Garage Doors With
A Unique Quality

TECHNICAL GUIDE
APRIL 2008
**SECTIONAL GARAGE DOORS**

**TECHNICAL & GENERAL INFORMATION**

**VIENNA**

Vienna is a double skinned fully finished and made to measure G.R.P. Sectional Garage door. The panels are made from triple layer resin 450 gram G.S.M. glass mat reinforcement and ‘matted in’ steel stiffeners. The rear of the door is finished with a white textured G.R.P. panel. Doors over 4420mm (14'6") have additional white powder coat bracings attached to the rear of the panels. Vienna features full weather seals on both sides, at the head and where the door closes to the ground to reduce water and wind borne debris ingress. The interface of each panel has an anti-finger-trap CEN compliant safety design (patent pending). Vienna is available in High Gloss White and all standard Wessex Woodgrain colours including the three solid colour options.

**VIENNA DC**

Vienna DC has all the benefits of Vienna but is supplied with a state-of-the-art electric operator which is matched to the Vienna door. A DC500NIII, with a 650N lifting force, is supplied for doors up to 3048mm (10'0") wide and the more powerful DC800NIII, with 800N lifting force, is supplied for doors over this size. Both operators feature DC motors, soft start-soft stop and anti-back drive security system. This reacts to movement on the boom, if forced entry of a closed door is attempted, and automatically switches from stand-by mode to drive the door closed. A very quiet toothed cable drive one-piece boom is standard with chain drive available as a no cost option. A kevlar belt drive option is available for even smoother, quieter operation. Please note that a two-piece extended boom is recommended for doors over 2134mm (70") high.

**VIENNA 40**

Vienna 40 has double skinned, foam filled, insulated panels for maximum insulation, sound proofing and strength. The rear of the door is finished with a white textured G.R.P. panel. Doors over 4420mm (14'6") have additional white powder coat bracings attached to the rear of the panels. Vienna 40 also has all round weather seals and an anti-finger-trap panel interface design (patent pending). Vienna 40 is available in High Gloss White and all standard Wessex Woodgrain colours including the three solid colour options.

**VIENNA 40 DC**

Vienna 40 DC has all the benefits of Vienna 40 but is supplied with a state-of-the-art electric operator which is matched to the Vienna 40 door. A DC500NIII, with a 650N lifting force, is supplied for doors up to 3048mm (10'0") wide and the more powerful DC800NIII, with 800N lifting force, is supplied for doors over this size. Both operators feature DC motors, soft start-soft stop and anti-back drive security system. This reacts to movement on the boom, if forced entry of a closed door is attempted, and automatically switches from stand-by mode to drive the door closed. A very quiet toothed cable drive one-piece boom is standard with chain drive available as a no cost option. A Kevlar belt drive option is available for even smoother, quieter operation. Please note that a two-piece extended boom is recommended for doors over 2134mm (70") high.

**GEARING**

Vienna lifting gear is a CEN Compliant galvanised steel dual track system with standard low head room gear. Vienna requires only 70mm side and headroom clearance and the top edge of the top panel does not rise above the horizontal track. If the ‘Manual locking’ option is selected, headroom requirement increases by 60mm and both DC variants require an additional 30mm headroom for the operator boom (50mm on doors over 4420mm / 14'6"). The spring assembly is not wider than the track which means easy installation to flush walls. There is no reduction of drive through width and drive through height is reduced by only 70mm on a manual door and 30mm on an automated door.

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**GENERAL INFORMATION**

**Locking**

All Vienna variants are supplied without locking. If ordered as a manually operated door, or locking is required, the ‘Manual locking’ option must be ordered. The door is prepared for the handle to fit in the first right hand vertical stile, viewed from outside, on the second panel up from the floor.

**Window Options**

Vienna, Vienna 40 and DC variants are available with black (opaque) windows, which cannot be seen through. Clear and stippled translucent windows are not available.

**Matching Woodgrain Vienna Doors**

Where doors are to be fitted in close proximity and are required to be coloured as closely as possible, it is vital that they are clearly requested ‘To Match’ at time of ordering.

