

- a common yet deadly equipment

SS EN 131 Workgroup, presented by: Lim Cheong (20 mins)

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### Overview

- Ladder accidents in Singapore
- Legal requirements and ACOP
- Brief coverage of SS EN 131
- How to choose a conforming ladder

From the WSH National Statistics Report 2019, it was noted that a significant number of fall from heights injuries resulted from falls from ladders and the breakdown as follow:

It was also noted that there was an increasing trend in the number of injuries resulting from falling from ladders since 2015:

2019 report - No. of FFH injuries Vs. Falls from Ladders

Type of injury	Total number of incidents	Falls from ladders
Fatal injury	7	1
Major injury	62	29
Minor injury	619	431
Total	688	461





Increasing trend in the number of injuries resulting from falling from ladders since 2015

WSH National Statistics Report 201

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#### **Workplace Safety and Health Act**

Your sub-con sub-standard equipment may become your liability...

#### **Duty of occupier** of workplace

- **S11** It is the duty of every occupier of any workplace to take, so far as is reasonably practicable, such measures to ensure that —
- (b) all means of access to or egress from the workplace; and
- (c) any ... **equipment** ... kept on the workplace, are safe and without risks to health to every person within those premises..."

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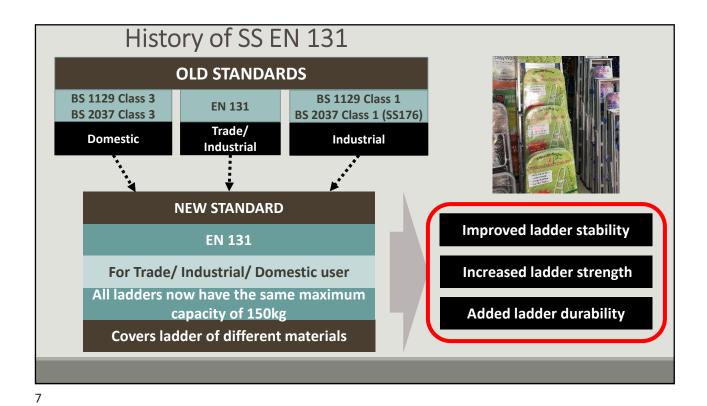
# Workplace Safety and Health (Work at Heights) Regulations 2013

**18.**—(1) Where a ladder is being used to carry out any work at height in a workplace, it shall be the duty of the responsible person ...

- (2) Every ladder in a workplace shall —
- be of good construction, sound material and adequate strength; (ACOP)
- be free from patent defects; and (Inspection & maintenance)
- be suitable and safe for the purpose for which it is intended.
   (Proper RA and right choice of ladder)

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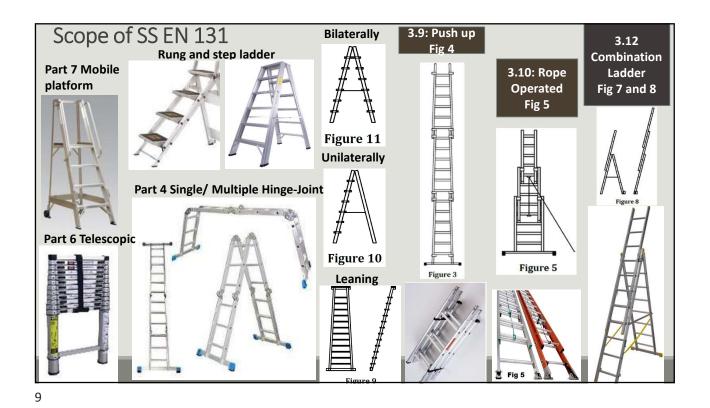
#### What is an ACOP? FRIDAY, NOVEMBER 19, 2021 First published in the Government Gazette, Electronic Edition, on 19 November 2021 at 5 pm No. 2470 — WORKPLACE SAFETY AND HEALTH ACT (CHAPTER 354A) WORKPLACE SAFETY AND HEALTH (APPROVED CODES OF PRACTICE) NOTIFICATION 2021 SS ISO 10218: Robots and robotic devices - Safety requirements 2016 In accordance with section 40B(3) of the Workplace Safety and Health Act for industrial robots (Cap. 354A), the Workplace Safety and Health Council hereby notifies that the Part 2: Robot systems and integration Council has approved the Codes of Practice set out in the Schedule, with effect SS ISO 45001: Occupational health and safety management 2018 from 01 December 2021. systems - Requirements with guidance for use 81. SS EN 131: Ladders - Part 1: Terms, types, functional sizes 2019 82. SS EN 131: Ladders – Part 2: Requirements, testing, marking 2019 83. SS EN 131: Ladders - Part 3: Marking and user instructions 2019 84. SS EN 131: Ladders - Part 4: Single or multiple hinge-joint 2019 85. SS EN 131: Ladders - Part 6: Telescopic ladders 2019 86. SS EN 131: Ladders - Part 7: Mobile ladders with platform 2019 87. SS EN 13374: Temporary edge protection systems - Product 2018 specifications - Test methods

