

KATT² MODULAR LADDERS

INSTALLATION MANUAL

⚠ MUST BE READ AND UNDERSTOOD PRIOR TO INSTALLATION



PROTECTING LIFE BY PROVIDING PERMANENT
SAFE ACCESS SYSTEMS

KATT
SAFETY
PART OF MODSAFE

KATT2® LADDERS

KATT Safety leads the industry in the design, installation and management of access & fall protection safety systems.

The In-Action model demonstrates access & fall protection requirements for a commercial building design.

KATT Safety recommendations fulfill current workplace requirements for the safety of building maintenance subcontractors, employees and the general public.

1 **KATTCLIMB®**
Modular Fixed Access Ladders

2 **KATTGUARD®**
Modular Guardrail systems

3 **KATTWALK®**
Modular Walkway systems

4 **KOMBI®**
Modular Stair & Platform systems



KATT2®
Modular Ladders



KATT 2 OVERVIEW



KATT WEBSITE

For more information, please contact
KATT Safety directly.

IT'S THE **KATT** WAY

KATT2 MODULAR LADDERS ARE A LIGHT WEIGHT HIGH STRENGTH ACCESS SOLUTION DESIGNED TO BE CUSTOMISED ON SITE TO SUIT PROJECT SPECIFIC REQUIREMENTS

FEATURES & BENEFITS



FRONT AND REAR T-SLOT SYSTEM ON LADDER STILE

Eliminating cage and bracket interference providing unlimited adjustability



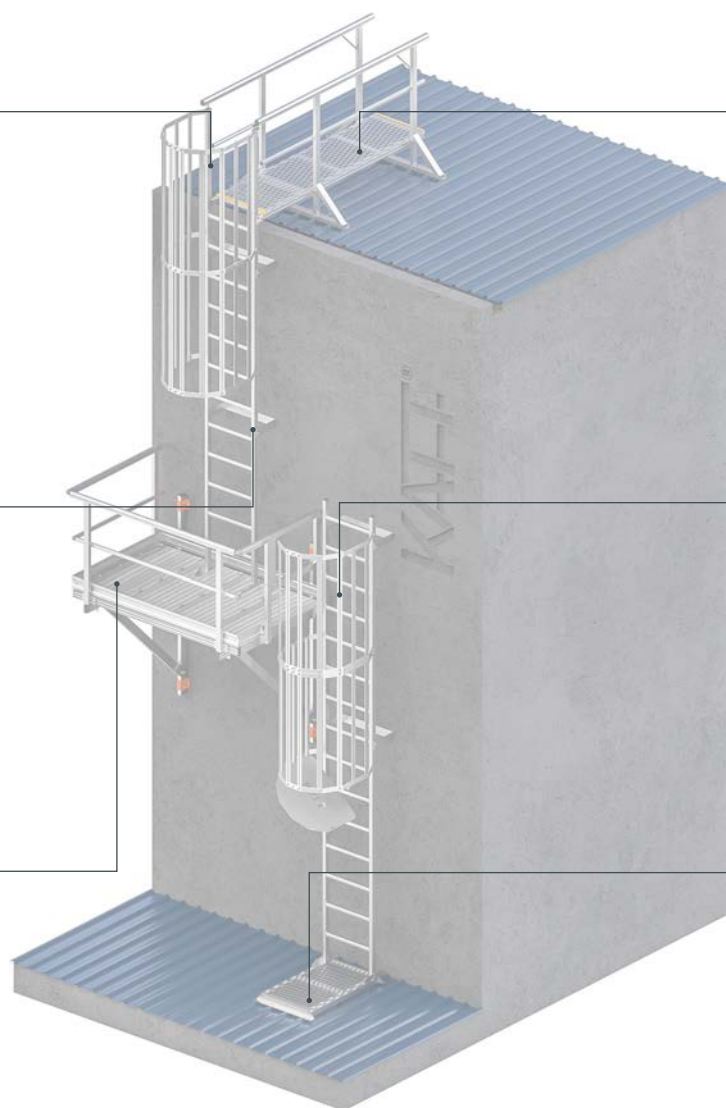
KATT T-BOLT

M10 T-Bolt fastener providing rapid installation to minimise any drilling required



MODULAR LANDING

Supplied with BS EN 516:2006 compliant mini mesh with ability to mount to concrete or metal cladding



ADJUSTABLE HEIGHT ACCESS PLATFORM

For simple leveling and top rung compliance



MODULAR CAGE

Adjustable cage length with T-Bolt attachment to ladder



LADDER SUPPORT LANDING

Prefabricated unit for simple installation

UNIQUE
PRODUCT FEATURE

KATT[®]

STILE EXTRUSION WITH T-SLOT CONNECTION

The unique KATT2 T-Bolt connection system means almost no drilling required whilst allowing unlimited on-site flexibility of ladder accessory placement for easy assembly and compliance.

PATENTS AND DESIGN REGISTRATIONS APPLY



KATT2 ACCESS LADDER COMPONENTS

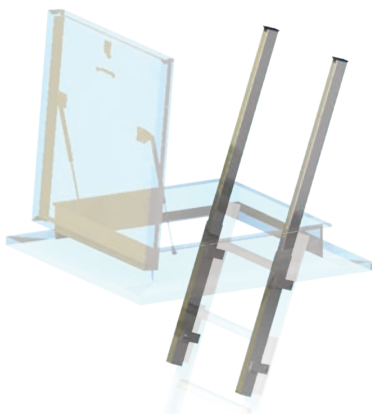
RL405 STANDARD LADDER HEAD



RL406 VERTICAL LINE LADDER HEAD



RL407 RETRACTABLE STILE SET



RL410 LADDER BODY



RL411 LADDER BODY



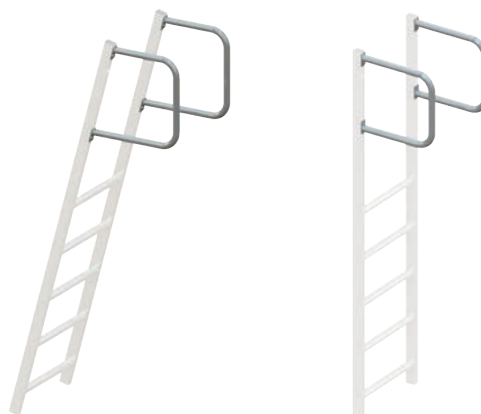
RL413 LADDER STILE STRENGTHENING SET



RL414 TELESCOPIC GUARDRAIL SET



RL415A/V ANGLED/VERTICAL GRABRAIL SET - 90°

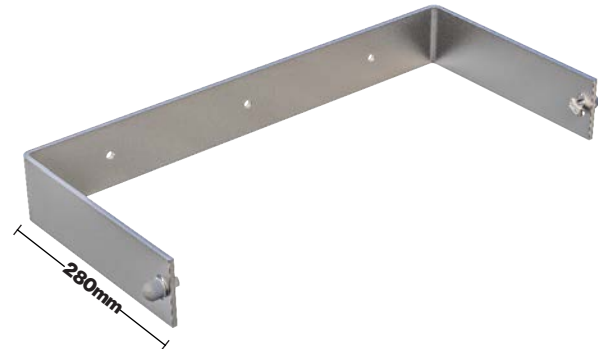


KATT2 ACCESS LADDER COMPONENTS

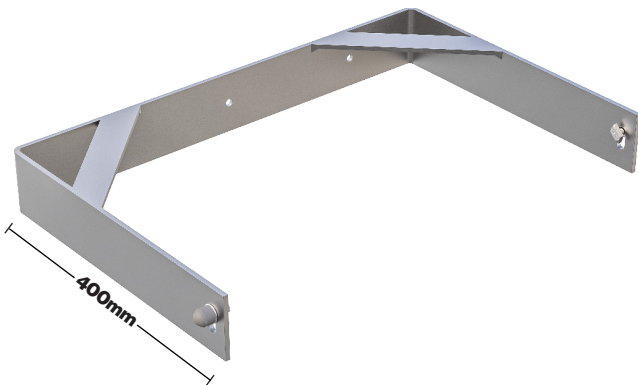
RL419S LADDER BASE SUPPORT ANGLE SET



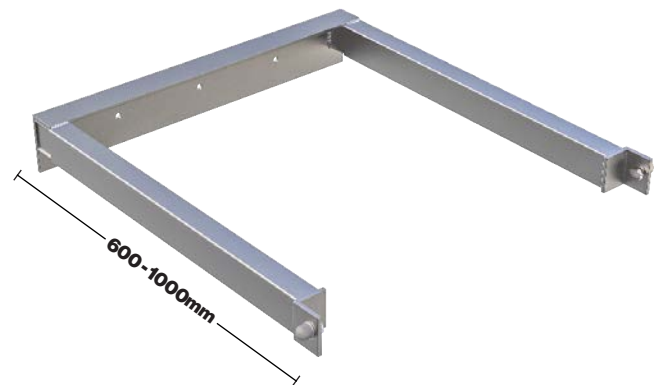
RL421.280 STANDARD FIXING BRACKET



RL421.400 GUSSETED FIXING BRACKET



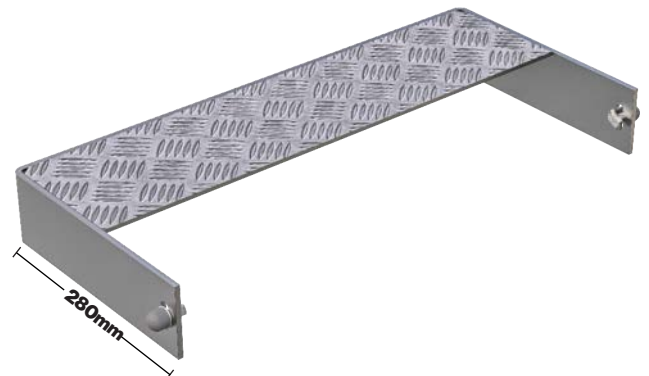
RL421.600 ADJUSTABLE FIXING BRACKET



RL421S.280 SUSPENDED FIXING BRACKET



RL421L.280 LANDING FIXING BRACKET FOR TOP RUNG



RL424 MODULAR CAGE LADDER

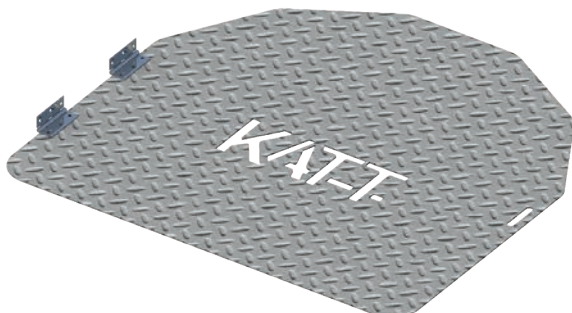


RL426 LADDER DOOR



KATT2 ACCESS LADDER COMPONENTS

RL425 LADDER CAGE GATE



RL429M INTERMEDIATE LANDING PLATFORM



RL430 FIXED INTERMEDIATE REST PLATFORM



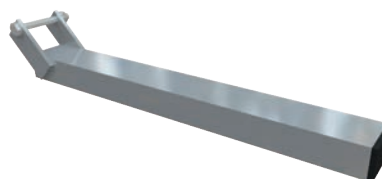
RL432A.2400 ADJUSTABLE LADDER HEAD ACCESS KIT



