

# Aluminium Ladders



**Q-STAR ENGINEERING**  
INDUSTRIAL SERVICES & SOLUTIONS



# About Q-Star Engineering

**Q-Star Engineering is certified company and all of the products are Certified by TÜV for their relevant quality standards**

**Q-Star Engineering** is a leading brand name in the field of Work-at-Height solutions and various other types of working platforms in the Gulf region. The company's manufactured products are very popular because of the market segment they belong to, primarily Construction (Infrastructure development), product's usefulness and quality. Over the years, Q-Star Engineering has gained so much popularity in the construction sector that this is the most sought after product today for any type of work-at-height requirement. The company is a leading manufacturer of all sorts of work-at-height solutions and currently operates for its business in Pakistan but also has operations in UAE, Saudi Arabia, Qatar and Bahrain. We have state of the art, technologically advanced production facility in Pakistan which is equipped with latest welding machines, Die Casting Machines, Injection Molding Machines and production machinery and a full-fledged logistics division to support timely delivery. Q-Star Engineering has its own Innovation and R&D team set-up, our engineers are continuously working on new innovative ideas to develop new products as well as optimize the existing ones.

## Origin and Base

Recognizing the evidence of a resilient economy in Pakistan and UAE and the unambiguous strategic direction for continued economic development, it was very encouraging to invest in manufacturing and serve the construction sector in Gulf and further set foot on other regional targets in the future. This was the primary reason why Q-STAR chose Pakistan as the base and UAE as the distribution hub. The company, Q-Star Scaffolding was established in 2015 and currently it has its manufacturing base in Karachi Pakistan.

## Customer Focused

- Safety is our utmost priority and our team makes sure that each and every member lives to it.
- Q-Star has strict Quality Control procedures in place which ensures quality products resulting in satisfied customers
- Q-Star has a huge production facility ensuring readily available products ensuring anytime availability of the products
- Dedicated engineering and design team ensuring tailor made solutions as per specific customer requirements
- Dedicated Innovation center continuously working on evolving new and optimized designs of the products

## Product Benefits & Features

- Durable and light products which are easy to set up or install 100% Safe products
- Antiskid working platforms for more grip and safety
- Light weight and easily maneuverable products
- Products with warranty

### *Following are common types of Scaffolding used in construction:*

- Aluminum Single Width scaffolding
- Aluminum Double Width scaffolding
- Aluminum Cantilever scaffolding
- Aluminum Stairway scaffolding
- Aluminum Bridge way scaffolding
- Aluminum Stair towers
- Aluminum Solo scaffolding
- Aluminum Podium Steps



# General Ladder Instructions :

This section presents the basics that the user must need to know regarding ladders, from performing maintenance to erecting and using them correctly.

These ladder instructions are in accordance with EN 131–3

Our products have been developed based on huge industry research spanning over almost 2 decades of time, product testing and customer feedback to ensure the highest quality solution.

## The most common causes of accidents

If the causes for accidents are known, there are better chance of avoiding them.

**Leaning ladders:** The most common type of accident is that the ladder slips against the surface. Either the bottom slides outwards or the top slides sideways. These types of accidents make up about 75% of all accidents.

**Standing ladders:** The most common accident is that the ladder stands unsteady on uneven ground or that the ground is so weak that it gives way.

Here is a list of the most common causes for accidents and risk to take into account when working on ladders.

### 1. Loss of stability

- Incorrect positioning of the ladder (such as incorrect angle for leaning ladder or not fully opening a standing ladder).
- Slide outwards at the bottom (such as bottom of the ladders sliding away from the wall).
- Side slip, falling sideways and top flip (such as overreaching or fragile top contact surface).
- Condition of the ladder (such as missing anti-slip feet).
- Stepping off an unsecured ladder at height.
- Unstable soft ground, sloping ground, slippery surfaces or contaminated solid surfaces.
- Adverse weather conditions (such as windy conditions).
- Collision with the ladder (such as vehicle, person or door).
- Incorrect choice of ladder (such as too short or too long or unsuitable for the task).

### 2. From handling

- Carrying the ladder to the work site.
- Erecting and dismantling the ladder.
- Carrying items up the ladder.
-

### 3. Slip trip and fall of user

- Inappropriate footwear.
- Contaminated rungs or steps.
- Carrying items up the ladder.
- Unsafe user practices (such as climbing 2 rungs at time, sliding down stiles or climbing down with face outwards).

### 4. Structural failure of ladder

- Condition of the ladder (such as damaged stiles, rungs, spreaders etc).
- Overloading the ladder.
- Carrying items up the ladder.
- Unsafe user practices (such as climbing 2 rungs at time, sliding down stiles or climbing down with face outwards).

### 5. Electrical hazards

- Working near live electricity.
- Positioning ladders too close to live electrical equipment (such as overhead power lines).
- Ladders damaging electrical equipment (such as covers or protective insulation).
- Incorrect selection of type of ladder for electrical work.

# User Instructions:

## 1. Before Use

- Ensure that you are fit enough to use a ladder. Certain medical conditions or medication, alcohol or drug abuse could make ladder use unsafe.
- When transporting ladders on roof bars or in a truck, ensure they are suitably placed to prevent damage.
- Inspect the ladder after delivery and before first use to confirm condition and operation of all parts.
- Visually check the ladder is not damaged and is safe to use at the start of each working day when the ladder is to be used.
- For professional users regular periodic inspection is required.
- Ensure the ladder is suitable for the task.
- Ensure the ladder is suitable for the task.
- Do not use a damaged ladder.
- Remove any contamination from the ladder, such as wet paint, mud, oil or snow.x
- Before using a ladder at work a risk assessment should be carried out respecting the legislation in the country of use.
- Follow the instructions.

## 2. Positioning and Erecting The Ladder

- Ladder shall be erected at the correct position, such as the correct angle for a leaning ladder (angle of inclination approximately 1:4 or 75 degrees) with the rungs or treads level and complete opening of a standing ladder.
- Locking devices, if fitted, shall be fully secured before use.
- Ladder shall be on an even, level and unmovable base.
- Leaning ladder should lean against a flat non-fragile surface and should be secured before use, e.g. tied or use of a suitable stability device.
- Ladder shall never be repositioned from above (while standing on the ladder).
- When positioning the ladder take into account risk of collision with the ladder e.g. from pedestrians, vehicles or doors. Secure doors (not fire exits) and windows where possible in the work area.
- Identify any electrical risks in the work area, such as overhead lines or other exposed electrical equipment.

- Ladder shall be stood on its feet, not the rungs or steps.
- Ladder shall not be positioned on slippery surfaces (such as ice, shiny surfaces or significantly contaminated solid surfaces) unless additional effective measures are taken to prevent the ladder slipping or ensuring contaminated surfaces are sufficiently clean.

