

Information Pack

# Sesame Access System

# Sesame Access System

## a revolutionary and patented lifting solution

The Sesame system provides a unique lifting solution that is invisible when not in operation, and effectively converts a set of steps into a lift at the touch of a button.

## wheelchair access without compromising the aesthetic design of the building

The Sesame is perfectly suited for listed buildings and sensitive conservation areas, or any location where aesthetics are paramount or when space is at a premium.

## revealed only at the push of a button

The Sesame system is fully patented and can be fitted to both internal and external stairs with a rise of up to 1.0 metres with higher rises available by special design. The system works by removing the existing steps and bedding in a pre-manufactured mounting frame to which a platform lift and a boxed set of Sesame steps is fitted. At the push of a button the Sesame steps roll back to uncover the platform.

## seamlessly blends into the environment

The Sesame steps can be clad to blend into the existing surround of any surface. Consequently when not in use as a lift, the stairs are indistinguishable from the surrounds and available for pedestrian passage. Where there is sufficient width in the stairs the Sesame can be fitted to a section of the steps leaving the remainder permanently for pedestrian use.



# BBC Westminster



The problem of disabled access faced at BBC Beaumont House in Westminster is replicated in Ireland and throughout the U.K.

Early architectural design was often based on the concept of a moat surrounding properties, incorporating a basement housing kitchens and servants quarters with steps bridging up from street level to the remainder of the residence.

Many of these properties have been converted for commercial use and the Sesame offers the answer in providing wheelchair access without compromising the aesthetics of the building.

You will notice the rising barrier option and stainless steel tracks that protect the platform surface but remain unseen when the stairs are in the rest position.



# Chulmleigh Community College, Devon



When this College was chosen as the site for the development of a typical "classroom of the future" the planners needed to identify a solution for disabled access over short / medium rise steps. The result was a Sesame which was able to reach a height of 1.75m.

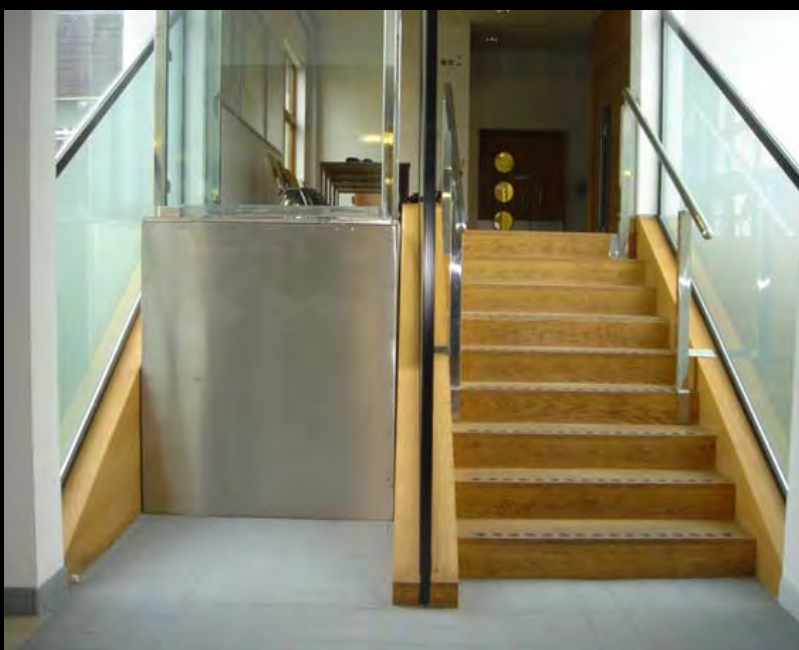
Although it presented a new challenge this was met by some strategic redesign and the Sesame is an integral part of what is envisaged for education facilities in the future.

When the children first saw the Sesame in action they were amazed that their stairs moved, they had not realised they had been running up and down a wheelchair lift!

By law a platform lift that rises over 500mm must have a gate or barrier at the top level. A platform lift that rises above 1000mm must be enclosed on all 4 sides. This installation had a total rise of 1400mm.

You will notice that the customer opted for a glass enclosure on the platform lift with swinging gates rather than our rising barrier option.

