

A healthcare professional, a woman with a ponytail wearing a white lab coat, is standing and holding the back of a wheelchair. An elderly man with a grey beard, wearing a plaid shirt and blue jeans, is sitting in the wheelchair. They are positioned in front of a large window that looks out onto a cityscape. The scene is brightly lit with natural light from the window.

**YKK  
ap**<sup>®</sup>

# WINDOW ACCESSIBILITY

Helping everyone enjoy a breath of fresh air.

## Accessibility Requirements

Creating spaces that meet the needs of everyone – including the old and disabled – doesn't have to be a pipe dream. To achieve accessibility, systems must meet the [ICC/ANSI A117.1](#) standard, which requires window and door hardware to have a certain operating force and limited motion requirements. YKK AP's hardware has been thoughtfully designed to meet ADA compliant and also meet the requirements of the Fair Housing Act (FHA), when incorporated as a part of a holistic, accessible design. With just one hand, our project out and casement windows can be unlocked, opened, closed and then re-locked with five pounds of force or less without straining your wrists.

## Examples of Places Needing Accessibility

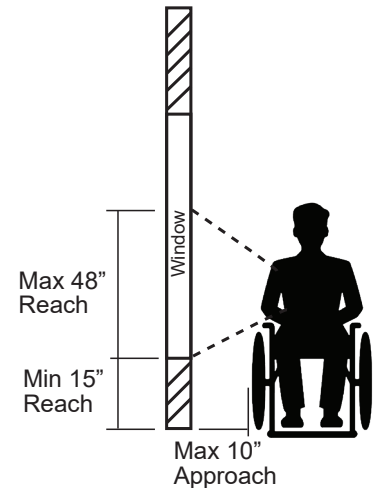
- Nursing Homes and Care Facilities
- Classrooms and Dorms
- Accomodated Hotel Rooms
- Condos and Apartments
- Senior Living Centers
- Hospitals and Medical Buildings

## How a System Qualifies for Accessibility

Systems and their hardware must be located and documented to meet the reach and approach requirements of ICC/ANSI A117.1. Height requirements may vary depending on any obstructions between the operator and the system. This may also include any local codes or project-specific requirements.

**AAMA 513-14:** As indicated on architectural drawings, is one operable window\* in each occupied space shall meet the operating force limits and motion restrictions of ICC/ANSI A117.1 Section 309.4, as tested in an AAMA-accredited lab.

\*More than one or all windows may be required to meet accessibility in an occupied space, depending on local specifications and codes.



## Accessibility Table for YKK AP Windows

Hardware Part Number	Hardware Description	YOV SSG YES SSG TU*	YOV SSG YES SSG TU*	YOW 225 YOW 225 TU YOW 350 TU**	YOW 225 YOW 225 TU YOW 350 TU**	YOW 225 YOW 225 TU YOW 350 TU**	YOW 225 YOW 225 TU	YOW 350 TU**
		Casement Out	Project Out	Casement Out	Project Out	Casement Out	Casement In	Casement In
		<b>Tested:</b> 36" x 62"	<b>Tested:</b> 44" x 80"	<b>Tested:</b> 37" x 61"	<b>Tested:</b> 44" x 80"	<b>Tested:</b> 40" x 80"	<b>Tested:</b> 40" x 78"	<b>Tested:</b> 40" x 78"
		AW 65	AW 45	AW 65	AW 45	AW 45	AW 45	AW 45
<b>E1-1966</b>	FMPL Standard 4"	✓ Standard	✓ Standard	✓ Standard	✓ Standard	✓ Standard		
<b>E1-1994</b>	FMPL Extended 8"	● Optional	● Optional	● Optional	● Optional	● Optional		
<b>H-1906 LH</b> <b>H-1907 RH</b>	VMPL Extended						✓ Standard	✓ Standard
<b>E1-1983</b>	Large Crank	✓ Standard	✓ Standard	✓ Standard	✓ Standard	✓ Standard		
<b>E1-1987 LH</b> <b>E1-1988 RH</b>	Single Arm 8"	✓ Standard		✓ Standard		✓ Standard		
<b>E1-1989 LH</b> <b>E1-1990 RH</b>	Single Arm 14"	✓ Standard		✓ Standard		✓ Standard		
<b>E1-1991 5.5"</b> <b>E1-1992 11"</b> <b>E1-2012 7"</b> <b>E1-2013 9"</b>	Dual Arm Operator		✓ Standard		✓ Standard			
<b>E1-1995 10"</b> <b>E1-1996 12"</b> <b>E1-1997 16"</b> <b>E1-1998 20"</b> <b>E1-1999 24"</b>	Loose Rivet 4-Bar Hinge		✓ Standard		✓ Standard			
<b>E1-1957</b>	4-Bar Hinge			✓ Standard		✓ Standard	✓ Standard	✓ Standard
<b>E1-1986</b>	4-Bar Hinge	✓ Standard						
<b>E1-1714</b> <b>E1-1715</b>	Butt Hinge			● Optional		● Optional	● Optional	
<b>E1-1975</b>	Limit Device	● Optional	● Optional					
<b>E1-1904</b>	Limit Device			● Optional	● Optional	● Optional	Special***	Special***

\* Based off of YOVS SSG Window Testing

\*\* Based off of YOW 225 TU Window Testing

\*\*\* Standard for CI Head, Optional for Fall Prevention  
1 of each required at Head and Sill Members