RL431A.1000 1.0m ADJUSTABLE LANDING KIT



RL436 LADDER HEAD SAFETY BAR



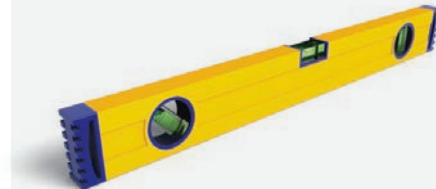
RL435.1000 PARAPET PLATFORM



TOOLS & EQUIPMENT



CORDLESS DRILL



SPIRIT LEVEL



5/16 NUT SETTER



**DROP SAW (POWERED UNIT)
CUT OFF SAW**



PITCH METER



MARKING PEN



TAPE MEASURE

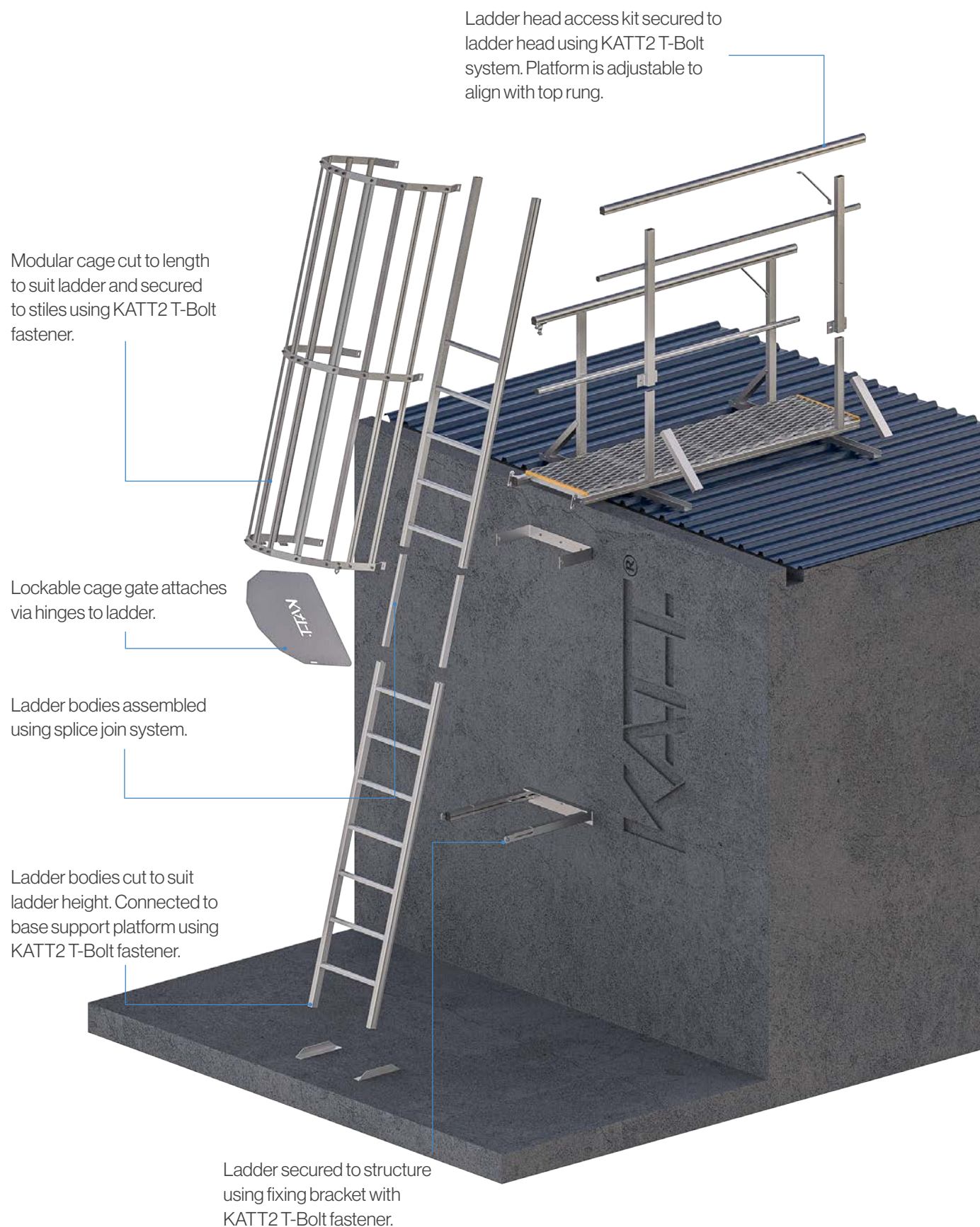


13mm & 15mm SOCKET AND WRENCH

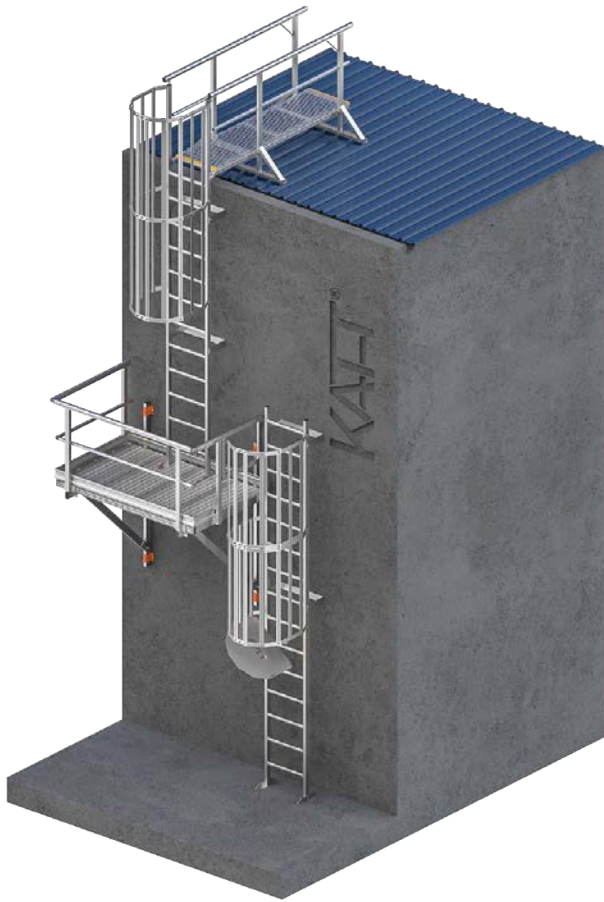


IMPACT WRENCH

KATT2 LADDER BODY ASSEMBLY



KATT2 GENERAL INSTALL SPECIFICATIONS



MAXIMUM LADDER HEIGHTS

- There is no restriction on the maximum height of the KATT2 Ladder Systems.
- It is important that the maximum vertical distance between landing platforms does not exceed 6.0m.
- When ladders are mounted externally, it is important to ensure the required wind loadings are taken into account.

FIXING BRACKET POSITIONING

- KATT2 support fixing brackets must be spaced at no greater than 3.0m on a vertical or angled ladder.
- Any distance greater than 3.0m between brackets, the KATT2 RL413 stile strengthener must be used.



LADDER FIXING TO STRUCTURE

- Any structure supporting a KATT2 Ladder must be able to support 200kg per fixing bracket.
- [See fixing recommendation enclosed.](#)

KATT2 GENERAL INSTALL SPECIFICATIONS



LADDER COMPONENTS ASSEMBLY AND FIXING

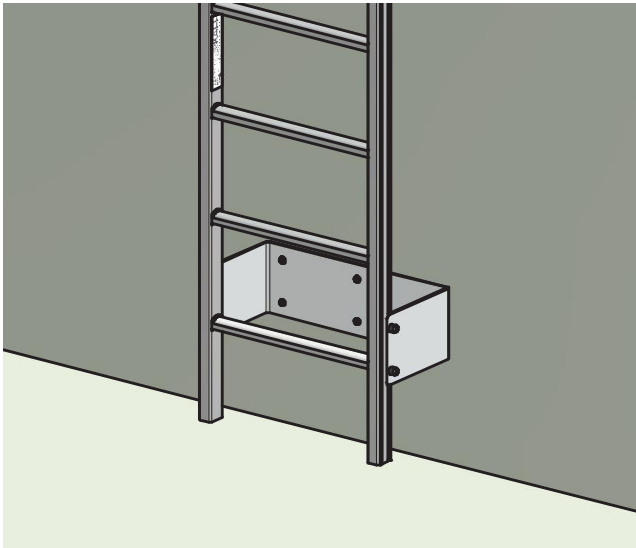
- The KATT2 Ladder is designed to be assembled and secured using the KATT2 M10 T-Bolt fastener. This includes:
 - Ladder body to fixing bracket
 - Ladder head access kit to ladder body
 - Ladder cage to ladder body
 - Midway rest platform to ladder body
- The KATT2 Ladder body is assembled using the 600mm splice join inserted 300mm into each section. The splice join is secured using 20mm 12 gauge Tek Screw.



STILE STRENGTHENING SYSTEM

- The RL413 stile strengthener must be installed where the ladder fixing bracket spacing exceeds 3.0m (measured vertically).
- The stile strengthener is attached using the KATT2 T-Bolt system.

KATT2 GENERAL INSTALL SPECIFICATIONS



SUSPENDED LADDER LIMITATIONS

- The KATT2 Ladder System can be used in suspended applications using the RL421S suspension bracket.
- A suspended ladder is not suitable to be used with a fall arrest device unless specifically designed and fabricated to do so.
- Connection to the support structure is of critical importance due to increased load on structure.



LADDER FALL ARREST SYSTEM

- The KATT2 Fall Arrest System is designed to be used with the ARRESTA Shuttle using an 8mm stainless steel cable & energy absorber attached to the fall arrest anchorage on the ladder head.
- A swaged forked end terminal onto the cable ensures a fail safe simple attachment to the ladder.



LADDER CAGE SYSTEM

- The KATT2 Modular Cage is designed to be cut to length and assembled on-site.
- The ladder cage base height must be positioned between 2.0m - 2.2m measured vertically from where the cage attaches to the ladder.
- The cage straps are attached to the hoops using an M8 x 20mm bolt locked into a T-slot in the strap.
- The completed cage attaches to the ladder using the KATT2 T-Bolt fastener.

RL421KATT2 LADDER FIXING BRACKET ASSEMBLY

The KATT2 Fixing Bracket is designed to provide a secure attachment for the fixed KATT2 Ladder System. Fixing brackets must be spaced at 3000mm maximum between consecutive brackets. KATT2 has a range of different brackets depending on the ladder configuration and installation requirements.

TECHNICAL DETAILS

- 1. Fixing Bracket loading – 200kg per bracket at 3.0m max. (excluding suspended ladders)
- 2. Suspended Ladder Brackets (LD421.2805) – 400kg per bracket at 2.8m max.
- 3. Suspended Ladder Brackets for vertical ladder with fall arrest system – Min 4 brackets or 2.4m max spacing

STRUCTURE TYPE	FASTENER TYPE
Metal purlin min 1.5mm BMT	<ul style="list-style-type: none">- Qty 2 x M10 Stainless steel bolt set- Qty 2 x M8 Toggle bolts- Qty 3 x 14G Tek Screw (purlin 1.0mm min BMT)
Concrete panel 25MPA min	<ul style="list-style-type: none">- Qty 2 x 12mm x 100 Tru bolt- Qty 2 x 10mm x 100 Screw bolt
Brick/block work	<ul style="list-style-type: none">- Qty 2 x 10mm Chemical Anchors

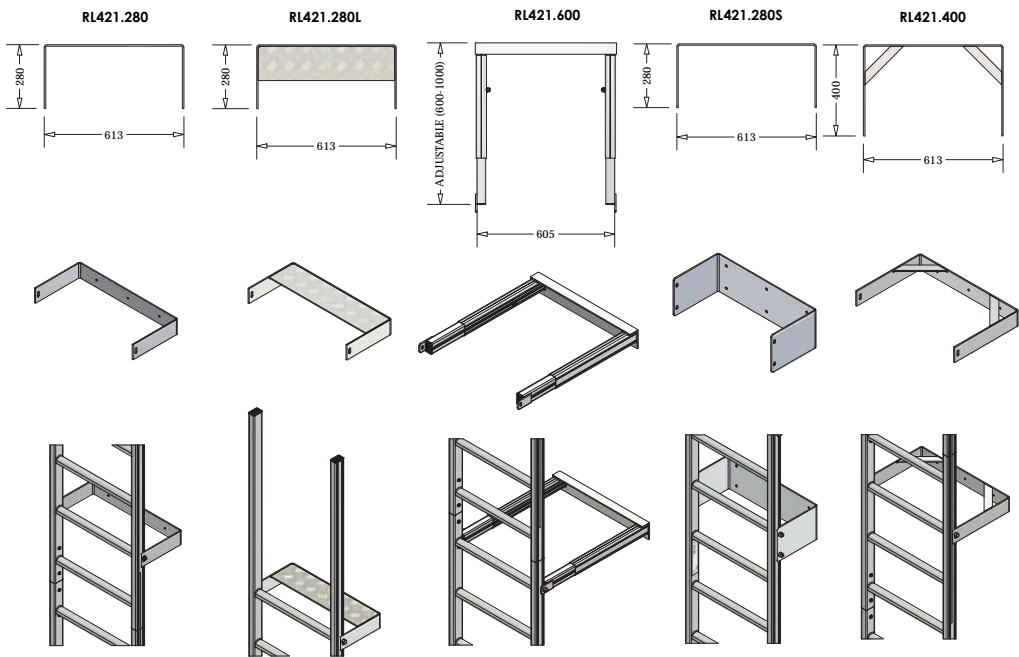


VIEW INSTALL ANIMATION

SPECIAL NOTES

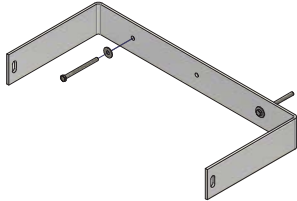
- 1. Maximum Fixing Bracket spacing must not exceed 3000mm suitable for both caged and fall arrest system ladders.
- 2. Where bracket spacing is required to be greater than 3000mm, the RL413 Ladder Stile Strengthening Kit is required.
- 3. Brackets attached to brick or blockwork must be certified for reaction load suitability by structural engineer.
- 4. Suspended caged ladders require a minimum of 2 x LD421 Fixing Brackets per 6.0m ladder. A suspended ladder with fall arrest system requires a minimum 4 x LD421 Fixing Brackets per 6.0m ladder or 2.4m spacing max.

LADDER FIXING BRACKET DETAIL - D9765



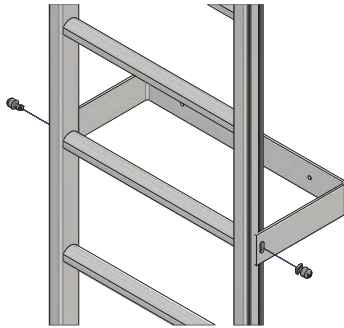
RL421KATT2 LADDER FIXING BRACKET ASSEMBLY

280mm FIXING BRACKET INSTALLATION - D9830



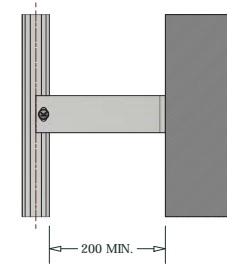
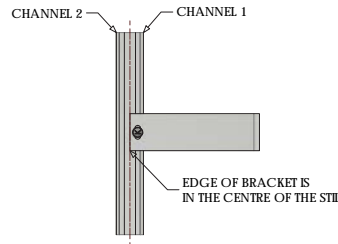
RL421 - LADDER FIXING DETAILS

FIX BRACKET TO SUPPORT STRUCTURE
WITH FIXINGS SPECIFIED BELOW



RL421.280 - STANDARD FIXING BRACKET

LINE UP THE SLOT WITH THE FIRST CHANNEL
OF THE LADDER AND THEN USE KB005 T-BOLT
TO SECURE INTO LADDER.
NOTE: EDGE OF BRACKET SHOULD BE IN THE
MIDDLE BETWEEN BOTH CHANNELS



FIXING REQUIREMENTS

Steel Purlin

- Qty 2 x M10 S/S Bolts OR
- Qty 2 x M8 Toggle Bolts OR
- Qty 3 x 14G Tek Screws (1.9mm min purlin thickness)

Steel Structure

- As above

Concrete (Min 25MPa)

- Qty 2 x 10mm x 100 Tru-bolt OR
- Qty 2 x 8mm x 100 Screw Bolt

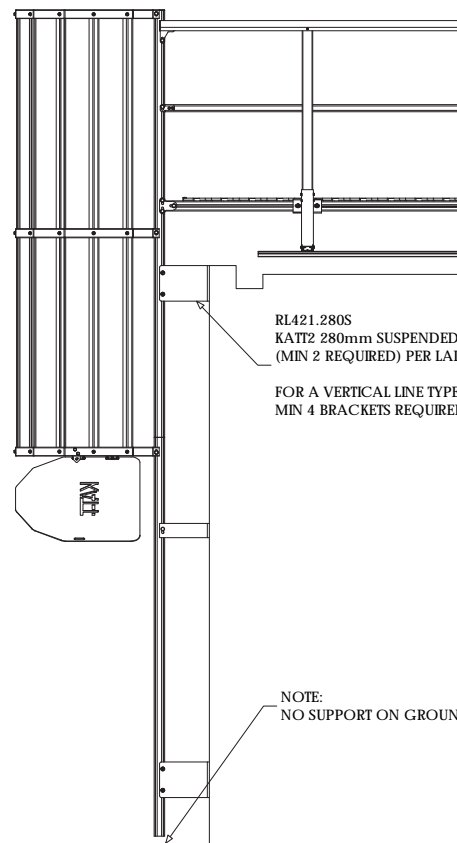
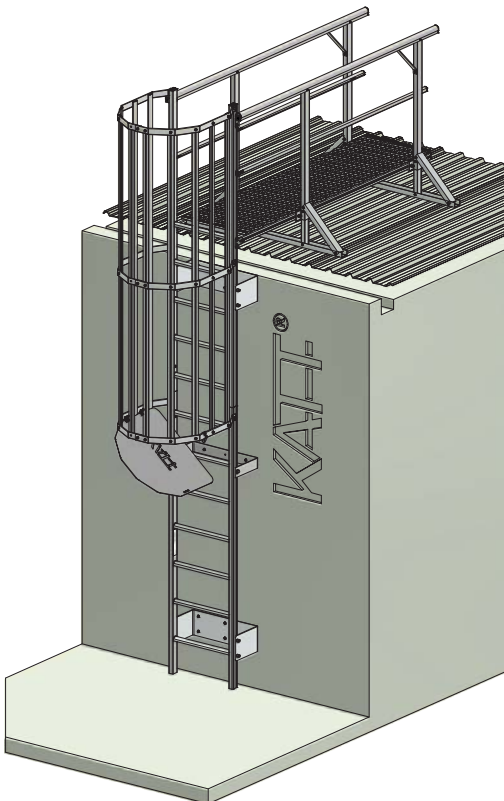
Brick (Must be structurally sound)