You can see a stainless steel skirt surrounding the working parts of the platform lift. This is only possible when the site has enough room below the lift to dig a pit. The pit depth must be the total rise of the lift plus 200mm for the lift itself, therefore the pit depth for this site was 1600mm. Our roller shutter blind option only requires a pit depth of 200mm.



# Institute of Civil Engineers, Westminster

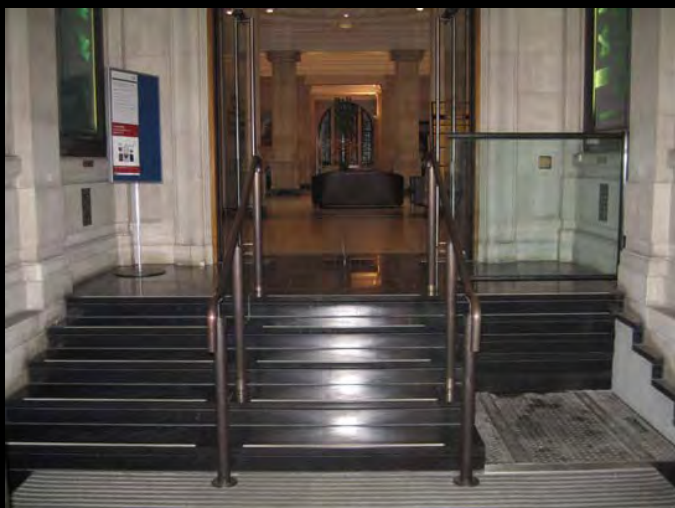
The Sesame fitted to the external entrance is clad in Limestone and once this is weathered it will fully blend into its surroundings as there are only 6mm gaps bounding the moving parts and static area.

A further feature of this installation is that the control button box rises from below the stair lift when the stairs retract.

The internal Sesame System is clad in marble and a swinging gate has been chosen. It has also been fitted with a rising control button box to make the System blended totally with the area.

"We are extremely proud of this new addition and it shows that even buildings in architecturally sensitive areas can be updated to provide access for all!"

Institute of Civil Engineers



# Gracechurch Street



This newly launched variant of the Sesame lift is not designed to use a set of retracting stairs in the same way as the standard Sesame Access System. Instead it can be fitted unobtrusively in an area that requires just a vertically traveling platform.

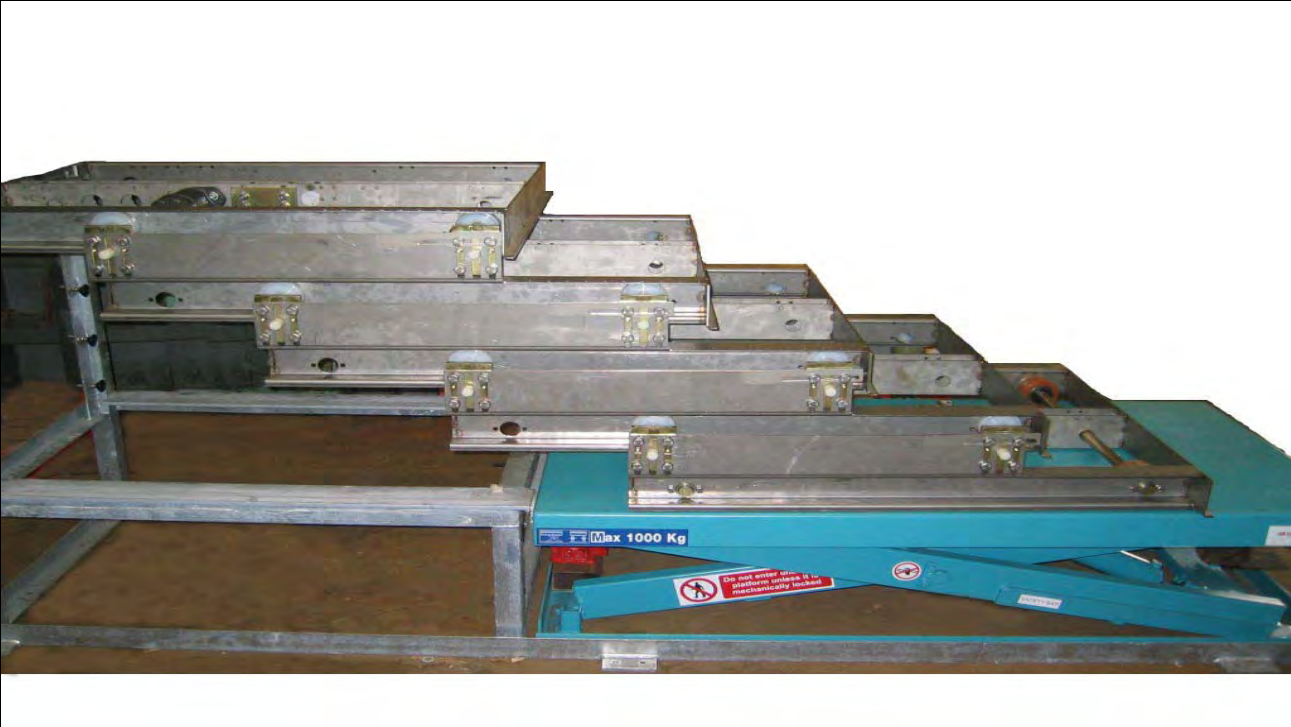
If you check the photos in the gallery above you will notice a fixed control post permanently on view. Architects can opt for this post rather than a hidden rising button post so that users can locate the wheelchair lift.

