

# AvanGuard<sup>®</sup>

## SERIES

BURGLAR & FIRE RESISTANT SAFE

RATED SECURITY EQUIPMENT



Certificate No.  
446300 / 446301





# MOEM AVANGUARD SERIES

BURGLAR & FIRE RESISTANT SAFE

**MOEM Avanguard Series Safes are the result of extensive research and development, which has become the hall-mark of MOEM Security Equipment. Designed in accordance with rigid international standards and test specifications to fulfill the stipulations of international banking and commerce executives, MOEM Series Safes are engineered to incorporate state-of-the-art design techniques and advance production methods.**

**MOEM security technology is constantly being designed and developed to offer the latest in improved security protection and high quality equipment.**

**The third generation Avanguard Series treasury safe offers additional protection against torches and tools as a standard feature. Optional anti-arc barrier material is available upon request.**



## FEATURES

### THE DOOR

The Avanguard Series features an overall door thickness of 155mm, comprising a solid core of MOEM special formulated MT metal-mix thermo-alloy barrier material. This material is reinforced with anti-penetration bars and hardened chips encased between a monolithic construction of heavy steel press formed plates with a lock case, forming an integral part of the door structure.

Additional security has been achieved by incorporating defensive MOEM MST hardened steel alloy to secure the vital parts of the locking mechanism.

AvanGuard Series specifications are designed to resist physical assaults such as high speed drilling, oxy-acetylene attacks, usage of explosives and hydraulic jacks as well as other mechanical tool attacks.

### THE BODY

The Avanguard Series Safe body has an overall thickness of 105mm, encased monolithic barrier of MOEM MT Metal-Mix thermo-alloy protective material reinforced with anti-penetration bars and hardened metal chips. The monolithic concept, referring to a single cast unit of consistent density, gives the body of the safe its strength and high security protective qualities.

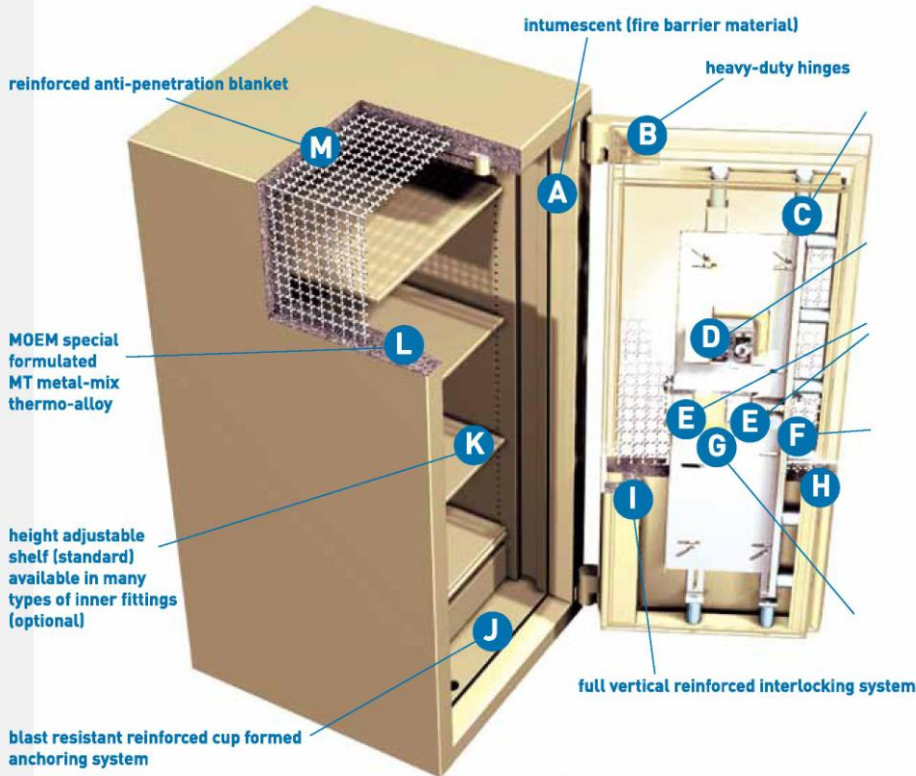
### LOCKING MECHANISM

MOEM Avanguard Series Safes are protected by one key lock (VDS/UL Listed) and one keyless changeable combination lock as standard. Other optional digital locks and time locking systems can be easily incorporated into the safe.



