

## SHIP WINDOWS - FIXED



<b>installation method</b>	welded
<b>shapes available</b>	rectangular, trapezoid, circular, oval, special
<b>frame material</b>	ST, SS, AL
<b>glass retainer material</b>	ST, AL, brass
<b>optional mulion options</b>	vertical, horizontal external storm cover, deadlight



<b>installation method</b>	bolted
<b>shapes available</b>	rectangular, trapezoid, circular, oval, special
<b>frame material</b>	ST, SS, AL
<b>glass retainer material</b>	ST, AL, brass
<b>optional mulion options</b>	vertical, horizontal external storm cover, deadlight



<b>installation method</b>	clamped
<b>shapes available</b>	rectangular, trapezoid, circular, oval, special
<b>frame material</b>	ST, SS, AL
<b>glass retainer material</b>	ST, AL, brass
<b>optional mulion options</b>	vertical, horizontal external storm cover, deadlight

## SIDE SCUTTLES - FIXED



<b>installation method</b>	welded
<b>frame material</b>	ST, SS, AL
<b>glass retainer material</b>	ST, AL, brass
<b>optional mulion options</b>	vertical, horizontal external storm cover, deadlight



<b>installation method</b>	bolted
<b>frame material</b>	ST, SS, AL
<b>glass retainer material</b>	ST, AL, brass
<b>optional mulion options</b>	vertical, horizontal external storm cover, deadlight

## SHIP WINDOWS - OPENING



<b>installation method</b>	welded
<b>shapes available</b>	rectangular, trapezoid, circular, oval, special
<b>frame material</b>	ST, SS, AL
<b>glass retainer material</b>	ST, AL, brass
<b>optional mulion</b>	vertical, horizontal
<b>options</b>	external storm cover, deadlight



<b>installation method</b>	bolted
<b>shapes available</b>	rectangular, trapezoid, circular, oval, special
<b>frame material</b>	ST, SS, AL
<b>glass retainer material</b>	ST, AL, brass
<b>optional mulion</b>	vertical, horizontal
<b>options</b>	external storm cover, deadlight



<b>installation method</b>	clamped
<b>shapes available</b>	rectangular, trapezoid, circular, oval, special
<b>frame material</b>	ST, SS, AL
<b>glass retainer material</b>	ST, AL, brass
<b>optional mulion</b>	vertical, horizontal
<b>options</b>	external storm cover, deadlight

## SIDE SCUTTLES - OPENING



<b>installation method</b>	welded
<b>frame material</b>	ST, SS, AL
<b>glass retainer material</b>	ST, AL, brass
<b>optional mulion</b>	vertical, horizontal
<b>options</b>	external storm cover, deadlight



<b>installation method</b>	bolted
<b>frame material</b>	ST, SS, AL
<b>glass retainer material</b>	ST, AL, brass
<b>optional mulion</b>	vertical, horizontal
<b>options</b>	external storm cover, deadlight

# SLIDING WINDOWS



**type** horizontal  
**installation method** bolted  
**shapes available** rectangular, special  
**frame material** ST, SS, AL  
**glass retainer material** ST, AL, brass



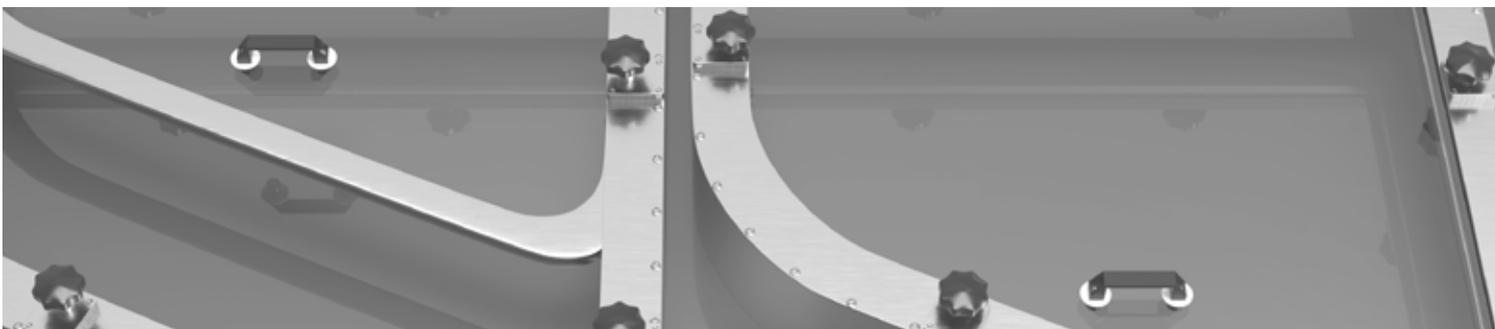
**type** horizontal  
**installation method** welded  
**shapes available** rectangular, special  
**frame material** ST, SS, AL  
**glass retainer material** ST, AL, brass



**type** vertical  
**installation method** bolted  
**shapes available** rectangular, special  
**frame material** ST, SS, AL  
**glass retainer material** ST, AL, brass



**type** vertical  
**installation method** welded  
**shapes available** rectangular, special  
**frame material** ST, SS, AL  
**glass retainer material** ST, AL, brass



## WIPERS



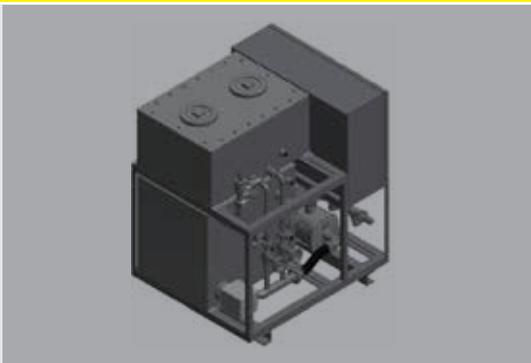
**types** pantograph / pendulum  
**models** W40.16-A  
W40.16-AS  
W60.16-A  
W60.16-AS  
W60.16-A.02  
W60.16-Z  
**cleaning area** up to 70%



**types** horizontal  
**models** WAL.E.2100  
WAL.I.2100  
**cleaning area** up to 90%

**Accessories:** spray system, electrovalves, tanks for spray systems, PSU power distribution cabinets.

## WASHING UNITS



**Advanced washing units** Model WWS.01 Model WWS.03 Model WWS.300D Such units are used to supply the appropriate cleaning agent to the piping system and nozzles installed on windows or wipers. Such devices have functions such as:

- Fresh water heating
- Additional detergent tank
- Additional glycol tank
- Automatic refilling of fresh water in the main tank
- System pressure measurement up to 7 BAR
- Electronic level measurement in all liquid tanks
- Full communication with the system installed on the bridge along with signaling of low fluid levels
- Advanced control system based on the MS 24 VDC touch panel that controls the wipers.