The user calls the platform lift by passing a swipe card over the call station and once on the platform they can then press and hold the up or down button on the post to reach the desired level.

This optional control system can be an ideal way to serve a wheelchair user in locations such as hotels. The customer can be given the swipe card with their keys at check-in and from then on will be able to operate the lift without assistance. An ideal solution to prevent unauthorised use.



# Sesame System Skeleton



# Sesame Specification

## THE STAIRS

These are CE marked in framework form, ready to be finished with the client's chosen surface. Materials can be wood, carpet, stone, marble, etc. (finishing is the responsibility of others).

The stairs move on an integral wheel system without contact with the adjacent surface material and the extended stairs are suitably designed for pedestrian use.

The top step is covered by a stainless steel platform tray. This to be clad with the chosen material as the finishing is completed. Access required to main power source 240v 1 ph. 50Hz @ 0.5KW. Each Step is rated at 125Kg swl. Manufactured to Electrical Standard BS 7671.

## THE LIFT

The lift unit includes an automatic, three sided, wheel stop, rising 100 mm before the lift platform.

The lift platform is fitted with handrail mountings, and push button cable entry.

The platform surface is prepared for surface material attachment.

The scissor lift provided will be rated at a safe working load of 500 KG or 1000 KG depending on the application and weight of the surfacing materials.

The lift can be lowered in emergency by a hand operated valve.

All requirements of BS6440 and BS 5323 as amended 1984 and 1987 are met.

## MOUNTING FRAME

Mild steel composition onto which the Sesame Stairs and Scissor Lift are bolted.

1500kg capacity and designed to ensure the installation of the manufactured system can be swiftly installed.

## OPERATING CONTROLS

Push Button Controls located in a tamper proof casing. Can be adapted if required for Braille or other special needs.

## HYDRAULIC SYSTEM

The hydraulic system drives stairs, lift, and gate movements.

Normally located within the top stair and under the platform tray.

The system meets full industrial standards with proven reliability.

## ELECTRICS

The electric control system is based around a programmable logic controller (PLC) and suitable for outside use.

## GATE OPERATION

Control box normally located within the top stair.

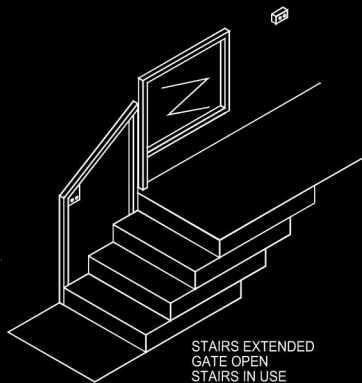
Single phase 13A supply is the maximum requirement.