### 3. Using the Ladder

- Do not exceed the maximum total load for the type of ladder.
- Do not overreach; user should keep their belt buckle (navel) inside the stiles and both feet on the same step/rung throughout the task.
- Do not step off a leaning ladder at a higher level without additional security, such as tying off or use of a suitable stability device.
- Do not use standing ladders for access to another level.
- Do not stand on the top three steps/rungs of a leaning ladder.
- Do not stand on the top two steps/rungs of a standing ladder without a platform and hand/knee rail.
- Do not stand on the top four steps/rungs of a standing ladder with an extending ladder at the top.
- Ladders should only be used for light work of short duration.
- Use non-conductive ladders for unavoidable live electrical work.
- Do not use the ladder outside in adverse weather conditions, such as strong wind.
- Take precautions against children playing on the ladder.
- Secure doors (not fire exits) and windows where possible in the work area.
- Face the ladder when ascending and descending.
- Do not use the ladder as a bridge.
- Wear suitable footwear when climbing a ladder.
- Avoid excessive side loadings e.g. drilling brick and concrete.
- Do not spend long periods on a ladder without regular breaks (tiredness is a risk).
- Leaning ladders used for access to a higher level should be extended at least 1 m above the landing point.
- Equipment carried while using a ladder should be light and easy to handle.
- Avoid work that imposes a sideways load on standing ladders, such as side-on drilling through solid.
- Materials (e.g. brick or concrete).
- Maintain a handhold whilst working from a ladder or take additional safety precautions if you cannot.



# Inspections, Storage & Maintenance

- Always inspect the ladder before use.
- Damaged part shall be replaced, e.g. end protection.
- Damaged ladders that cannot be repaired shall be destroyed.

## 1. Check That

- The ladder stiles are not damaged
- Steps or rungs are not damaged.
- Steps or rungs are not contaminated with wet paint, mud, oil or snow.
- The connection between steps and stiles, or the connection between rungs and stiles are not damaged.
- End protections are not worn down or contaminated.
- Locking mechanisms are not damaged.
- Opening/closing restraint devices are not damaged.
- Hinges are not damaged.
- Accessories are correctly assembled and not damaged.

## 2. Storage

- Store the ladders in a dry airy area horizontally, supported in two or three places (depending on ladder size) or hung on their sides on two or three hooks.
- The stiles, steps, rungs, locking mechanisms should not be exposed to strikes or to fall over.
- Deformations can weaken the construction and can turn into a risk.

## 3. Maintenance

- Parts screwed to the construction, or alike, may be replaced if conducted in accordance with valid assembling instruction.
- Parts that are permanently fitted to the constructions should not be replaced by an unauthorized person.
- Repair of parts permanently fitted to the construction should be conducted by the manufacturer or a competent person.

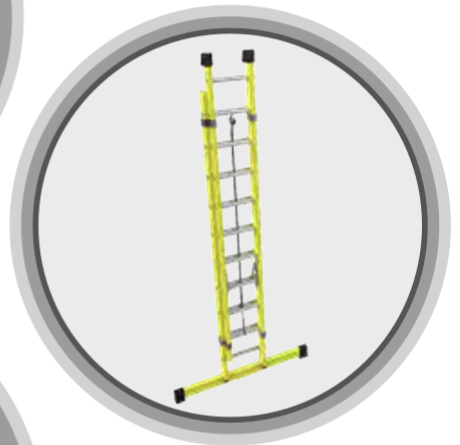
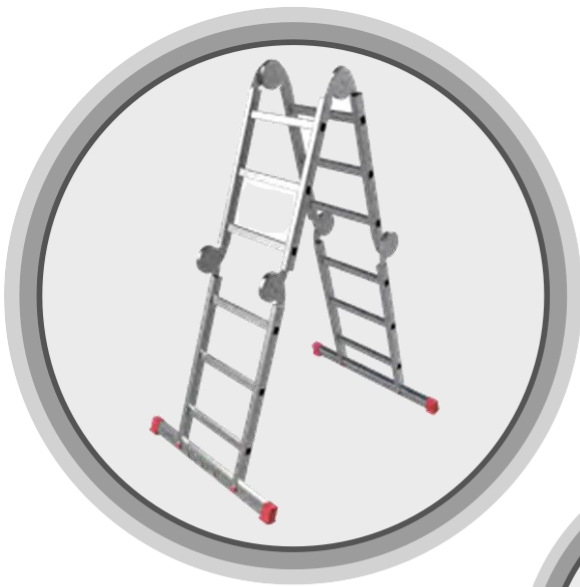
# Choosing the Correct Ladder:

## 1. Select a Certified Ladder :



## 2. Select the Right Type of Ladder

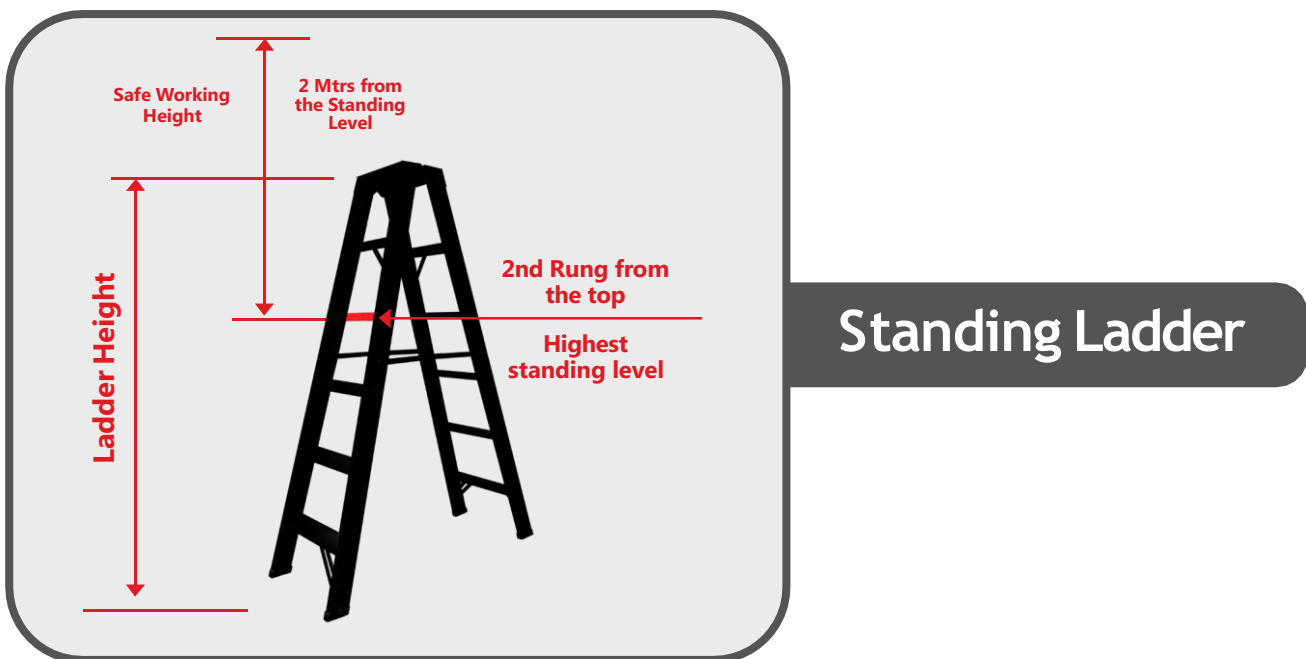


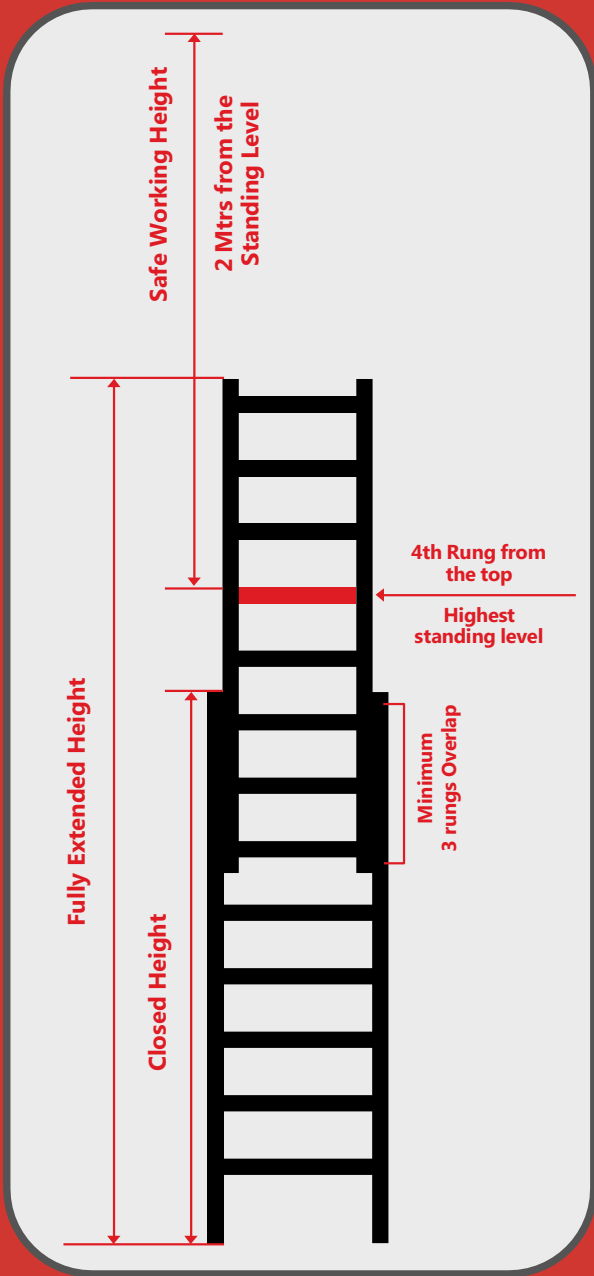


# Aluminium:

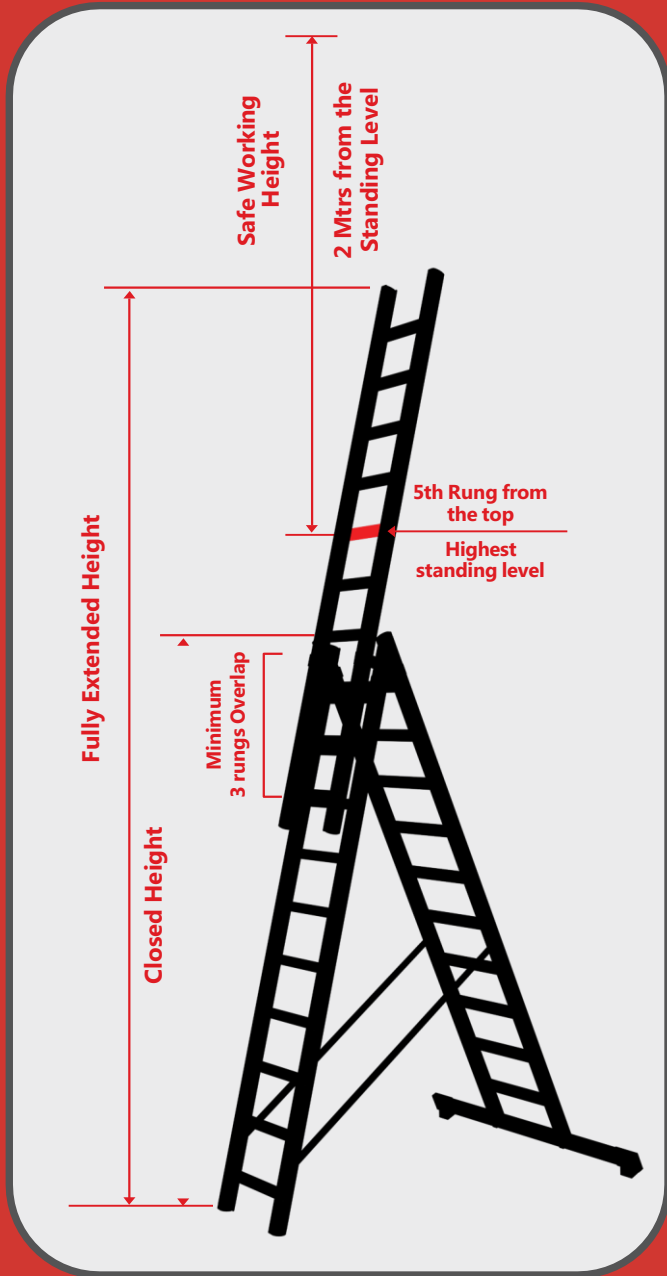
- Extruded profiles to meet specific load requirements
- Designed and tested for high temperature range
- Moisture and corrosion resistant
- Light weight
- Heat and electricity conductive