**Made to Measure Vienna Doors**

For a made to measure price take the door size up e.g. 3810mm (12'6") wide x 2032mm (6'8") high is taken from the 3962mm (13'0") wide x 2134mm (70") high price.

**Opening Size**

All door sizes in this price list refer to internal brickwork/ internal frame dimensions. See note “How to order your Door”

**How to Order Your Door**

Sectional doors are designed to be fitted either on to the back face of a brickwork opening or on to the back face of a timber frame* fitted within the opening. Therefore when ordering your door you must either give us the internal brickwork opening size for doors being fitted directly to the back of the brickwork, or the internal timber frame* size for doors being fitted on to a timber frame*.

**Top & Bottom Rails & End Stiles**

Top, bottom and end stiles (edges) may vary in width or height between doors of the same style depending on size ordered. This is to enable us to cater for your particular size of garage door. If in doubt, please refer to Wessex before ordering.

**FINISHING & MAINTENANCE**

**G.R.P. Doors**

Please study the cleaning and maintenance label attached to the back of the door for advice on keeping your door in top class condition.

**Door Lubrication**

All doors require regular (6 monthly) lubrication of the pivot points and bearings.
TECHNICAL & GENERAL INFORMATION

G.R.P. CROWN RANGE

- 3 Crown G.R.P. Doors
  Garage doors in standard and made to measure sizes, with an integral steel frame bonded over to provide added strength and rigidity. Available with canopy or retractable gear.

- 4 Crown G.R.P. Doors
  Garage doors in standard and made to measure sizes, featuring a double skin flat back construction with internal steel reinforcing. Doors over 10' wide feature external white powder coated steel horizontal stiffeners to the rear of the panel for increased rigidity. Available with canopy or retractable gear.

- 5 Crown G.R.P. Doors
  Garage doors in standard and made to measure sizes, with an integral steel frame with a flat textured G.R.P. panel bonded to the back of the door. This provides supreme rigidity and an attractive backing to hide the bracing normally visible on all other G.R.P. doors. Available with retractable gear only. Due to the double-wall construction of these doors, no clear or stippled window options are available. NB. 5 Crown doors are only available up to a maximum of 3048mm (10'0") wide and a maximum of 2134mm (7'0") high.

GEARING

- SafeLift (Canopy Gear)
  Canopy doors between 1778mm (5'10") and 2134mm (7'0") high and up to 2438mm (8'0") wide are fitted with SafeLift gear featuring high security three point locking and five point retention.

- Maxi-mizer Single Retractable Gear
  All retractable doors (excluding 5 Crown) between 1829mm (6'0") and 2286mm (7'6") high and up to 2438mm (8'0") wide and all 5 Crown doors up to 2286mm (7'6") wide and 2134mm (7'0") high are supplied with Maximizer gear. This gear includes unique maximum opening width feature and multi springing. Three point locking is standard on most doors.

- Double and Heavy Retractable Gear
  All doors over 2286mm (7'6") high, all 5 Crown doors over 2286mm (7'6") wide and all other doors over 2438mm (8'0") wide are supplied with these gears. All have multi-springing feature.

LOCKING

All Wessex doors are supplied with secure multi-point locking as standard. Optional brass effect lock available (not NorfolkII and SuffolkII which are supplied with "T" handle lock only).

GENERAL INFORMATION

- Handle Positions
  These will vary between canopy and retractable doors of the same size and same style, and between doors of different sizes of the same style with the same gear.

- Handle Holes
  These will be drilled as standard. If a handle hole is not required this must be clearly stated at time of ordering.

- Glazed G.R.P. Doors
  All window design doors are fitted with standard black (opaque) windows, which cannot be seen through. Clear and stippled translucent windows are available as options on 5 Crown doors only.

- Matching Woodgrain G.R.P. and Timber Doors
  Where doors are to be fitted in close proximity and are required to be coloured as closely as possible, it is vital that they are clearly requested to match by the time of ordering.

- Made to Measure Door Prices
  Take the next door size up e.g. 3810mm (12'6") wide x 2032mm (6'8") high take the 3962mm (13'0") price. Note: Where a price is marked * please refer to the size parameter details below the price for the actual maximum door size available.