## Accessibility Hardware



Vent Multi-Point Latch  
(Inswing Only)

H-1906 - Left Hand  
H-1907 - Right Hand

Black, White,  
Satin Chrome &  
Satin Nickel finishes



Frame Multi-Point Latch  
(Outswing Only)

H-1966 - 4" Length  
H-1994 - 8" Length

Black, White,  
Satin Chrome &  
Satin Nickel finishes



Butt Hinge  
(Outswing/Inswing)

H-1714 - Left Hand  
H-1715 - Right Hand

Black, White  
& Mill finishes



4-Bar Hinge

### Project Out

E1-1995 - 10" Length  
E1-1996 - 12" Length  
E1-1997 - 16" Length  
E1-1998 - 20" Length  
E1-1999 - 24" Length

### Casement

E1-1986 - 12" Length  
E1-1957 - 12" Length  
Heavy Duty

Available only  
in Stainless Steel

Casement Operator

### Short 8"

E1-1987 - Left Hand  
E1-1988 - Right Hand

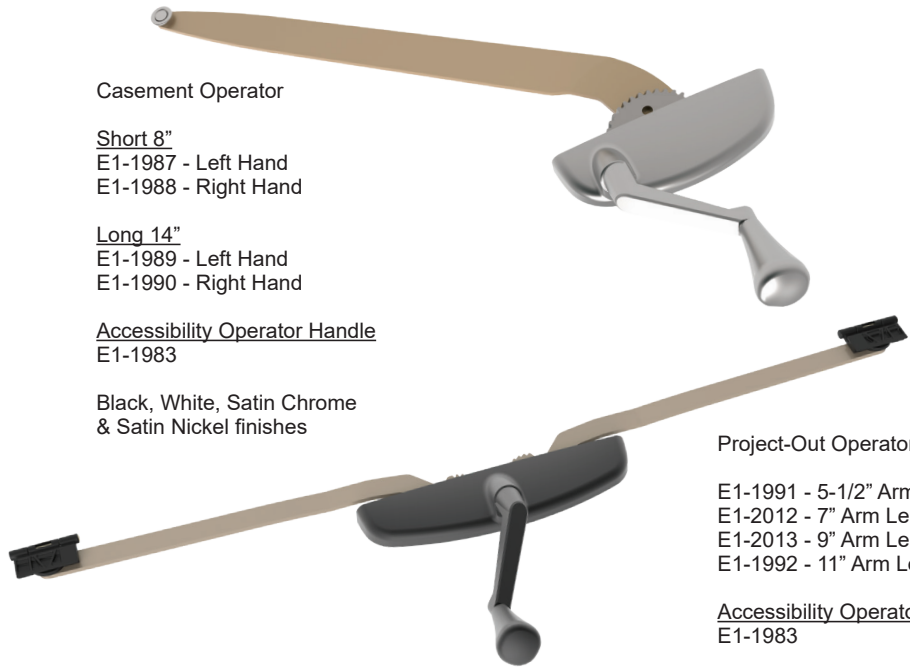
### Long 14"

E1-1989 - Left Hand  
E1-1990 - Right Hand

### Accessibility Operator Handle

E1-1983

Black, White, Satin Chrome  
& Satin Nickel finishes



Project-Out Operator

E1-1991 - 5-1/2" Arm Length  
E1-2012 - 7" Arm Length  
E1-2013 - 9" Arm Length  
E1-1992 - 11" Arm Length

### Accessibility Operator Handle

E1-1983

Black, White, Satin Chrome  
& Satin Nickel finishes



# Accessibility Frequently Asked Questions

## Are YKK AP Products ADA compliant or certified?

There is no official testing methods or procedures as the Americans with Disabilities Act (ADA) does not detail or outline any sort of requirements. Therefore, there are no certifications or verifications for any company. YKK AP does select the hardware and it is tested with our systems to be **capable** of the accessibility requirements. YKK AP does have Fair Housing Act (FHA) certification as this act does have requirements to qualify.

## Are there special requirements to install and adjust windows for accessibility?

Our systems will need extra attention to detail on installations, adjustments and maintenance to keep them ADA compliant. As with all of our systems, making sure it is plumb, square and true would be essential for optimal use. If not, this can affect the operating force of hardware and any adjustments made after installation.

## What constitutes an ADA compliant window and ICC/ANSI A117.1?

AAMA 513 talks about accessibility in relation to the ADA. It defines an accessible window as an operating assembly including the frame, sash, hardware and any other accessories related as required by the project or local codes. The ICC/ANSI A117.1 directly states that *"The system needs to be accessible to and usable by people with such physical disabilities as the inability to walk, general difficulty walking, reliance on walking aids, blindness and visual impairments, deafness and hearing impairments, in co-ordination, reaching and manipulation disabilities, lack of stamina, difficulty interpreting and reacting to sensory information, and extremes of physical size."*

## Can windows be converted to be ADA compliant?

It depends on the configuration of the system and the type of field work required for the change. More often than not, the hardware would need to be repositioned or replaced, which can leave prep holes exposed. Because of this, a window sash or vent would need to be changed to satisfy these requirements. Please consult our YKK AP Engineering team at our headquarters location for more information.

## YKK AP Locations

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