## 3. Select the correct length/height:



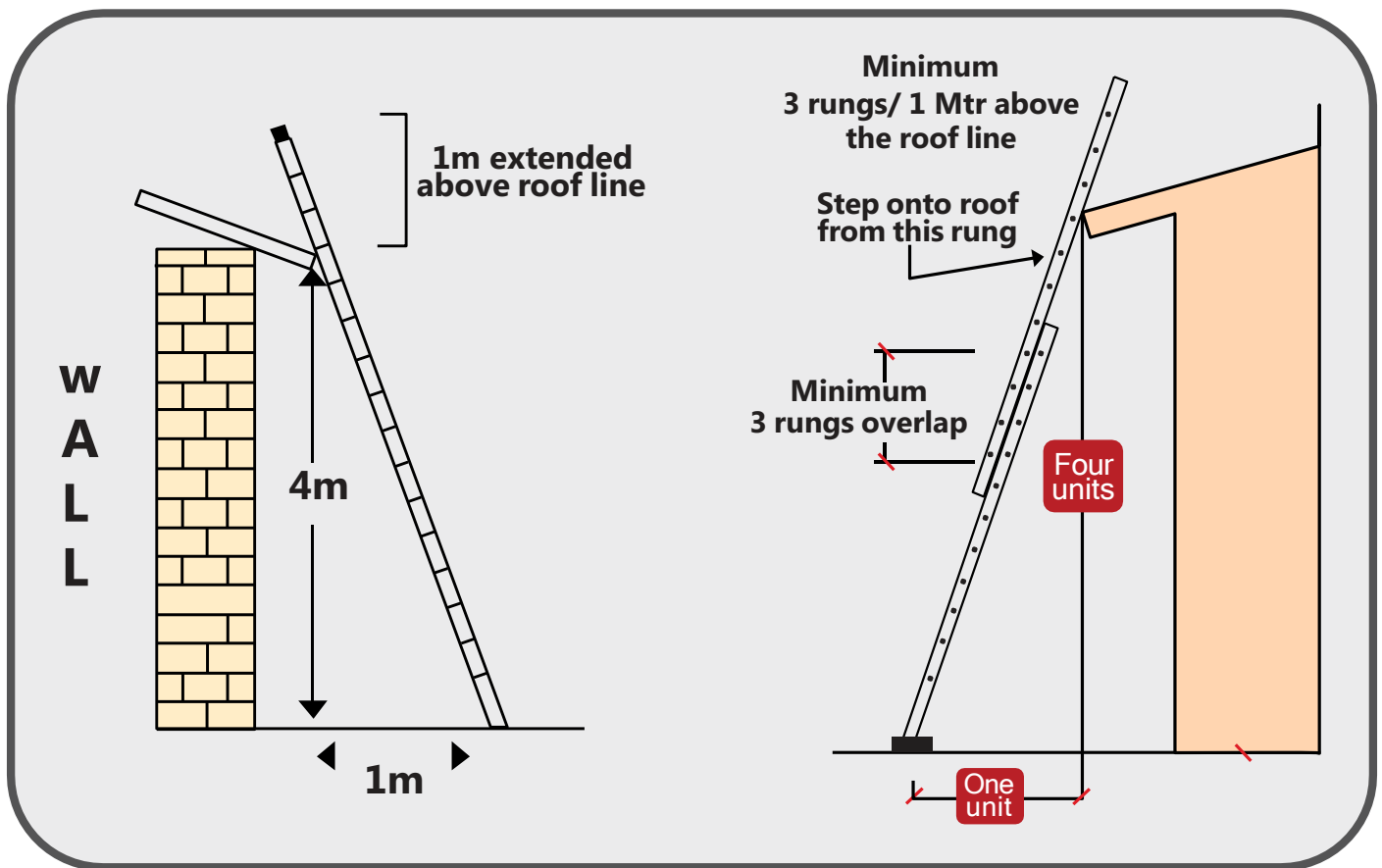


Extension Ladder



Combination Ladder

# Using a Leaning Ladder



## 6 Steps for Ladder Safety :

### 1. Know what type of ladder to use

- Aluminium or Fiberglass or Steel or Wood
- Length according to your working height
- Leaning or self-standing

### 2. Inspection prior to use

- Check for non-slip steps or rungs, no grease, oil etc.
- Make sure the rubber pads at the feet are not worn out
- Braces, rails and other hardware
- Rope, pulley and the locking mechanism

### 3. Using Proper set-up procedure

- For leaning ladders, use the 4:1 rule (65° to 75° angle)
- The ladder feet must be on a firm ground
- Extension Ladder: When extending, the lower stile ends of the upper sections must not pass the second rung from top of the section underneath

### 4. Climbing safely

- Always ascend or descend from the facing towards the ladder
- Always hold the stiles (side rails) which ascending or descending
- Step Ladder: Never climb beyond the second step from the top
- Leaning Ladder: Never climb beyond the fourth rung from the top
- Never carry tools in hand while climbing

### 5. Practice safe working habits

- One person at a time on the ladder
- Never shift/slide the ladder when some one is on to it
- Working height must be within the arms reach, never try to overreach

### 6. Carry the ladder with safety

- Carry safely so that the ladder does not hit anybody
- If required, use another person for help but never drag the ladder
- For low height ladders lift it vertically slightly above the ground and move
- For ladder height more than yours, should be lifted and carried horizontally with the top facing forward



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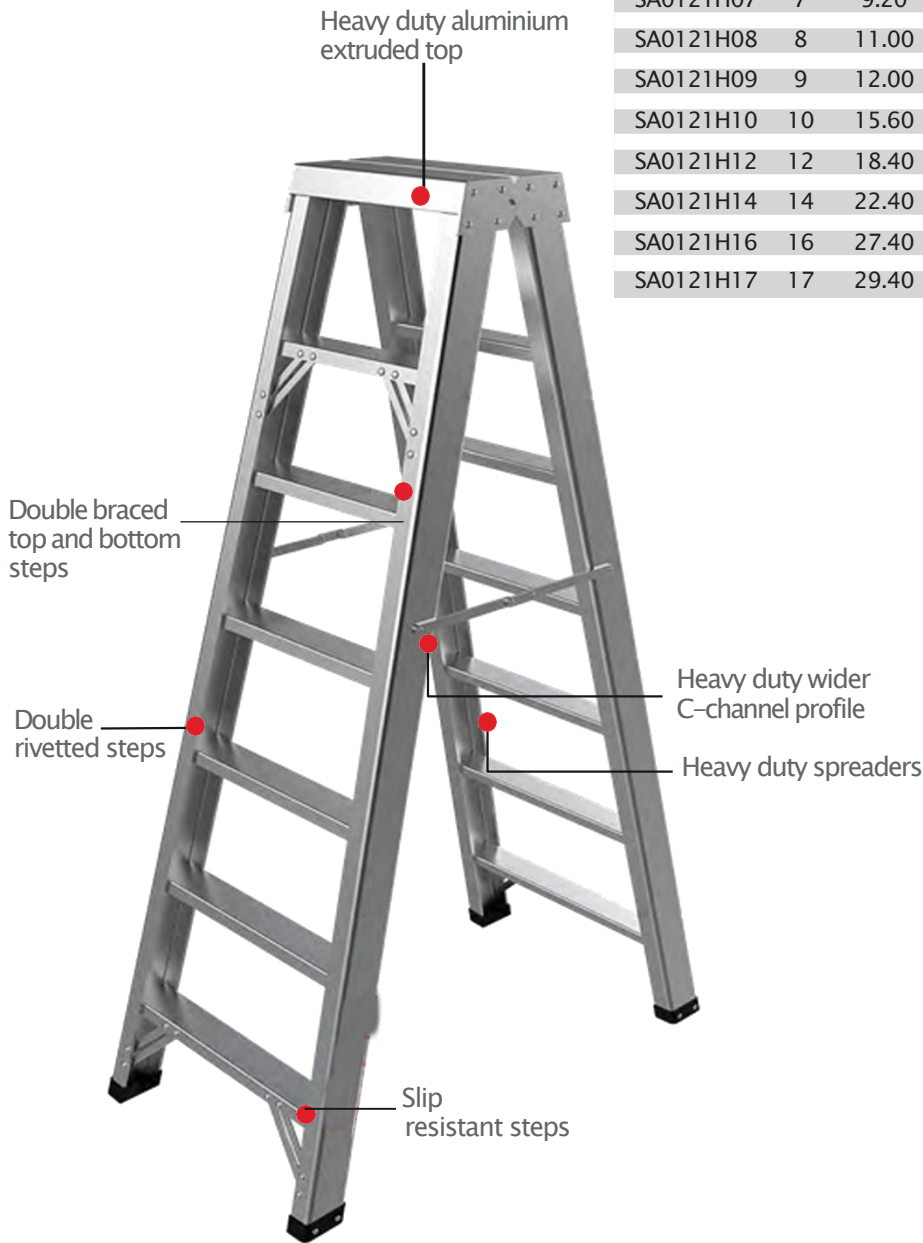
# Specifications and Technical Data