- Qty 2 x 10 x 100 Screw Bolt

Composite Panel

- Qty 2 x 10mm Through Bolt with Spreader Plate on rear OR
- Qty 2 x M8 Toggle Bolts
- (Also seek advice from panel manufacturer)

SUSPENDED LADDER DETAILS - D9799



RL421.280S
KATT2 280mm SUSPENDED FIXING BRACKET
(MIN 2 REQUIRED) PER LADDER - MAX 6000mm

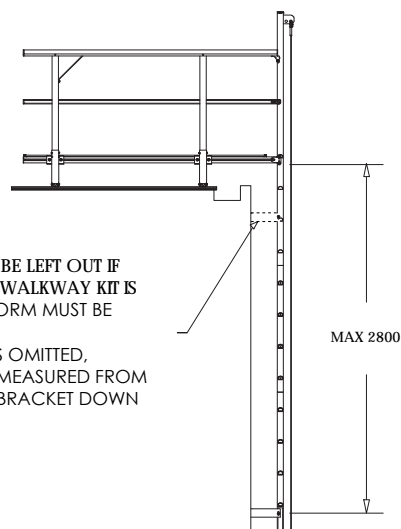
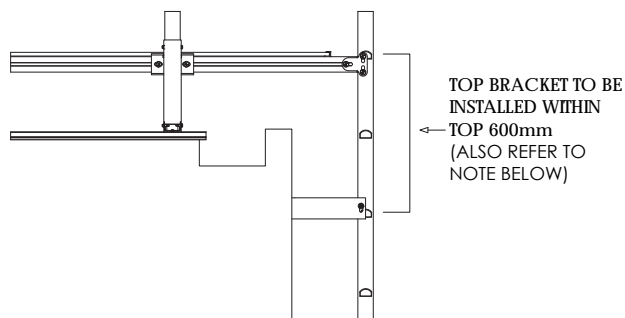
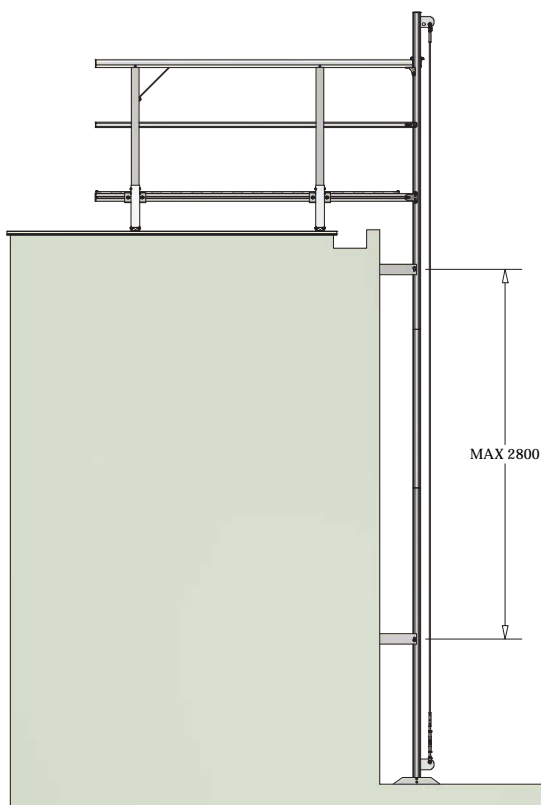
FOR A VERTICAL LINE TYPE LADDER -
MIN 4 BRACKETS REQUIRED OR 2400 mm APART

NOTE:
NO SUPPORT ON GROUND

RL421KATT2 LADDER FIXING BRACKET ASSEMBLY

FIXING BRACKETS POSITIONING - D9585

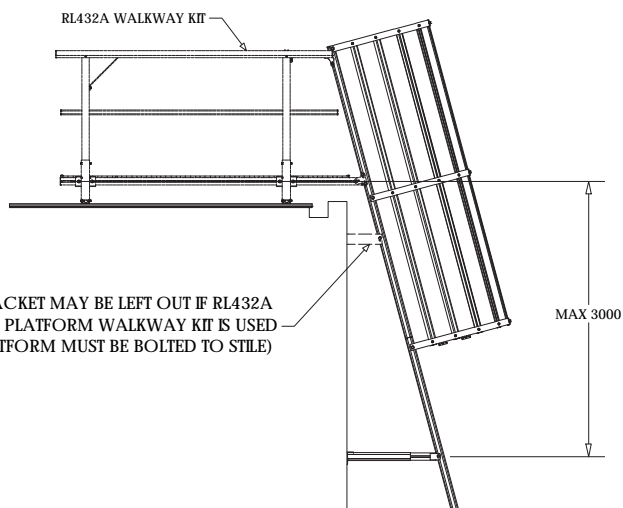
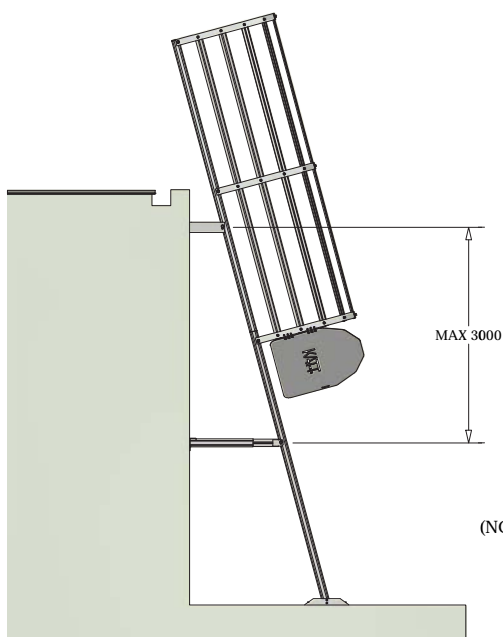
NOTE: TOP LANDING DETAILS NOT SHOWN FOR CLARITY



TOP BRACKET MAY BE LEFT OUT IF RL432A PLATFORM WALKWAY KIT IS USED. NOTE: PLATFORM MUST BE BOLTED TO STILE.
NOTE: IF BRACKET IS OMITTED, SPACING MUST BE MEASURED FROM LANDING TO NEXT BRACKET DOWN

NOTE: FOR VERTICAL LINE LADDERS
SPACING OF BRACKETS - MAX 2.8m APART

FIXING BRACKETS SPACING - D9791



TOP BRACKET MAY BE LEFT OUT IF RL432A PLATFORM WALKWAY KIT IS USED (NOTE: PLATFORM MUST BE BOLTED TO STILE)

RL413 KATT2 LADDER STILE STRENGTHENER ASSEMBLY

The KATT2 Ladder Stile Strengthening Kit is designed for ladders that are not able to achieve a maximum of 3000mm spacing between fixing brackets such as glass facades or other non-load bearing surfaces. The KATT2 Stile Strengthening Kit can be joined together where required for higher ladders up to 6.0m.

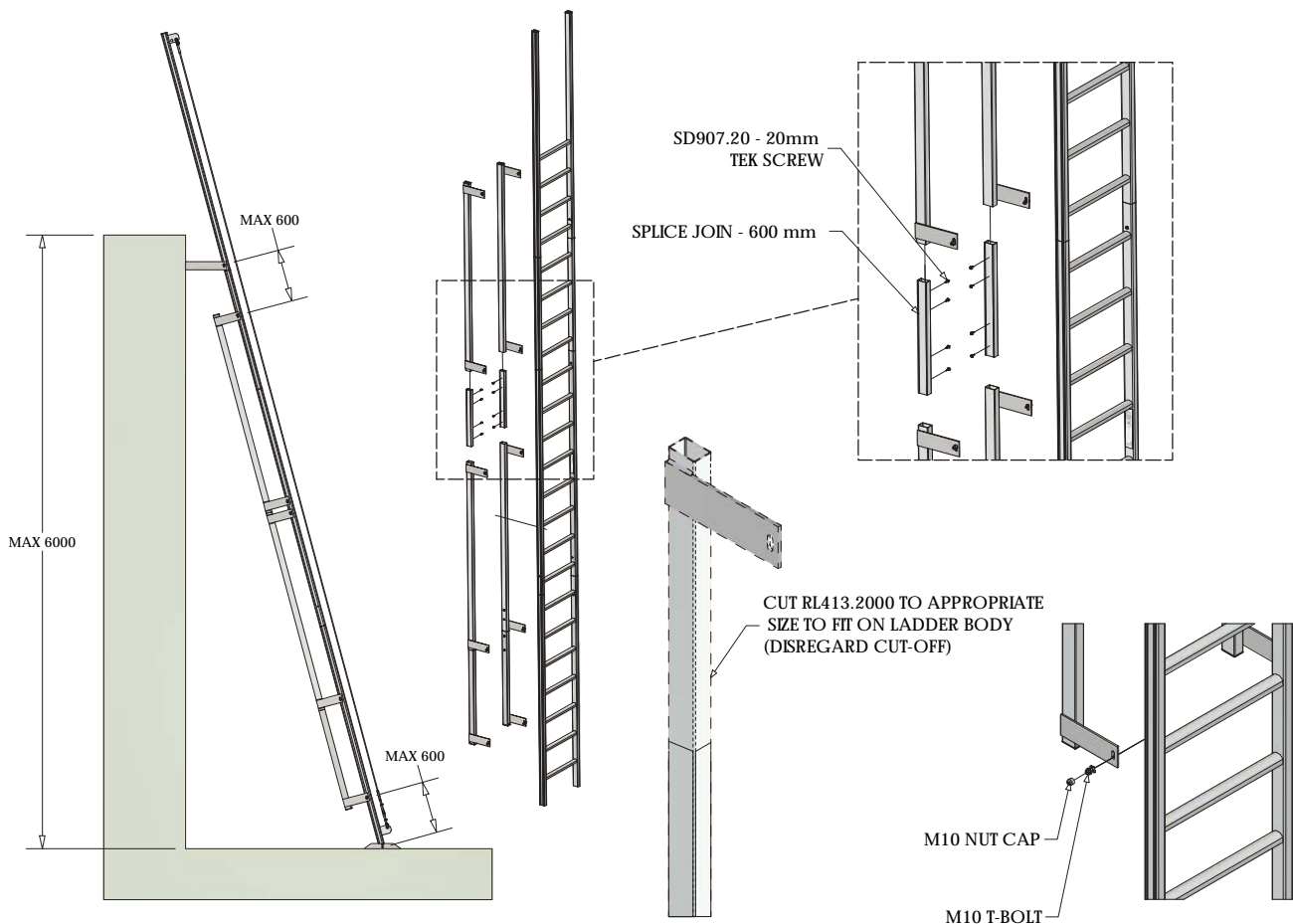
TECHNICAL DETAILS

1. Maximum length of stile strengthener - 6.0m (3 x 2.0m sections joined using splice system with 4 x Tek Screws per join).

INSTALLATION PROCEDURE

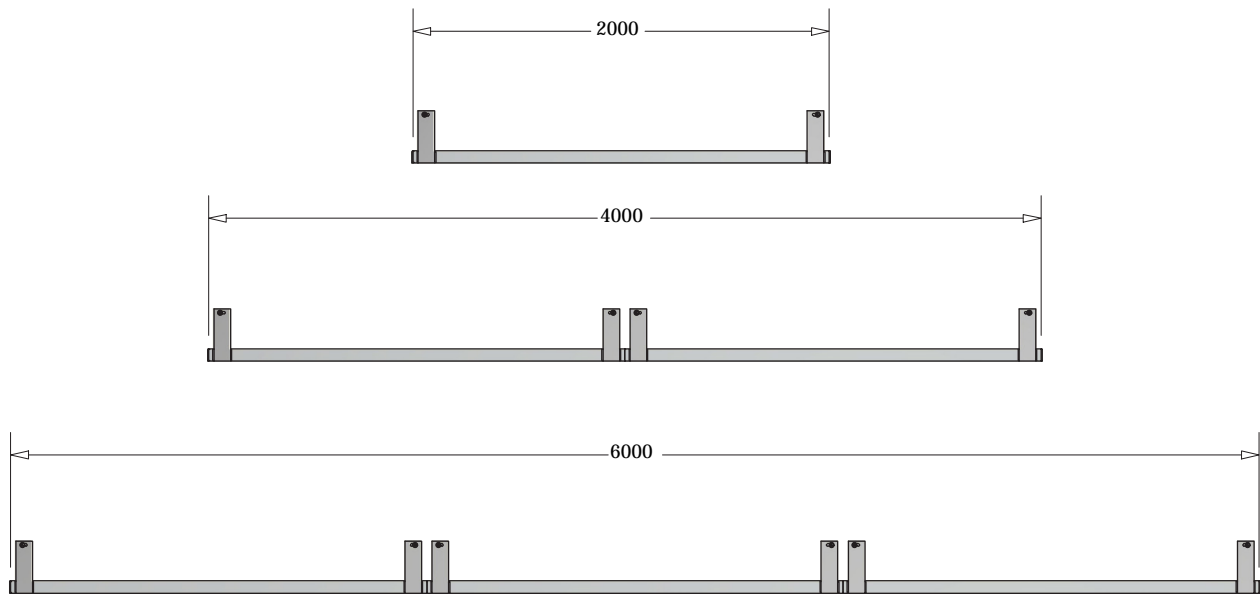


VIEW INSTALL
ANIMATION



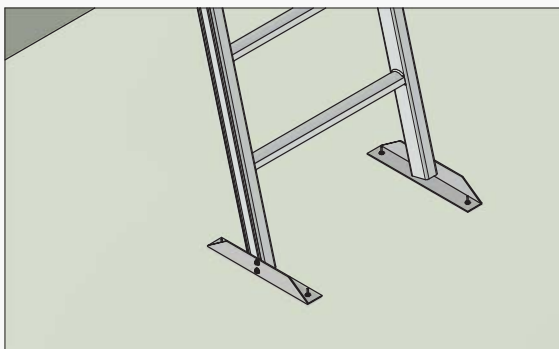
RL413 KATT2 LADDER STILE STRENGTHENER ASSEMBLY

LADDER STILE STRENGTHENER FIXING DETAILS - D9588



RL413.4000 (2000mm, 4000mm
AND 6000mm STILE STRENGTHENERS
WHICH CAN BE CUT TO SIZE TO SUIT
APPLICATION)

RL419S KATT2 LADDER BASE SUPPORT ASSEMBLY



RL419S - LADDER BASE SUPPORT ANGLE SET:

For concrete mount, fix the angles into the concrete.

The fixings can be 6mm or 8mm wedge anchors or similar (do not use Nylon 'knock-in' fixings).

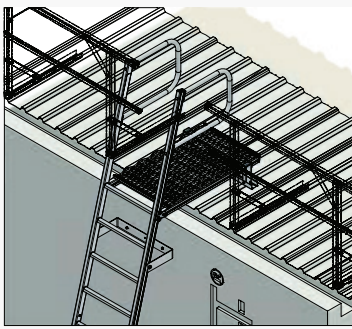
The base angles must not impede the foot area of the ladder.

