



NCR 6622 ATMs

Site Preparation

FEDERAL COMMUNICATIONS COMMISSION (FCC) RADIO FREQUENCY INTERFERENCE STATEMENT

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Canadian Class A Device Declaration

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe A prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.

Information to User

This equipment must be installed and used in strict accordance with the manufacturer's instructions. However, there is no guarantee that interference to radio communications will not occur in a particular commercial installation. If this equipment does cause interference, which can be determined by turning the equipment off and on, the user is encouraged to consult an NCR service representative immediately.

CAUTION

NCR Corporation is not responsible for any radio or television interference caused by unauthorised modifications of this equipment or the substitution or attachment of connecting cables and equipment other than those specified by NCR. Such unauthorized modifications, substitutions, or attachments may void the user's authority to operate the equipment. The correction of interference caused by such unauthorized modifications, substitutions, or attachments will be the responsibility of the user.

The ATM complies with the following Electromagnetic Compatibility (EMC) directives and standards for IT equipment:

- 2004/108/EC EMC Directive.
- 93/68/EEC 'CE Marking Directive'.

For further information, refer to the *Electromagnetic Compatibility (EMC) and Safety* section.

NOTICE

This is a contractual document. It contains important warnings and confers important legal rights and obligations. You are advised to read it carefully.

It is the responsibility of the customer to assure that all installation preparations are complete and in compliance with all specifications and requirements of NCR and all applicable national, state, or local codes, regulations and laws.

The product described in this book is a licensed product of NCR Corporation.

NCR is a trademark of NCR Corporation.

Other product names mentioned in this publication may be trademarks or registered trademarks of their respective companies and are hereby acknowledged.

It is the policy of NCR Corporation (NCR) to improve products as new technology, components, software, and firmware become available. NCR, therefore, reserves the right to change specifications without prior notice.

All features, functions, and operations described herein may not be marketed by NCR in all parts of the world. In some instances, photographs are of equipment prototypes. Therefore, before using this document, consult with your NCR representative or NCR office for information that is applicable and current.

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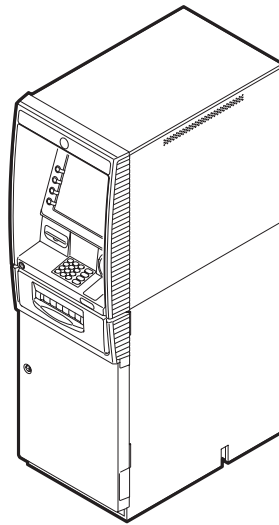
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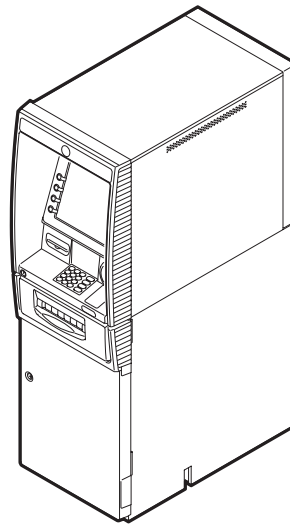
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INTRODUCTION



Front Access



Rear Access

The NCR 6622 Automated Teller Machine (ATM) is a freestanding interior ATM that is available in front or rear access variants.

How to Use This Site Preparation Bookset

The site preparation is part of the *NCR 6622 ATMs Site Preparation Bookset*. It acts both as a specifications book, and also as a gateway to the other books in the bookset, which are:

- *NCR 6622 ATMs Electrical and Protection Requirements* ([B006-6753](#))
- *NCR 6622 ATMs Environmental and Planning Requirements* ([B006-6754](#))

Purpose and Audience

This book is intended for architects and those responsible for preparing a site prior to the arrival of the ATM.

Site preparation details are given under the following main sections within this book:

[Package Dimensions](#)

[ATM Dimensions](#)

[Access for All](#)

[Installation and Service Clearances](#)

[Requirements for the Floor](#)

[Bolt Hole Locations](#)

[Video Camera](#)

Site Compliance

This bookset contains the information necessary for the preparation of a site conforming to NCR specifications. It is very important that the site complies with the requirements specified in this bookset, because, once the equipment has been installed, deficiencies in site preparation or the problems caused by these deficiencies are much more difficult to detect and correct. Further, failure to comply with these requirements or to take proper steps to protect equipment against risks identified in this bookset may cause serious damage to the equipment and to the customer's business.

In addition to the need to comply with the requirements specified, electrical wiring and mechanical systems must also comply with all relevant codes, laws and regulations.

It is important that the site be prepared by a customer or his agent who is fully conversant with the special requirements of electronic equipment. The responsibility for ensuring that the site is prepared in compliance with this bookset remains with the customer.

For information and guidance purposes only, a list is provided, in general terms, of those matters for which the customer is responsible. This list is not intended to be comprehensive, and in no way modifies, alters, or limits the responsibility of the customer for all aspects of adequate site preparation.

NCR staff will be available to answer questions relating to the contents of this bookset but, except where:

- a the customer has been notified that a full or partial consultancy service is available and/or that NCR will be willing to undertake a preliminary or final site survey and
- b the customer shall have entered into a formal contract with NCR for provision of the same

no comment, suggestion or advice offered or not offered about preparation of the site nor any inspection of the site whether before or after preparation is to be taken as approval of the location of the site and equipment or of its preparation and NCR will not be liable in respect of any comment, suggestion or advice given by its staff or in respect of any failure to give advice.

Finally, only the customer can know the full extent of damage which may be caused to his business by reason of failure of the equipment which is to be installed. For this reason it is the customer's responsibility to ascertain the extent of any such possible damage to his existing or planned business, and to effect, full insurance in respect of it.

Customer Responsibilities

The customer must do or provide the following:





- When required by NCR, provide the NCR customer service representative with appropriate drawings that indicate:
 - Location of the equipment
 - Site wiring (power and signal, paths and lengths)
 - Location of other equipment capable of generating electrical noise, electromagnetic interference, heat, etc.
- Make building alterations necessary to meet wiring and other site requirements.
- Provide and install all communications cables, wall jacks, special connectors, and associated hardware.
- Provide and install necessary power distribution boxes, conduits, grounds, lightning protection, and associated hardware.
- Make sure all applicable codes, regulations and laws (including, but not limited to, electrical, building, safety, and health) are met.
- Provide and install auxiliary power or other equipment as required.
- Provide storage or service areas as required.
- Make sure the environmental requirements of the system/unit are met.

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- Provide floor coverings and environmental systems that limit or control static electricity build-up and discharge.
- Install the product at a height which meets the accessibility regulations of the relevant country.

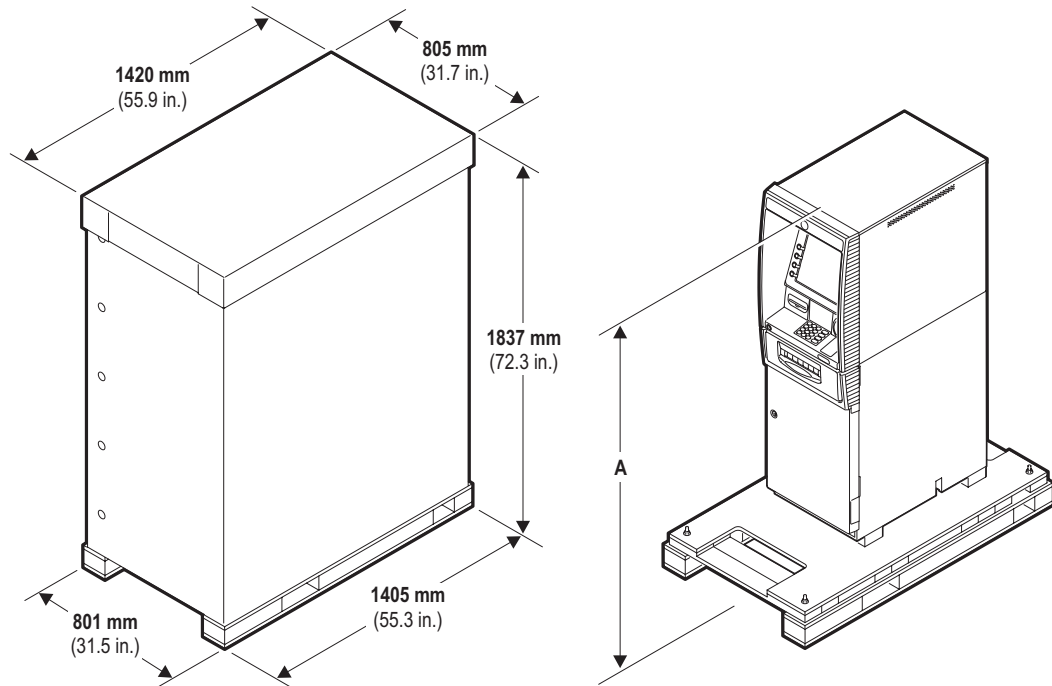
Product Identification

The product is identified by the class number, 6622, and a 4 digit model number, which is printed on a label fixed inside the top-box of the ATM. The serial number is unique to each ATM. The tracer number is used to identify where the ATM was built. Please quote all of the serial and tracer numbers, including the prefix, when making reference to the ATM.

 NCR Global Solutions Ltd. Made in UK	Class: 6622	Model: XXXX
	Serial: XX-XXXXXXXX	
	Tracer: XX-XXXXX	
	Vac: XXX	Hz: 50/60 A:X.X
<div></div>		
Electromagnetic Compatibility This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.		
This apparatus does not exceed Class A limits for radio noise emissions set out in the Radio Interference Regulations of Canada. Le present appareil n'emet pas de bruits radioelectriques depassant les limites de la classe A prescrites dans le Reglement sur le brouillage radioelectrique du Canada.		
"Complies with FDA Radiation Performance Standards, 21 CFR Subchapter J"		

PACKAGE DIMENSIONS

The dimensions of a packaged ATM, with and without the carton and lid, are shown below.



	Front Access		Rear Access	
	UL 291	CEN L, I, III & IV	UL 291	CEN L, I, III & IV
A Height of ATM and pallet	1732 mm (68.2 in.)	1742 mm (68.6 in.)	1700 mm (67.0 in.)	1709 mm (67.3 in.)

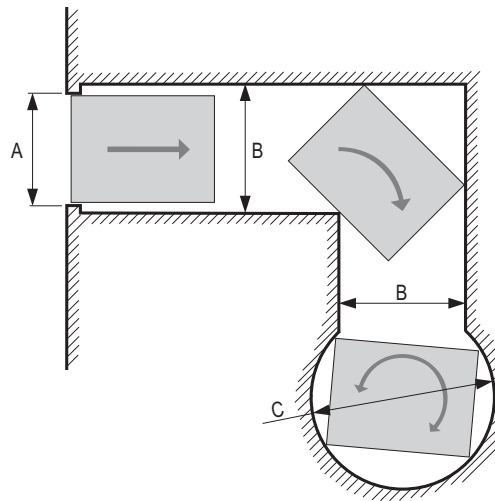
Manoeuvring the ATM into Position

Ensure that doorways and corridors leading to your point of installation are wide enough to allow the package to pass through, or make arrangements to unpack the ATM in an area with sufficient access and then move it to the installation site. Also make sure that any corridors can support the weight of the ATM. Refer to [page 27](#) for the maximum weight of the ATM and its floor loading.