- Opening Size
  All door sizes stated in this price list refer to internal frame dimensions. Due to the bespoke nature of Wessex garage doors we regret we cannot accept order cancellations.

- Top & Bottom Rails & End Stiles
  Top, bottom and end stiles (edges) may vary in width or height between doors of the same style depending on size ordered. This is to enable us to cater for your particular size of garage door. If in doubt, please refer to Wessex before ordering.

FINISHING & MAINTENANCE

- G.R.P. Doors
  Please study the cleaning and maintenance label attached to the back of the door for advice on keeping your door in top class condition.

- ABS Doors
  These doors require no finishing and need only a quick wash down at regular intervals.

- Timber Doors
  These need to be treated immediately upon delivery to site with a suitable clear or coloured stain to avoid marking or discolouration and to avoid invalidation of the warranty.

- Steel Doors and Frames
  Primed, steel doors and steel frames require a suitable undercoat and topcoat to be applied shortly after delivery in order that the product warranty is not invalidated.

- Door Lubrication
  All doors require regular (6 monthly) lubrication of the pivot points and bearings. Full details are contained in the Wessex Service Passport supplied with the door.

IMPERIAL - METRIC CONVERSION TABLE

<table>
<thead>
<tr>
<th>Imperial</th>
<th>6'6&quot;</th>
<th>7'0&quot;</th>
<th>7'5&quot;</th>
<th>7'6&quot;</th>
<th>8'0&quot;</th>
<th>9'0&quot;</th>
<th>10'0&quot;</th>
<th>11'0&quot;</th>
<th>12'0&quot;</th>
<th>13'0&quot;</th>
<th>14'0&quot;</th>
<th>15'0&quot;</th>
<th>16'0&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metric (mm)</td>
<td>1981</td>
<td>2134</td>
<td>2261</td>
<td>2286</td>
<td>2438</td>
<td>2743</td>
<td>3048</td>
<td>3353</td>
<td>3658</td>
<td>3962</td>
<td>4267</td>
<td>4572</td>
<td>4877</td>
</tr>
</tbody>
</table>
FRAMES

Steel Frames
Canopy Doors
Suitable for all single doors up to 2438mm x 2134mm (8'0" x 7'0"). Frames are pre-fitted to the door. Standard frame jambs are 54mm (2.1/8") wide (optional jambs of 68mm (2.2/3") available on request) and head is 68mm (2.2/3") high. Minimum door height 1778mm (5'10").

When an Autoglide electric operator is to be specified together with a Wessex Quick Fit Canopy Standard Steel Frame, the frame must be fitted either behind the brickwork or with the rear of the frame flush with the rear of the brickwork.

Single Retractable Doors on Maxi-mizer Door Gear
Suitable for all single doors on Maxi-mizer gear up to 2438mm x 2134mm (8'0" x 7'0") except 5 Crown up to 2286mm x 2134mm (7'6" x 7'0") high. Minimum door height 1829mm (6'0").

Double Retractable Doors on Double or Heavy Door Gear
Suitable for all double doors on double or heavy gear up to 4877mm x 2438mm (16'0" x 8'0") except 5 Crown doors up to 3048 x 2134mm (10'0" x 7'0") high. Minimum length is 1829mm (6'0").

Side Hinged Doors
Suitable for all Side Hinged and Personnel Doors. Jambs are 68mm wide and head is 68mm high.

Colours
Plastic frame colours are:
White BS00E55, Brown (Van dyke brown) BS00E55, Black BS00E53
Woodgrain Golden Oak and Rosewood are polymer laminates and provide a reasonable match to Honey Beech and Dark Mahogany respectively. Please request a sample for confirmation.