RL432A.1000 KATT2 LADDER HEAD ACCESS KIT OPTIONS

The KATT2 Ladder Head Access Kit is designed to provide a safe means of access and egress at the top of the ladder. There are several options of ladder type that can be connected to the ladder head kit including angled or vertical ladders either fitted with cage or fall arrest line system. This landing is adjustable in height to assist with top rung alignment.

LADDER HEAD ACCESS KIT RANGE - D9769

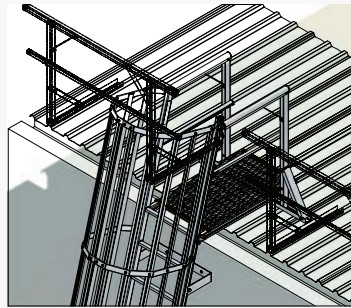
1



1M LANDING WITH GRABRAILS: (REQUIRES 2m Guardrails each side)

- RL431A.1000 - 1.0m ADJUSTABLE LANDING KIT
- RL415A/V - GRABRAIL SET (ANGLED OR VERTICAL)

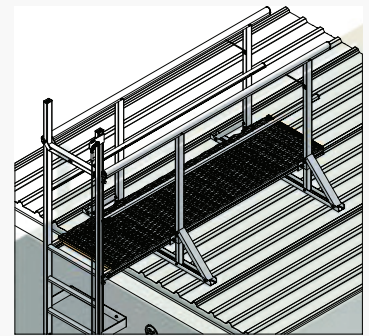
2



1M LANDING WITH FIXED GUARDRAILS:

- RL432A.1000 - 1.0m ADJUSTABLE LADDER HEAD ACCESS KIT
- CONNECTION BRACKETS

3



2.4M/3M LANDING KIT WITH FIXED GUARDRAILS:

- RL432A.2400/3000 - 2400/3000mm ADJUSTABLE LADDER HEAD ACCESS KIT
- CONNECTION BRACKETS

TECHNICAL DETAILS

1. Platform design load: 2.5 kPa.
2. Min. 1 roof batten and post support for 1.0m platform and 2 roof battens and post supports for 2.4m and 3.0m platform.



VIEW INSTALL
ANIMATION

SPECIAL NOTES

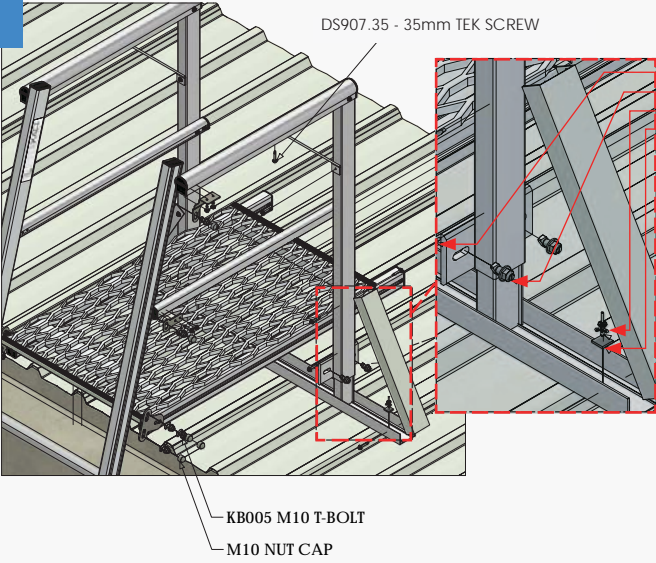
1. Platform must be set level with top rung of ladder.
2. Maximum platform height above roof deck is 300mm or up to 450mm if an intermediate step is provided.
3. Platform must be within 3 degrees off level in all directions.
4. Any penetration through roof deck must be sealed using EPDM provided.

RL432A.1000 KATT2 LADDER HEAD ACCESS KIT ASSEMBLY

INSTALLATION PROCEDURE

RL432A.1000 1.0m ADJUSTABLE LANDING - D9582

1



DS907.35 - 35mm TEK SCREW

KB005 M10 T-BOLT

M10 NUT CAP

SD907.20 - 20mm TEK SCREW

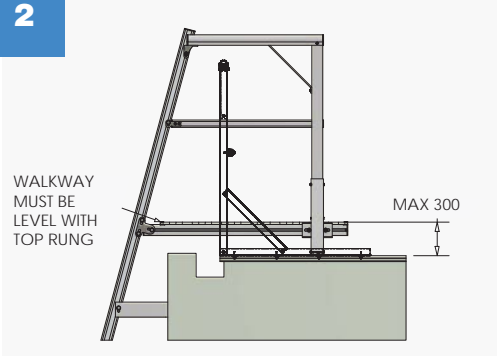
KB005 - M10 T-BOLT

SD913 - 6mm BULB-TYPE RIVET

SD902 - EPDM FOAM SEAL

ASSEMBLY DIAGRAM:

2



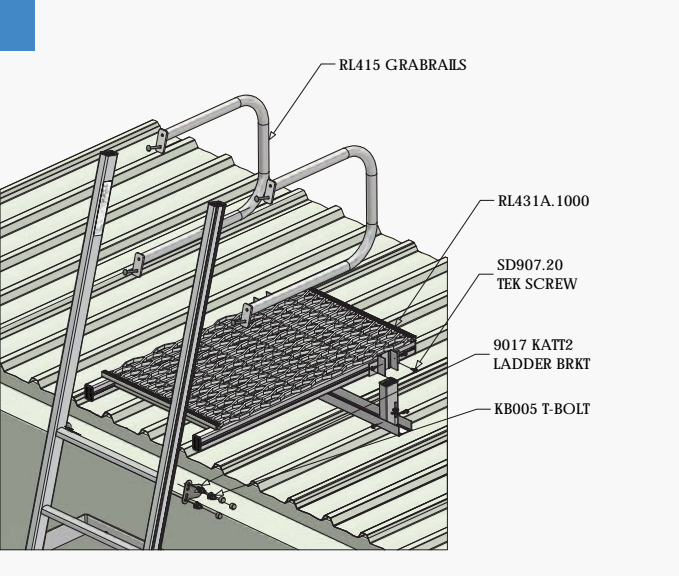
WALKWAY MUST BE LEVEL WITH TOP RUNG

MAX 300

COMPLETED:

RL432A.1000 1.0m TOP LANDING - D9767

1



RL415 GRABRAILS

RL431A.1000

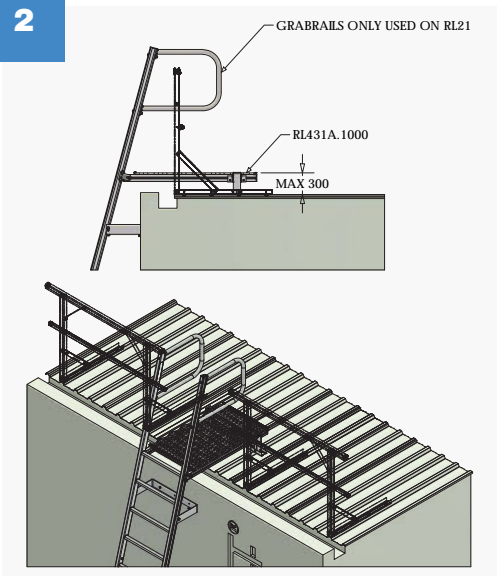
SD907.20 TEK SCREW

9017 KATT2 LADDER BRKT

KB005 T-BOLT

ASSEMBLY DIAGRAM:

2



GRABRAILS ONLY USED ON RL21

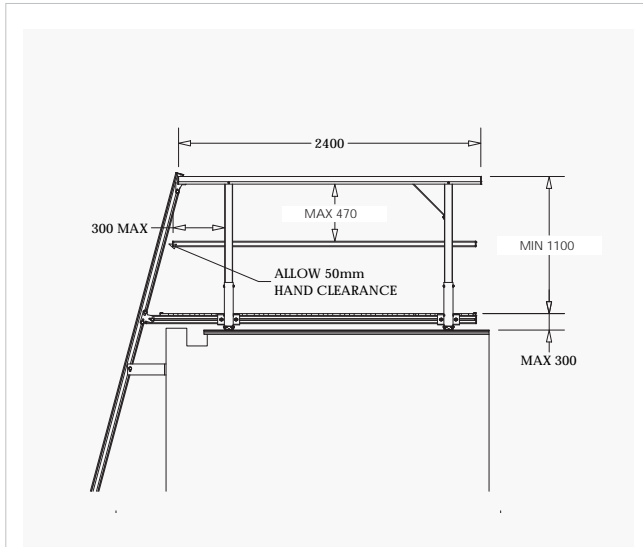
RL431A.1000

MAX 300

COMPLETED:

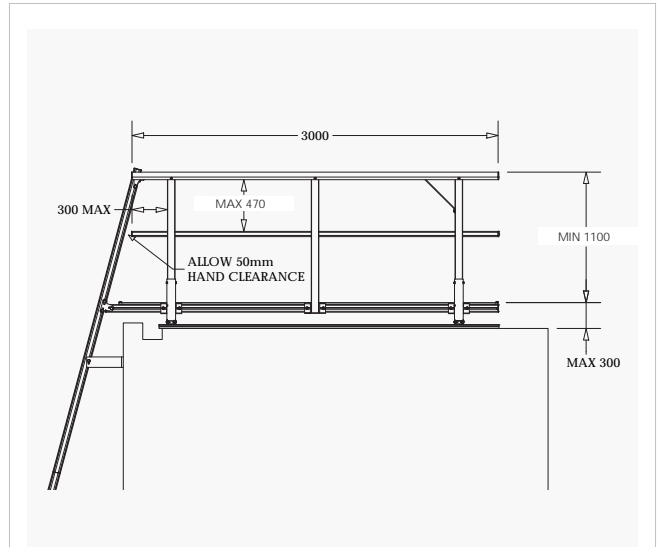
RL432A.2400 / 3000 KATT2 LADDER HEAD ACCESS KIT ASSEMBLY

RL432A.2400/3000 LADDER HEAD ACCESS KIT ADJUSTABLE - DIMENSIONS



2400MM LADDER HEAD:

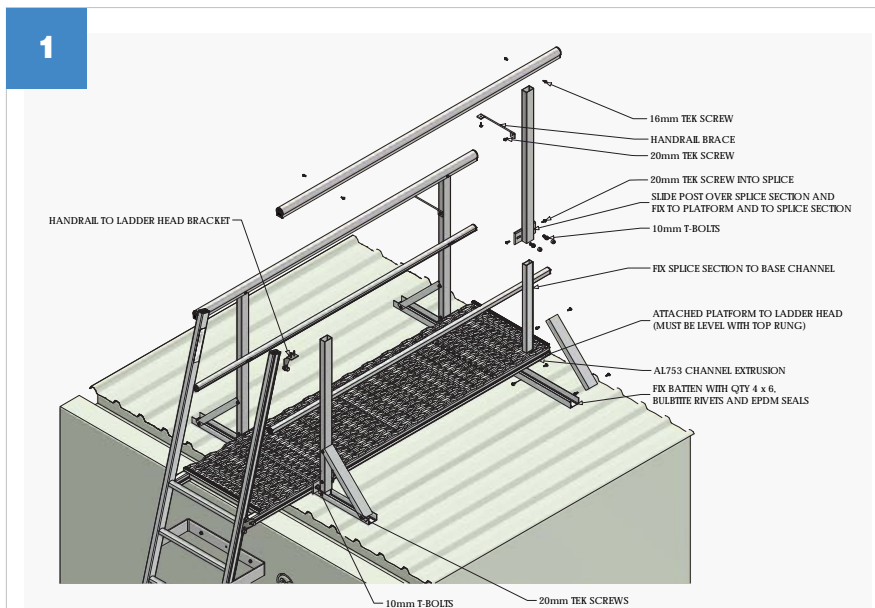
DIMENSIONS FOR 2400MM LADDER HEAD ACCESS KIT



3000MM LADDER HEAD:

DIMENSIONS FOR 3000MM LADDER HEAD ACCESS KIT

RL432A.2400/3000 LADDER HEAD ACCESS KIT ADJUSTABLE - ASSEMBLY



ASSEMBLY DIAGRAM:

LEARN STEP BY STEP PROCESS BY VIEWING THE LADDER HEAD ACCESS KIT ADJUSTABLE GUIDE. →



COMPLETED:

THIS IS THE FINISHED LOOK OF THE LADDER HEAD ACCESS KIT ADJUSTABLE ONCE ASSEMBLED.

RL417 KATT2 LADDER SPLICE ASSEMBLY

The KATT2 Splice Join is the primary connection system between consecutive ladder bodies. It is placed at an equal distance into both adjoining sections and then fixed using Tek Screws.

TECHNICAL DETAILS

1. 600mm long aluminium splice with min 300 lap on each side of stiles.
2. QTY 4 x 20mm screws required for securing each stile splice in ladder.

INSTALLATION PROCEDURE



VIEW INSTALL
ANIMATION

SPECIAL NOTES

1. Important splice join has a minimum insert length into the adjoining section of no less than 250mm.
2. To assist alignment of splice join, it's important to fix off with 1 x Tek Screw only until the secondary ladder section has been connected. The remaining screws can then be inserted.

RL417 LADDER SPLICE JOINING DETAILS - D9790

1

LD417 - SPLICE JOIN - 600mm

SD907.20 - TEK SCREW 12-14 x 20 mm.

STEP 1:

INSERT SPLICE 300mm INTO STILES OF LADDER. FIX WITH 1-TEK SCREW.

2

STEP 2:

SLIDE LADDER BODY ONTO SPLICE JOINTS.

3

STEP 3:

SLIDE LADDER BODY ONTO SPLICE JOINTS.

RL424 KATT2 LADDER CAGE ASSEMBLY

The KATT2 Ladder Cage is designed to provide a fall protection system for angled or vertical ladders. The modular design allows on site build to suite exact ladder requirements. The cage is assembled using a cup bolt with T-slot for easy assembly.

LADDER CAGE RANGE



TECHNICAL DETAILS

1. RL424.1000 Cage weight 1000mm – 11 kg
2. RL424.2000 Cage weight 2000mm – 20 kg
3. RL424.3000 Cage weight 3000mm – 27 kg
4. RL424.4000 Cage weight 4000mm – 36 kg
5. RL424.5000 Cage weight 4000mm – 43 kg

INSTALLATION PROCEDURE



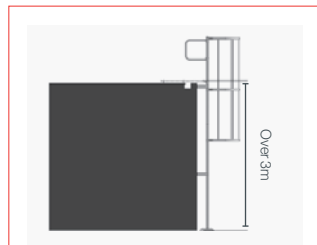
VIEW INSTALL
ANIMATION

SPECIAL NOTES

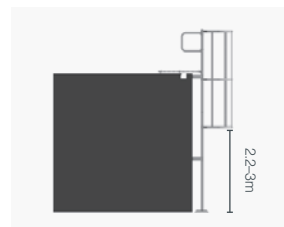
1. For cages above 3.0m in length, use a combination of 2 cages to achieve required length as this is easier to install.
2. Vertical caged ladders are only to be considered if an angled ladder is not practicable.
3. The clearance height under cage must be in between 2.0m – 2.2m.
4. In some instances, an additional side extension protection cage may be required if there is possibility of the user being exposed to an extended fall. See RL434E Ladder Cage Side Extension Kit.

