

# REA



REA METAL WINDOWS LIMITED (EST 1906)

## W40 Range of Mild Steel Windows / Doors



Project Name: Opal Mews, London NW6 (External View)

## **INTRODUCTION:**

The **W40** range is an evolutionary development of the W20. The new profiles offer all the characteristic benefits of steel: slim sight lines that are difficult to match in the bulky profiles of other materials; inherent strength and security; positive rust proofing by the hot dip galvanising process plus factory applied stove polyester colour coatings to provide durable, proven low maintenance finishes.

## **GLAZING:**

Gasket glazed 26mm insulating glass units can be accommodated. Most UK wind loading requirements for glass deflection can be satisfied by sealed units comprising 2 sheets of 4mm glass. This means that the higher insulation values of 16mm air gaps are available.

## **WEATHER TIGHTNESS:**

The introduction of a dual weather seal comprising external rain screen and internal air seal has gone a long way towards the improvements that have been made. The product range has been subject to extensive laboratory testing through all stages of its development.

## **STYLES OF OPENING VENT:**

The same wide range of frames and opening vents that are available in the W20 range are available from W40 as follows:

Fixed Light  
Projection Top Hung  
Projection Side Hung  
Bottom Hung  
Vertical Pivot

Top Hung  
Side Hung Open Out  
Side Hung Open In  
Horizontal pivot  
Single Leaf/Double Doors



**Project Name: Opal Mews, London NW6 (Internal view – First Floor)**

**FINISH:**

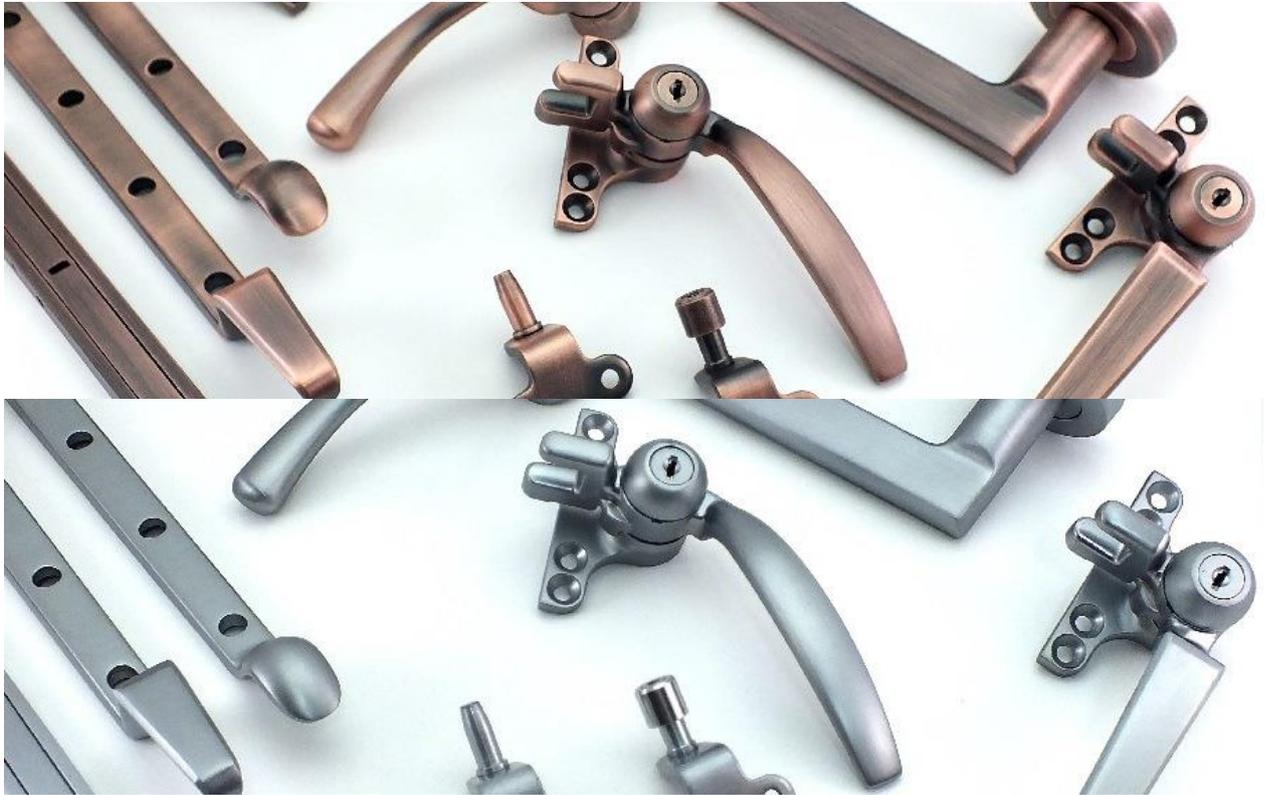
All steel bars and sheet material is positively rust proofed by hot dip galvanising. It can be further finished with a factory applied stove polyester coating to BS 6497 from a large range of standard colours.