OPERATOR TECHNICAL SPECIFICATION

<table>
<thead>
<tr>
<th>Feature</th>
<th>DC - 550NIII Retractable and sectional</th>
<th>DC - 650NII Retractable and sectional</th>
<th>DC - 800NIII Retractable and sectional</th>
</tr>
</thead>
<tbody>
<tr>
<td>Opening force</td>
<td>550N with electronics &quot;Soft Start &amp; Stop&quot;</td>
<td>650N electronics &quot;Soft Start and Stop&quot;</td>
<td>800N electronics &quot;Soft Start and Stop&quot;</td>
</tr>
<tr>
<td>Normal running load</td>
<td>200W max (with 120V 40 Watt light on)</td>
<td>200W max (with 120V 40 Watt light on)</td>
<td>200W max (with 230V 40 Watt light on)</td>
</tr>
<tr>
<td>Standby load</td>
<td>5A Watts (energy saving circuit)</td>
<td>5A Watts (energy saving circuit)</td>
<td>5A Watts (energy saving circuit)</td>
</tr>
<tr>
<td>Motor</td>
<td>24V DC with thermal overload protection on transformer</td>
<td>24V DC with thermal overload protection on transformer</td>
<td>24V DC with thermal overload protection on transformer</td>
</tr>
<tr>
<td>Encoder</td>
<td>Smart Entry System auto-calibrating motherboard with LED diagnostics</td>
<td>Smart Entry System auto-calibrating motherboard with Numerical Display diagnostics</td>
<td>Smart Entry System auto-calibrating motherboard with Numerical Display diagnostics</td>
</tr>
<tr>
<td>Drive method</td>
<td>Cable &amp; Tooth (Chain or Kevlar Belt Option)</td>
<td>Cable &amp; Tooth (Chain or Kevlar Belt Option)</td>
<td>Cable &amp; Tooth (Chain or Kevlar Belt Option)</td>
</tr>
<tr>
<td>Safety door reverse</td>
<td>To fully open position</td>
<td>To fully open position</td>
<td>To fully open position</td>
</tr>
<tr>
<td>Lift</td>
<td>Integral 240V fitting with diffuser cover 40W maximum</td>
<td>Integral 240V fitting with diffuser cover 40W maximum</td>
<td>Integral 240V fitting with diffuser cover 40W maximum</td>
</tr>
<tr>
<td>Standard boom</td>
<td>1 piece C. channel with 24&quot;x9mm carriage travel – total operator length 5331mm</td>
<td>1 piece C. channel with 2509mm carriage travel – total operator length 5335mm</td>
<td>1 piece C. channel with 2509mm carriage travel – total operator length 5355mm</td>
</tr>
<tr>
<td>Extended boom (optional)</td>
<td>Medium</td>
<td>1 piece assembled or 2 piece semi assembled C-channel with 2509mm carriage travel</td>
<td>1 piece assembled or 2 piece semi assembled C-channel with 2509mm carriage travel</td>
</tr>
<tr>
<td>Extended boom (optional)</td>
<td>Long</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Door size suitability</td>
<td>For Wessex doors up to 4267 x 2134mm (14'0&quot; x 7'0&quot;) except 5 Crown doors up to 3048 x 2134mm (10'0&quot; x 7'0&quot;)</td>
<td>For Wessex doors up to 4267 x 2134mm (14'0&quot; x 7'0&quot;) except 5 Crown doors up to 3048 x 2134mm (10'0&quot; x 7'0&quot;)</td>
<td>For Wessex retractable and sectional doors including those outside the range of the DC - 550NII/DC - 650NIII</td>
</tr>
<tr>
<td>Headroom required</td>
<td>10mm</td>
<td>15mm</td>
<td>30mm</td>
</tr>
<tr>
<td>Sideroom required</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Drive side</td>
<td>Radio receiver</td>
<td>Digital module. Easy to exchange for other frequencies</td>
<td>Digital module. Easy to exchange for other frequencies</td>
</tr>
<tr>
<td>Radio transmitter</td>
<td>2.4GHz MHE four button mini handsets, with multibit coding (261 billion variations)</td>
<td>2.4GHz MHE four button mini handsets, with multibit coding (261 billion variations)</td>
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</tr>
<tr>
<td>Transmitter range</td>
<td>10 – 50 metres</td>
<td>10 – 50 metres</td>
<td>10 – 50 metres</td>
</tr>
<tr>
<td>Self push button</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>
SAFELIFT (CANOPY) DOOR GEAR SPECIFICATIONS

STANDARD DOOR AND BRICKWORK APERTURE SIZES

- canopy gear should be fitted either to a weatherbeaded 70mm x 70mm (2.3/4” x 2.3/4”) standard timber ‘goalpost’ frame (not supplied) or a Wessex steel frame (standard frame dimensions = 54mm (2.1/8”) wide on side section (optional 68mm (2.2/3”) available on request) 68mm (2.2/3”) high on top section, 35mm (1.1/3”) deep all round).

