



## Pangolin H Firearm Safe Models 180.255 and 210.255

The Pangolin H firearm safe for handguns is manufactured in South Africa under license to specialist security company Biagi Saga Technologies (Pty) Ltd. The products, designs and technology incorporated therein are proprietary to Biagi Saga Technologies (Pty) Ltd with PCT patent application (PCT/IB2020/056610) pending and South African Registered Design A2019/01076 pending.

<b>General description</b>	<p>A new product engineered for providing a very high level of protection against theft of handguns from motor vehicles whilst travelling or during unattended parking. It is manufactured in two types: one for permanent installation (Fixed) and the other movable (Docked). The patent pending Docked design allows the safe to be mechanically secured or detached from a vehicle in a few seconds, after having had a <b>Pangolin Dock</b> permanently affixed in a convenient location. It is sufficiently portable and comfortable to handle as to be easily carried from one location to another.</p> <p>The design and components are exceptionally resistant to lock picking, lock breaking, physical penetration and removal of the safe from its mounting in the vehicle or other location.</p>
<b>Intended Purpose</b>	A low profile safe that can either be permanently installed in a vehicle or movable, being quickly and easily attached and detached. Primarily intended for use in vehicles, but may also be used in other locations where a conventional safe is impractical due to space constraints. The construction allows for easy insertion and removal of the handgun.
<b>Typical handguns to be secured</b>	It is available in a variety of dimensions and configurations, aiming to accommodate all popular handguns intended for self-defence.
<b>Standards compliance</b>	The Pangolin H handgun safe has been independently tested and verified to satisfy the requirements of the South African standard SANS 953-1:2018 Storage of firearms and ammunition. Part 1 – Safes. Type B1 (general use) and Type B3 (temporary storage of firearms in motor vehicles and caravans).
<b>System Components</b>	<ol style="list-style-type: none"> <li><b>Pangolin H</b> firearm safe in Fixed or Docked version.</li> <li><b>Pangolin Dock</b> (docked version only) for permanent installation in vehicle or other location.</li> <li><b>Spreader Plates</b> for vehicle mounting. Supplied with fasteners for attachment to a vehicle.</li> </ol>
<b>Mode of use</b>	<p><u>Step 1:</u> Bolt the <b>Pangolin Dock</b> or <b>Pangolin H</b> Fixed safe permanently into position (as detailed under Installation).</p> <p><u>Step 2:</u> Safe attachment (Docked version only) - Open the cover and place the safe in position on the <b>Pangolin Dock</b>, engaging the rear bolts first. Pull the docking slide forward to allow the locking bolts of the dock to penetrate the bottom of the safe. Once the safe has settled flush onto the dock, push the slide so that the locking bolts are engaged.</p> <p><u>Step 3:</u> Close the lid and turn the key to lock and remove key.</p> <p><u>Step 4:</u> Unlocking - use the key to unlock and open the safe by lifting the cover.</p> <p><u>Step 5:</u> Safe removal (Docked version only) - with the cover open, pull the docking slide to the unlock position then slide the release back into the lock position, close the safe and turn the key to lock. The safe is now detached and free but locked.</p>
<b>Construction</b>	Clamshell all-steel design with >80° opening cover and mechanical lock. The safe shell and docking plate consist of multiple custom designed fabricated parts (formed, welded and bolted). Hardened steel reinforcing plates are strategically located internally.
<b>Locking mechanism</b>	<p>The high quality and secure mechanical lock (&gt;800 000 combinations and unpickable for all practical purposes) acts upon a proprietary, purpose designed, dual locking bolt mechanism with two relocking devices.</p> <p>NB: This is a high security lock so if both keys are lost, the authorised user will need assistance from the manufacturer to obtain a replacement key. (Not available other than through the manufacturer).</p>
<b>Safe Material</b>	<p>Shell and base 3 mm bare mild steel with additional 3,0 mm bare metal high hardness armour plate reinforcing protecting the lock and bolt-work (mild steel 350 MPa, armour plate &gt;1420 MPa yield strength; mild steel 120 HBW, armour plate &gt;480 HBW hardness). The equivalent “door” thickness in mild steel is &gt; 12 mm.</p> <p>Full length mild steel hinge welded in place.</p> <p>Proprietary machined armour plate steel locking bolts (&gt;1420 MPa yield strength).</p>
<b>Safe Exterior Finish</b>	<ul style="list-style-type: none"> <li>Standard finish: Pangolin ArmoKote epoxy powder coat in dark grey.</li> <li>Optional finish : Rubberised.</li> </ul>

