



Pangolin R Series Long Weapon Vehicle Safes

The Pangolin R firearm safe for long weapons is manufactured and distributed by Pangolin Security Products 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 RSA patent number 2022/01667 and South African Registered Design 2021/06640.

Intended purpose	Secure temporary storage of rifles and shotguns in vehicles as provided for in the South African Firearms Control Regulations.
General description	<p>A vehicle firearm safe that is intended for use in all types of motor vehicles (sedans, hatchbacks, SUV's, bakkies, vans, trucks, etc.). Designed for mounting in a number of possible locations and to accommodate weapons of type, size and quantity according to customer requirements.</p> <p>Pangolin R series safes are designed with fast unlocking and locking and easy storage and removal of multiple firearms. Engineered for providing a very high level of protection against theft of firearms, ammunition or other high value assets from motor vehicles whilst travelling or during unattended parking.</p> <p>The design, construction and components of the Pangolin R series of vehicle firearm safes are exceptionally resistant to physical penetration, lock picking, lock breaking and removal of the safe from its mounting in the vehicle. The safe can only be removed or uninstalled once it is opened.</p>
Standards compliance	Pangolin R series of vehicle firearm safes have been designed and constructed to satisfy the requirements of, and be fully compliant with, the South African standard SANS 953-1:2018 Storage of firearms and ammunition. Part 1 – Safes Type B3 (temporary storage of firearms in motor vehicles and caravans).
System Components	<ol style="list-style-type: none"> Pangolin R firearm safe supplied with two keys. Optional Mounting Brackets depending on the vehicle, mounting location and safe orientation. Optional Spreader Plates and/or Plusnuts for vehicle mounting with stainless steel fasteners. Optional Interior furnishing to accommodate the identified weapons with protective padding.
General Construction	<p>The all-steel design consists of a casing with a wrap-around cover rather than a door, hinged on one long side. This construction is employed in preference to a conventional door in order to deter frontal attack with crowbars and prybars.</p> <p>The cover opens 90°, 105° or 180° with single or dual gas strut assist and mechanical lock. The safe casing comprises multiple custom designed fabricated parts (laser cut, machined, pressed, bent and welded). The casing and cover are provided with armour plate reinforcing strategically located internally in multiple locations. The semi-concealed full length hinge is welded in place with an inaccessible hinge pin.</p>
Mode of use	<p>The safe has been designed to be unlocked with a key which then allows the bolts to be retracted and cover to be opened manually affording full and unrestricted access to the firearms.</p> <p>It is locked simply by closing the cover (keyless locking).</p>
Lock Mechanism	<p>All Pangolin R series safes employ a proprietary, purpose designed, triple or quadruple locking bolt mechanism each with it's own relocking device. Locking is accomplished simply by closing the safe cover.</p> <p>The high quality and secure mechanical lock (>827 000 combinations and virtually pickproof) is used for unlocking the safe. Key management systems are available which would allow one master key held by a designated armoured to unlock all Pangolin R safes procured by one purchaser.</p> <p>NB: This is a high security lock with keys that cannot be duplicated. If the user's keys are lost, the purchaser will need assistance from Pangolin Security Products to obtain a replacement key.</p>
Safe Material	<p>All sides of the casing and cover in Pangolin R series of vehicle firearm safes consist of 3,0 mm bare metal thickness mild steel for SABS compliant safes. All surfaces of all parts are treated for protection against corrosion.</p> <p>Additional minimum 3,0 mm bare metal thickness mild steel reinforcing is provided on the door and 3,0 mm armour plate steel protecting the lock and bolt-work (mild steel 350 MPa, armour plate >1420 MPa yield strength; mild steel 120 HBW, armour plate >480 HBW hardness). The equivalent thickness in mild steel is > 12 mm.</p> <p>The full length hinge is of 3 mm mild steel. The locking bolts of proprietary design are of laser cut armour plate steel (>1420 MPa yield strength).</p>
Dimensions	Dimensions may be varied by agreement between purchaser and supplier.

Safe finish	The standard finish for the safe interior and exterior is black eKote (corrosion resistant epoxy). The immersion treatment process guarantees protection of all surfaces. Pangolin Skuffkote is applied to the door and other exposed exterior surfaces. Other special finishes are only by agreement between purchaser and supplier.
Safe fasteners	Minimum six M8 Button head stainless steel cap screws with optional Plusnuts for single side installation.
Mounting	Pangolin R safes can be bolted directly onto the floor of the vehicle or raised on support brackets that are supplied as part of the mounting kit supplied with the safe. The particular vehicle and mounting location determine the design of the supports and are subject to agreement between the manufacturer and purchaser. As a minimum the supports would be fabricated from 3,0 mm bare metal thickness mild steel.
Accessory Finish	The standard finish for mounting brackets and spreader plates is black eKote (corrosion resistant epoxy).
Installation	Pangolin R series safes must be installed by suitably qualified and trained installers who will provide a certificate in accordance with the requirements of SANS 953-1:2018 for motor vehicle and caravan firearm safe installation.