## Twin Stepladder | Professional

All measurements in Mtr and weight in Kgs (Approx)

Code	Steps	Weight	Length	Top Width	Base Width	Working Height
SA0121H04	4	5.60	1.14	0.33	0.48	2.32
SA0121H05	5	6.60	1.44	0.33	0.51	2.61
SA0121H06	6	8.00	1.74	0.33	0.54	2.90
SA0121H07	7	9.20	2.04	0.33	0.57	3.19
SA0121H08	8	11.00	2.34	0.33	0.60	3.48
SA0121H09	9	12.00	2.64	0.33	0.62	3.77
SA0121H10	10	15.60	2.94	0.33	0.65	4.06
SA0121H12	12	18.40	3.54	0.33	0.71	4.64
SA0121H14	14	22.40	4.14	0.33	0.77	5.22
SA0121H16	16	27.40	4.74	0.33	0.83	5.80
SA0121H17	17	29.40	5.04	0.33	0.86	6.09



Not to be used near electricity



Ladder standard	EN131
Class	Professional
Duty	Heavy
Material	Aluminium
Max Load Capacity	170 Kgs
Max Working Height	6.09 Mtr

● Anti-slip foot pads

# Straight Ladder | Professional |

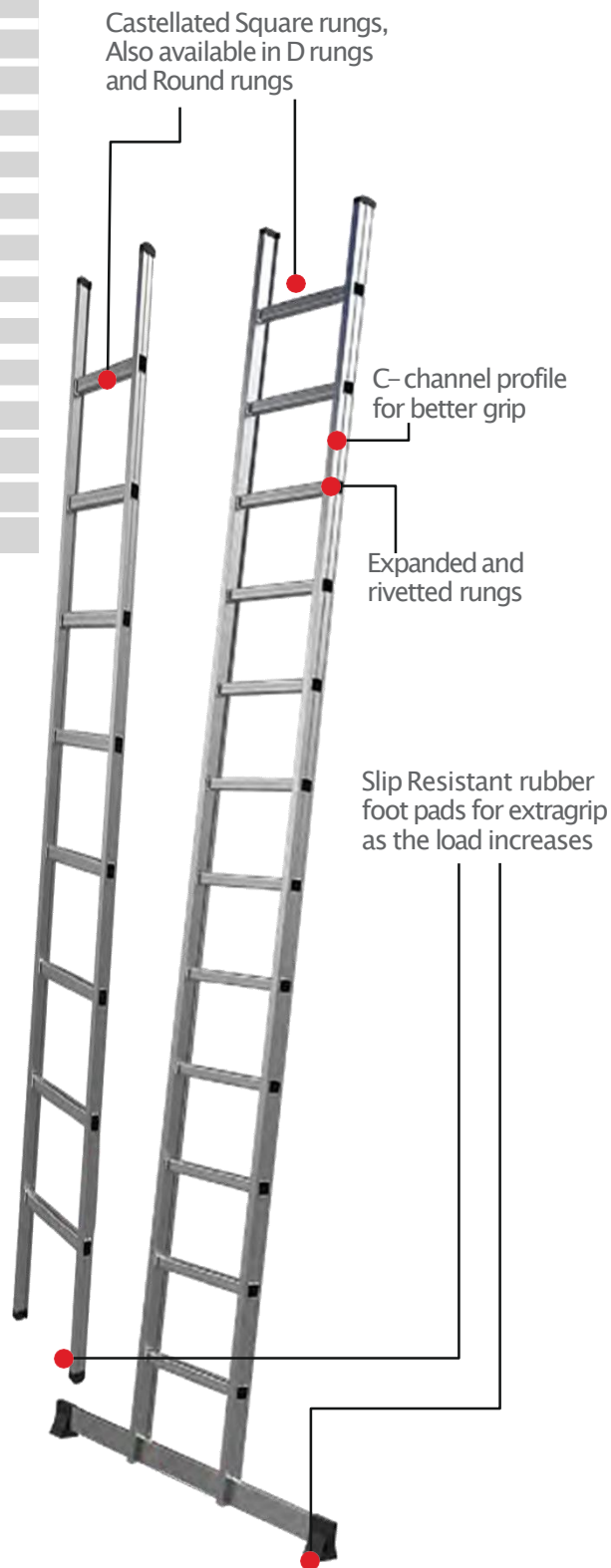
All measurements in Mtr and weight in Kgs (Approx)

Code	Length	Rungs	Width	Base Width	Weight	Working Height
LA0122H06	2.10	6	0.36	0.36	5.28	2.90
LA0122H07	2.40	7	0.36	0.36	6.06	3.20
LA0122H08	2.70	8	0.36	0.36	6.84	3.50
LA0122H09	3.00	9	0.36	0.72	7.91	3.80
LA0122H10	3.30	10	0.36	0.75	8.70	4.10
LA0122H11	3.60	11	0.36	0.78	9.49	4.40
LA0122H12	3.90	12	0.36	0.81	10.28	4.70
LA0122H13	4.20	13	0.45	0.93	11.67	5.00
LA0122H14	4.50	14	0.45	0.96	12.51	5.30
LA0122H15	4.80	15	0.45	0.99	13.35	5.60
LA0122H16	5.10	16	0.45	1.02	14.18	5.90
LA0122H17	5.40	17	0.45	1.05	15.02	6.20
LA0122H19	6.00	19	0.45	1.11	16.69	6.80

Horizontal/Lateral Stabilizers provided with models above 3 Mtr



Ladder standard	EN131
Class	Professional
Duty	Heavy
Material	Aluminium
Max Load Capacity	170 Kgs
Max Working Height	6.80 Mtr



Aluminium Ladder



Not to be used near electricity

## Straight Ladder | Professional |

All measurements in Mtr and weight in Kgs (Approx)