RL424 KATT2 LADDER CAGE ASSEMBLY

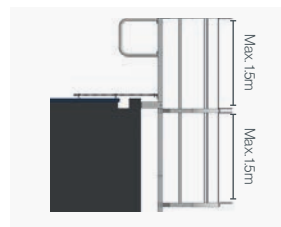
KATT2 MODULAR LADDER CAGE REGULATIONS



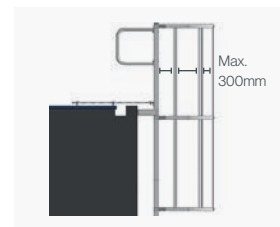
For ladders over 3m, fall protection must be provided. A cage is the preferred choice.



The lowest part of the cage must start at a height of between 2.2m and 3m above the departure area.



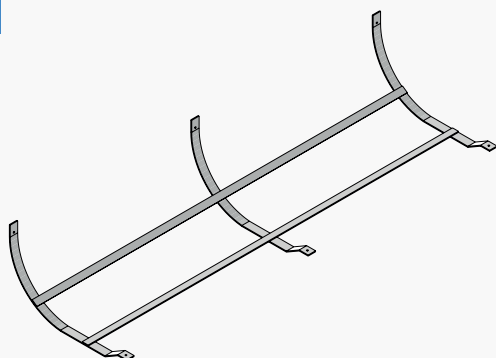
The distance between cage hoops must not exceed 1.5m.



The distance between cage straps must not exceed 300mm.

KATT2 LADDER CAGE ASSEMBLY - D9794

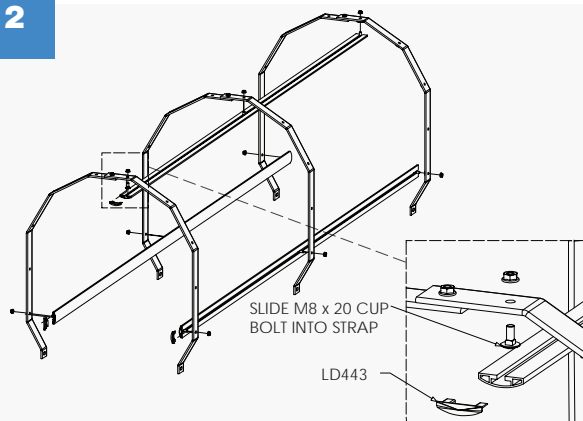
1



STEP 1:

CUT STRINGERS TO SUIT LENGTH OF REQUIRED CAGE. **THERE MUST BE 6 STRINGERS PER CAGE TO MEET REGULATIONS**

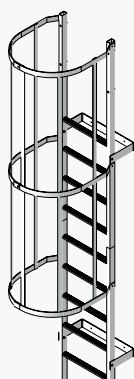
2



STEP 2:

JOIN THE CAGE HOOPS TOGETHER. THEN ATTACH THE STRINGERS TO THE HOOPS WITH M8 X 20 CUP BOLT. **HOOPS MUST BE EVERY 1.5M MINIMUM TO BE COMPLIANT.**

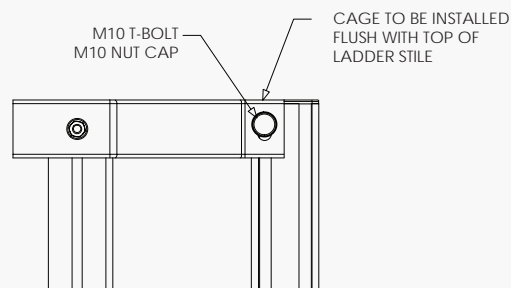
3



STEP 3:

POSITION CAGE ON LADDER ENSURING THE TOP OF CAGE IS LEVEL WITH TOP OF LADDER.

4

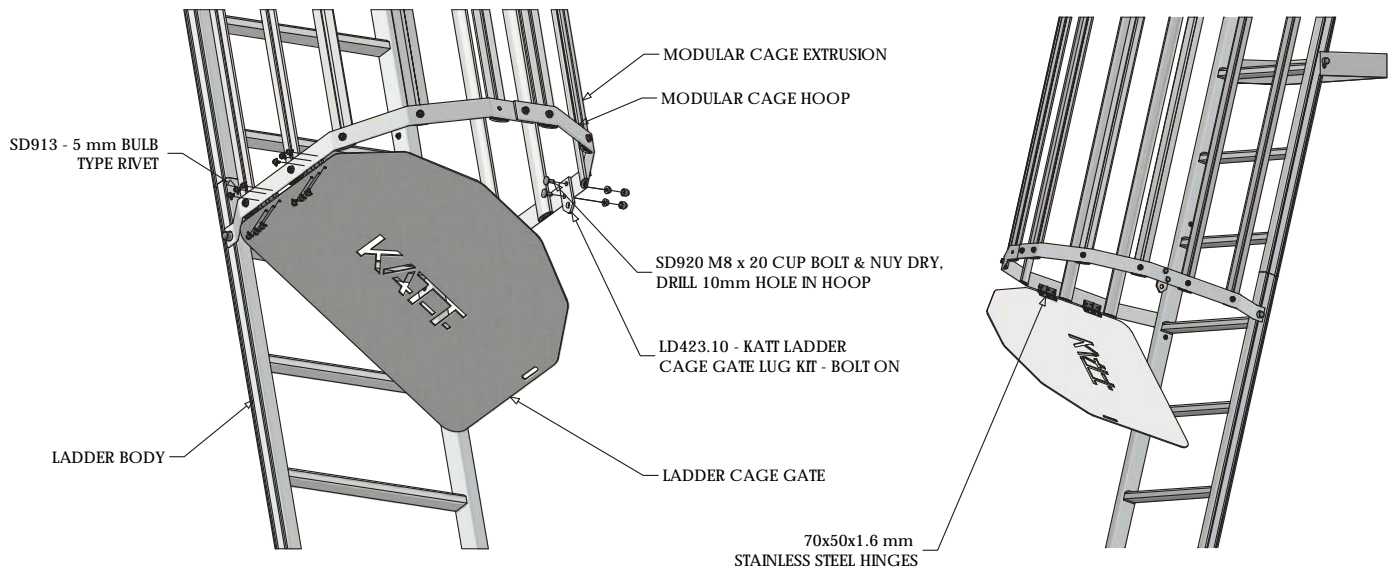


STEP 4:

FIX TO LADDER WITH M10 T-BOLT.

RL425 KATT2 LOCKABLE CAGE GATE ASSEMBLY

LOCKABLE LADDER CAGE GATE INSTALLATION DETAILS - D9803



RL429M KATT2 INTERMEDIATE LANDING PLATFORM

The KATT2 Intermediate Landing Platform is designed to provide an intermediate landing platform for multistage ladder systems. The system is designed and built modular for easier and safer installation on site. The platform can be attached to concrete, steel cladding with purlins or any other structural support system capable of supporting the required loads.

TECHNICAL DETAILS

- 1. Platform design load: 2.5 kPa.
- 2. Min 200mm edge distance required for concrete fixing.
- 3. Platform should not exceed 300mm from the nearest point of wall fixing.

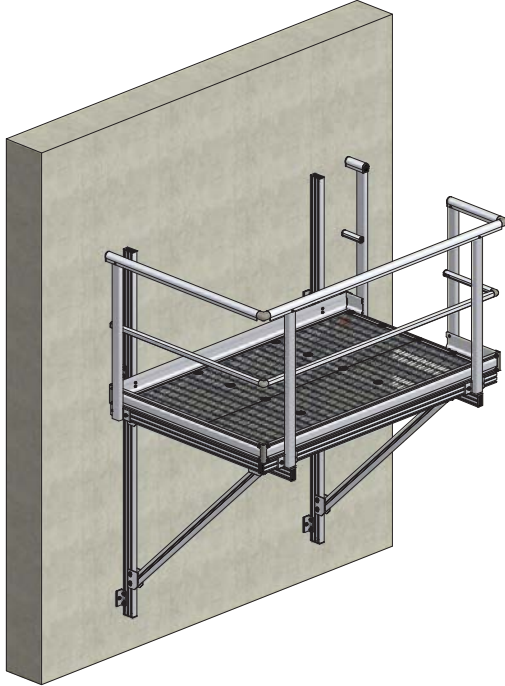
STRUCTURE TYPE	FASTENER TYPE
Metal cladding with steel purlins min 150 x 1.5mm	- 8 x M8 concealed mount purlin fixing into purlin
Concrete slab min 25 MPA	Qty 4 / bracket <ul style="list-style-type: none">- 8mm x 75 screwbolt- 10mm x 75 Trubolt- M10 stud chemical fixed (100mm embedment)
Structural steel	Qty 4 / bracket <ul style="list-style-type: none">- M10 stainless steel bolt set

SPECIAL NOTES

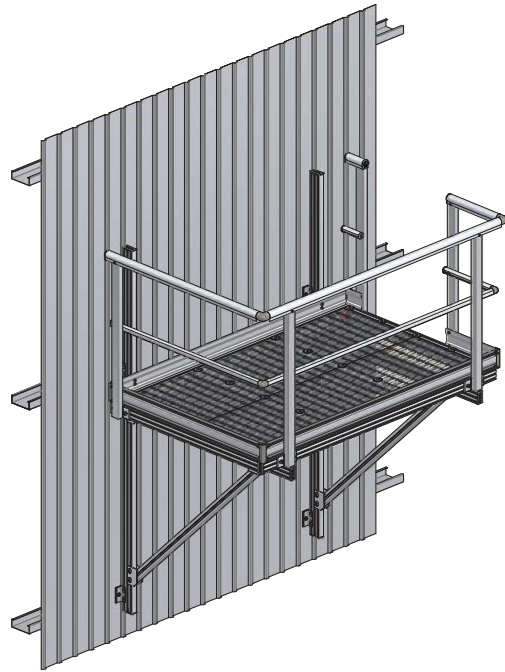
- 1. If attaching platform to concrete panels, ensure minimum of 200mm edge distance to fixing allowed.
- 2. When attaching to metal clad / purlin wall structure, always position as close to main structural portal frame as possible for additional rigidity.
- 3. Maximum height between landings is 6000mm.
- 4. If secondary ladder is positioned closer than 500mm to the platform edge, a side mount cage extension RL434E is required for additional user safety.

RL429M KATT2 INTERMEDIATE LANDING PLATFORM

RL429M - KOMBI INTERMEDIATE LANDING PLATFORM (ASSEMBLY) - D9916

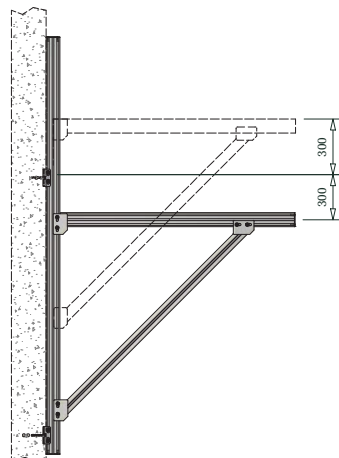
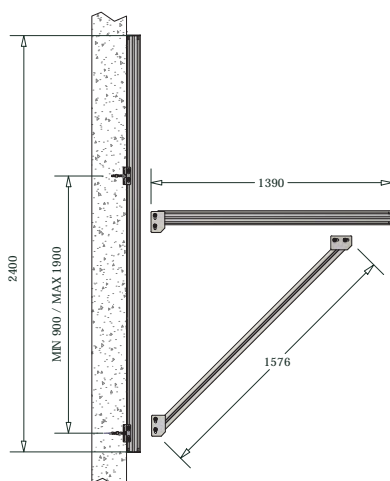


WALL MOUNT - CONCRETE



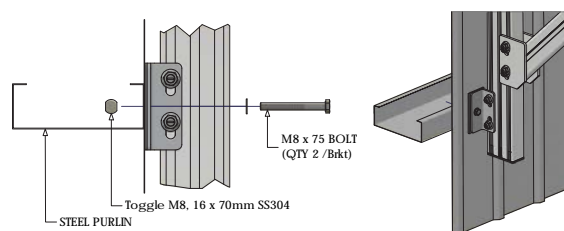
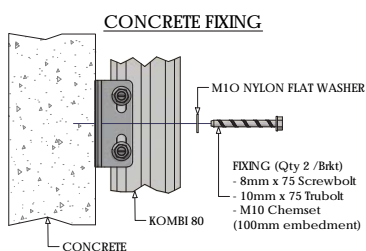
WALL MOUNT - PURLIN/CLADDING

RL429M - KOMBI INTERMEDIATE LANDING PLATFORM (ASSEMBLY) - D9916



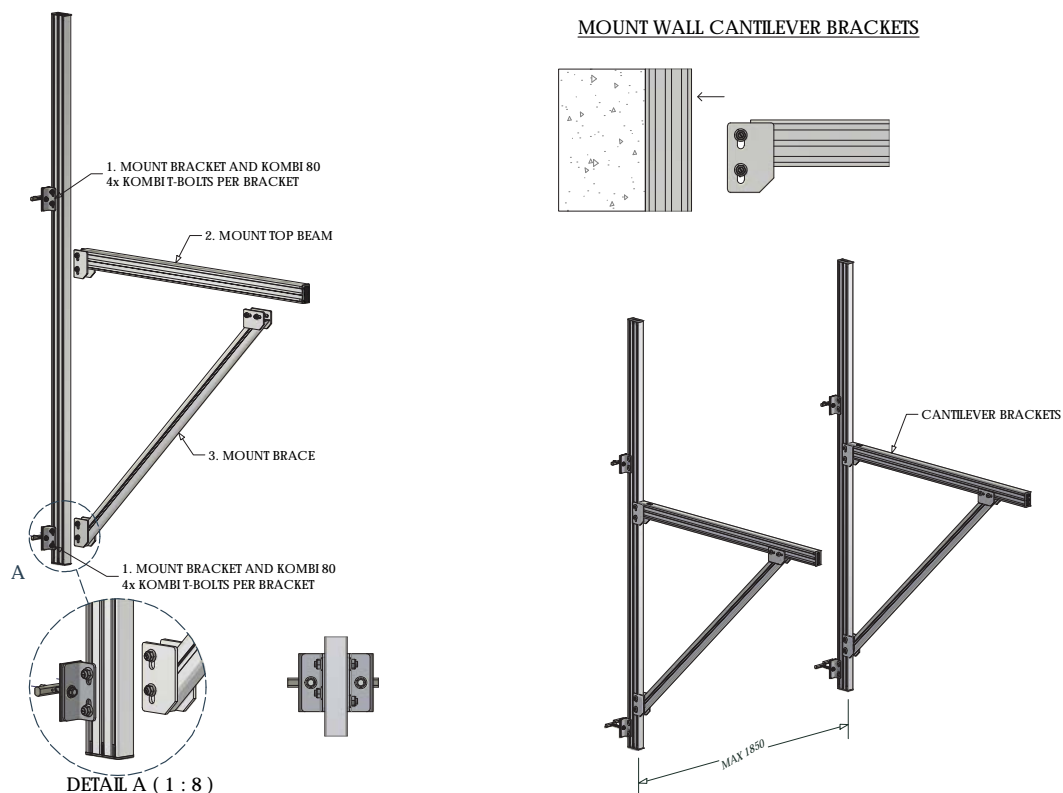
MAX ADJUSTMENT ABOVE
OR BELOW MAIN SUPPORT
BRACKET