**FITTINGS:**

Traditional surface mounted hardware, or concealed variable geometry hinges are specially developed concealed multipoint locking handles.

Traditional fitting available in a range of colours



Standard Door Handle:  
Steel Worx SW14 Stainless Steel Lever  
Handle



**TRICKLE/BACKGROUND VENTILATION:**

Through the frame ventilation can be provided through many styles of opening vents. Both the single cockspur and 2point handles can be locked in the fully closed and trickle ventilation position.

**DIMENSIONS:**

Windows are purpose made in any size, generally within the limits shown in the table below; sizes outside these limits can be made after consultation.

COMPONENT	Width:		Height:		Perimeter: Maximum (mm)
	Minimum (mm)	Maximum (mm)	Minimum (mm)	Maximum (mm)	
<b>WINDOWS</b>					
Fixed Light	300	3000	300	3000	9200
Top Hung	300	1800	300	1800	6400
Side Hung	300	1000	300	2400	6400
Bottom Hung	200	1800	200	1500	6400
Horizontal Pivot	400	1800	400	1800	6400
Vertical Pivot	400	1500	400	2400	6500
<b>DOORS</b>					
Single	600	1000	2000	2500	6600
Double	1200	1800	2000	2500	8400

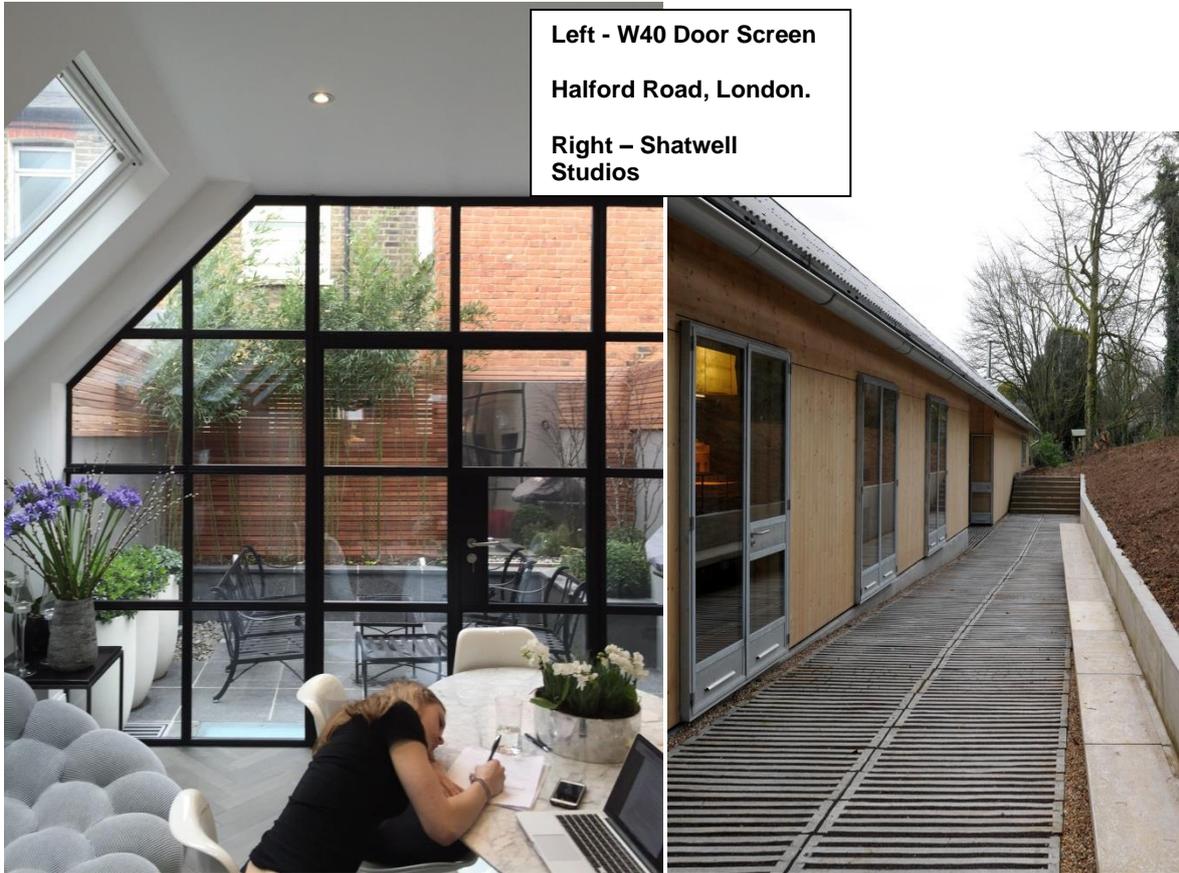
### THERMAL PERFORMANCE (Energy Conservation):

W40 steel windows can accommodate sealed glass units up to 24mm thick, which can comply with Part L (England & Wales), of the current Building Regulation.. W40 steel windows in conformity with prEN ISO 10077-2: 2001 shows that a W40 standard reference window (BR 443) double glazed with a 24mm double glazed unit comprising a super soft low E coating to the inner pane and an argon gas filled cavity of 16mm (Warm edge spacer), will offer a whole window "U" value of 2.0 Wm<sup>2</sup>K.