A hydraulic gate operator actuates the customer supplied gate. Any obstructive resistance to a gate movement triggers instant reversal.

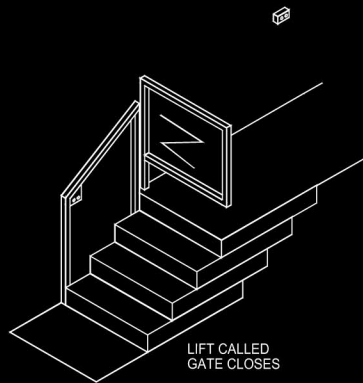
The operator mechanism is hydraulically locked in the closed position, but can be released by in an emergency by a hand operated valve.

## EMERGENCY BACKUP SYSTEM (OPTIONAL)

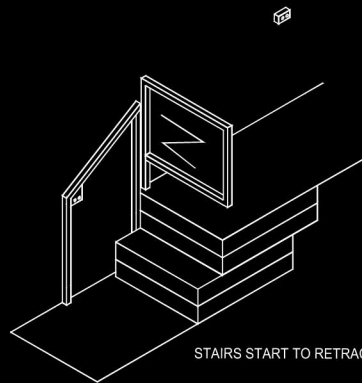
In the event of mains power failure, the full system automatically switches to battery operation. All functions remain the same with the minimum of four complete cycles.



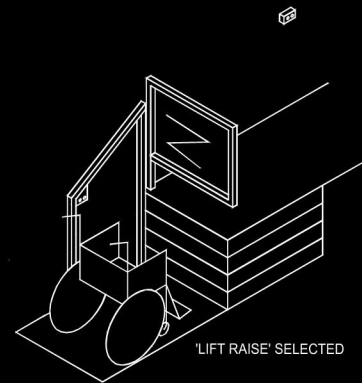
STAIRS EXTENDED  
GATE OPEN  
STAIRS IN USE