PURLIN FIXING

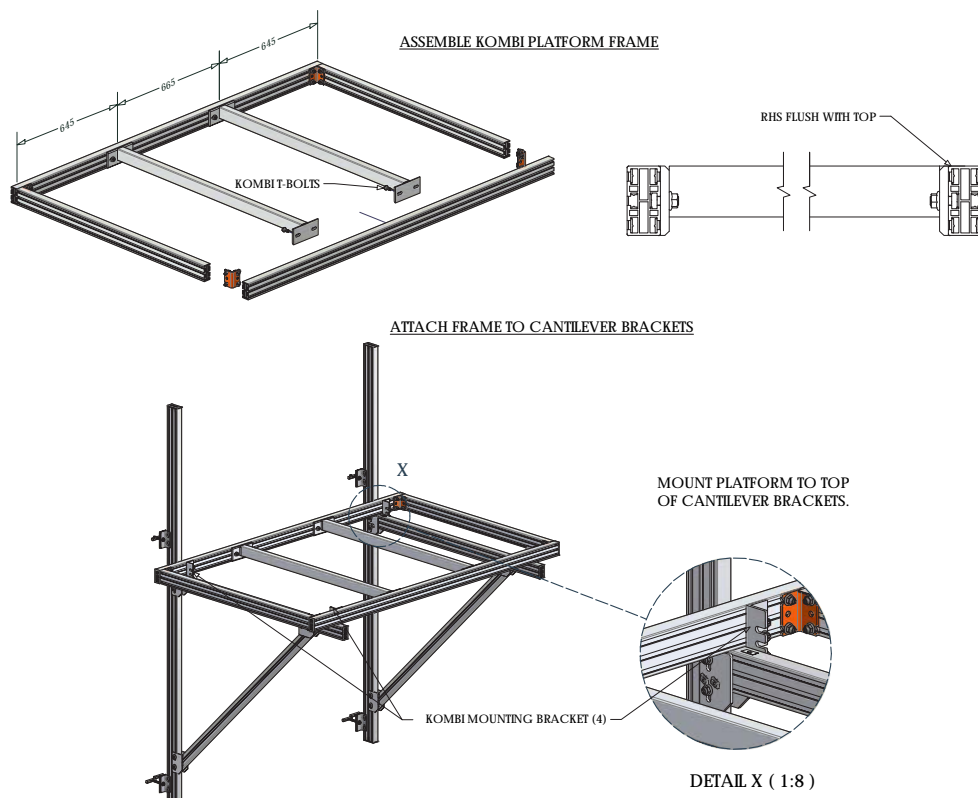


RL429M KATT2 INTERMEDIATE LANDING PLATFORM

RL429M - KOMBI INTERMEDIATE LANDING PLATFORM (ASSEMBLY) - D9916



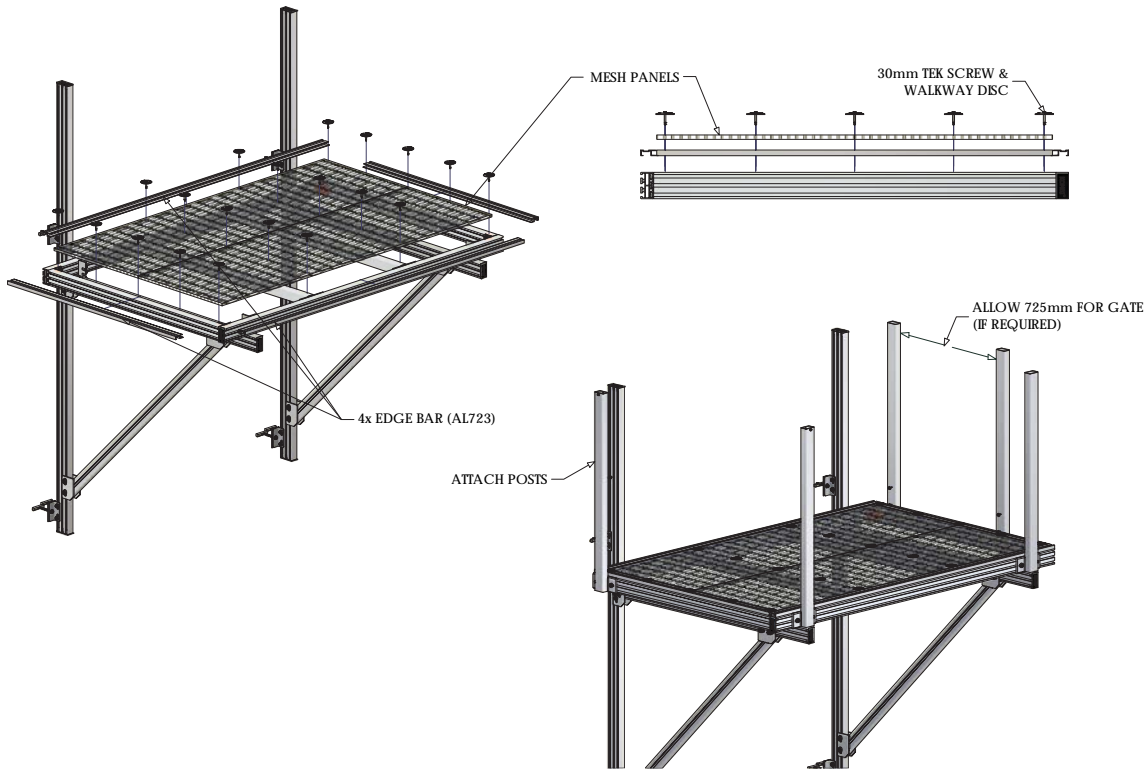
RL429M - KOMBI INTERMEDIATE LANDING PLATFORM (ASSEMBLY) - D9916



RL429M KATT2 INTERMEDIATE LANDING PLATFORM

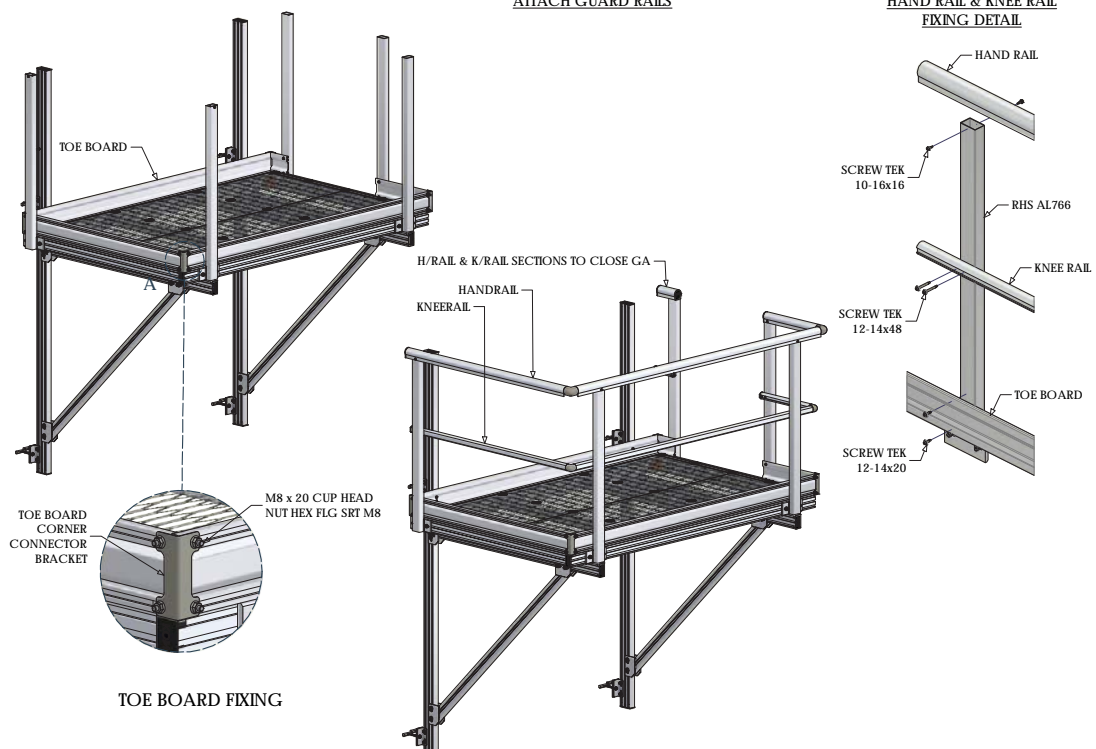
RL429M - KOMBI INTERMEDIATE LANDING PLATFORM (ASSEMBLY) - D9916

ATTACH WALKWAY AND POSTS



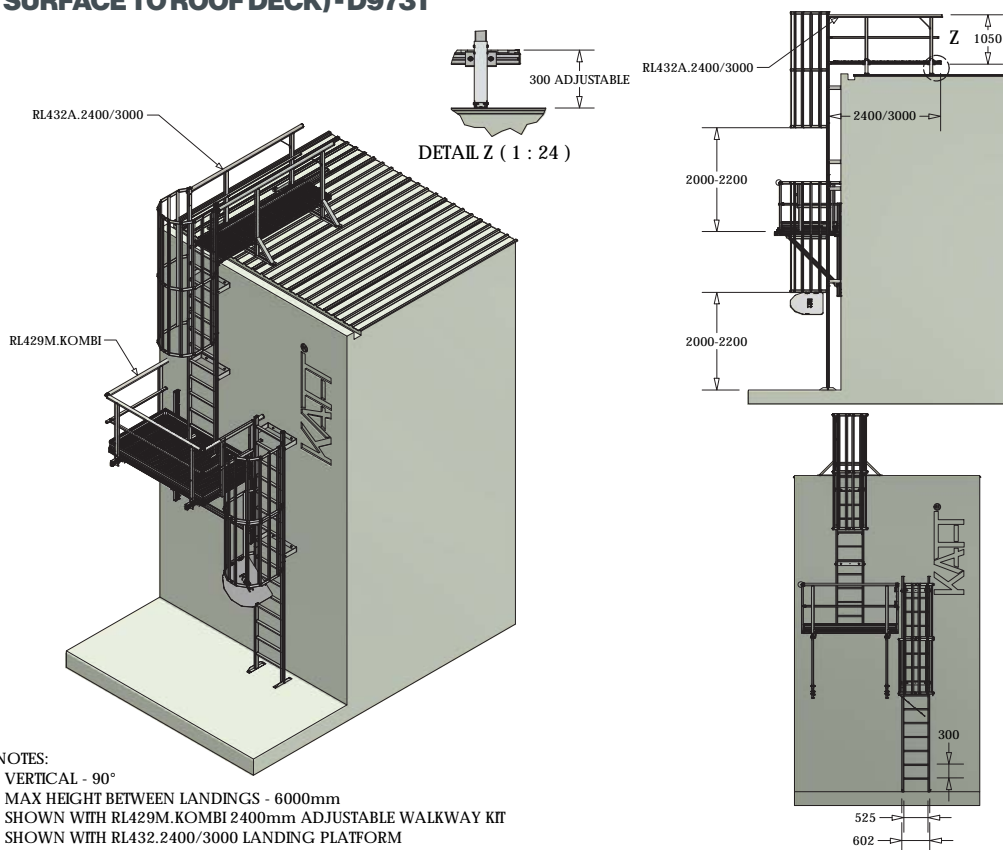
RL429M - KOMBI INTERMEDIATE LANDING PLATFORM (ASSEMBLY) - D9916

ATTACH GUARD RAILS



RL429M KATT2 INTERMEDIATE LANDING PLATFORM

VERTICAL CAGE LADDER WITH MIDWAY LANDING PLATFORM AND 2.4m ADJUSTABLE ACCESS KIT (FLAT SURFACE TO ROOF DECK) - D9731



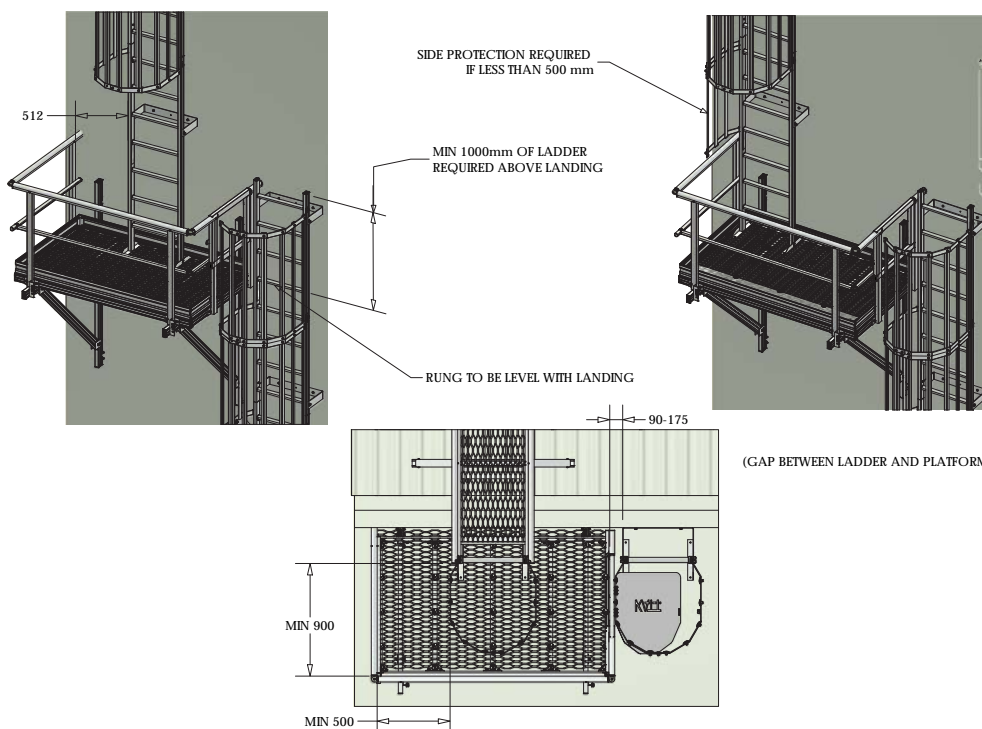
NOTES:

- VERTICAL - 90°
- MAX HEIGHT BETWEEN LANDINGS - 6000mm
- SHOWN WITH RL429M.KOMBI 2400mm ADJUSTABLE WALKWAY KIT
- SHOWN WITH RL432.2400/3000 LANDING PLATFORM

MIDWAY CHANGE-IN-DIRECTION PLATFORM - D9789

CENTERED ON PLATFORM - NO INFILL MESH REQUIRED

TOO CLOSE TO EDGE - INFILL MESH IS REQUIRED



RL429T KATT2 LADDER HEAD LANDING PLATFORM

The KATT RL429T Ladder Head Landing Platform is designed for use with an angled cage ladder attached parallel to the wall structure to minimise footprint below the ladder. The platform provides a safe egress system onto the roof when exiting the ladder. It is designed to be adjustable in height to assist in alignment with the top rung.