The following table gives the **minimum** dimensions for doorways, corridors with right angle corners and the space required to rotate an ATM on its axis.

Note 1: The dimensions assume the ATM is being moved using equipment that does not extend beyond the ATM or packaging.

Note 2: A surrounding clearance of **6 mm** (0.2 in.) has been allowed in the figures.



Packaged ATM

	Pallet, carton and lid	Pallet without carton
A Doorway or straight corridor	817 mm (32.2 in.)	813 mm (32.1 in.)
B Corridor with corner	1078 mm (42.5 in.)	1075 mm (42.4 in.)
C Rotation about centre	1631 mm (64.3 in.)	1629 mm (64.2 in.)

Unpackaged ATM

	Front Access ATM		Rear Access ATM		
	UL 291	CEN L, I, III & IV	UL 291	CEN L & I	CEN III & IV
A Doorway or straight corridor	499 mm (19.7 in.)	499 mm (19.7 in.)	499 mm (19.7 in.)	499 mm (19.7 in.)	499 mm (19.7 in.)
B Corridor with corner	652 mm (25.7 in.)	662 mm (26.1 in.)	686 mm (27.0 in.)	695 mm (27.4 in.)	702 mm (27.7 in.)
C Rotation about centre	980 mm (38.6 in.)	1004 mm (39.6 in.)	1063 mm (41.9 in.)	1086 mm (42.8 in.)	1104 mm (43.5 in.)

ATM DIMENSIONS

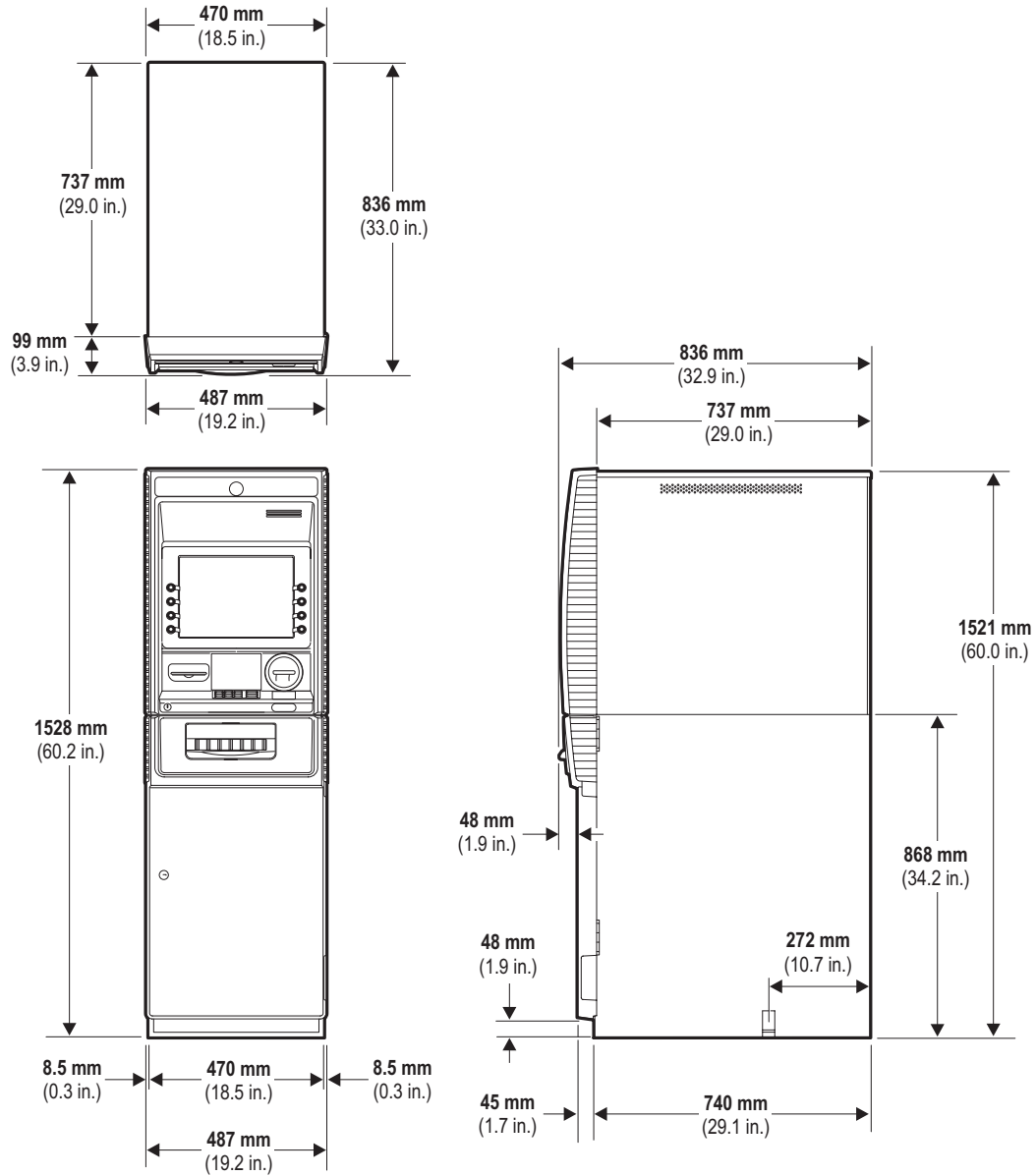
The following illustrations show dimensions for ATMs configured with CEN L, CEN I, CEN III, CEN IV Spanish Certified and UL 291 Level 1 security enclosures.

Note: Cables enter the ATM through the hole in the base of the ATM security enclosure. Refer to page 28 for the location of the hole.

Front Access

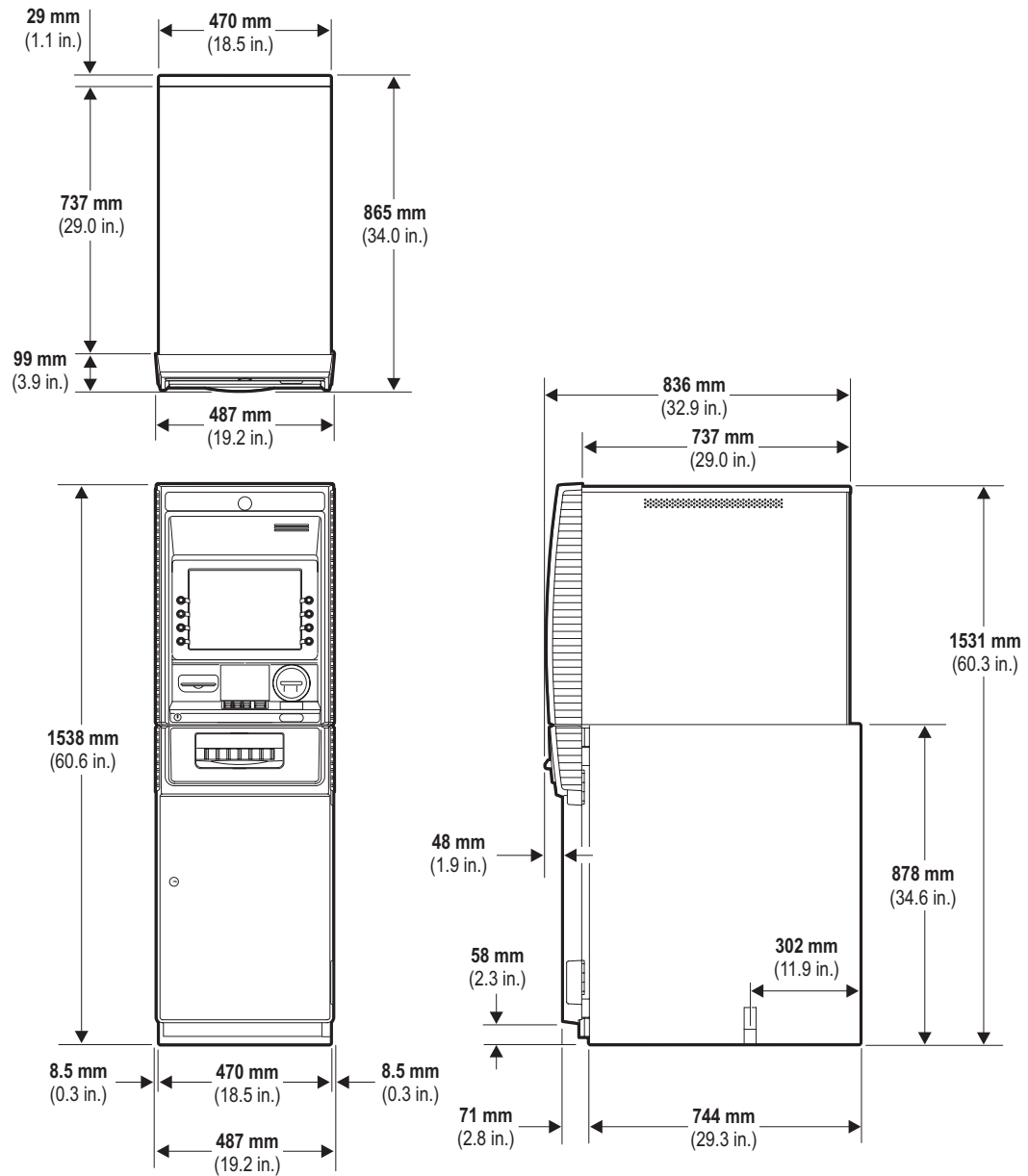
UL Security Enclosure

The illustration below shows the dimensions for a front access ATM configured with a UL 291 Level 1 security enclosure.