LIFT CALLED  
GATE CLOSES



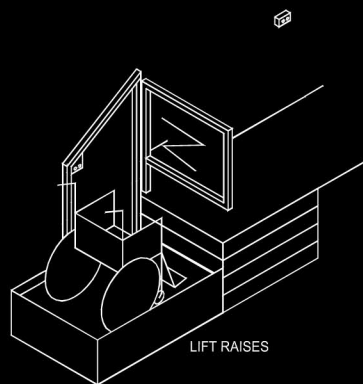
STAIRS START TO RETRACT



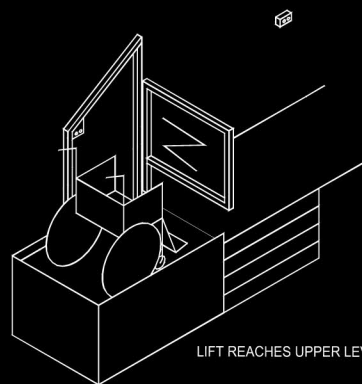
'LIFT RAISE' SELECTED



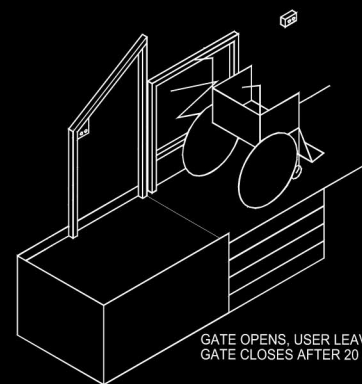
WHEELSTOP RAISES TO 100 MM



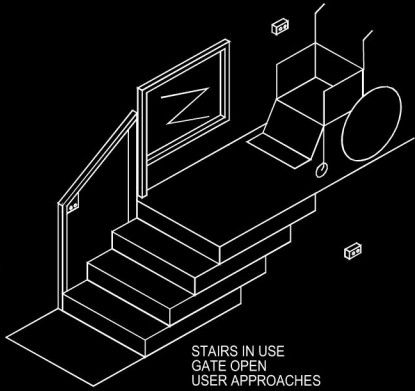
LIFT RAISES



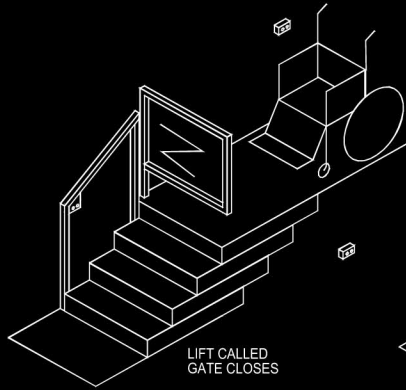
LIFT REACHES UPPER LEVEL



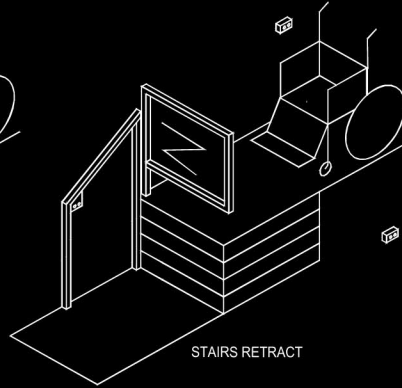
GATE OPENS, USER LEAVES  
GATE CLOSES AFTER 20 SECS.



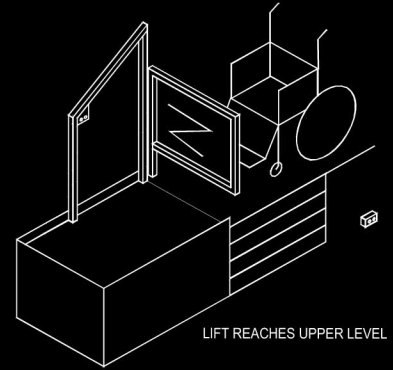
STAIRS IN USE  
GATE OPEN  
USER APPROACHES



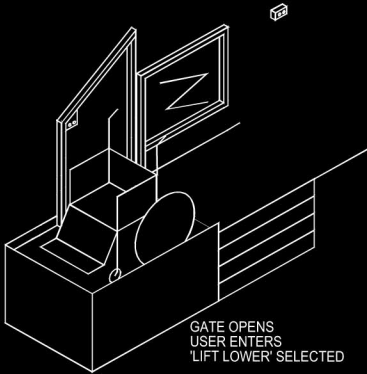
LIFT CALLED  
GATE CLOSES



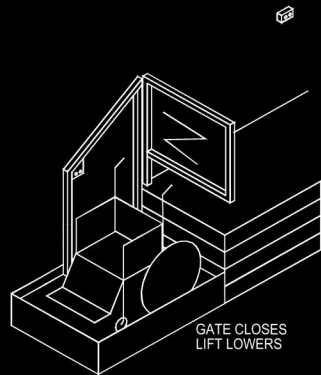
STAIRS RETRACT



LIFT REACHES UPPER LEVEL



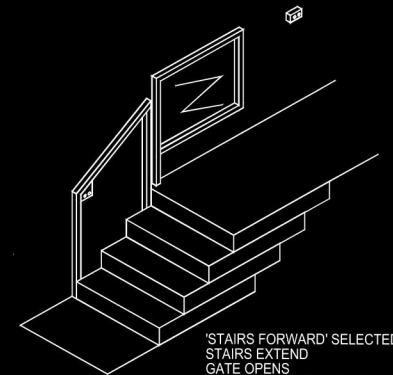
GATE OPENS  
USER ENTERS  
'LIFT LOWER' SELECTED



GATE CLOSES  
LIFT LOWERS

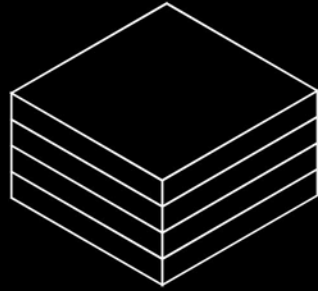
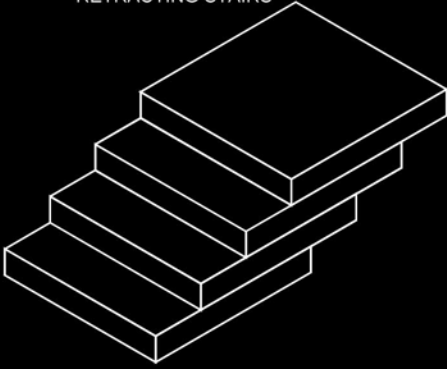