Code	Length	Rungs	Width	Base Width	Weight	Working Height
LA0122M06	2.10	6	0.36	0.36	4.01	2.90
LA0122M07	2.40	7	0.36	0.36	4.61	3.20
LA0122M08	2.70	8	0.36	0.36	5.20	3.50
LA0122M09	3.00	9	0.36	0.72	6.08	3.80
LA0122M10	3.30	10	0.36	0.75	6.68	4.10
LA0122M11	3.60	11	0.36	0.78	7.28	4.40
LA0122M12	3.90	12	0.36	0.81	7.89	4.70
LA0122M13	4.20	13	0.45	0.93	8.90	5.00
LA0122M14	4.50	14	0.45	0.96	9.52	5.30
LA0122M15	4.80	15	0.45	0.99	10.16	5.60
LA0122M16	5.10	16	0.45	1.02	10.79	5.90
LA0122M17	5.40	17	0.45	1.05	11.43	6.20
LA0122M18	5.70	18	0.45	1.08	12.06	6.50
LA0122M19	6.00	19	0.45	1.11	12.69	6.80

*Horizontal/Lateral Stabilizers provided with models above 3 Mtr*



Not to be used near electricity



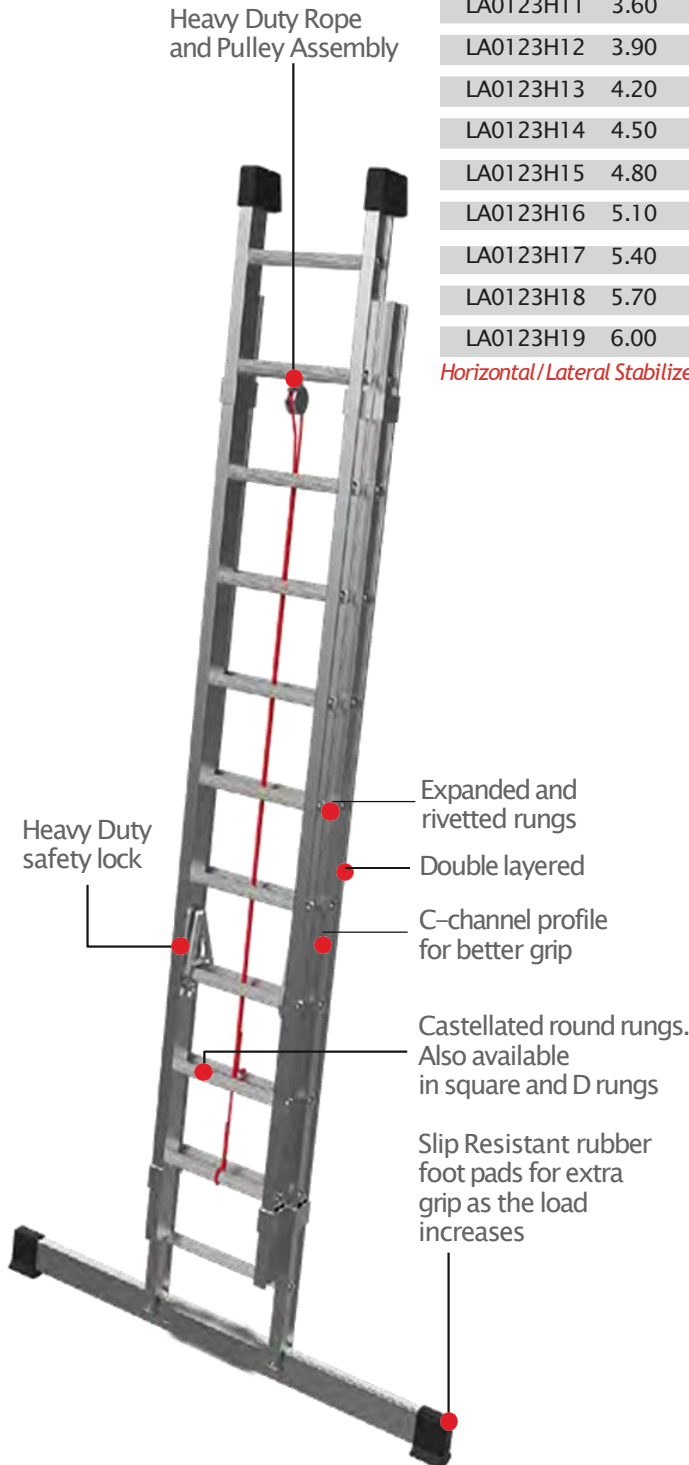
Ladder standard	EN131
Class	Professional
Duty	Medium
Material	Aluminium
Max Load Capacity	150 Kgs
Max Working Height	6.80 Mtr

## Double Extension Ladder | Professional | Rigorous Use (Rope Operated)

All measurements in Mtr and weight in Kgs (Approx)

Code	Closed Length	Max Ext Length	Rungs	Width	Base Width	Weight	Closed Working Height	Ext Working Height
LA0123H06	2.10	3.30	6	0.36	0.63	12.31	2.90	4.10
LA0123H07	2.40	3.90	7	0.36	0.66	13.88	3.20	4.70
LA0123H08	2.70	4.50	8	0.36	0.69	15.45	3.50	5.30
LA0123H09	3.00	4.80	9	0.36	0.72	17.03	3.80	5.60
LA0123H10	3.30	5.40	10	0.36	0.75	18.60	4.10	6.20
LA0123H11	3.60	6.00	11	0.36	0.78	20.17	4.40	6.80
LA0123H12	3.90	6.60	12	0.36	0.81	21.75	4.70	7.40
LA0123H13	4.20	6.90	13	0.45	0.93	24.48	5.00	7.70
LA0123H14	4.50	7.50	14	0.45	0.96	26.14	5.30	8.30
LA0123H15	4.80	8.10	15	0.45	0.99	27.80	5.60	8.90
LA0123H16	5.10	8.70	16	0.45	1.02	29.46	5.90	9.50
LA0123H17	5.40	9.30	17	0.45	1.05	31.12	6.20	10.10
LA0123H18	5.70	9.90	18	0.45	1.08	32.78	6.50	10.70
LA0123H19	6.00	10.50	19	0.45	1.11	34.44	6.80	11.30

Horizontal/Lateral Stabilizers provided with models above 3 Mtr



Ladder standard	EN131
Class	Professional
Duty	Heavy
Material	Aluminium
Max Load Capacity	170 Kgs
Max Working Height	11.30 Mtr