- The minimum headroom required above the lower face of the frame head is 48mm (1.7/8”).

NOTES

- In use the lifting gear reduces drive through heights by 91mm (3.5/8”), although there is no reduction in width.

- For back fixed frames allow the frame to overlap into the aperture by 13mm (1/2”) on both sides to allow for coursing and tolerances.

FITTING FRAMES TO THE BRICKWORK

Frames may be fitted within or behind the brickwork as per the drawings shown. Fitting behind the brickwork, if the garage length allows, will increase the drive-through width.

A weatherbead should always be fitted to the under-side of the door frame lintel in front of the door to hide the top gap. This feature is integral on the Wessex steel frame.

Opening arcs of travel

Wessex 1981mm (6’6”) high SafeLift canopy doors

Wessex 2134mm (7’0”) high SafeLift canopy doors
RETRACTABLE DOOR GEAR SPECIFICATIONS

ALL DOORS

Supplied with Maxi-mizer Double or Heavy gear depending on size, see page 2.

Wessex retractable door gear should be fitted to a weatherbeaded 70mm x 70mm (2.3/4" x 2.3/4") standard timber 'goalpost' frame (not supplied). Alternatively Maxi-mizer gear may be fitted to a Wessex quick-fit steel retractable frame (dimensions = 68mm (2.2/3") wide by 60mm (2.1/2") deep all round).

Doors supplied with double or heavy gear can also be supplied with an optional steel frame kit not pre-fitted to the door. Dimensions: 68mm (2.2/3") wide x 75mm (3") deep.

NOTES

In use, lifting gear reduces drive through width by up to 130mm (5.1/4") see page 18. With Maxi-mizer gear there is no reduction in drive-through width up to 1048mm (3'5.1/4") from the ground on 1981mm (6'6") high doors (1200mm (3'11.1/4") on 2134mm (7'0") high doors.

If drive-through clearances are critical, please ask for full details.

FITTING FRAMES TO THE BRICKWORK

Frames may be fitted within or behind the brickwork as per the drawings shown. Fitting behind the brickwork, if the garage length allows, will increase drive-through width by up to 114mm (4.1/2").

A 20mm x 20mm (4/5" x 4/5") weatherbead should be fitted to the underside of the door frame lintel in front of the door. This feature is integral on the Wessex steel frame.

Fitting to timber frame, within the brickwork aperture.

Fitting to timber frame, behind the brickwork aperture.

Fitting to Wessex steel retractable frame, within the brickwork aperture.

Fitting to Wessex steel retractable frame, behind the brickwork aperture.
### Specifications

**Opening arcs of travel**

<table>
<thead>
<tr>
<th>Size Code</th>
<th>MAXI-MIZER DRIVE-THROUGH CLEARANCES</th>
<th>DOUBLE OR HEAVY DRIVE-THROUGH CLEARANCES</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1981mm (6'6&quot;) high Maxi-mizer retractable doors</td>
<td>2134mm (7'0&quot;) high Maxi-mizer retractable doors</td>
</tr>
<tr>
<td>A</td>
<td>880mm</td>
<td>1030mm</td>
</tr>
<tr>
<td>B</td>
<td>1877mm</td>
<td>1877mm</td>
</tr>
<tr>
<td>C</td>
<td>116mm</td>
<td>268mm</td>
</tr>
<tr>
<td>D</td>
<td>38.5mm</td>
<td>38.5mm</td>
</tr>
<tr>
<td>E **</td>
<td>1884mm</td>
<td>2030mm</td>
</tr>
</tbody>
</table>

E **:
The amount that the door protrudes out from the back face of the frame with the door in the open position.