LIFT LOWERED  
WHEELSTOP LOWERS  
USER LEAVES

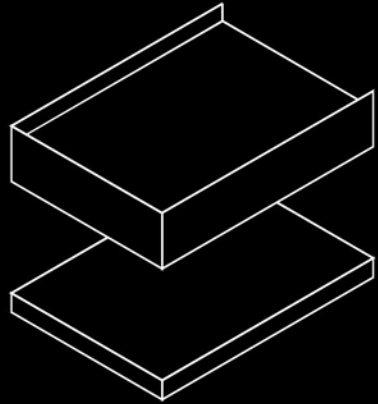
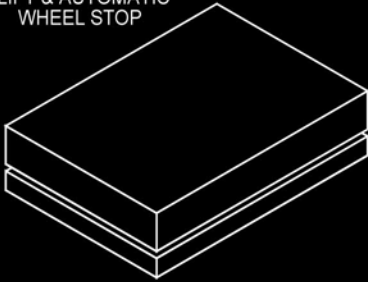


'STAIRS FORWARD' SELECTED  
STAIRS EXTEND  
GATE OPENS  
STAIRS READY FOR USE

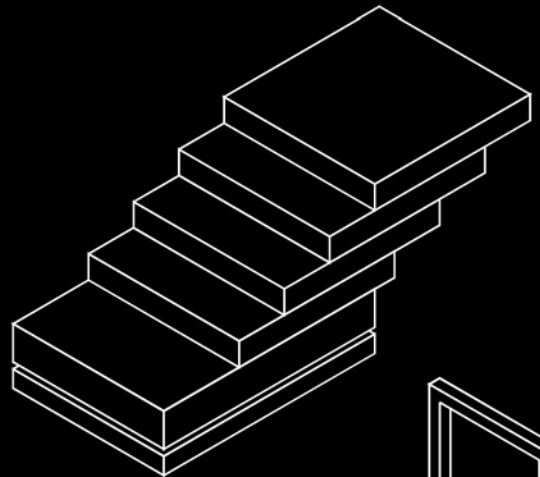
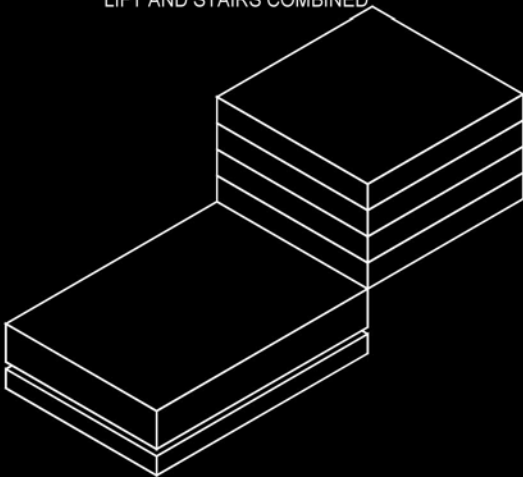
RETRACTING STAIRS