TECHNICAL DETAILS

1. Platform design load: 2.5 kPa.
2. Min 200mm edge distance required for concrete fixings.

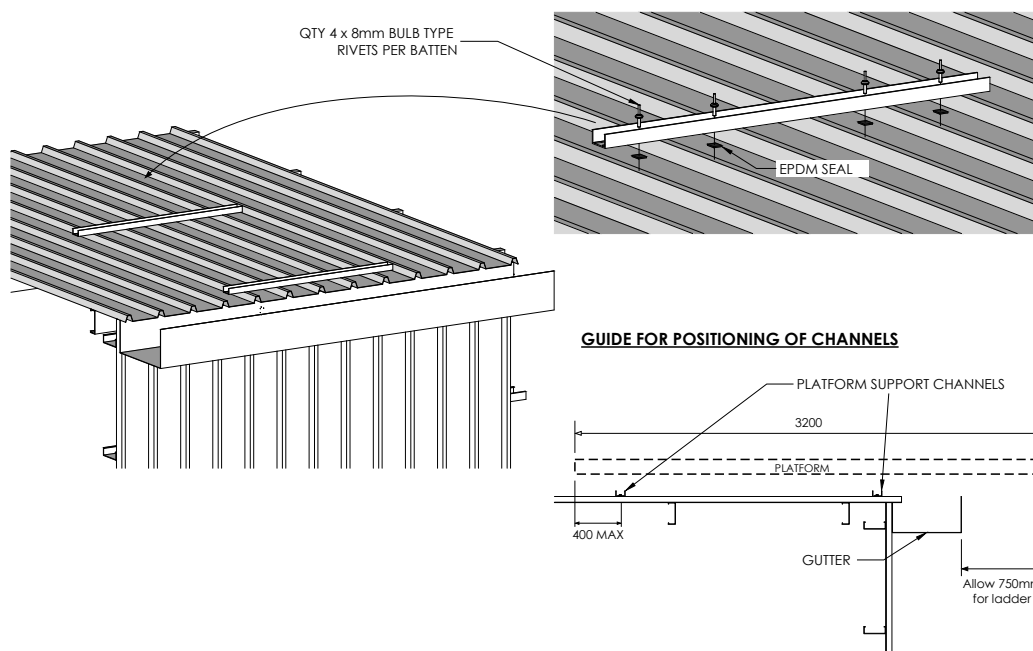
STRUCTURE TYPE	FASTENER TYPE
Metal cladding with steel purlins min 150 x 1.5mm	- Qty 4 / bracket: 14G x 50mm Tek Screw
Concrete slab min 25 MPA	Qty 2 / bracket - 8mm x 75 screwbolt - 10mm x 75 Trubolt - M10 stud chemical fixed (100mm embedment)
Structural steel	Qty 2 / bracket - M10 stainless steel bolt set

SPECIAL NOTES

1. If attaching platform to concrete panels, ensure minimum of 200mm edge distance to fixing allowed
2. When attaching to metal clad / purlin wall structure, always position as close to main structural portal frame as possible for additional rigidity.

RL429T - LADDER HEAD LANDING PLATFORM INSTALLATION DETAILS - D9369

STEP 1 - POSITION AND FIX PLATFORM SUPPORT CHANNELS TO ROOF DECK



RL430 KATT2 FIXED INTERMEDIATE REST PLATFORM

The KATT2 RL430 Fixed Intermediate Rest Platform is designed to allow the operator to exit the ladder onto the platform whilst still connected to the ladder fall arrest system. The platform simply connects to the side of the ladder using the T-Bolt fastener. The intermediate rest platform is required at 6.0m intervals or less based on the overall height of the ladder.

TECHNICAL DETAILS

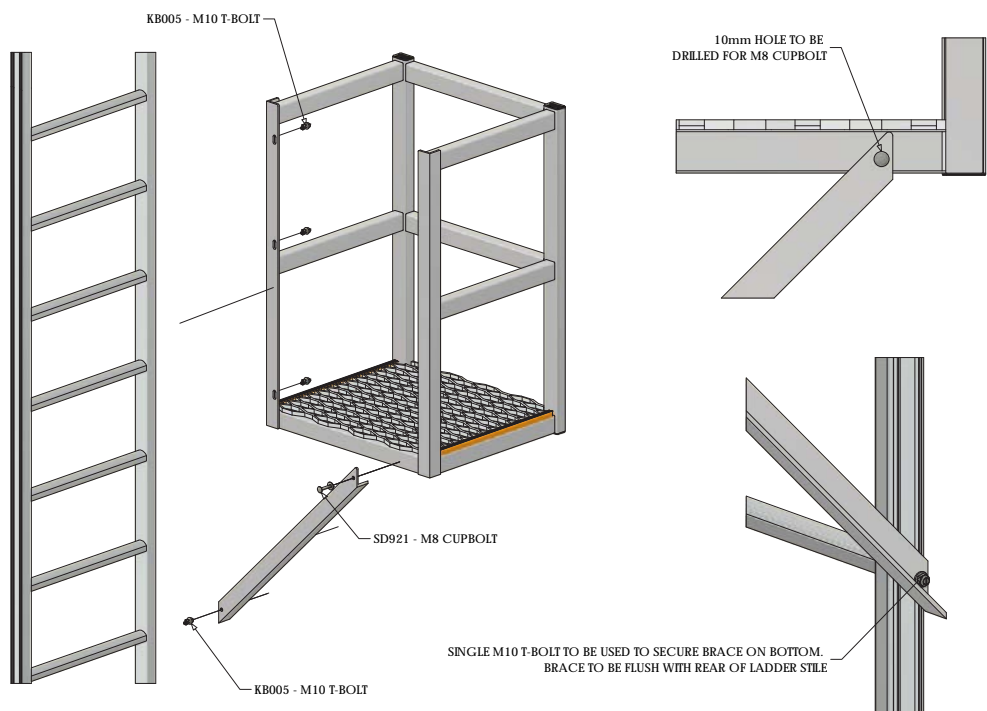
- Platform rated to 150 kg.
- Operator must remain attached to fall arrest system when using rest platform.

STRUCTURE TYPE	FASTENER TYPE
Metal cladding with steel purlins min 0.42 BMT	- Qty 2 / bracket: M8 purlin mount structural fixing
Concrete slab min 25 MPA	Qty 2 / bracket <ul style="list-style-type: none"> - 8mm x 75 screwbolt - 10mm x 75 Trubolt - M10 stud chemical fixed (100mm embedment)
Structural steel	Qty 2 / bracket <ul style="list-style-type: none"> - M10 stainless steel bolt set

SPECIAL NOTES

- If attaching platform to concrete panels, ensure minimum of 200mm edge distance to fixing allowed.
- When attaching to metal clad / purlin wall structure, always position as close to main structural portal frame as possible for additional rigidity.

RL430 - MIDWAY REST PLATFORM INSTALLATION DETAILS - D9834



RL406 KATT2 VERTICAL LINE LADDER HEAD

The KATT2 Vertical Line Ladder Head is designed to be used on vertical ladders and is a more effective fall protection system when compared with a ladder cage in a vertical situation. The static line connects at the ladder head and then secured near the base to hold the line steady in a fall arrest situation.

TECHNICAL DETAILS

- Top attachment rated to 15 kN on the following condition.
 - 1m, 2.4m and 3m platform must be fixed to ladder (RL432A range).
 - Handrail must be fixed to ladder stiles.
 - Cable tension to be 30 kg to 80 kg.

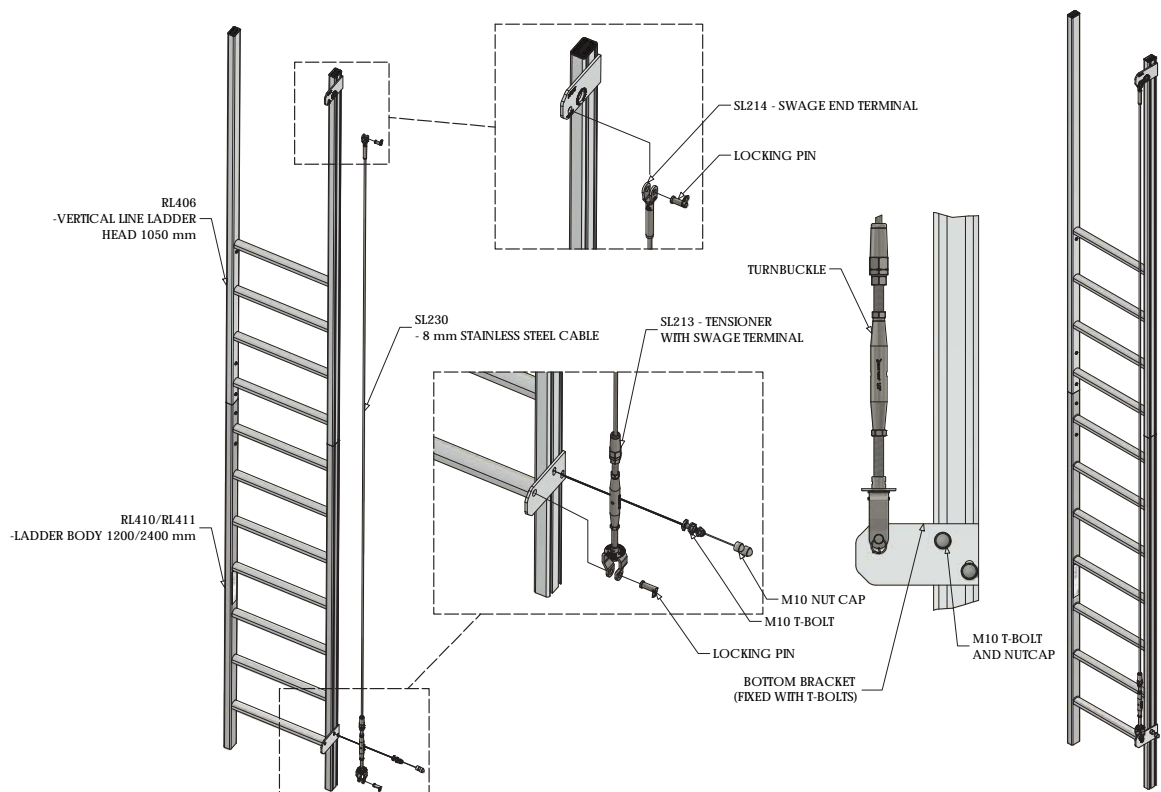


VIEW INSTALL
ANIMATION

SPECIAL NOTES

- Vertical ladders fitted with fall arrest systems require a base support capable of withstanding a 12kN dynamic load.
- Spacing between fixing brackets must not exceed 2.8m.
- A suspended ladder with a fall arrest system requires a minimum 4 x RL421.2805 fixing brackets per 6.0m ladder or 2.4m spacing max.
- The base static line bracket should be positioned low enough to ensure easy mount and dismount of ARRESTA Vertical Line Fall Arrestor.

VERTICAL LADDER STATIC LINE INSTALLATION - D9599

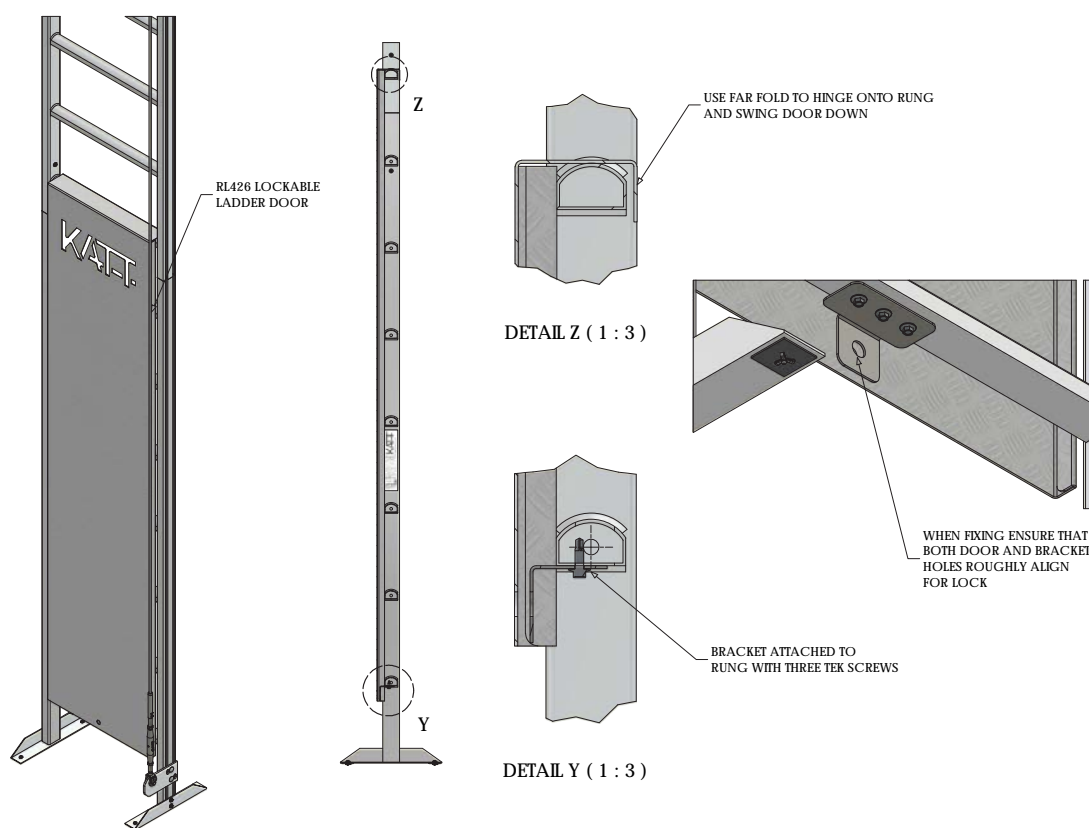


RL426 KATT2

LADDER DOOR

The KATT2 RL426 Ladder Door is designed to provide controlled access to ladders that can be accessed by non authorised users. The ladder simply hooks over a rung and then gets locked off at the base using a lock provided by the building manager. The door is simply lifted free of the ladder when being used.

RL426 - LADDER DOOR WITH LADDER LOCK BRACKET - D9759



KATT SUMMARY OF STANDARDS

1

Ladder must be fixed at between 90°–75°.

2

Minimum 200mm clearance required between ladder to wall, and minimum 150mm clearance required between ladder and a discontinuous obstacle.