# MOEM AVANGUARD SERIES

## SPECIFICATIONS



\* 3D for illustration purpose.  
\* may differ from actual product.

Break Glass

Harden Plate

Live Relocking Device

Dead Relocking Device

\* Position undisclosed due to security reasons

### BOLT WORK SYSTEM

A series of heavy duty solid steel 3 way full length running bolts measuring 38mm in diameter secure the door to specially reinforced body sections ensuring maximum protection against intrusion by mechanical tools and explosives. The MOEM Avanguard Series Safe (GT Series) also incorporates the impressive Gyro-gearing mechanism to provide light, smooth bolt movement and allows maximum throwing of the bolts into the cup-formed reinforced section of the body. The safe's back is anchored with a uniformly reinforced monolithic interlocking rebate system with a thickness of 155mm, providing positive protection. This system ensures the door remains shut and locked in the event of its hinges being cut off, or even if it should come under attack by explosives.

### EMERGENCY RELOCKING DEVICE

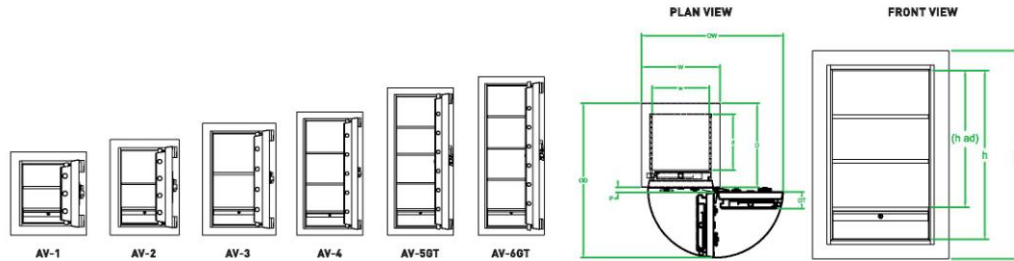
The Avanguard Series uses a live and dead relocking device that will automatically activate and seize all bolts if forcible attacks are made, especially by explosive charges or mechanical tools. The live relocking device is designed for a parallel protection securing locking mechanism, while the dead relocking device is independent of the locks.

### OPTIONAL FEATURES

Avanguard Series Safes can be fitted with an optional 24-hour depository system, an envelope slot, internal drawers, or gun racks with ammunition storage compartments.

# MOEM AVANGUARD SERIES

## SIZES AND DIMENSIONS



MODEL	EXTERNAL (mm)				DOOR @ 90°	DOOR @ 180°	INTERNAL (mm)			
	(H)	(W)	(D)	(D+P)	(OD)	(OW)	(h)	(had)	(w)	(d)
AV-1	710 (28")	648 (25.5")	680 (26.8")	730 (28.7")	1255 (51.2")	1170 (46.1")	500 (19.7")	375 (14.8")	438 (17.2")	410 (16.2")
AV-2	900 (35.5")	648 (25.5")	724 (28.5")	774 (30.5")	1305 (51.4")	1165 (45.9")	698 (27.4")	547 (21.5")	438 (17.2")	454 (17.9")
AV-3	1105 (43.5")	724 (28.5")	775 (30.5")	825 (32.5")	1430 (56.3")	1320 (52")	895 (35.2")	726 (28.6")	514 (20.2")	505 (19.9")
AV-4	1422 (56")	762 (30")	813 (32")	863 (34")	1500 (59")	1395 (55")	1212 (47.7")	1037 (40.8")	552 (21.7")	543 (21.4")
AV-5GT	1702 (67")	762 (30")	813 (32")	863 (34")	1500 (59")	1395 (55")	1490 (58.7")	1290 (50.8")	550 (21.6")	535 (21.1")
AV-6GT	1829 (72")	762 (30")	813 (32")	863 (34")	1500 (59")	1395 (55")	1617 (63.7")	1417 (55.8")	550 (21.6")	535 (21.1")

EXTERNAL: (H) — HEIGHT / (W) — WIDTH / (D) — DEPTH / (D+P) — OVERALL DEPTH + HANDLE  
INTERNAL: (h) — height / (w) — width / (d) — depth / (had) — height above drawer