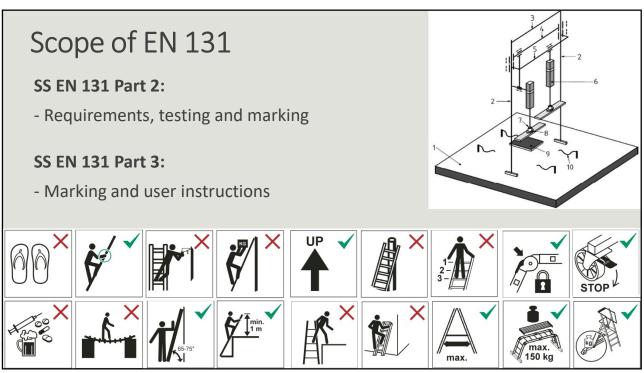


# Workplace Safety and Health (Work at Heights) Regulations 2013 (safe usage + adequate training)

**18** (3) The surface upon which any ladder (except for fixed ladders) rests or bears upon when used by a person shall —

- be stable;
- be level and firm; and
- be of **sufficient strength** to safely support the ladder and any person and load intended to be placed on it.
- (4) Every ladder in a workplace shall be so **positioned as to ensure its stability** during use.
- (5) Notwithstanding paragraph (4), every ladder which **leans** against a wall, building, structure or tree during use shall be **securely fixed or lashed**, or is firmly held by a person stationed at the foot of the ladder to prevent the ladder from slipping.







Do not stand on the top two steps/rungs of a standing ladder without a platform and a hand/knee rail.





Standing ladders shall not be used as a leaning ladder



Do not stand on the top three steps/rungs of a leaning ladder.

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### Ladder usage in Singapore

- · Ladder is a common and convenient equipment
- Accidents occurred at homes and workplaces
- Risks are underestimated
- · Ladder may not conform to code
- Lack of user instructions
- · Ladder safety awareness is lacking

#### Ladder usage – Duties & Liabilities

Occupier has a general duty to ensure ladder kept in the workplace is in good conditions. (S11.C)

**Principal** has to ensure their contractors take adequate safety and health measures in respect of any equipment or process used by the contractor and their employees. (S14A)

**Employer** has to ensure proper equipment provided (e.g. tested to SS EN 131 and suitable for the job), proper training & proper RA.

Note: Short duration work. Eliminate/ Substitute the use of ladder if possible.

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#### Questions:

- 1. Is your ladder conforming to code?
- 2. Is your ladder properly maintain?
- 3. Is your ladder suitable for the job?
- 4. Is your worker adequately trained?





Ladder Association Approved Training Centre

1. SAE Resources and Technologies Pte Ltd

PASMA Approved Training Centre in Singapore

- 1. BMS Specialist Training Pte Ltd
- 2. CYCC Access Systems Pte Ltd
- 3. Galmon (S) Pte Ltd
- 4. Global Training Services Pte Ltd -
- 5. SAE Resources and Technologies Pte Ltd

PASMA Approved Hire and Dealer member:

- 1. Instant Access System Pte Ltd Hire and Dealer
- 2. SAE Resources and Technologies Pte Ltd

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How to recognise ladders that are tested fully by SAC accredited laboratory?

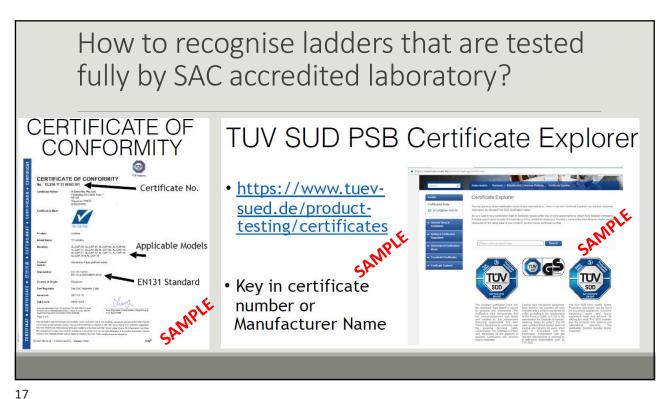
#### **RECOGNIZING EN131**

LTA HSE SAME GENERAL SPECS S37

#### CHECKING THE AUTHENTICITY OF EN131

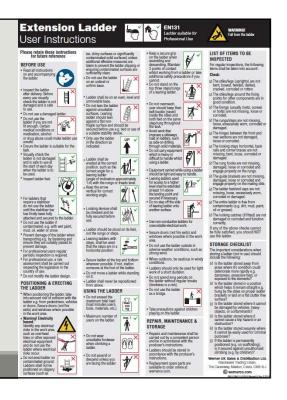
- 1. PSB STICKER
- 2. CERTIFICATE OF CONFORMITY
- 3. PSB ONLINE DIRECTORY

SAMPLE



#### **User instructions**

For every SS EN131 ladder, user instructions must be provided. It can be a hard copy or a link to reference materials online



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Customers can contact Toppan at Tel: 68269691.





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#### **Useful resources**

For the safe use of ladders, you may refer to the following for more information:

- Code of Practice for Working Safely at Heights <a href="https://www.tal.sg/wshc/Resources/Publications/Codes-of-Practice/Code-of-Practice-for-Working-Safely-at-Heights---English">https://www.tal.sg/wshc/Resources/Publications/Codes-of-Practice-for-Working-Safely-at-Heights---English</a>
- $\hbox{- Safe Use of Ladders Checklist -} {\color{blue} \underline{https://www.tal.sg/wshc/Resources/Publications/Checklists-and-} {\color{blue} \underline{Articles/Safe-Use-of-Ladders-Checklist}}$
- $\ Ladder \ Safety \ Pack \ \ \underline{https://www.tal.sg/wshc/Resources/Publications/Resource-Kits/Ladder-Safety-Pack}$

Please note that portable ladders have to conform to SS EN 131 ladder standard series.

Thank you