<b>Safe Interior Finish</b>	<ul style="list-style-type: none"> <li>• Bottom : Epoxy powder coated with EPDM closed cell foam rubber padding</li> <li>• Top cover: Epoxy powder coated with EPDM closed cell foam rubber padding</li> </ul>
<b>Exterior dimensions – (mm)</b>	Model 180.255 : 190 mm (w) x 305 mm (d) x 60 mm (h) (extremities) Model 210.255. : 220 mm (w) x 305 mm (d) x 60 mm (h) (extremities)
<b>Interior dimensions (mm)</b>	Usable interior cavity size (excluding padding): Model 180.255 : 150 mm (w) x 205 mm (d) x 50 mm (h) Model 210.255. : 180 mm (w) x 205 mm (d) x 50 mm (h)
<b>Dock Material</b>	Mild steel 3,0 mm bare metal thickness with four integrated safe attachment bolts each with 16 mm diameter shaft narrowing to 10 mm diameter at the yoke attachment point.
<b>Dock Finish</b>	Epoxy powder coated.
<b>Dock Fasteners</b>	Four M8 Countersunk high tensile (12.9) cap screws and Nyloc nuts. Optional accessory Plusnuts for single side installation.
<b>Fixed Safe Fasteners</b>	Four M8 Button head high tensile (12.9) cap screws and Nyloc nuts. Optional accessory Plusnuts for single side installation.
<b>Spreader Plate Material</b>	Mild steel 3,0 mm bare metal thickness.
<b>Spreader Plate Finish</b>	Epoxy powder coated, black.
<b>Installation Process Outline</b>	<p>Identify an inconspicuous location on the steel floor or other part of the steel bodywork of the vehicle that will provide a secure mounting location for the Fixed safe or Pangolin Dock.</p> <p>Check for sufficient headroom for the safe to be opened and allow easy access. Use the safe or Pangolin Dock as a template to mark and then drill four holes for mounting.</p> <p>Bolt the safe or Pangolin Dock in place using the supplied spreader plates and fasteners or special fasteners for single sided installation. It may be necessary to cut the spreader plate into two pieces because of obstructions or uneven surfaces in the bodywork. Stake accessible nuts after installation and coat all exposed steel surfaces with underbody compound to prevent rust.</p> <p>NOTE: THIS OUTLINE OF THE PROCESS IS NOT A REPLACEMENT FOR THE DETAILED INSTRUCTIONS SUPPLIED TO AUTHORISED PANGOLIN INSTALLERS</p> <p>The installation should be undertaken by a suitably qualified professional installer who will provide a certificate in compliance with SANS 953-1:2018 for motor vehicle and caravan firearm safe installation. A blank certificate is supplied with the safe. Legal compliance requires that the installer supplies a certificate of installation which must also verify that the vehicle is equipped with an immobiliser. In the case of docked safes each dock will require its own certificate.</p>
<b>Weight excluding packaging</b>	Fixed Model 180.255 : 4,9 kg (safe only). Fixed Model 210.255 : 5,8 kg (safe only). Docked Model 180.255: 5,4 kg (safe only). Docked Model 210.255: 6,0 kg (safe only). Pangolin Dock 180 : 1,2 kg. Pangolin Dock 210 : 1,4 kg.
<b>Packaging</b>	Corrugated cardboard carton with cardboard reinforcing and plastic foam lining.
<b>Total packaged weight</b>	Fixed Model 180.255 : 6,1 kg Fixed Model 210.255 : 6,9 kg Docked Model 180.255: 7,3 kg Docked Model 210.255: 8,7 kg
<b>Packaged Dimensions (mm)</b>	All Pangolin H Safes - 270 mm (w) x 330 mm (d) x 85 mm (h)

The manufacturer reserves the right to make improvements from time to time, this specification is therefore subject to change without prior notice.

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