SIZE	STANDARD FITTINGS	APPROXIMATE NETT WEIGHT	PACKING CASE SIZE	GROSS WEIGHT	
AV-1	1 full width drawer 3 moving bolts 1 top moving bolt	1 adjustable shelf 1 vertical rebate 1 bottom moving bolt	563kgs	910mm x 810mm x 900mm	603kgs
AV-2	1 full width drawer 4 moving bolts 1 top moving bolt	1 adjustable shelf 1 vertical rebate 1 bottom moving bolt	743kgs	1100mm x 810mm x 900mm	783kgs
AV-3	1 full width drawer 4 moving front bolts 1 top moving bolt	1 adjustable shelf 1 vertical rebate 1 bottom moving bolt	1013kgs	1310mm x 900mm x 1000mm	1063kgs
AV-4	1 full width drawer 5 moving front bolts 1 top moving bolt	2 adjustable shelves 1 vertical rebate 1 bottom moving bolt	1338kgs	1620mm x 930mm x 1000mm	1408kgs
AV-5GT	1 full width drawer 6 moving front bolts 2 top moving bolt	3 adjustable shelves 1 vertical rebate 2 bottom moving bolts	1611kgs	1900mm x 930mm x 1050mm	1691kgs
AV-6GT	1 full width drawer 6 moving front bolts 2 top moving bolt	3 adjustable shelves 1 vertical rebate 2 bottom moving bolts	1714kgs	2050mm x 950mm x 1050mm	1794kgs

NOTE: Maximum permissible deviation is ±10% for weight  
In the interest of our clients, certain details concerning the protective features of MOEM Avanguard Series safes have not been disclosed in this brochure.  
Such information can however be obtained by consulting your MOEM representatives.

NOTE: As our policy is one of consistent improvement, we reserve the right to alter any part of this specifications without notice and without incurring any obligation.

## OPTIONS

- \* 4 Wheel Keyless Combination Lock
- \* Micro-switch Alarm
- \* Mechanical Locks (Various Types)
- \* Time Lock (2 or 3 Movements)
- \* High Security Digital Lock (Various Models)



## 24 HOURS DEPOSITORY SYSTEM

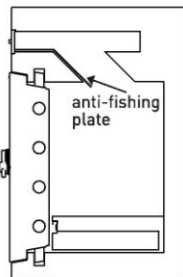
### DEPOSITORY SYSTEM (DRAWER TRAP SYSTEM)

Drawer trap system allows deposit of cash and documents without having to open the main safe door. System is fitted with an anti-fishing plate to deter fishing of content from the safe. Drawer trap is also lockable. Model AV-1, AV-2 and AV-3 can be fitted with depository system (drawer trap).

#### FRONT DRAWER TRAP



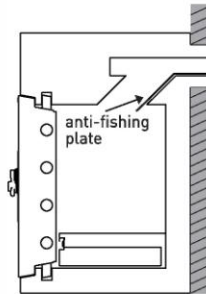
#### CROSS-SECTION - FRONT DRAWER TRAP



#### BACK DRAWER TRAP



#### CROSS-SECTION - BACK DRAWER TRAP



AV-1T - 915mmH x 648mmW x 730mmD  
 AV-2T - 1105mmH x 648mmW x 774mmD  
 AV-3T - 1307mmH x 724mmW x 825mmD

- \* Exclusion from SP certification.
- \* Back Drawer Trap [Refer Representative for Detailed Drawings].

## INTERNAL FITTINGS

- \* Safe Fitted with Internal Drawers  
 Various Sizes, Compartments and Combinations Available [Refer Representatives]
- \* Safe for Armoury  
 [Refer Representative]

#### SAFE FITTED WITH INTERNAL DRAWERS



#### SAFE FOR ARMOURY



## **FIRE TEST SUMMARY**

Avanguard Series is tested and certified by SP Technical Research Institute of Sweden for 60 minutes fire resistance according to standard NT-Fire 017. The furnace was heated up according to standard time-temperature curve in accordance to SIS 02 48 20. Furnace temperature up to 1000°C.



Certificate No.  
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**Note: MOEM manufacturing process is certified by SP Technical Research Institute of Sweden**

**\*Certificate available upon request**  
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