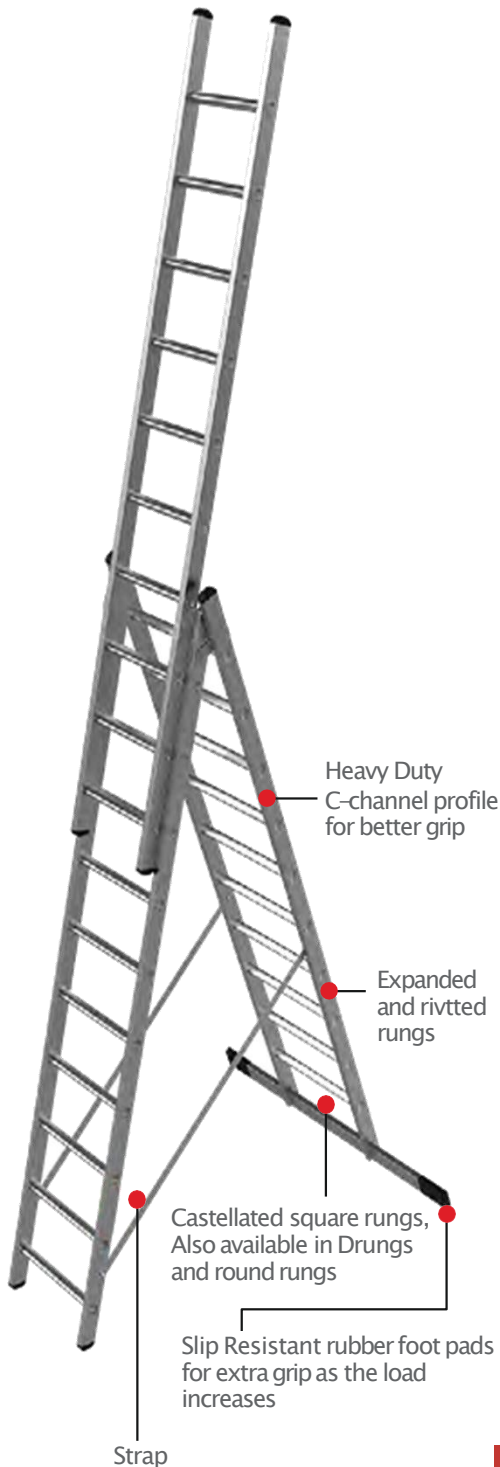


# Combination Ladder | Professional | Semi-Rigorous Use (3 Piece)

All measurements in Mtr and weight in Kgs (Approx)

Code	Length				Working Height						
	Closed Mode	Ext (A Type)	Ext(Triple Extn)	Rungs per Ladder	Width	Base Width	Weight	Closed Mode	Ext (A Type)	Ext(Triple Extn)	
SLA0121M06	2.10	3.30	4.50	6	0.36	0.79	14.36	2.90	2.77	5.03	
SLA0121M07	2.40	3.90	5.40	7	0.36	0.84	16.15	3.20	3.06	5.88	
SLA0121M08	2.70	4.50	6.30	8	0.36	0.89	17.95	3.50	3.34	6.72	
SLA0121M09	3.00	4.80	6.90	9	0.36	0.95	19.74	3.80	3.62	7.29	
SLA0121M10	3.30	5.40	7.80	10	0.36	1.00	21.54	4.10	3.90	8.13	

Horizontal / Lateral Stabilizers provided with models above 3 Mtr



Not to be used near electricity

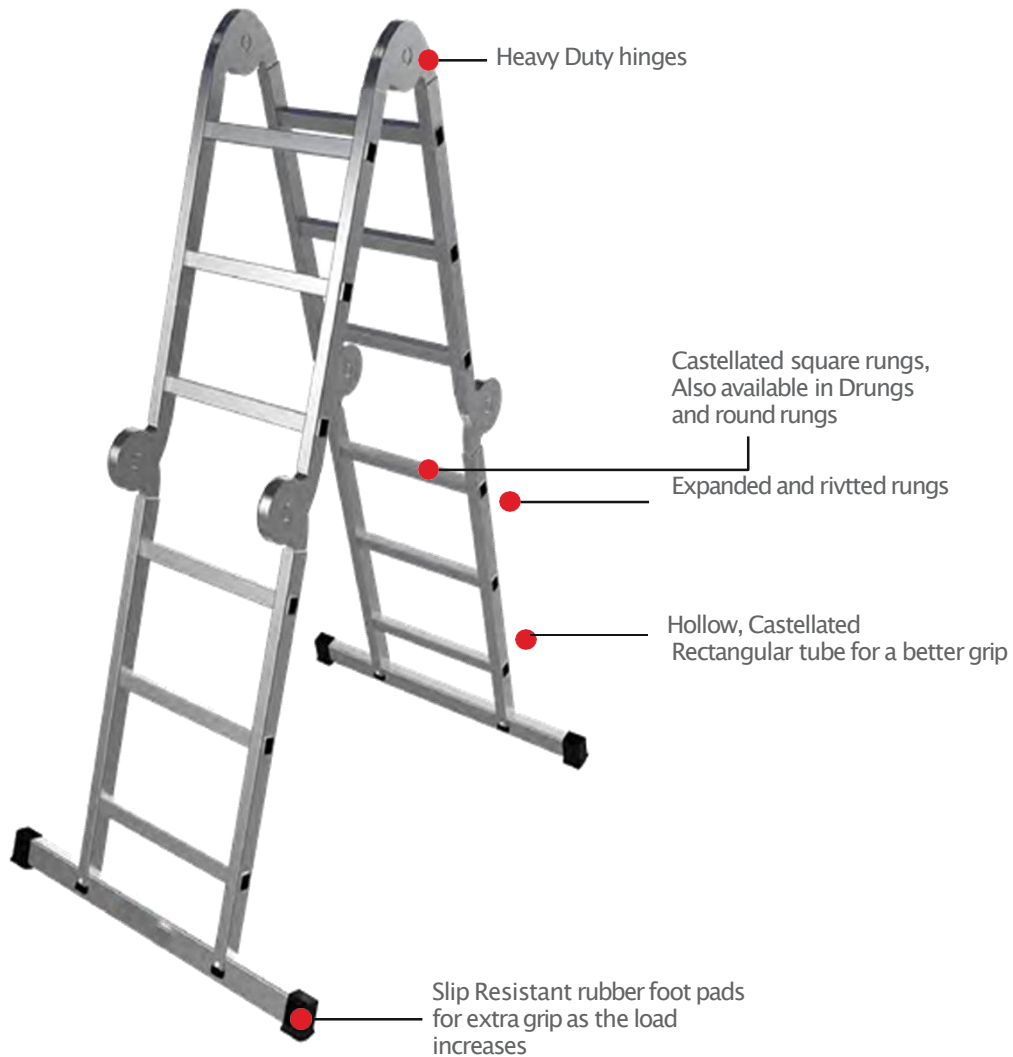


Ladder standard	EN131
<b>Class</b>	<b>Professional</b>
<b>Duty</b>	<b>Medium</b>
Material	Aluminium
Max Load Capacity	150 Kgs
Max Working Height	8.13 Mtr

# Multi-Purpose Ladder | Professional | Semi-Rigorous Use

All measurements in Mtr and weight in Kgs (Approx)

Code	Steps	Straight Height	Wrkg Ht Straight	A Type Height	Wrkg Ht A Type	Closed Width	Closed Height	Width	Base Width	Weight
SLA0122M08	2x4	2.60	3.40	1.27	2.49	0.27	0.75	0.36	0.67	9.40
SLA0122M12	3x4	3.77	4.57	1.84	3.06	0.27	1.05	0.36	0.79	11.00
SLA0122M16	4x4	4.98	5.78	2.40	3.62	0.27	1.35	0.36	0.91	12.20
SLA0122M20	5x4	6.20	7.00	3.00	4.22	0.27	1.65	0.36	1.03	13.80