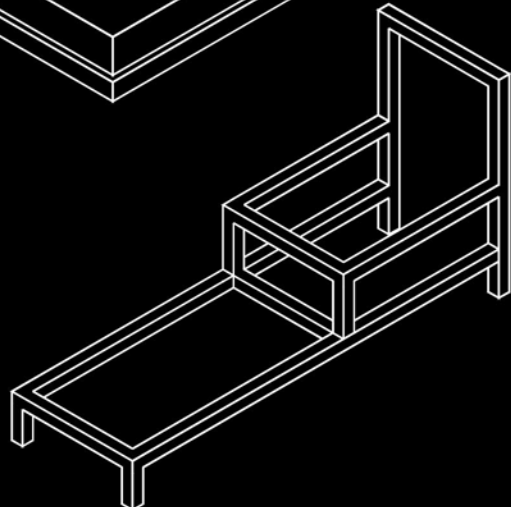
LIFT & AUTOMATIC  
WHEEL STOP

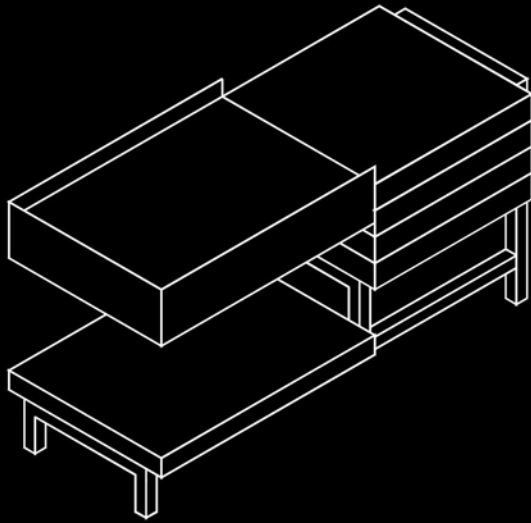
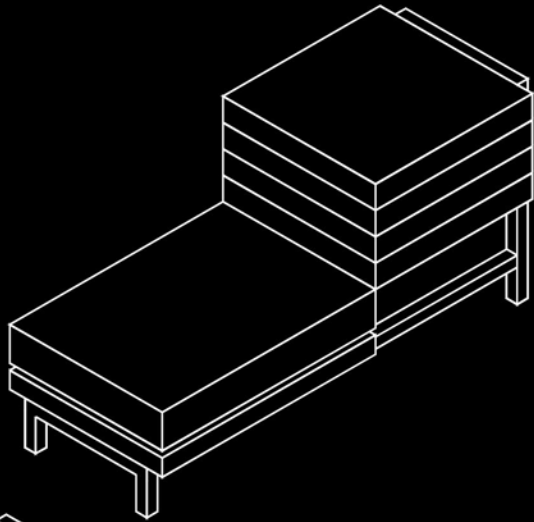
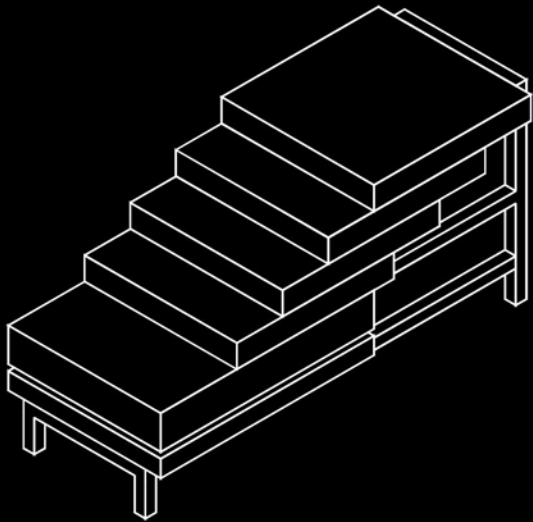