CEN Security Enclosures

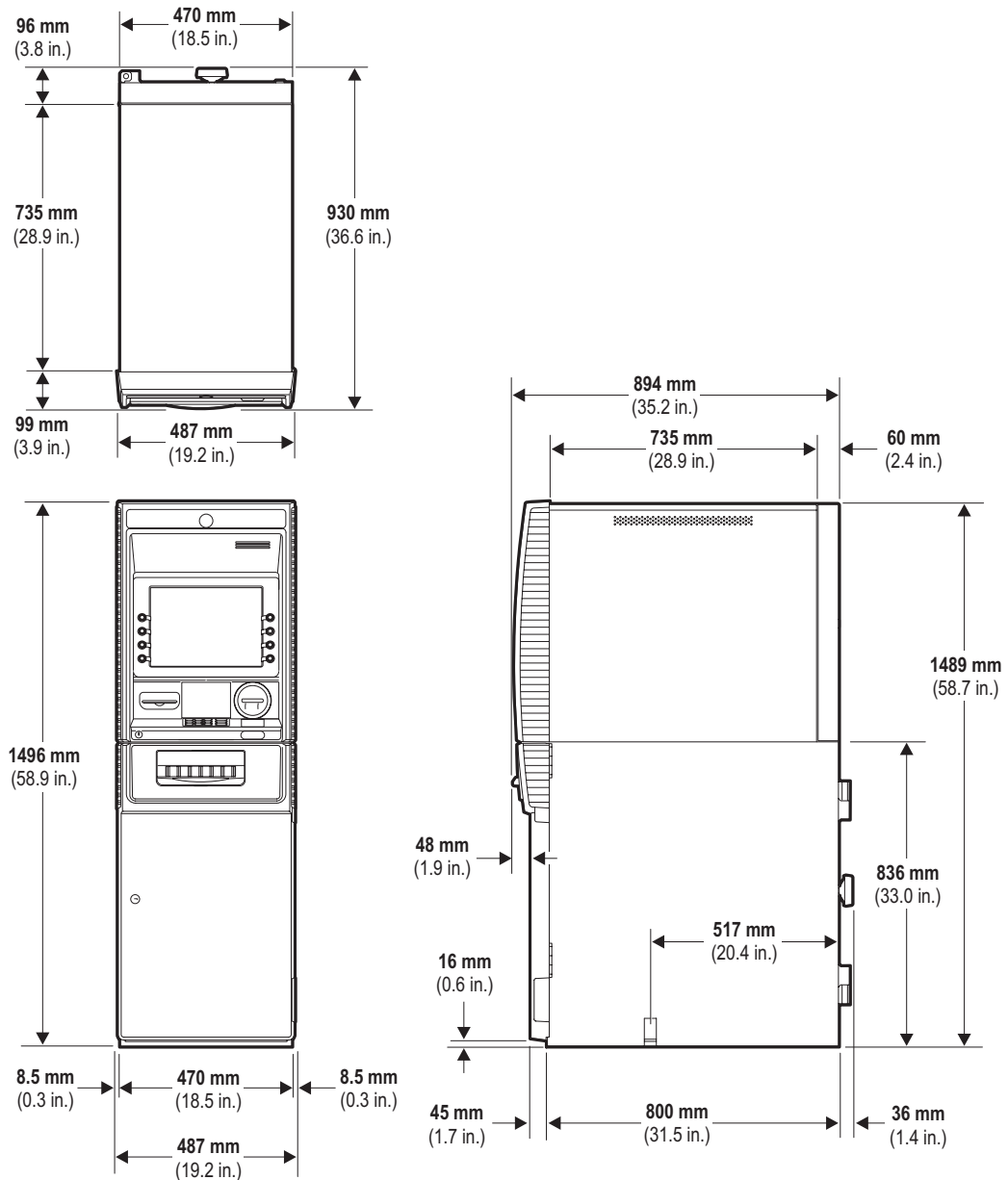
The illustration below shows the dimensions for a front access ATM configured with a CEN L, CEN I, CEN III or CEN IV Spanish security enclosure.



Rear Access

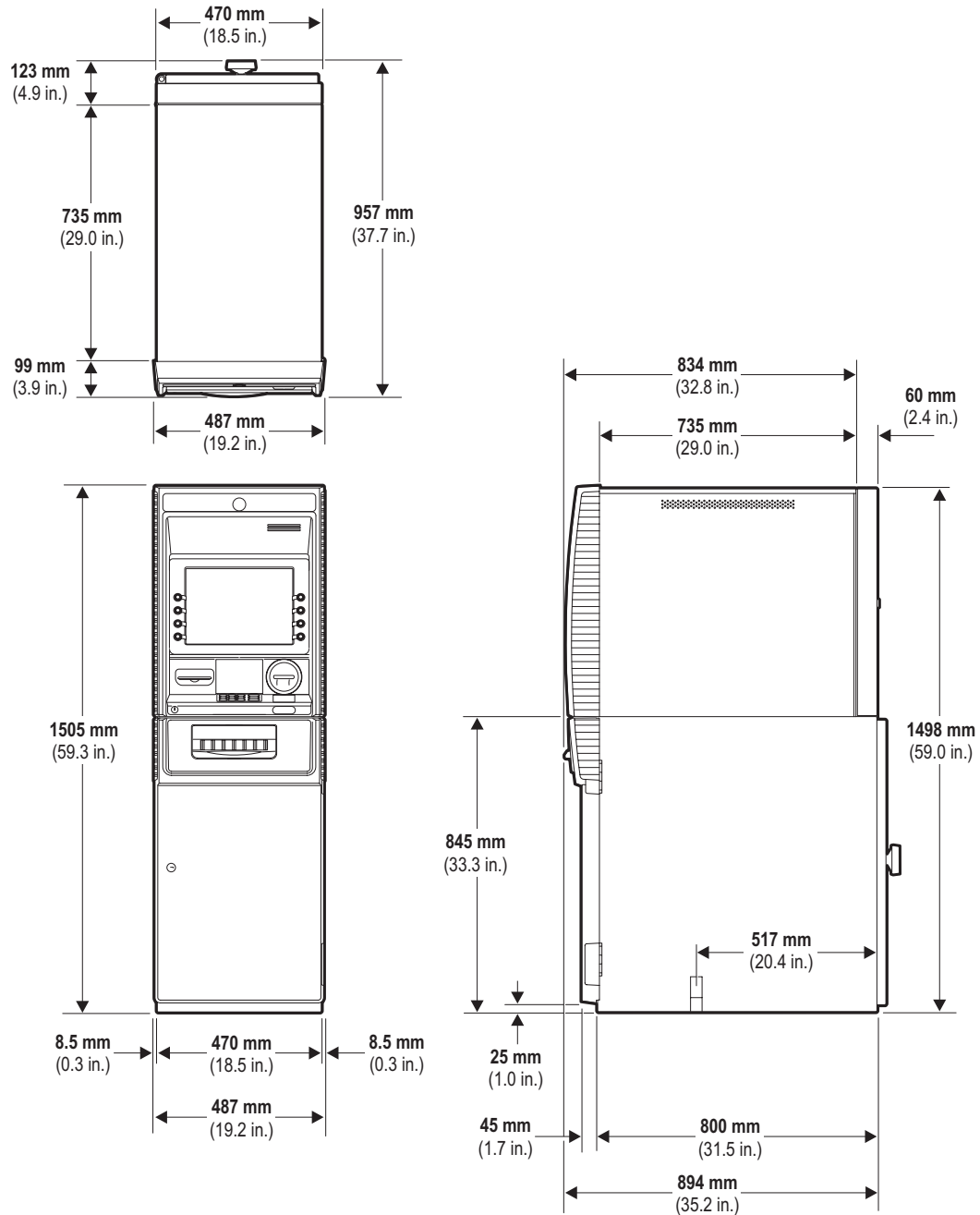
UL Security Enclosure

The illustration below shows the dimensions for a rear access ATM configured with a UL 291 Level 1 security enclosure.



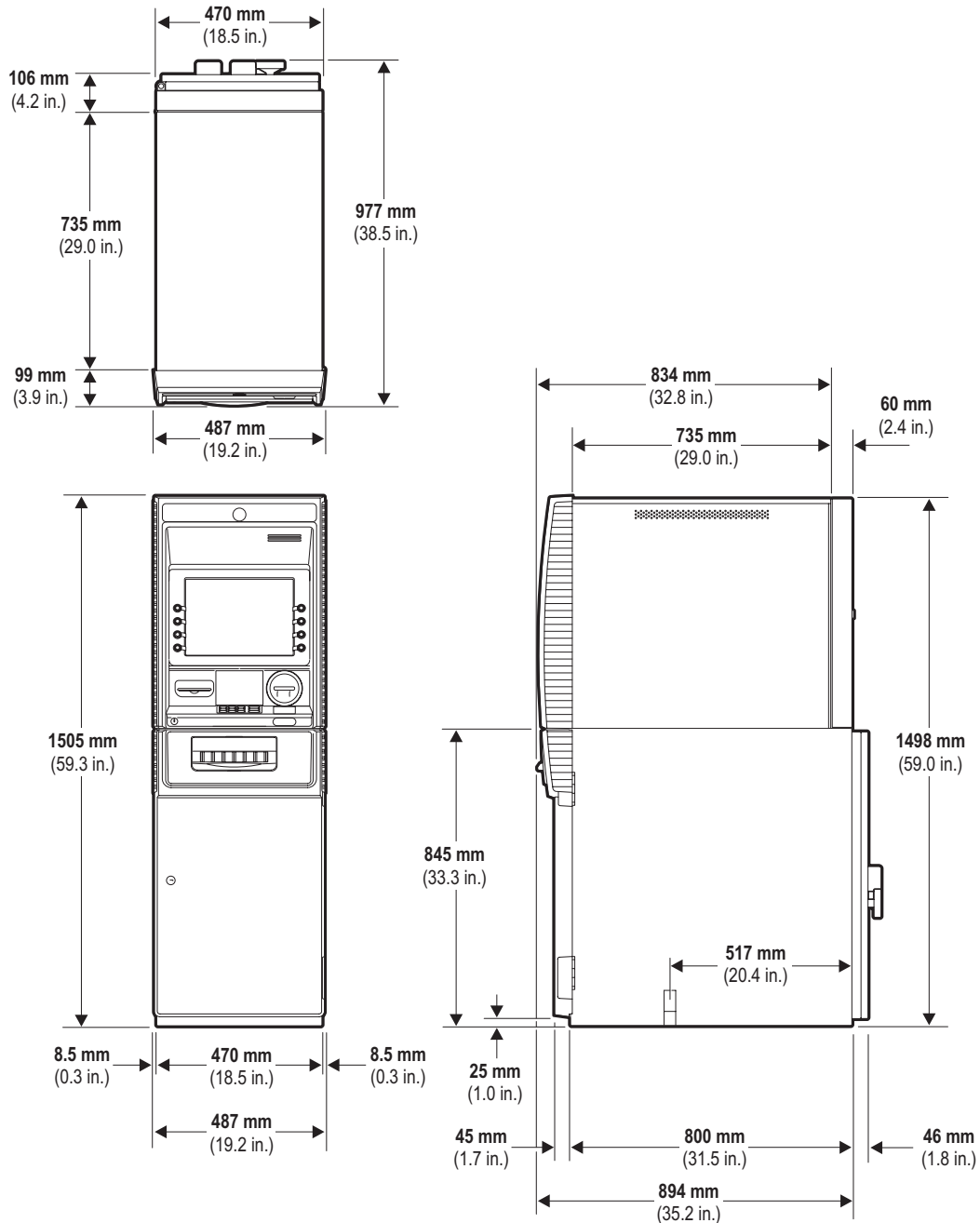
CEN I and CEN L Security Enclosures

The illustration below shows the dimensions for a rear access ATM configured with a CEN I or CEN L security enclosure.



CEN III and CEN IV Security Enclosures

The illustration below shows the dimensions for a rear access ATM configured with a CEN III or CEN IV Spanish security enclosure.

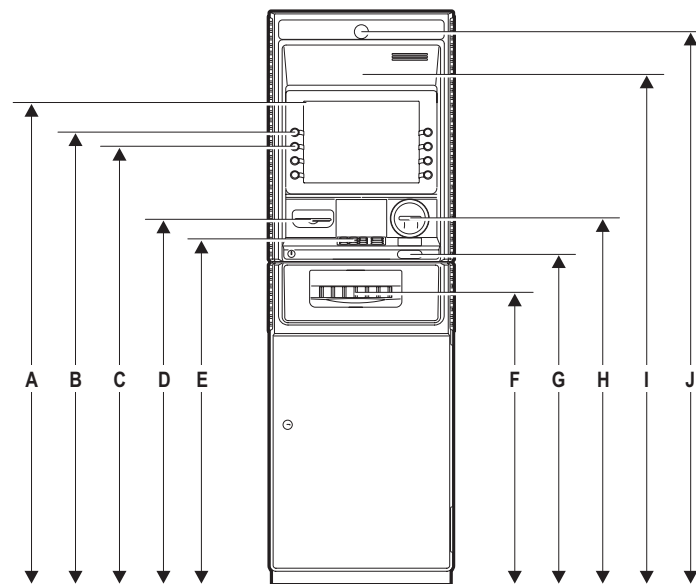


ACCESS FOR ALL











The ATM has been designed to meet the height and reach requirements of both the able-bodied and the disabled. For wheelchair users, the ATM offers optimised parallel approach, providing easy access, security and private space if installed according to the specifications detailed in this document.

