to gain a full and complete understanding of pertinent information relating to his/her scope of work including but not limited to this document, approved submittals, shop drawings, working construction drawings, project specifications and job site requirements.
- 3.2 The window installation subcontractor is responsible to train his/her workforce in proper material handling, erection and safety procedures, and pursuant with and including OSHA and Prime Contractor safety requirements.
- 3.3 Window installation subcontractor shall ensure that a qualified window installation superintendent is designated and on site during all window installation activities.
- 3.4 To provide all sealants, caulk, fasteners, shims, backer rod, bond breaker and/or machinery as required by this Project and sufficient qualified workmen to perform the installation professionally, safely and on time.
- 3.5 To ensure that all materials are of the type and quality required for this Project and that they are safely stored and protected prior to and during installation.

### 4.0 DUTIES:

- 4.1 The window installation subcontractor shall attend all required job site progress and safety meetings.
- 4.2 Maintain open communication and foster a harmonious relationship with General Contractor and other related trades.
- 4.3 Receive all window material shipments, verifying quality and quantity and that those products are fit for installation, immediately reporting any deficiencies directly to Seal Craft as well clearly listing any such problems the Bill of Laden.
- 4.4 General Contractor is responsible to ensure that rough openings in new construction are dimensionally accurate, plumb, square, true and not obstructed, allowing window installer free access to each opening.

### 5.0 INSTALLATION PROCEDURES:

- 5.1 Remove existing windows from openings without damage to surrounding finishes at the opening exterior and interior. This may require glass removal and destruction of the frame by 'collapsing' it into the opening. Remove all debris.
- 5.2 Inspect all openings scheduled for window installation for accuracy of dimension and squareness. All windows shall be anchored into openings plumb, square and without

rack or warp, using anchors of sufficient diameter and length to meet required design pressure. Utilize treated wood blocking and/or shims as may be required and/or as depicted on Shop Drawings.

- 5.3 Plan for installation fasteners to penetrate the structural stud framing or into structural masonry elements of the building (not into brick veneer).
- 5.4 Set windows into the openings and shim as required ensuring that the new window is centered, square and plumb in the opening (4 sides).
- 5.5 Fastener types and frequencies shall be according to the project specific engineer stamped fastener calculations. The AAMA 2501-06 Voluntary Guideline for Engineering Analysis of Window and Sliding Glass Door Anchorage Systems is the appropriate standard for fastener calculations.
- 5.6 Sealants to be as specified by architect or equal and applied around the full exterior and interior perimeter of newly installed windows. Follow sealant manufacturer's application instructions.
- 5.8 Seal any screw heads that penetrate the window's sill with 100% silicone. Special care must be taken to ensure that the screw head and surrounding sill area to be sealed is clean and dry. Follow sealant manufacturer's application instructions.
- 5.9 Check sash operation and make any adjustments as may be required per 6.0.

## 6.0 ADJUSTMENTS:

- 6.1 Ensure that all sash travel (open) to their full height without undue pressure, scrape or noise. Check jamb track for any debris, dents or obstructions that impede proper travel, correct as necessary. In the event that a sash balance has failed, notify Seal Craft immediately for replacement part, offering the unit size and Mark number, after confirming that the balance required was not included within "Customer Care Kit" provided.
- 6.2 Confirm that hung window jambs are not spread creating excessive lateral sash movement when sash is in the half open position. Measure horizontally between jambs at a point just above the sill and compare similar dimension at the midpoint of window height. Even a slight bow of the jambs (particularly on double hung windows) can cause the sash balances to lose friction and result in sash drift and poor sash operating characteristics. Jamb adjusters are located at the midpoint of each jamb (on double hung windows) and may be tightened with a Phillips head screwdriver to correct any spread at jamb conditions that may exist.
- 6.3 Ensure that sash lock(s) work as intended with appropriate amount of operating force. Confirm that sash is closing fully by checking meeting rail interlocks and upstanding

sill leg for construction debris or dents and correct as necessary.

- 6.4 Inspect all exposed finished surfaces for scratches, abrasions and dents and correct. Scratches and abrasions should be wet sanded with 400 grit emery cloth, wiped clean and painted with manufacturer provided touch up paint.
- 6.5 Remove all labels or stickers from glass surface, DO NOT remove any gold AAMA labels that may have been required.

#### 7.0 INSTALLATION TIPS:

- 7.1 When fasteners are applied through mainframe members and into the structure ensure that excessive tightening of the fastener does not pull or bow the frame member out of plumb or level. Proper use of shims at the fastener location may allow for the proper seating of fasteners without frame bow.
- 7.2 Where fasteners are used at window header locations; if conditions require penetrating steel lenti - ensure that masonry flashing above is not penetrated.
- 7.3 The installer may wish to ensure that all adjustments are made prior to application of perimeter sealants to ensure that the seal is not broken during adjustment and that there is no sealant smeared by workmen while making final adjustments.

#### 8.0 MANUFACTURERS DISCLAIMER:

- 8.1 Seal Craft is a manufacturer of quality commercial window systems and as such is compensated for the delivery of the same, per approved shop drawings, unto the job site. Seal Craft is not compensated for, and therefore assumes no responsibility for, building design, interface of its products with other building elements or any area of accountability other than the manufacture and delivery of quality window systems as required under each contract.
- 8.2 The qualifications and procedures as set forth herein are recommendations of Seal Craft as the manufacturer and are intended as a minimum guideline for the successful installation of its products and must be adhered to in order for the Seal Craft warranty to be in effect.
- 8.3 Upon review of the contract documents, shop drawings and manufacturers installation instructions, final architectural determination should be made as to any further requirements for flashing, sealant or any other detail that may need to be added or addressed to ensure proper interface with the new fenestration and the desired performance of the same.
- 8.4 Flashing and/or an appropriate method of sealing shall be designed as part of an overall weather resistant barrier system. It is not the responsibility of Seal Craft to

design or recommend a weather resistant barrier system appropriate for each job.

- 8.5 The qualifications and procedures as set forth herein must be reviewed and approved prior to commencement of installation activities by a duly authorized and accountable owner's representative or agent.
- 8.6 Seal Craft assumes no responsibility for any liability on account of the presence or growth of black mold or any other bacteriological growth in any building or structure in which its window systems are installed.
- 8.7 For building construction, which incorporates EIFS; the EIFS Industry Manufacturers Association (EIMA) guidelines must be adhered to in order for Seal Craft's product warranty to be valid.
- 8.8 By stamping and/or signing or by any other means affixing a 'mark' to the submittal booklet that contains these instructions, both architect and contractor demonstrate complete agreement and accept full responsibility for these installation procedures. Further, both architect and contractor agree that the manner in which the windows are installed is beyond the control of the manufacturer and as such, Seal Craft has no responsibility for any liabilities that may arise from the improper installation of its products.
- 8.9 Should field testing be a Project requirement, installing window contractor shall cooperate fully, preparing window unit(s) as requested by the Architect and/or Independent Laboratory personnel, but in no case participate in an unofficial "garden hose tests". Any field testing shall be pursuant with the current AAMA 502 Standard and Seal Craft shall be afforded the opportunity to attend any and all such testing and given a minimum of 15 work days notice in advance of any field testing.