LIFT AND STAIRS COMBINED

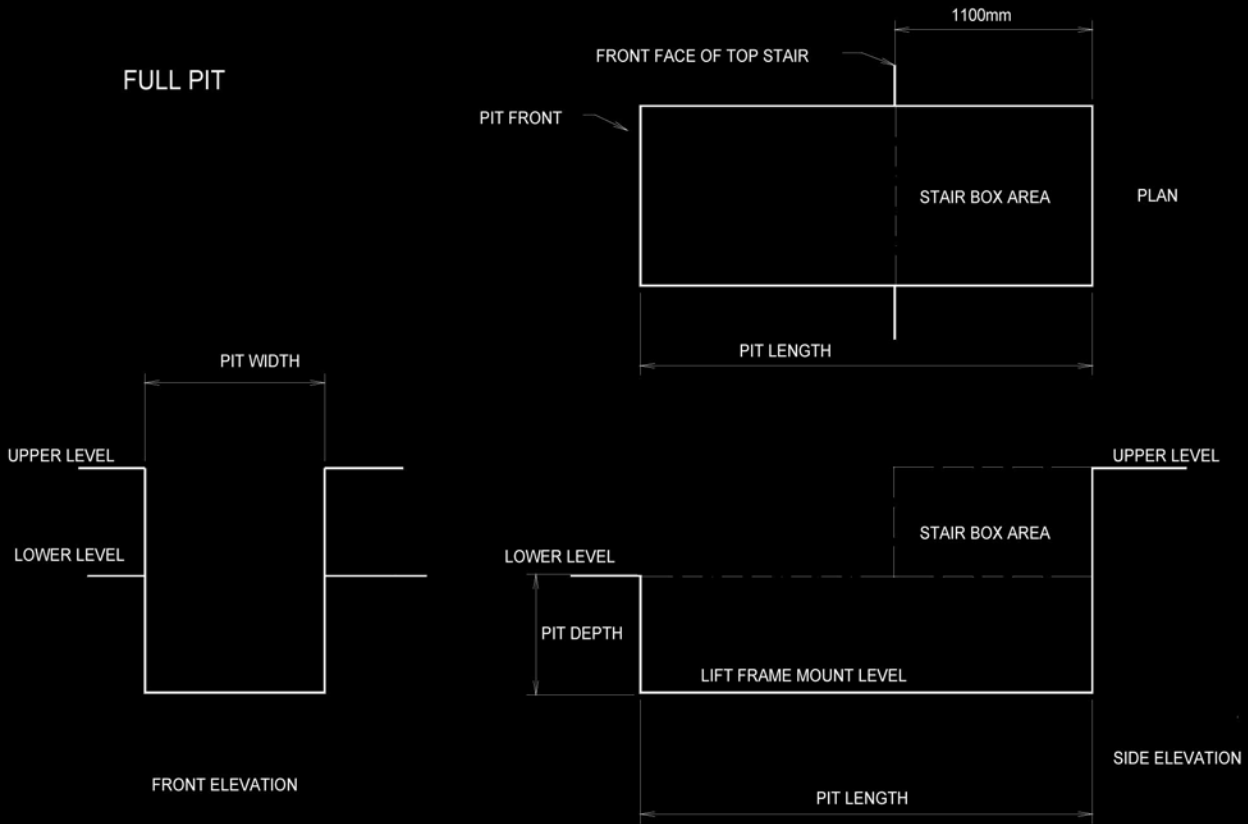


MOUNTING FRAME

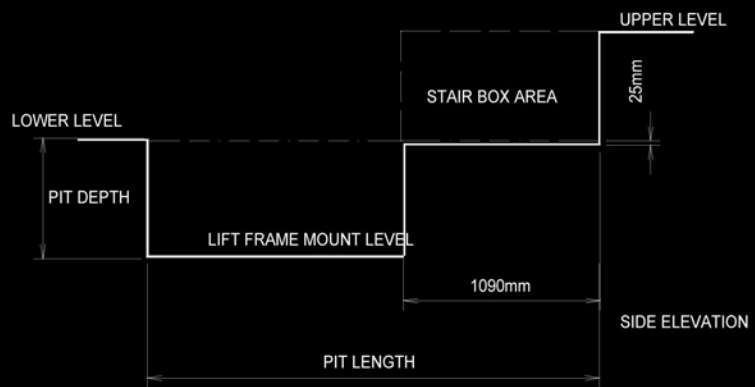




## FULL PIT



## STEPPED PIT



PIT LENGTH ( FOR ONE WHEELCHAIR USER ONLY) – 2370 MM
PIT LENGTH ( FOR ONE WHEELCHAIR USER AND AN ACCOMPANYING PERSON) – 2520 MM
PIT WIDTH – TO SUIT INSTALLATION – MINIMUM 900 MM -
PIT DEPTH (INSTALLATION WITH SOLID SCISSOR SURROUND) - RISE OF STAIRS PLUS 150 MM
PIT DEPTH (INSTALLATION WITH ROLLER SHUTTER SCISSOR SURROUND) – 250 to 380 MM
NOTE – FULL PIT DEPTH ONLY NECESSARY FROM PIT FRONT TO FRONT FACE OF TOP STAIR
MINIMUM PIT DEPTH BELOW STAIR BOX AREA -20 MM