Height and Depth to Main Facia Items











The following tables give the height and depth to the main facia items located on the facia. All the height dimensions are calculated from the base of the ATM.



Front Access

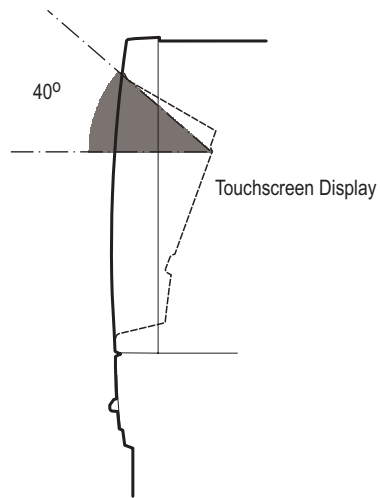
	Facia Item	Height (UL 291 only)	Height (CEN L, I, III & IV)	Depth from front of shelf
A 	307 mm (12.1 in.) Touchscreen Display	1268 mm (49.9 in.)	1278 mm (50.3 in.)	194 mm (7.6 in.)
	381 mm (15.0 in.) Touchscreen Display	1292 mm (50.9 in.)	1302 mm (51.3 in.)	203 mm (8.0 in.)
B 	307 mm (12.1 in.) Display - 1st FDK	1200 mm (47.2 in.)	1210 mm (47.6 in.)	162 mm (6.4 in.)
	381 mm (15.0 in.) Display - 1st FDK	1211 mm (47.7 in.)	1221 mm (48.1 in.)	179 mm (7.0 in.)
C 	307 mm (12.1 in.) Display - 2nd FDK	1168 mm (46.0 in.)	1178 mm (46.4 in.)	147 mm (5.8 in.)
	381 mm (15.0 in.) Display - 2nd FDK	1173 mm (46.2 in.)	1183 mm (46.6 in.)	149 mm (5.9 in.)
D 	Receipt	976 mm (38.4 in.)	986 mm (38.8 in.)	104 mm (4.1 in.)
E 	No. 5 Key	926 mm (36.5 in.)	936 mm (36.9 in.)	75 mm (3.0 in.)
F 	Cash Exit	787 mm (31.0 in.)	797 mm (31.4 in.)	21 mm (0.8 in.)
G 	Audio Jack Plug	887 mm (34.9 in.)	897 mm (35.3 in.)	0 mm (0.00 in.)
H 	Card Reader	983 mm (38.7 in.)	993 mm (39.1 in.)	104 mm (4.1 in.)
I 	Barcode Reader	1196 mm (47.1 in.)	1206 mm (47.5 in.)	20 mm (0.8 in.)
J 	Camera	1476 mm (58.1 in.)	1486 mm (58.5 in.)	21 mm (0.8 in.)

Rear Access

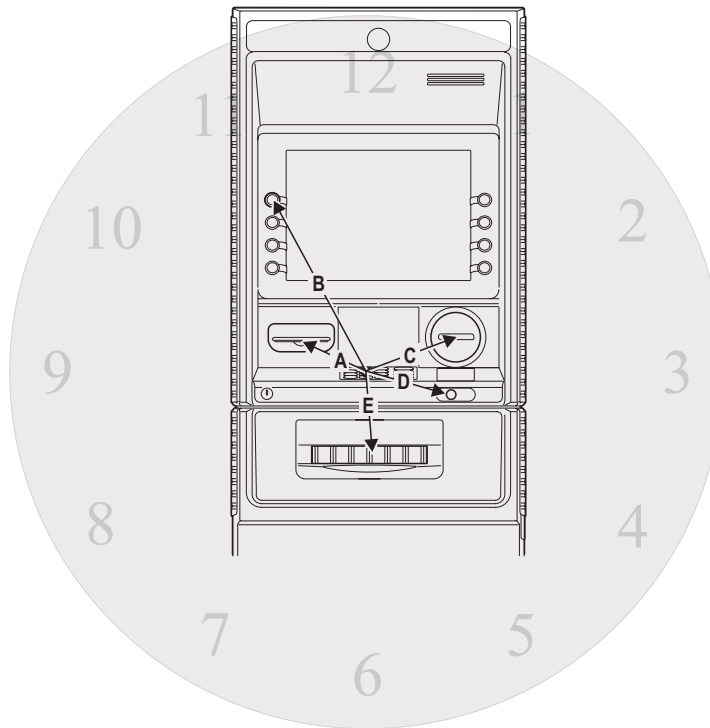
	Facia Item	Height (UL 291 only)	Height (CEN L, I, III & IV)	Depth from front of shelf
A	 307 mm (12.1 in.) Touchscreen Display	1236 mm (48.7 in.)	1245 mm (49.0 in.)	194 mm (7.6 in.)
	381 mm (15.0 in.) Touchscreen Display	1260 mm (49.6 in.)	1269 mm (50.0 in.)	203 mm (8.0 in.)
B	 307 mm (12.1 in.) Display - 1st FDK	1168 mm (46.0 in.)	1177 mm (46.3 in.)	162 mm (6.4 in.)
	381 mm (15.0 in.) Display - 1st FDK	1179 mm (46.4 in.)	1188 mm (46.8 in.)	179 mm (7.0 in.)
C	 307 mm (12.1 in.) Display - 2nd FDK	1136 mm (44.7 in.)	1145 mm (45.1 in.)	147 mm (5.8 in.)
	381 mm (15.0 in.) Display - 2nd FDK	1141 mm (44.9 in.)	1150 mm (45.3 in.)	149 mm (5.9 in.)
D	 Receipt	944 mm (37.2 in.)	953 mm (37.5 in.)	104 mm (4.1 in.)
E	 No. 5 Key	894 mm (35.2 in.)	903 mm (35.6 in.)	75 mm (3.0 in.)
F	 Cash Exit	755 mm (29.7 in.)	764 mm (30.1 in.)	21 mm (0.8 in.)
G	 Audio Jack Plug	855 mm (33.7 in.)	864 mm (34.0 in.)	0 mm (0.00 in.)
H	 Card Reader	951 mm (37.4 in.)	960 mm (37.8 in.)	104 mm (4.1 in.)
I	 Barcode Reader	1164 mm (45.8 in.)	1173 mm (46.2 in.)	20 mm (0.8 in.)
J	 Camera	1444 mm (56.9 in.)	1453 mm (57.2 in.)	21 mm (0.8 in.)

Topmost Viewable Facia Item

The following illustration shows the projected angle from the front of the ATM facia to the topmost viewable facia item.



Facia Item Locations for Voice Guidance



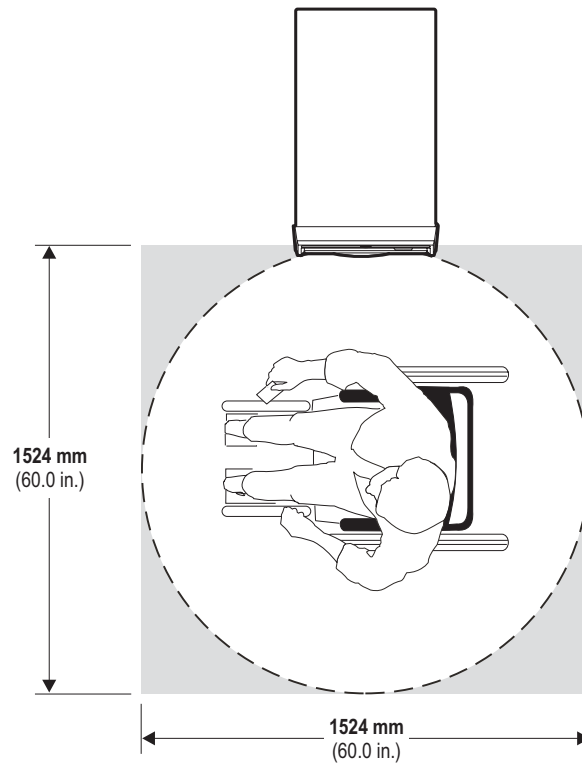
Facia Item		Distance from No. 5 Key	Clock Face Position
A	Receipt Exit	118 mm (4.6 in.)	10
B	307 mm (12.1 in.) Display - Top left-hand FDK	315 mm (12.4 in.)	11
	381 mm (15.0 in.) Display - Top left-hand FDK	325 mm (12.8 in.)	11
C	Card Reader	159 mm (6.3 in.)	2
D	Audio Jack Plug	145 mm (5.7 in.)	4
E	Cash Exit	139 mm (5.5 in.)	6

Task Lighting

A minimum of 200 lux is required for task lighting.

Wheelchair Clearance

The following illustration shows the clearance required for wheelchair approach and turning circle.



INSTALLATION AND SERVICE CLEARANCES

Important Notice to Users

If it is likely that the ATM will be upgraded with new modules as they become available, you should use the recommended clearances.

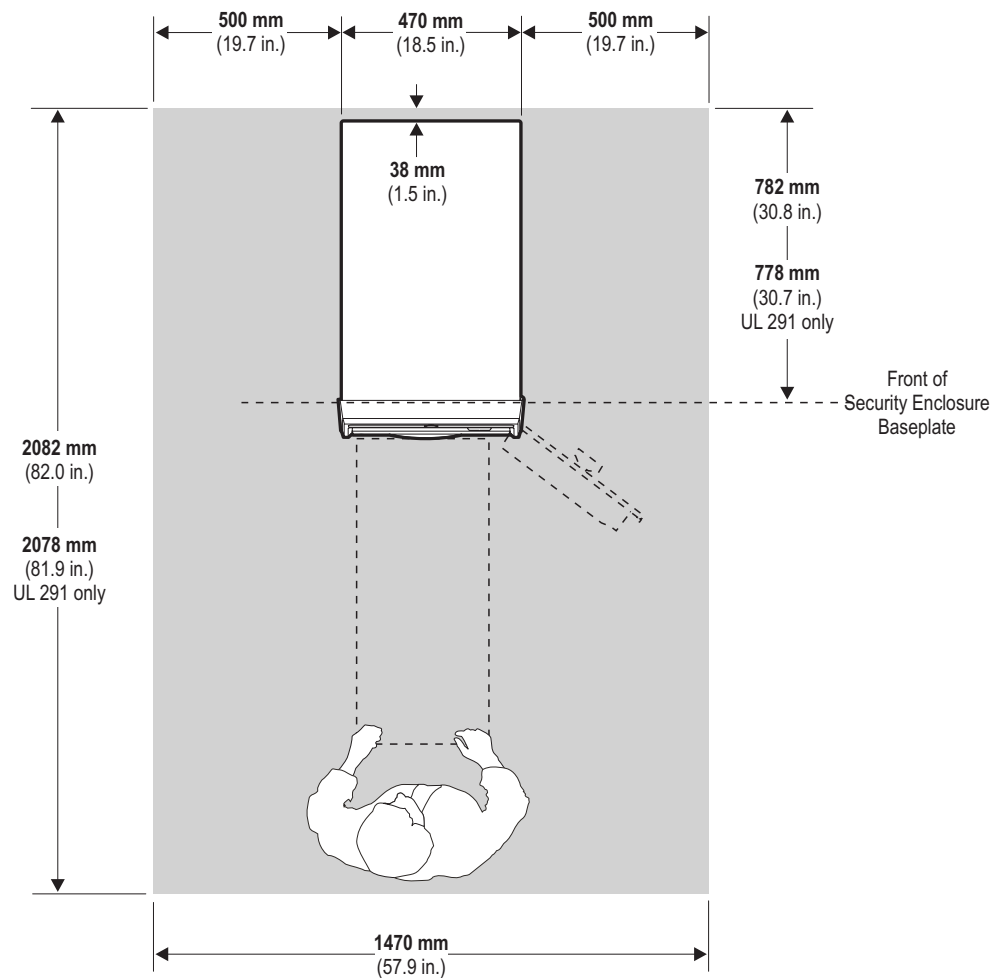
Note: Installing the ATM in the minimum servicing areas may impact servicing and/or upgrading times.