3

Minimum of 50mm hand clearance on the sides of the ladder except where the brackets are attached to the ladder.

4

There must be a minimum of 200mm between the ladder and the wall. There must be minimum of 650mm clearance in front of the ladder and minimum of 650mm width clearance.

5

The upper surface of the top rung must be level with the landing platform.

6

Top rung to landing. There shall be no gap, or maximum 75mm gap between the top rung and the landing platform.

7

The rungs in a ladder flight must be uniformly spaced between 225–300mm. The distance between the departure area and the lowest rung must not exceed the spacing between 2 rungs.

8

Brackets must be fixed maximum 3m apart. Note – ensure there is a bracket connected to each ladder section.

9

For ladders over 3m, fall protection must be provided. A cage is the preferred choice.

10

The lowest part of the cage must start at a height of between 2.2m and 3m above the departure area.

11

The distance between cage hoops must not exceed 15m.

12

The distance between cage straps must not exceed 300mm.

13

The clear distances within the hoops of the safety cage must be between 650mm and 800mm. The distance from the rung to the safety cage must be between 650mm and 800mm.

14

When the climbing height is 10m or less, one single flight ladder can be installed.

15

When the height is greater than 10m, a staggered flight ladder must be installed. The climbing height of the individual ladders must be 6m or less and an intermediate rest platform must be provided between each ladder.

16

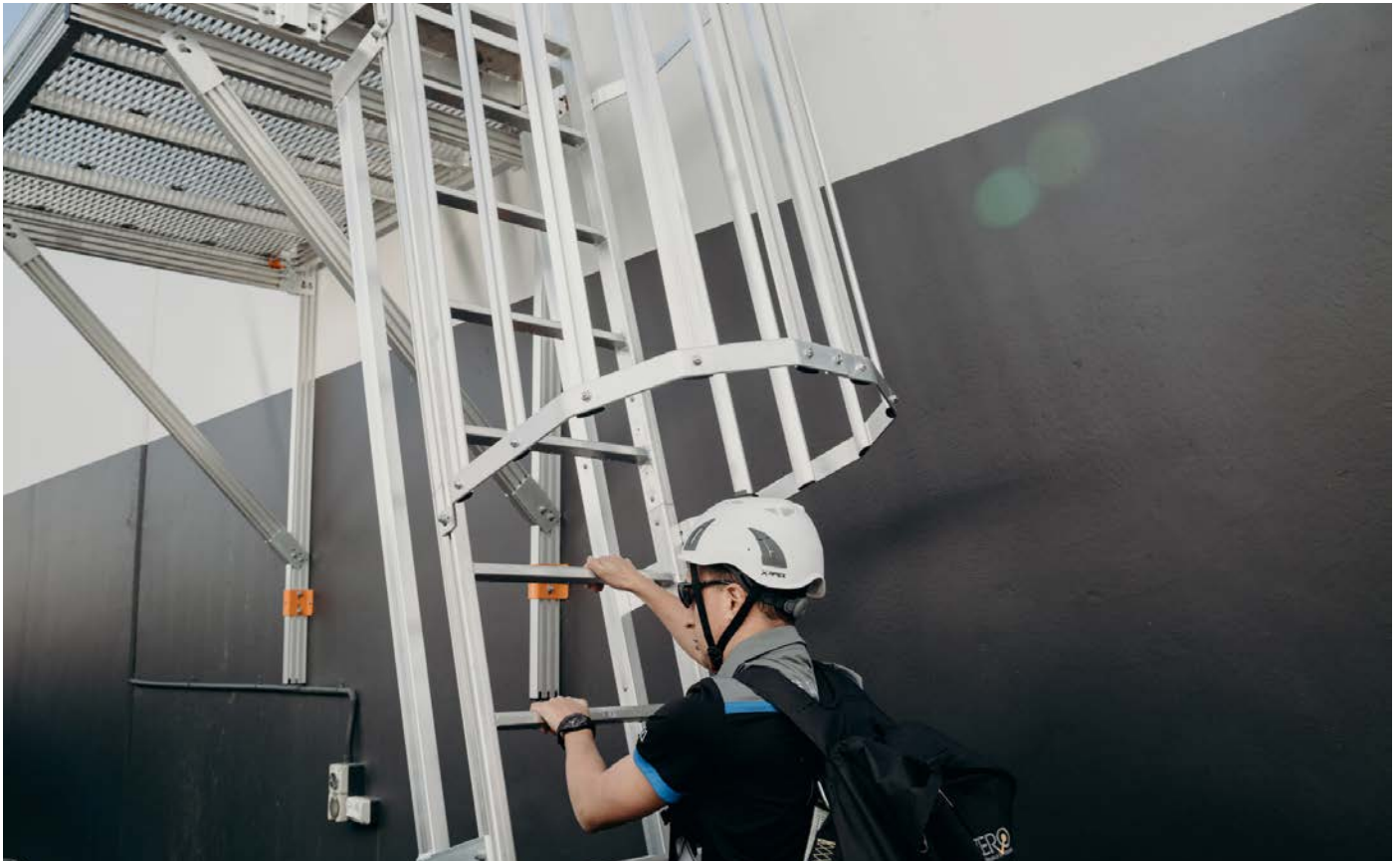
The distance between the landing platform and the handrail must be 1100mm, and the gap between the handrail and the knee-rail must not exceed 470mm.

LIMITATIONS

MUST BE READ PRIOR TO USE

1. Minimum structural requirements for attachment of KATT2 Ladders:
 - Steel purlin 100 x 1.5mm base metal thickness
 - Timber batten 70 x 35 F7 structural grade
 - Composite panel 75mm attached using through bolt system
2. KATT2 Ladders are for single person use only rated to 150kg.
3. The preferred angle of rung ladders is 75°. Ladders positioned at 90° are permissible provided suitable fall protection is provided.
4. An enclosed cage is the preferred method of fall protection for rung ladders above 3500mm.
5. KATT2 Ladders cannot be submerged in saline or any acidic liquids.
6. Ladder landings must be provided at the base and top of ladders if entry and exit surface is uneven or not level.
7. This system, under normal use and environment, has a minimum life expectancy of up to 10 years. A competent person's assessment and certification to confirm suitability for an additional 5 years use is recommended. This will depend on location, usage and scheduled maintenance as per manufacturer and legislative requirements.
8. Do not tamper with or make alterations to system components without manufacturer's consent.
9. This system is not to be used for tethering or lifting machinery or equipment.
10. The safety system must be recertified by a competent height safety inspector as recommended:
 - Non corrosive/mild environment – 12 monthly
 - Corrosive/harsh environment – 6 monthly (more frequent inspection may be required).
11. Any aluminium components fastened to dissimilar metals, should be separated with EPDM foam or tape.
12. Any aluminium in corrosive environments or in submerged situations (water/soil) must have appropriate corrosion protection provided - Eg special coatings or anodising must be applied - Refer to KATT Technical Team.

⚠ KATT recommends that persons using fall arrest systems do not work alone in case of an emergency and help is required. Should any part of the system/equipment have been subjected to abnormal loading, use must be discontinued until replaced/ recertified by a competent height safety inspector.



INSTALLATION REQUIREMENTS

MUST BE READ PRIOR TO USE

1. This system must only be installed by competent persons trained in the selection, use and maintenance of fall arrest systems who hold a current KATT approved installer certificate.
2. Persons installing this system are required to have a comprehensive knowledge of the British Standards, codes of practice and industry guidelines that relate to the selection, use and maintenance of access and fall protection systems and equipment.
3. Integrity and suitability of the structure to which this system is attached must be approved by a structural engineer unless it is clear to a competent person as to the suitability of connection to structure.
4. Read installation and operating instructions carefully before commencing any work. Consent to deviate from the installation guide must be obtained in writing from the manufacturer.
5. Conduct an initial work/risk assessment, and take all reasonable precautions to eliminate or control potential hazards and risks during the installation of this product.
6. Complete all necessary documentation, including a Job Safety Analysis and Work Method Statement and obtain consent from responsible person in workplace prior to commencement of work.
7. Installers must be authorised and accredited by KATT Safety and possess valid industry licenses, be appropriately trained, and comply with all relevant legislation prior to installation of this product.
8. Do not modify or remove any element of the support structure without prior authorisation by a qualified engineer.
9. Decorative coatings and coverings must be removed to ensure correct evaluation of structure prior to attachment of system
10. Any re-routing of electrical and/or other services must be carried out by qualified or authorised personnel.
11. Appropriate temporary access and safety equipment must be used during installation, such as platform ladders or scaffolding and fall protection anchorage points.
12. In case of emergency access and fall protection systems must be installed by a minimum of two persons.
13. Do not tamper with, modify or remove any part this system unless authorised by the manufacturer.
14. Appropriate labels or markings must be attached to each system and include the following:
 - System for personnel use only
 - Service entry date
 - Next examination/service due date
 - Harness gear requirements and system compatibility
 - Maximum designed load ratings
 - Installer/Certifier contact details
15. Documentation confirming correct use and maintenance of the system and equipment must be provided to the workplace manager on completion of installation. (See operation manual.)

⚠ KATT Safety instructions and recommendations, drawings and diagrams, and all other documentation are copyright, errors and omissions excepted, and must be carefully read and implemented. Any assistance or guidance given is without prejudice, and KATT Safety cannot be held responsible for any inaccuracy or misinterpretation whatever. Failure to follow site installation requirements and warnings, may result in serious injury or death. KATT Safety accepts no direct or indirect responsibility and/or consequential liability whatever, for any products and systems incorrectly installed or certified. KATT Safety cannot warrant the integrity or suitability of the structure to which the products may be attached. Prior assessment must be made by a qualified structural engineer, unless the structure is authorised or approved by a competent person.



WARRANTY

WARRANTY PERIOD ON THIS SYSTEM -10 YEARS FROM DATE OF PURCHASE

Should you have a warranty claim as a result of a defect the following procedure must be followed:

Identify the following information:

- The product/system name and code number.
- The date of purchase/installation.
- Installation company details.
- The installation identification number.
- The name of the company using this system.
- A description of the defect/warranty claim.
- The periodic system maintenance report.

Forward the above information
to sales@kattsafety.co.uk or contact technical
helpline, 0800 0590 400.

TERMS & CONDITIONS

All warranty claims must be made in writing within 14 days of the appearance of the defect.

Incorrect installation or work done by a non accredited KATT system installer will void all warranty rights.

Systems that have been installed using non proprietary equipment will void all warranties.

System roof/cladding and concrete penetration seals are not covered in this warranty.

Systems/components that have not been maintained in accordance with manufacturer's/legislative requirements will void warranty.

Systems used by incompetent persons or use with non compatible accessories ie. harness gear, lanyards, travellers, fall arrestors etc. will void warranty.

Systems/components used for purposes other than their intended use will void warranty.

General wear and tear is expected and will depend on the frequency of use and is not covered by warranty.

NEVER HAS SAFETY
IN THE WORKPLACE
HAD A HIGHER PRIORITY

DISCLAIMER

All product specifications and technical descriptions, recommendations and other information provided, are given as general guidance and advice, and are to be read in conjunction with KATT Safety installation instructions and any other data available and applicable to each particular standard product or system. Use of such data is however the user's sole responsibility, taking into account the intended application and actual conditions existing on the particular worksite. Consequent selection of the right product for any particular use, remains the user's ultimate responsibility. KATT Safety is therefore not obligated or liable for any direct or indirect, incidental or consequential damages, losses or expenses in connection with, or by reason of the suitability and use of or otherwise, any product or system for any purpose. Implied warranties of merchantability or fitness for any particular purpose, are specifically excluded.

All KATT Safety products must be installed and used by competent personnel trained in the selection, safe use and maintenance of fall arrest systems and equipment by a Registered Training Organisation (RTO). Installation not in accordance with KATT Safety requirements or the use of non KATT Safety components will void all certification and warranties.

Suitability of support structure and design layout of system is the responsibility of the installer and should be verified by a competent person trained by a Registered Training Organisation (RTO) in the selection, safe use and maintenance of fall arrest systems and equipment or approved by a structural engineer to ensure conformance.

KATT Safety maintains a policy of continuous improvement and development, and therefore reserves the right to modify, amend or otherwise alter product and system designs and specifications, models and part numbers, colours and pricing etc without prior notice. Errors and omissions are excepted, and KATT Safety accepts no liability for incorrect information, errors or omissions.

TECHNICAL SPECIFICATION

SYSTEM CODE FEATURES

KATT FIXED LADDER SYSTEM RL400

KATT2 Fixed Ladder System by KATT Safety safe access to rooftops, ceiling spaces and elevated areas for maintenance. System design, supply, layout, installation and certification by a KATT approved installer, as per the manufacturer's installation instructions and current standards.

TECHNICAL DATA

MATERIALS

- All components and accessories manufactured from high grade structural aluminium with options for powder coating.

DIMENSIONS

- Overall ladder width - 605mm
- Distance between stiles - 525mm
- Rung diameter - 45 x 32mm (profiled)
- Rung spacing - 300mm
- Stile extension above landing surface - 900mm to 1100mm
- Minimum clearance behind ladder - 200mm (vertical position)
- Maximum distance between platforms - 6.0m

WEIGHT

- Ladder body sections - 2.9kg/m (excludes fixing brackets and fixings)
- Cage sections - 8.3kg/m

FIXINGS

- Metal fixing - M10 bolt set
- Concrete fixing - M10 mechanical concrete anchor
- Metal purlin fixing - M8 toggle bolt or 14G screw

WORKING LOAD LIMIT

Recommended for single person use - 150kg rated.

Industrial rated, suited to high frequency usage.

Support structure integrity, suitability and fixing method to be assessed and determined by a engineer unless it is clear to a competent person prior to installation.

Arresta Vertical Line Fall Arrest System must be only used with the approved fall arrest device and harness system incorporation front chest attachment and energy absorber as per BS EN ISO 14122-4:2016.

COMPLIANCE

KATT2 Ladder System is designed to conform with requirements of the British Standard BS EN ISO 14122-4:2016 and relevant codes of practices and guidelines.

TESTING

Testing and performance based on requirements of British Standard BS EN ISO 14122-4:2016.

PRODUCT WARRANTY

10 Years from date of purchase subject to correct installation. Use and maintenance to be in accordance with manufacturer's specifications and recommendations. (This excludes wearing parts).

INSPECTION AND MAINTENANCE

Inspection and certification required every 12 months by competent person in accordance with manufacturer's specification and and relevant HSE statutory guidelines.

IMPORTANT NOTE

Failure to supply and/or install proprietary product in accordance with above standards and codes, specifications and instructions voids complete system certification and/or warranty.

NOTES

[illegible]

NOTES



Modular Safety Systems Ltd
100-200, The Quadrant, Ash Ridge Road
Bradley Stoke, Bristol BS32 4QA

T 0800 0590 400
E KATT@MODSAFE.CO.UK

FOR MORE INFORMATION
VISIT KATTSAFETY.CO.UK



PROTECTING LIFE BY PROVIDING PERMANENT
SAFE ACCESS SYSTEMS

KATT
SAFETY
PART OF **MODSAFE**