Note: For doors over 2134mm (7'0") tall - if drive through is critical please check dimension prior to ordering.

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**MAXI-MIZER DRIVE-THROUGH CLEARANCES**

Single sized retractable doors up to 2438mm (8'0") wide.

**DOUBLE OR HEAVY DRIVE-THROUGH CLEARANCES**

Double sized retractable doors over 2438mm (8'0") wide.

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ALL OTHER DOOR SPECIFICATIONS For further information, please ask for details.
PRODUCT WARRANTY – WESSEX GARAGE DOORS LTD. (WESSEX)

PRODUCT GUARANTEES

Subject to conditions set out below;

(a) Wessex garage doors are guaranteed against any form of manufacturing defect for a period of 2 years from the date of original purchase.

(b) Wessex Garage Doors Limited also guarantee that its garage doors will operate safely and reliably for a period of 10 years from original installation.

(c) Wessex electric operators are guaranteed against any form of manufacturing defect for a period of 5 years for mechanical elements, motors and transformers and for a period of 2 years for other electronic and radio equipment.

(d) The Exterior finish is guaranteed to provide an effective weatherproof membrane which will resist perforation of the substrate from the weather side due to corrosion for the periods indicated below:

- 10 years - GRP, ABS Elite
- 2 years - Primed Steel, Basecoat Timber Doors

(e) Colour change or fade to the exterior surface will be limited and uniform for a period of 2 years.

CONDITIONS

1. During the comprehensive 2 year guarantee period Wessex Garage Doors Limited undertake to repair or replace (at its discretion), and without charge, products or components which have suffered any form of manufacturing defect. Claims must be notified within 3 days from the date of delivery or within a reasonable time after discovery of any defect.

2. Products covered by these guarantees must have been purchased through an authorised Wessex garage door distributor or as original equipment attached to a newly built dwelling.

3. The warranties shall apply for normal use only. Normal use constitutes no more than 5 operations (open/close cycles) per day.

4. The warranties offered attach to the Wessex product only and no consequential damages will apply in no matter how caused.

5. No liability will be accepted as a result of normal wear and tear, incorrect storage, incorrect handling, faulty installation, incorrect use or wilful damage.

6. Claims under this guarantee must be made through the original supplier and accompanied by relevant documentation indicating the date of purchase (e.g. receipt).

7. Wessex Garage Doors Limited maximum liability shall be the original purchase price inclusive of Value Added Tax at the rate prevailing when supplied.

8. Any product which is the subject of a claim:
   (i) must have been correctly installed in accordance with the installation instructions supplied and thereafter properly maintained by a suitably experienced engineer on a regular basis as set out in the Maintenance and Operating Instructions provided with every door. (Additional copies of these instructions are available by calling 01202 825451). We recommend that regular maintenance is provided by a suitably experienced engineer. See your Fellow Pages for your local Wessex Garage Door or AGDS specialist.
   (ii) must have the manufacturers reference number still intact (found on the barcode label on the door)
   (iii) must not have been modified in any way.

9. Claims will not be accepted where the cause is due to:
   (i) impact or mechanical damage suffered during or following installation; e.g. scratches, indentations, tears, scuffs or other surface abrasion.
   (ii) damage or discolouration caused by contact with any form of caustic, abrasive or corrosive substance; fumes, bird droppings, fire, smoke, floodwater, salts, acids, or from exposure to abnormal atmospheric pollution.

10. This guarantee excludes normal wear and tear on items such as cones, cables, spindles, lock cylinders, hinges or springs.

11. Only Wessex original spare parts must be used when required. The use of non-Wessex parts shall invalidate this guarantee. Warranty period for replacement parts is 6 months or the balance of the original warranty period if greater.

WESSEX GARAGE DOORS LTD
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www.wessexdoors.co.uk

Please Note:

• As Wessex Garage Doors’ policy is one of continuous improvement, we reserve the right to change the specification or withdraw any products without prior notice.

• All details are correct at time of going to press. E & OE.

Date: April 2008