Optimum Clearances

The following illustrations show the optimum areas required for installing and servicing the ATM.

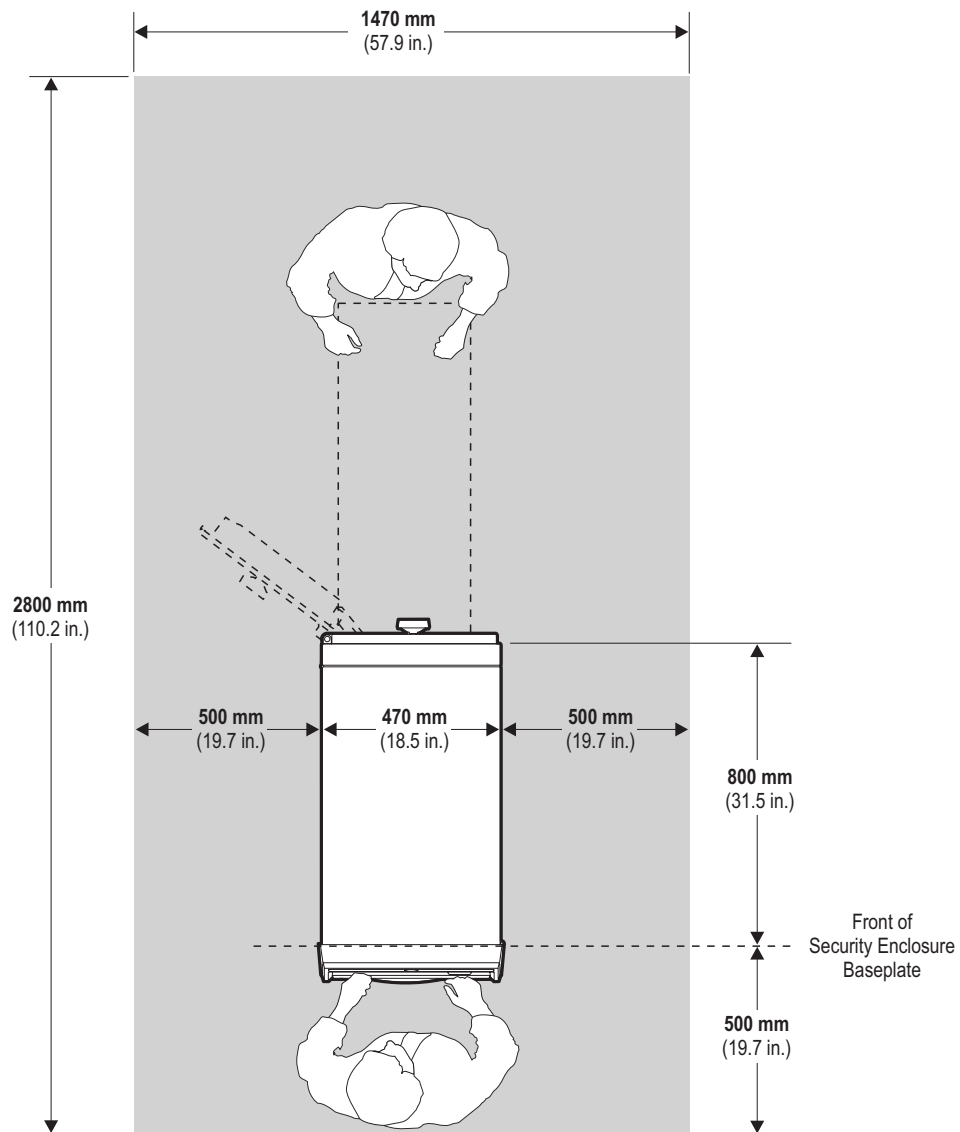
Front Access

The illustration below shows the optimum clearance dimensions for a front access 6622 ATM.



Rear Access

The illustration below shows the optimum clearance dimensions for a rear access 6622 ATM.

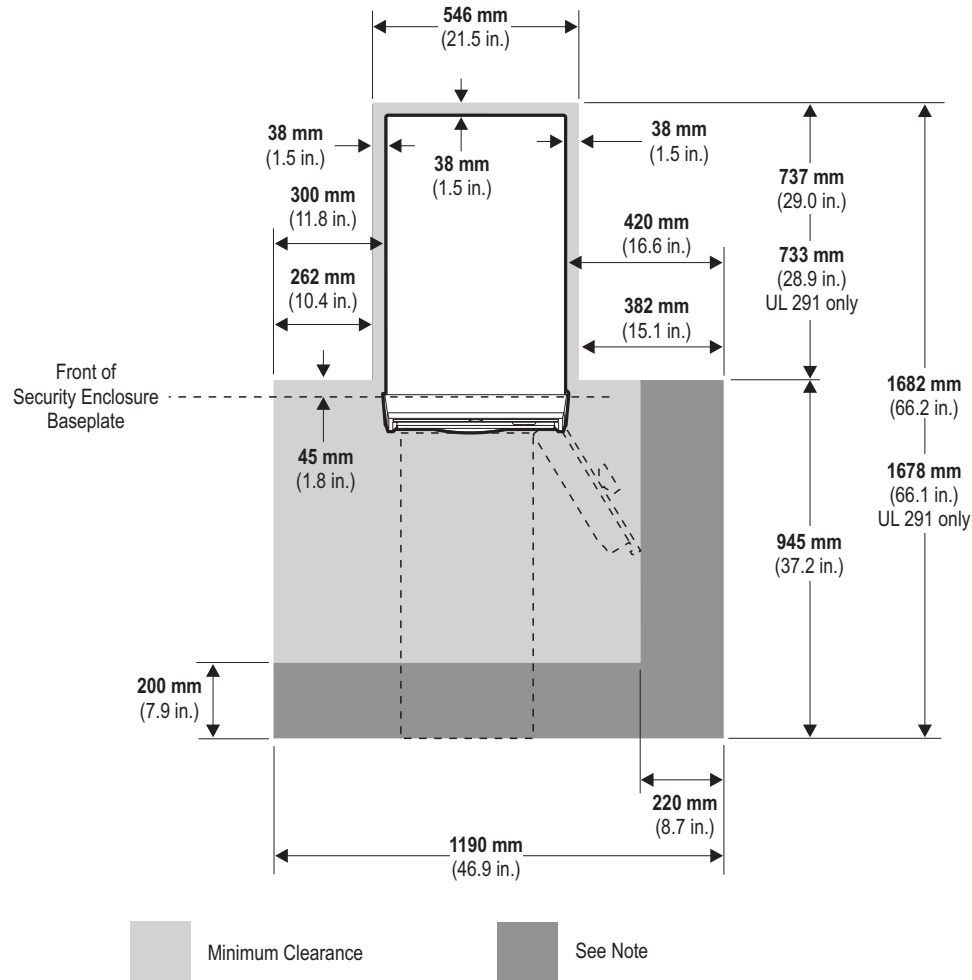


Minimum Clearances

The following illustrations show the minimum areas required for installing and servicing the ATM.

Front Access

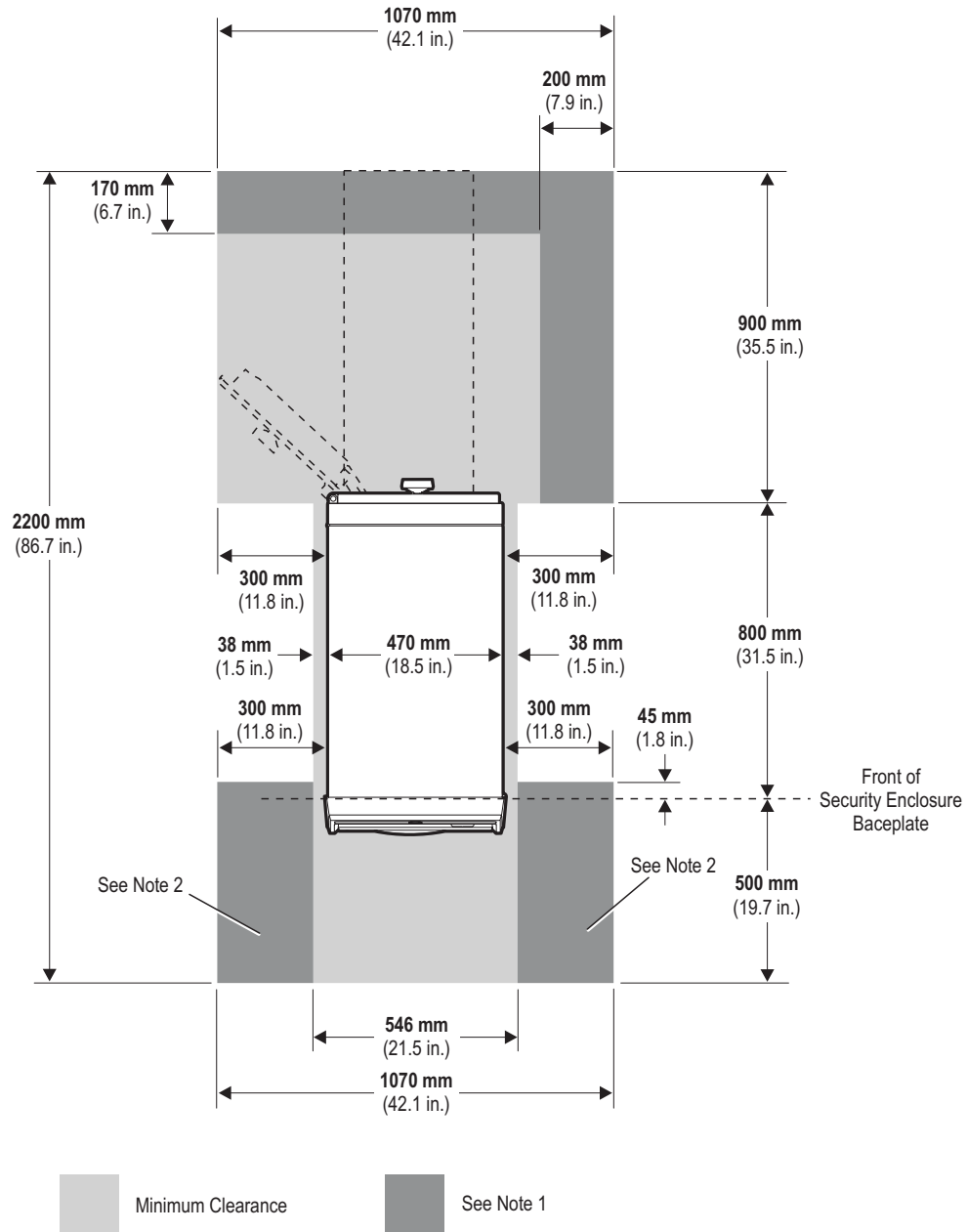
The illustration below shows the minimum clearance dimensions for a front access 6622 ATM.



