



D400



E600

Compliance and Standards Guide

Function or Design Feature	CD534 VO-1-0 - (formally HA104/9, IAN196/17, IAN197/17)	Stated requirement within BS7903:2020	Stated requirement within HA104/09	Eccles (Group 4 & 5) D400 & E600 Product Range Compliant															
Skid Resistance	Chamber top PSRV (Polished Skid Resistance Value) of >45 or >60 depending on the site risk	Recommends to have PSRV (Polished Skid Resistance Value) tests carried out and confirmed by UKAS (United Kingdom Accreditation Service) accredited laboratory	Chamber top PSRV (Polished Skid Resistance Value) of >45 or >60 depending on the site risk	 Certification TS/001/0320															
Nominal Frame Bearing Pressure	Specifies minimum Flange area mm ² D400 - 190,000 E600 - 285,000	Highways England Series 500 MCHW (Manual of Contract Documents for Highways Works) specific bedding mortar strength properties which assume a maximum bearing pressure of 2.1N/mm²	Chamber top frame bearing pressure to be >2.1N/mm²																
Minimum Frame Wgt (Kgs)	<table border="1"> <thead> <tr> <th>Shape</th> <th>Nominal opening size and depth (mm)</th> <th>Minimum frame weight (kg)</th> </tr> </thead> <tbody> <tr> <td>Square</td> <td>600x600x150 deep</td> <td>27</td> </tr> <tr> <td>Square</td> <td>600x600x100 deep</td> <td>21</td> </tr> <tr> <td>Square</td> <td>675x675x150 deep</td> <td>33</td> </tr> <tr> <td>Square</td> <td>675x675x100 deep</td> <td>26</td> </tr> </tbody> </table>	Shape	Nominal opening size and depth (mm)	Minimum frame weight (kg)	Square	600x600x150 deep	27	Square	600x600x100 deep	21	Square	675x675x150 deep	33	Square	675x675x100 deep	26	Not specified	Not specified	
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3rd Party Accreditation Body with EN45011 and EN45012 within its scope	Not specified specifically, however referenced in the appendix B of the normative reference MCHW (Manual of Contract Documents for Highways Works)	Consideration of 3rd Party Certification recommended	3rd Party Accreditation required	 Licence KM 656300															
Packing Materials	Not specifically referenced	Broadened within BS 7903 on the importance of the compatibility of packaging materials under Clause 5.5	Packing Materials must be compatible with the bedding mortar	Supplied by 3rd Party															
Lifting Provisions on Frames over 15kgs	Not specifically referenced	Specified in Clause 6.19	Frames weight more than 15kg must have provisions to allow balanced lifting																
Loading Class Provisions	E600 chamber tops must be used where the AADT (Annual Average Daily Traffic) LGV (Large Goods Vehicle) >1500 in each direction	BS7903 proposed the introduction for the requirement of E600 chamber tops in many roads applications	Consider E600 chamber tops in certain circumstances	Application Specific, all Eccles covers are supplied with our SmartGrip Technology™ as standard															
Bedding Mortar	Not specified specifically, however referenced in the 507.24 of the normative reference MCHW (Manual of Contract Documents for Highways Works)	BS 7903 details the importance of bedding mortar specifications under Clause 5.5	Bedding mortar compressive (30N/mm²) and tensile strength (5N/mm²)	Supplied by 3rd Party															
Frame Gussets	Not specifically referenced	Clause 6.2.1 where webs/gussets are provided a minimum of 15mm below the top of the frame for triangular shape and a minimum of 25mm for quadrilateral shape	Webs/gussets should not be located adjacent to the seatings and should be as permitted in BS7903																