### PERFORMANCE

Weather tightness has been tested to BS 6375. Test pressure classes are related to design wind pressure ranging from relatively sheltered exposure, up to 1200 Pascal's, to severe exposure, reaching 2400 Pascal's. Weather tightness has tested to BS 6375. Test pressure classes are related to design wind pressures ranging from relatively sheltered exposure, up to 1200 Pascal's, to severe exposure, reaching 2400 Pascal's (*Refer to air permeability, water-tightness and wind resistance Table below*)

COMPONENT	AIR PERMEABILITY (Pascal)	WATER TIGHTNESS (Pascal)	WIND RESISTANCE (Pascal)
<b>REA W40</b>			
Fixed Light	300	300	2400
Top Hung	300	300	2400
Side Hung Open Out	300	300	2400
Side Hung Open In	300	100	2400
Bottom Hung	200	100	2400
Horizontal Pivot	200	100	2400
Vertical Pivot	100	50	2400



Left - W40 Door Screen  
 Halford Road, London.  
 Right – Shatwell Studios

**AUTHORITY:**

The windows are manufactured in accordance with the general principles of BS 6510:2002 Specification for steel windows. **REA** operates a Quality Management system which complies with the requirements of BS EN ISO 9001:2008 Certificate No.FM 20449 and is a BSI Registered firm for design and manufacture.

**SERVICE OFFERED:**

REA Metal Windows Limited will manufacture, install and glaze all of its product range and, when necessary, remove an existing installation prior to replacement. It is recommended that the windows should be installed and glazed by the company to ensure correct assembly and glazing procedures are adopted.

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