Note: This area is required for minimum service clearance. If this area is not available please refer to 'Important Notice to Users' on [page 20](#) and consult your local service representative.

Rear Access

The illustration below shows the minimum clearance dimensions for a rear access 6622 ATM.



Note 1: This area is required for minimum service clearance. If this area is not available please refer to 'Important Notice to Users' on [page 20](#) and consult your local service representative.

Note 2: Only one area is required, either on the left or on the right.

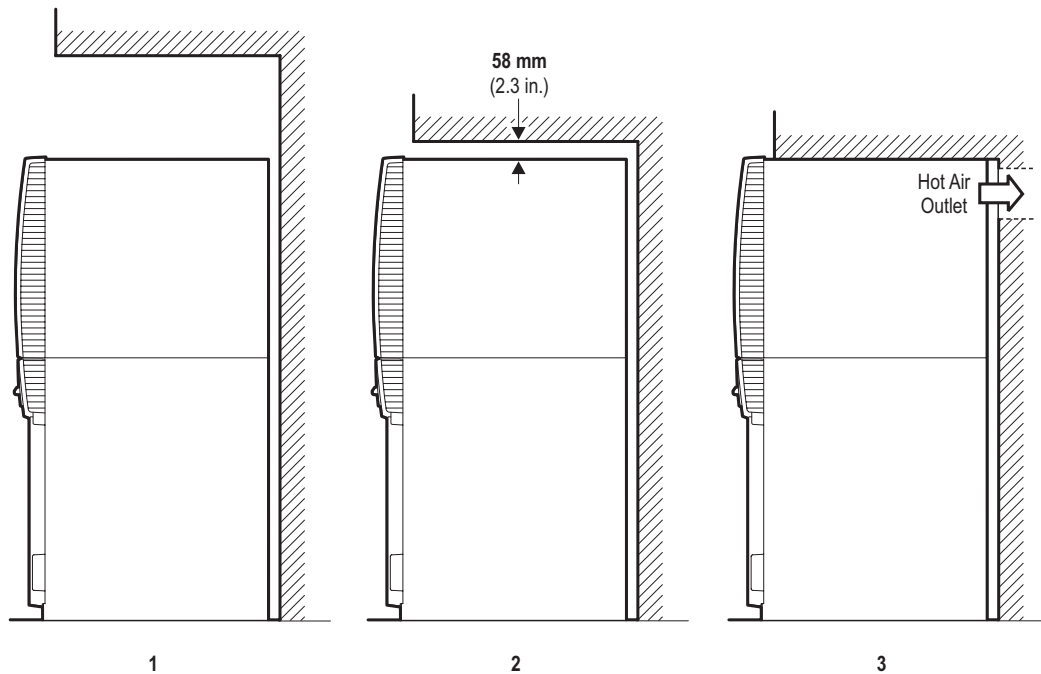
Front Access Top-box Clearances

There are three conditions that need to be considered when installing the front access ATM within an enclosed area. These conditions are as follows:

1. If you are installing your front access ATM within the minimum clearance area with a normal ceiling height above the top-box, the ATM will operate at normal temperature.
2. If you are installing your front access ATM within the minimum clearance area with a **58 mm (2.3 in.)** clearance above the top-box, the maximum operating temperature will need to be reduced by **5°C (9°F)**.
3. If you are installing your front access ATM within the minimum clearance area with a surround or enclosure that will sit directly on the top-box, a hot air extraction system will need to be installed. Any such system should be sourced locally. Refer to the illustrations on [page 26](#) for dimensions of the hot air outlet.

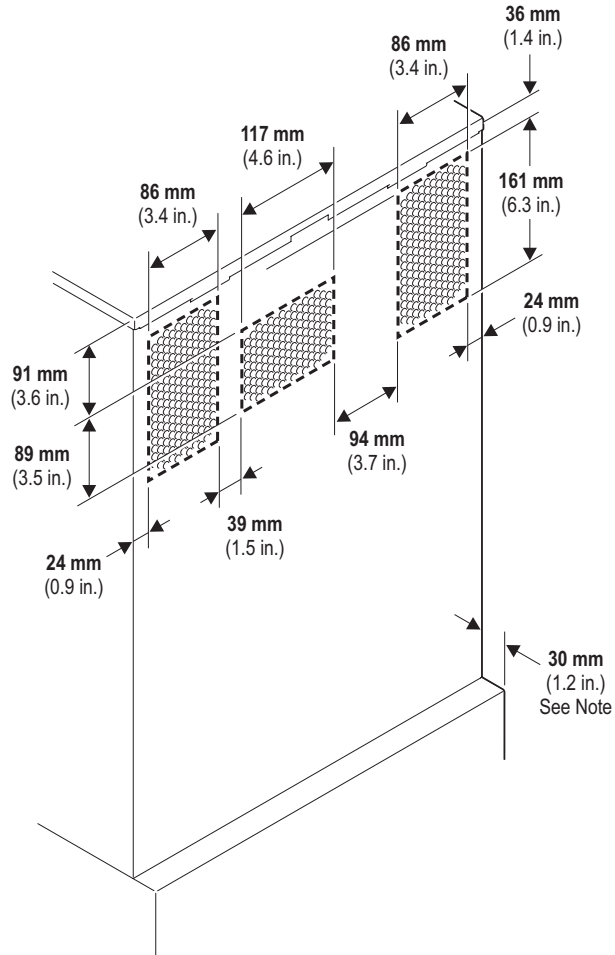
Note: Any surround or enclosure that sits on top of the top-box must be self supporting.

For details of the ATM's operating temperature range, refer to the *NCR 6622 ATMs Environmental and Planning Requirements (B006-6754)* book.



Hot Air Outlets - Front Access

The illustration below shows the position of the hot air outlets on the rear of the front access ATM.



Note: CEN security enclosures only.

REQUIREMENTS FOR THE FLOOR

The ATM is suitable for mounting on a concrete or other non-combustible surface only.

Floor Covering

An antistatic floor covering should be used and must be of a type that will not generate dust or fluff. The surface on which the ATM is to be sited should be level and even. In locations where the floor may be uneven, it is recommended that a steel plate is used under the ATM.

Floor Loading

The ATM must be installed on a floor capable of supporting the maximum weight. Only the maximum weight should be considered as additional options may be added after installation.

Front Access ATMs

	UL 291	CEN I & CEN L	CEN III & CEN IV
Maximum weight	490 kg (1080.5 lb.)	493 kg (1087.1 lb.)	650 kg (1433.3 lb.)
Floor loading	1409 kg/m² (288.5 lb./ft ²)	1410 kg/m² (288.7 lb./ft ²)	1859 kg/m² (380.7 lb./ft ²)

Rear Access ATMs

	UL 291	CEN I & CEN L	CEN III & CEN IV
Maximum weight	490 kg (1080.5 lb.)	493 kg (1087.1 lb.)	650 kg (1433.3 lb.)
Floor loading	1303 kg/m² (266.9 lb./ft ²)	1311 kg/m² (268.5 lb./ft ²)	1729 kg/m² (354.0 lb./ft ²)

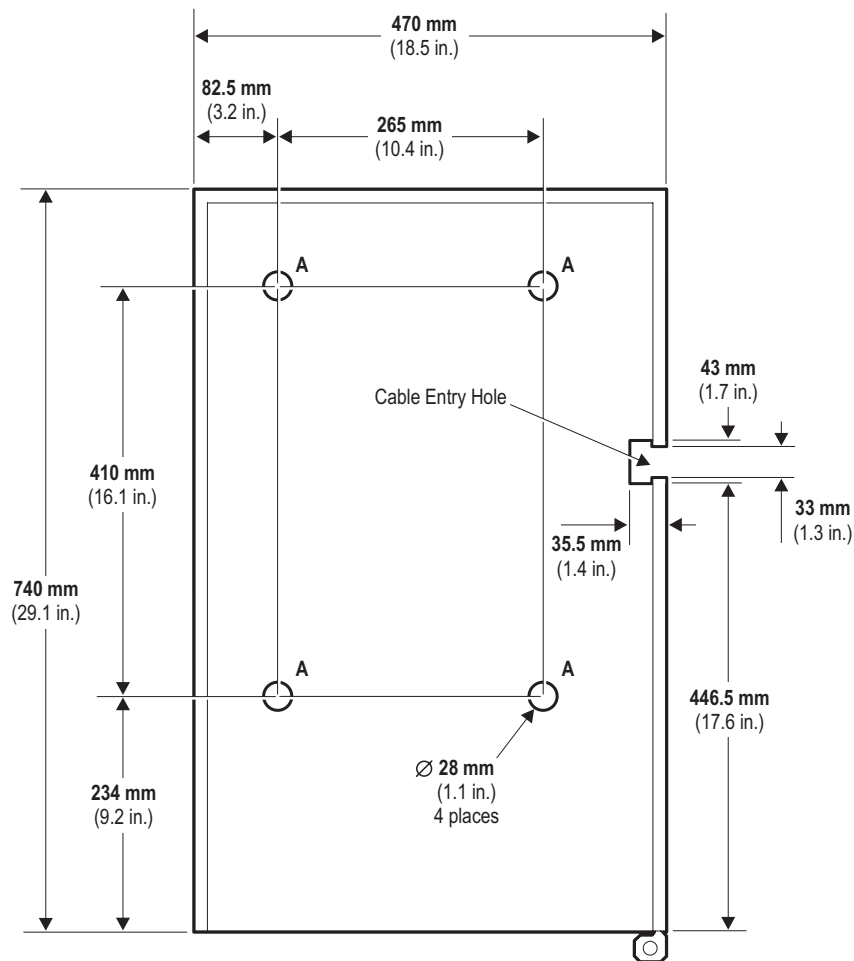
BOLT HOLE LOCATIONS

The following illustrations show a plan view of the base of the ATM. The plan should be used for pre-drilling bolt holes 'A' and illustrates the design of the steel plate, if used.