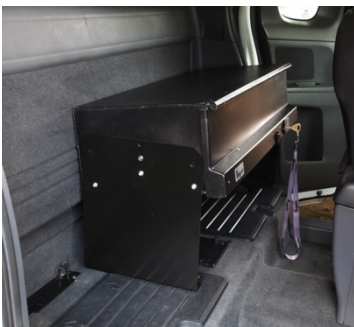
Examples of Installation Options



Horizontal, raised in boot of BMW X5, open.



Horizontal, raised in boot of BMW 3 series sedan, closed.



Horizontal, raised in cab and a half, closed.



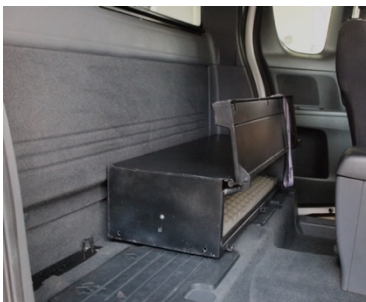
Horizontal, raised in cab and a half, open.



Horizontal, raised in load bin, closed.



Horizontal, flat in cab and a half, closed.



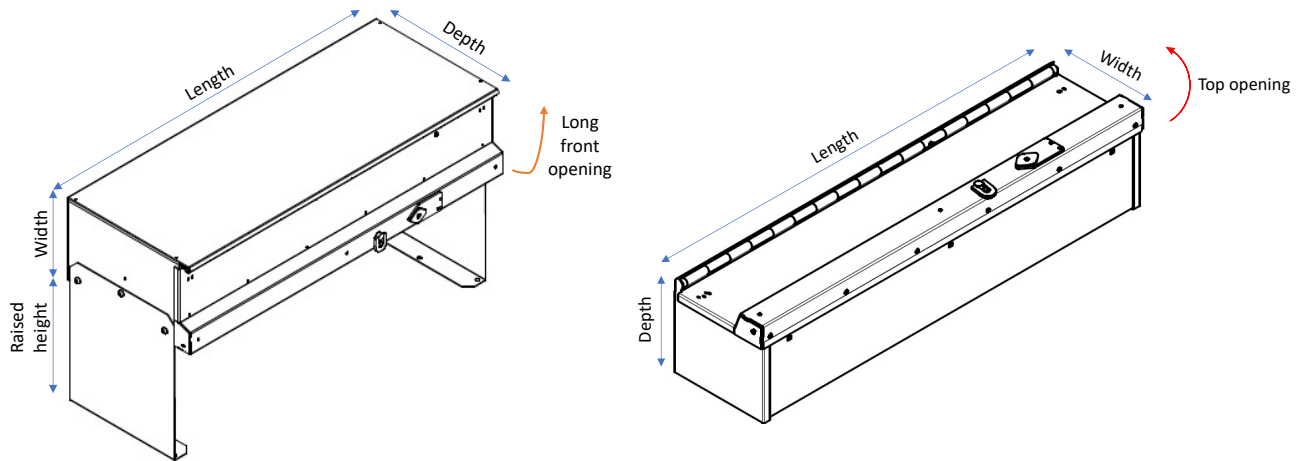
Horizontal, in cab and a half, open.



Vertical, in cab and a half, top opening.

2024/05/24

Pangolin Security Products reserves the right to make improvements from time to time, specifications are therefore subject to change without prior notice.



Examples of some Preconfigured Pangolin R Safes

	3001	3002	3003	3004	3005
Orientation	Horizontal	Horizontal	Horizontal	Horizontal	Horizontal
Opening	Long front	Top	Front	Top	Long front
Opening angle	180°	110°	180°	110°	180°
Raised or flat mounting*	Raised*	Flat*	Flat*	Flat*	Raised*
Raised height*	300 mm*	N/A*	N/A*	N/A*	285 mm*
Safe length (outside)*	905 mm*	905 mm*	1130 mm*	1240 mm*	1360 mm*
Safe length (inside)*	885 mm*	885 mm*	1110 mm*	1220 mm*	1340 mm*
Safe width (outside)	215 mm	215 mm	215 mm	215 mm	215 mm
Safe width (inside)	205 mm	205 mm	205 mm	205 mm	205 mm
Safe depth (outside)*	370 mm*	210 mm*	370 mm*	300 mm*	370 mm*
Safe depth (inside)*	320 mm*	160 mm*	320 mm*	250 mm*	320 mm*
Casing thickness	3,0 mm	3,0 mm	3,0 mm	3,0 mm	3,0 mm
Casing material	Mild steel	Mild steel	Mild steel	Mild steel	Mild steel
Number of locking bolts	3	3	4	4	4
Lock protection	Armour plate	Armour plate	Armour plate	Armour plate	Armour plate
Fixed/removable/dockable	Fixed*	Removable*	Removable*	Removable*	Fixed*
Weatherproof*	No	No	No	No	Yes
Finish*	Black "E"-coat*	Black "E"-coat*	Black "E"-coat*	Black "E"-coat*	Black epoxy powder coat*
Interior furnishing*	Convuluted foam*	Convuluted foam*	Convuluted foam*	Convuluted foam*	Convuluted foam*
Standards compliance	SANS 953-1 Type B3	SANS 953-1 Type B3	SANS 953-1 Type B3	SANS 953-1 Type B3	SANS 953-1 Type B3

* Other options may be available