Ladder standard	EN131
Class	Professional
Duty	Medium
Material	Aluminium
Max Load Capacity	150 Kgs
Max Working Height	7.00 Mtr

Aluminium Ladder

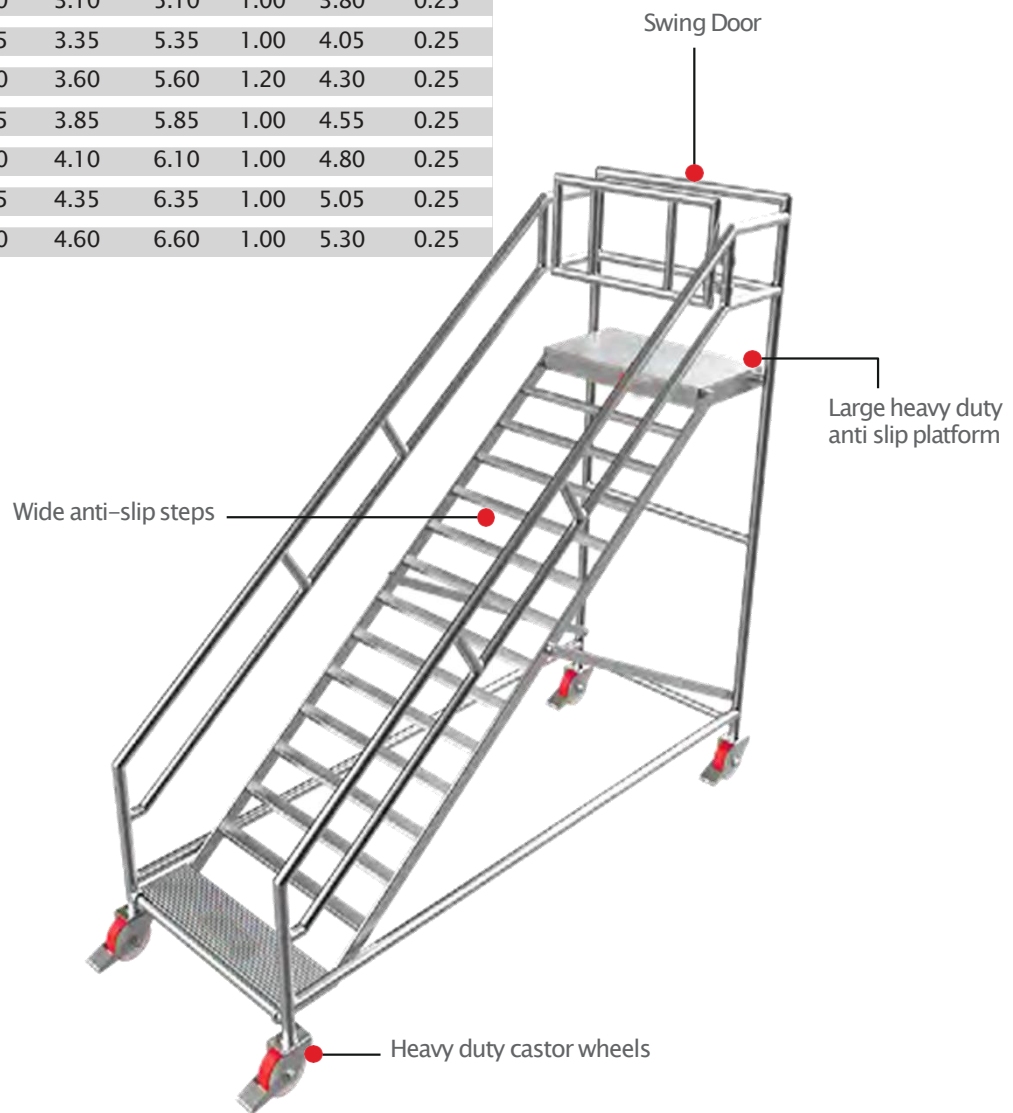


Not to be used near electricity

# Warehouse Ladder (Fixed) | Professional | Rigorous Use

All measurements in Mtr and weight in Kgs (Approx)

Code	Steps	Total Height	Platform Height	Working Height	Width	Length	Steps Distance
SA032206	6	2.35	1.35	3.35	1.00	2.05	0.25
SA032207	7	2.60	1.60	3.60	1.00	2.30	0.25
SA032208	8	2.85	1.85	3.85	1.00	2.55	0.25
SA032209	9	3.10	2.10	4.10	1.00	2.80	0.25
SA032210	10	3.35	2.35	4.35	1.20	3.05	0.25
SA032211	11	3.60	2.60	4.60	1.00	3.30	0.25
SA032212	12	3.85	2.85	4.85	1.00	3.55	0.25
SA032213	13	4.10	3.10	5.10	1.00	3.80	0.25
SA032214	14	4.35	3.35	5.35	1.00	4.05	0.25
SA032215	15	4.60	3.60	5.60	1.20	4.30	0.25
SA032216	16	4.85	3.85	5.85	1.00	4.55	0.25
SA032217	17	5.10	4.10	6.10	1.00	4.80	0.25
SA032218	18	5.35	4.35	6.35	1.00	5.05	0.25
SA032219	19	5.60	4.60	6.60	1.00	5.30	0.25



Ladder standard	EN131
Class	Professional
Duty	Heavy
Material	Aluminium
Max Load Capacity	170 Kgs
Max Working Height	6.60 Mtr

Aluminium Ladder



Not to be used near electricity



# Q-STAR ENGINEERING

INDUSTRIAL SERVICES & SOLUTIONS





## Contact Details:

Pakistan Head office / Factory: Plot # 373/3, Sector 5-A,  
Saeedabad Industrial Area, Baldia Town, Karachi.

Phone: +92 213 281 88 99

Mob 1/ WhatsApp: +92 330 321 88 99

Mob 2/ WhatsApp: +92 331 235 55 12

Mob 3/ WhatsApp: +92 310 114 08 91

Email: [info@qstareng.com](mailto:info@qstareng.com)

Website: [www.qstareng.com](http://www.qstareng.com)

Website



## UAE Office:

SQHET.LLC (Saghir Qureshi Heavy Equipment Trading LLC) Suite #  
203, Nasser Saif Al Marri Building, Naif Road, Al Murrar, Deira,  
Dubai, UAE.

Mob 1/ Whatsapp: +971 50 784 1597

Mob 2/ Whatsapp: +971 50 698 6541

Mob 3/ Whatsapp: +971 56 287 1069

Email: [sqhet.llc@gmail.com](mailto:sqhet.llc@gmail.com)

Website: [www.qstareng.com](http://www.qstareng.com)

UAE Warehouse: Plot # 613. Shed 1, Ras Al Khor Industrial Area,  
Duabi, UAE.

Mob / Whatsapp: +971 50 698 6541