Front Access

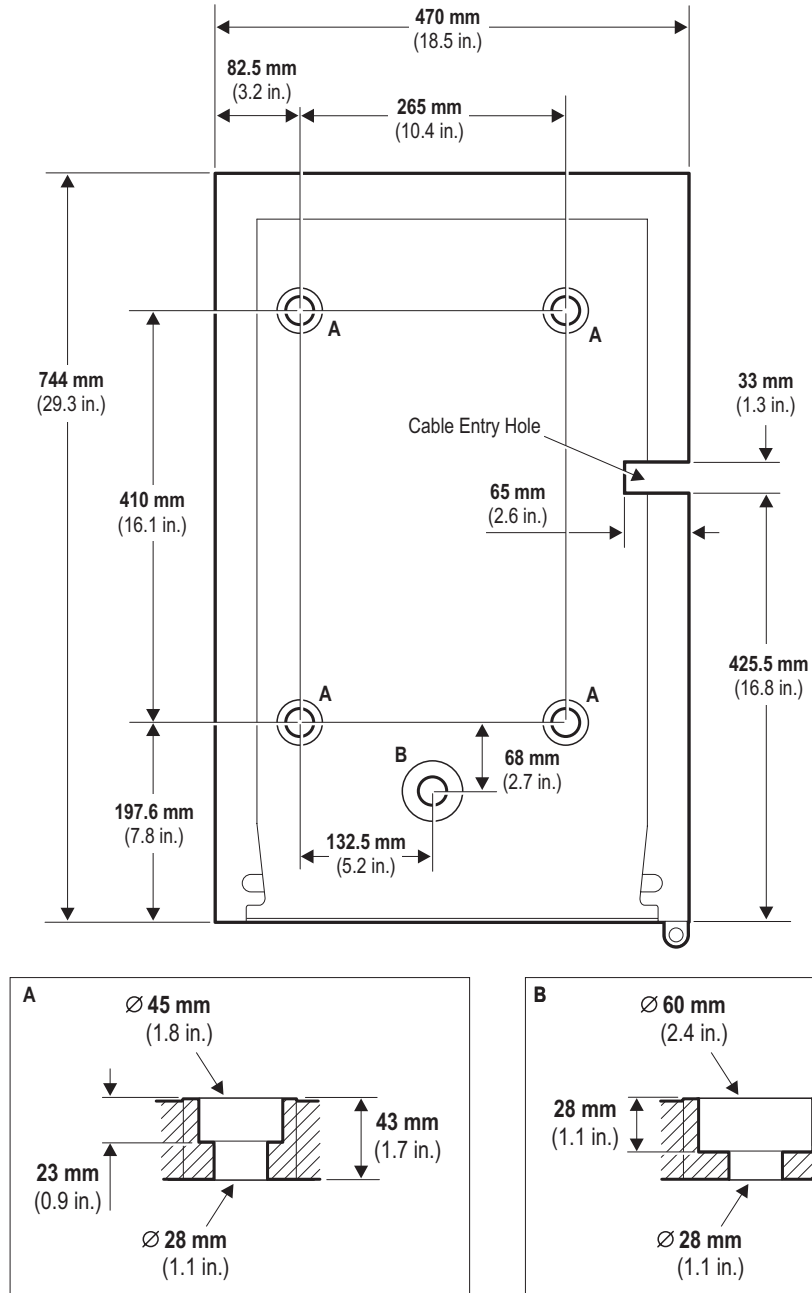
UL Security Enclosure Bolt Hole Locations

The illustration below shows the dimensions for a front access ATM configured with a UL 291 Level 1 security enclosure.



CEN I and CEN L Security Enclosure Bolt Hole Locations

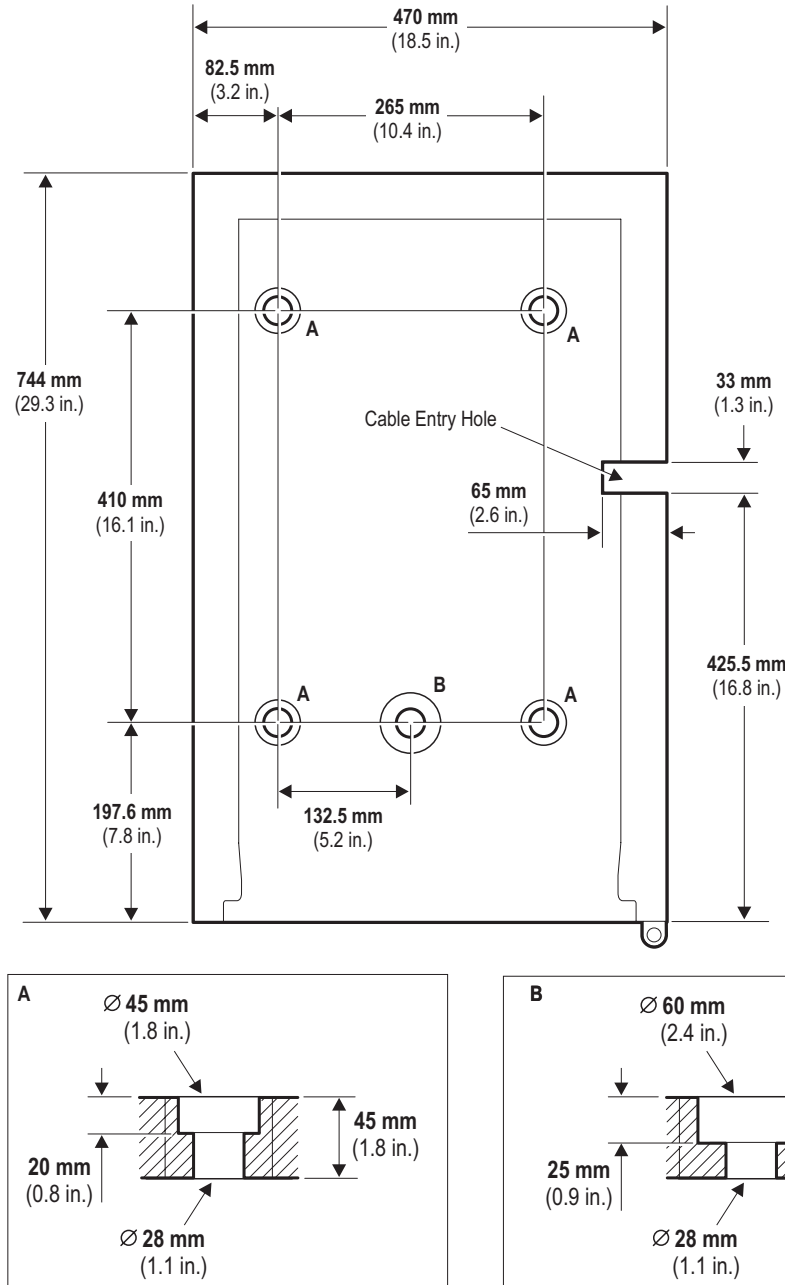
The illustration below shows the dimensions for a front access ATM configured with a CEN I or CEN L security enclosure.



Note: The hole, marked with a 'B', enables a security alarm sensor to be fitted.

CEN III and CEN IV Security Enclosure Bolt Hole Locations

The illustration below shows the dimensions for a front access ATM configured with a CEN III or CEN IV Spanish security enclosure.

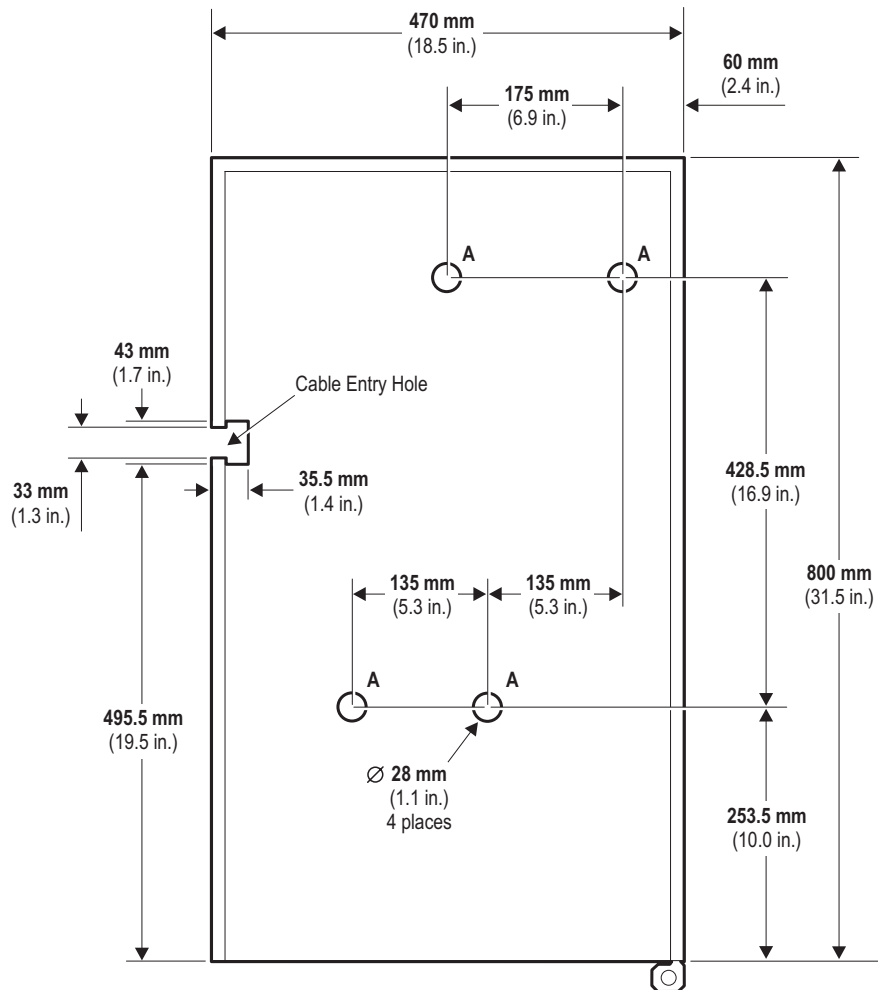


Note: The hole, marked with a 'B', enables a security alarm sensor to be fitted on a CEN III security enclosure.

