





# **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 compromising 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.

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RAL 1000	RAL 1027	RAL 3012	RAL 5004	RAL 6004	RAL 6026	RAL 7021	RAL 8007	RAL 9018
RAL 1001	RAL 1028	RAL 3013	RAL 5005	RAL 6005	RAL 6027	RAL 7022	RAL 8008	RAL 1023
100								
FIAL 1002	RAL 1032	RAL 3014	RAL 5007	RAL 6006	RAL 6028	RAL 7023	RAL 8011	RAL 2009
RAL 1003	RAL 2000	RAL 3015	RAL 5008	RAL 6007	FIAL 6029	RAL 7024	RAL 8012	RAL 3020
			11 11					
RAL 1004	RAL 2001	RAL 3016	BAL 5009	RAL 6008	RAL 6032	RAL 7026	RAL 8014	RAL 4006
RAL 1005	RAL 2002	RAL 3017	RAL 5010	RAL 6009	RAL 7000	RAL 7030	BAL 8015	RAL 5017
RAL 1006	RAL 2003	RAL 3018	RAL 5011	RAL 6010	RAL 7001	RAL 7031	RAL 8016	RAL 6024
							THE REAL PROPERTY.	
RAL 1007	RAL 2004	RAL 3022	RAL 5012	RAL 6011	RAL 7002	RAL 7032	RAL 8017	RAL 7042
RAL 1011	RAL 2008	RAL 3027	RAL 5013	BAL 6012	RAL 7003	RAL 7033	RAL 8019	RAL 7043
RAL 1012	RAL 2010	RAL 4001	RAL 5014	RAL 6013	RAL 7004	RAL 7034	RAL 8022	BAL 9016
RAL 1013	RAL 2011	RAL 4002	RAL 5015	RAL 6014	RAL 7005	RAL 7035	RAL 8023	RAL 9017
RAL 1014	RAL 3000	RAL 4003	FIAL 5018	RAL 6015	RAL 7006	RAL 7036	FIAL 8024	
RAL 1015	RAL 3001	RAL 4004	RAL 5019	RAL 6016	PAL 7008	RAL 7037	RAL 8025	
RAL 1016	RAL 3002	RAL 4005	RAL 5020	RAL 6017	RAL 7009	RAL 7038	RAL 9001	
	September 1							
RAL 1017	RAL 3003	RAL 4007	RAL 5021	FIAL 6018	RAL 7010	RAL 7039	RAL 9002	
RAL 1018	RAL 3004	RAL 4008	RAL 5022	RAL 6019	RAL 7011	RAL 8000	RAL 9003	
RAL 1019	RAL 3005	RAL 5000	RAL 6000	RAL 6020	RAL 7012	RAL 8001	RAL 9004	
RAL 1020	RAL 3007	RAL 5001	RAL 6001	RAL 6021	RAL 7013	BAL 8002	RAL 9005	
	THE REAL PROPERTY.	IN WAS		THE REAL PROPERTY.				1
RAL 1021	RAL 3009	RAL 5002	RAL 6002	RAL 6022	RAL 7015	RAL 8003	BAL 9010	· ~
RAL 1024	BAL 3011	RAL 5003	RAL 6003	RAL 6025	RAL 7016	RAL 8004	RAL 9011	

## 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:			Perimeter:		
	Minimum (mm)	Maximum (mm)	Minimum (mm)	Maximum (mm)	Maximum (mm)
WINDOWS					
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
DOORS					
Single	600	1000	2000	2500	6600
Double	1200	1800	2000	2500	8400

## THERMAL PERFORMACE (Energy Conservation):

W40 steel windows can accommodate sealed glass units up to 24mm thick, which can comply with Part L (England & Wales),f 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 Wm²K.

#### **PERFORMANCE**

Weather tightness has been tested to BS 6375. Test pressure classes are related to design wind pressure ranging from relativity sheltered exposure, up to 1200 Pascal's, to server exposure, reaching 2400 Pascal's. Weather tightness has tested to B3 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 PERMEABILIT Y (Pascal)	WATER TIGHTNESS (Pascal)	WIND RESISTANCE (Pascal)
REA W40			
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



## **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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