Rear Access

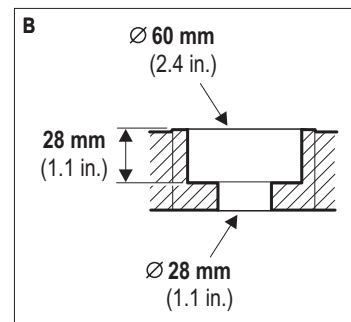
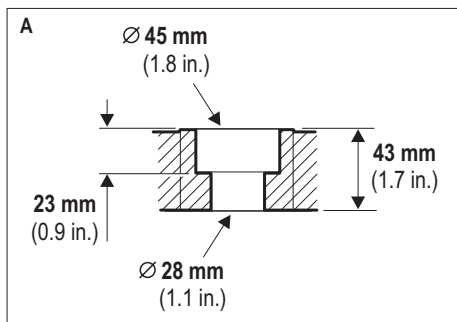
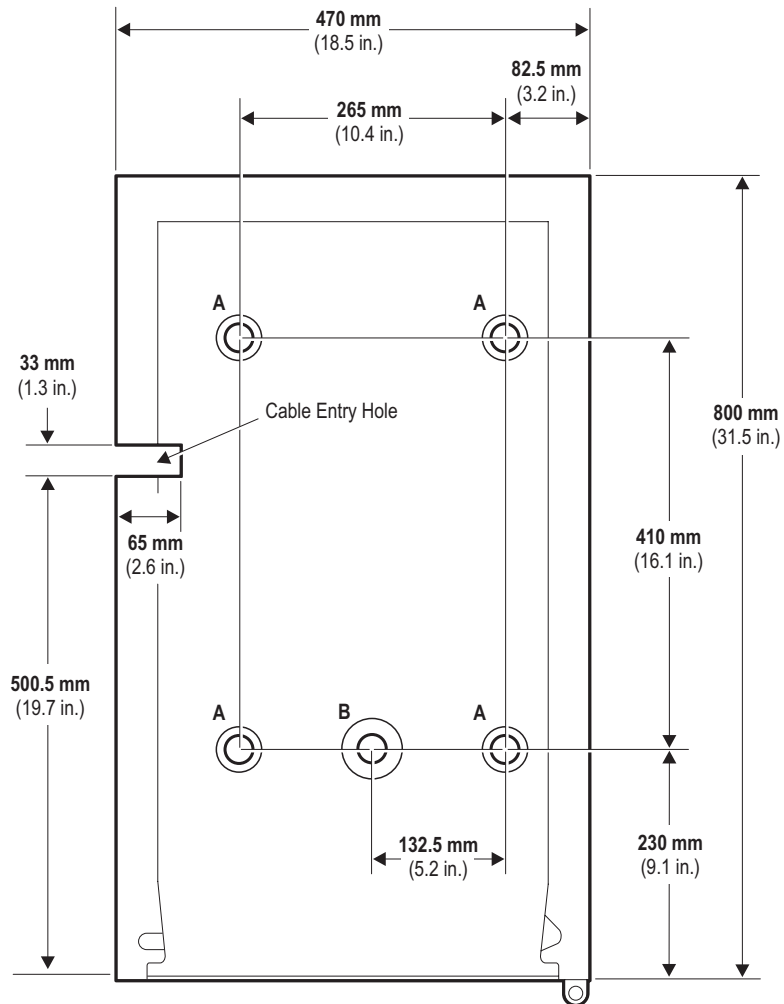
UL Security Enclosure Bolt Hole Locations

The illustration below shows the dimensions for a rear access ATM configured with a UL 291 Level 1 security enclosure.



CEN I and CEN L Security Enclosure Bolt Hole Locations

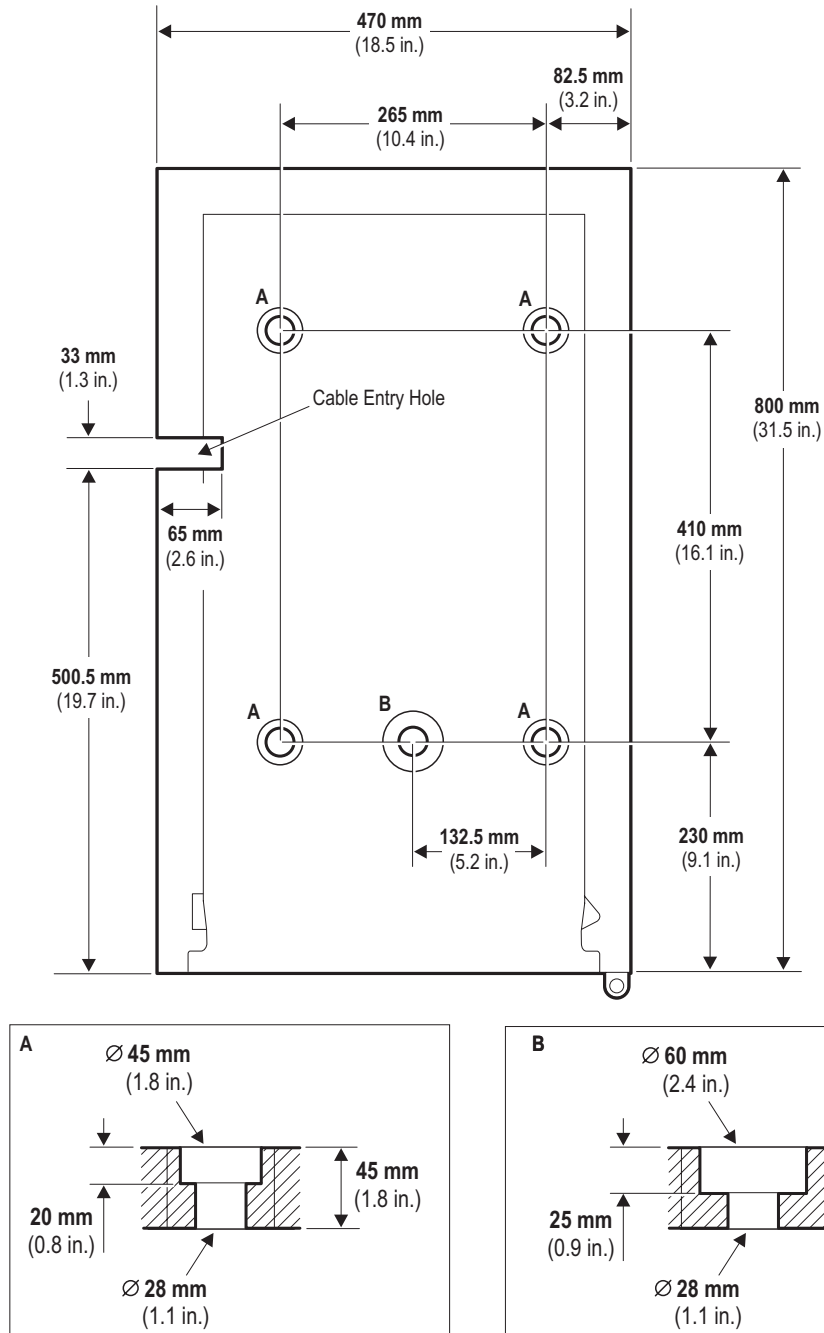
The illustration below shows the dimensions for a rear access ATM configured with a CEN I or CEN L security enclosure.



Note: The hole, marked with a 'B', enables a security alarm sensor to be fitted.

CEN III and CEN IV Security Enclosure Bolt Hole Locations

The illustration below shows the dimensions for a rear access ATM configured with a CEN III or CEN IV security enclosure.



Note: The hole, marked with a 'B', enables a security alarm sensor to be fitted on a CEN III security enclosure.

SECURITY BOLTS

To meet security standards the ATM must be bolted to the floor, through the 'A' holes, using four bolts with anchor washers as specified below. The floor must be capable of withstanding the loading imposed by the anchor points for the bolts. Bolts and anchor washers are to be supplied by the owning organisation.

The minimum specification for bolts to secure the ATM to a concrete floor and meet security standards, is high tensile **M16** (5/8 in.) bolts with appropriate anchor washers of **6 mm** (0.2 in.) minimum thickness. Bolts should be a minimum depth of **150 mm** (5.9 in.) and either resin anchor bolts or shield anchor type bolts.

Note 1: Bolting of CEN security enclosures should comply with the requirements of EN 1143-1 (CEN Safe Burglary Standard).

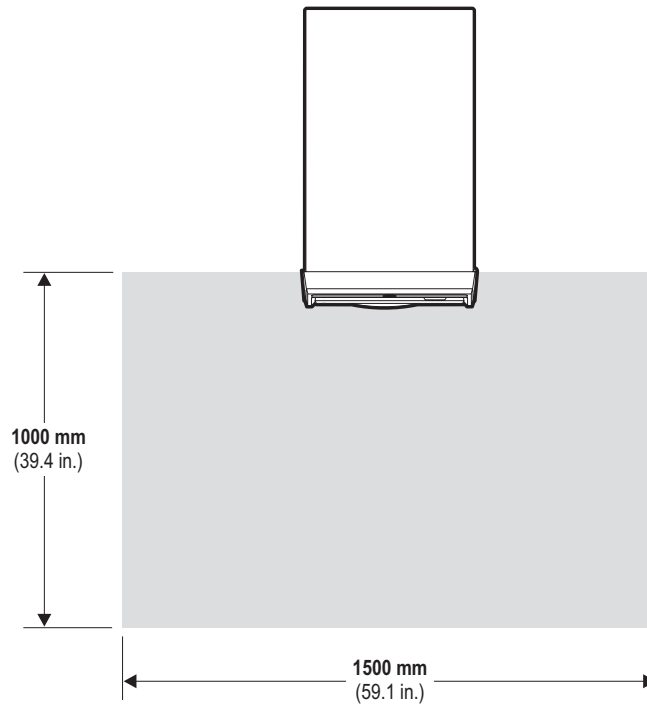
Note 2: For CEN L, CEN I and CEN III safes there is an additional fifth central anchoring hole (hole 'B') of a larger counterbored diameter that can be used to fit a local alarm sensor.

VIDEO CAMERA

Ambient Lighting

If the ATM is fitted with a video camera, it is strongly recommended that there is a minimum of 50 lux lighting at floor level within the area illustrated below. This lighting level conforms to:

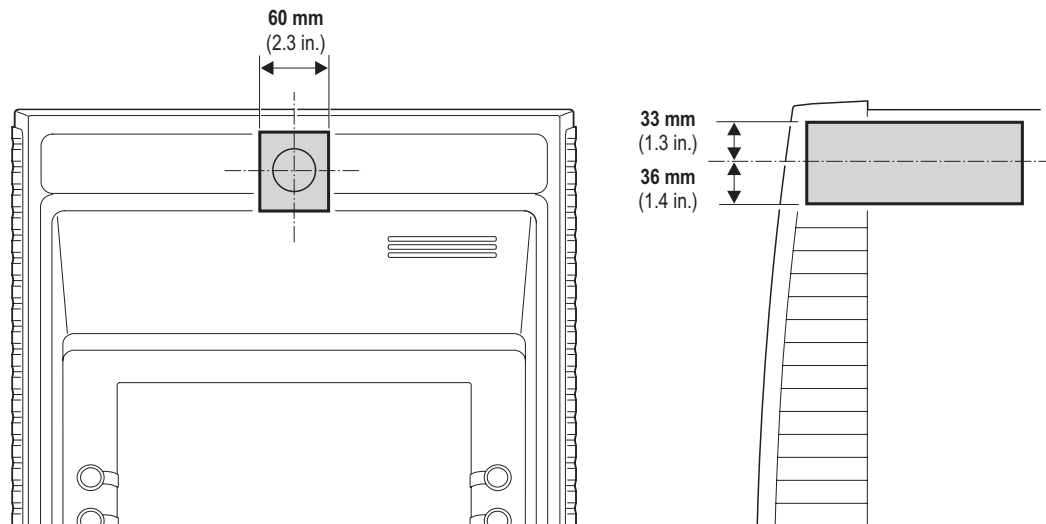
- Australian Standard for Automatic Teller Machines (1990)
- Lighting for Automatic Teller Machines as prepared by Illuminating Engineering Society of North America (1997).



Internal Space Constraint for Fitting a Third-Party Video Camera

If a third-party video camera is to be installed within the ATM, there is a space constraint to consider. The following illustration shows the space constraint dimensions.

A list of cameras that will fit within this space constraint can be found in the *NCR 66XX ATMs Feature Descriptions* (B006-6451) book.



To help NCR maintain the quality of their publications, send comments on the accuracy, clarity, usability, navigation, organization, and value of this book.

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