

User Guide

Trench Sheet



Product Information

Overview

The Conquip Trench Sheets are standard lap trench sheets for construction work and temporary deployment. The lightweight, overlapping trench sheet profiles ensure high strength to weight ratio to provide a safe environment for those working in excavations.

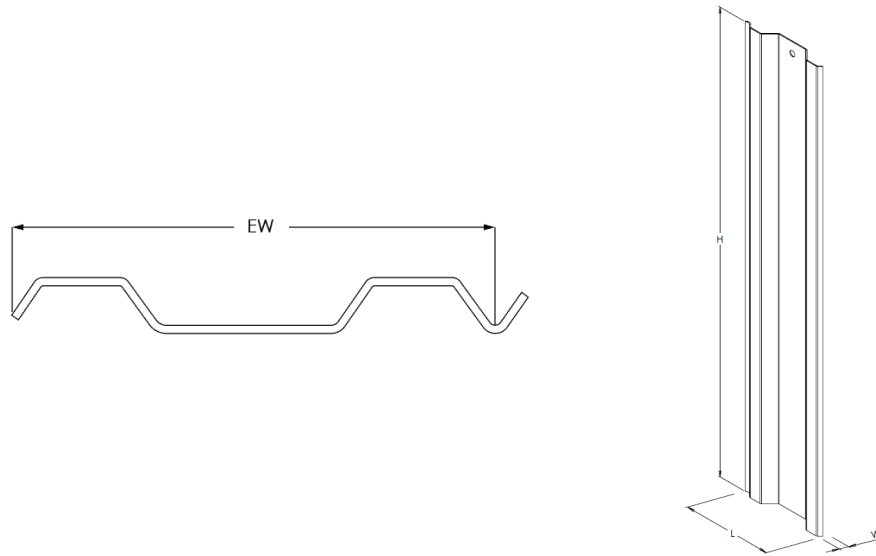
Typical applications include small trenches and excavations, including basements, sewerage, water, gas or other services. They are particularly useful for when services cross.

Key Benefits

- Available in a variety of lengths to suit specific site requirements.
- Quick and easy to use and set up using a Trench Sheet Driving Cap.
- Can be easily lifted and extracted using a Trench Sheet Extractor.

Product Information Specification

Item	Product Code
Trench Sheet 2000	TL900024
Trench Sheet 3000	TL900028
Trench Sheet 4000	TL900021
Trench Sheet 5000	TL900022

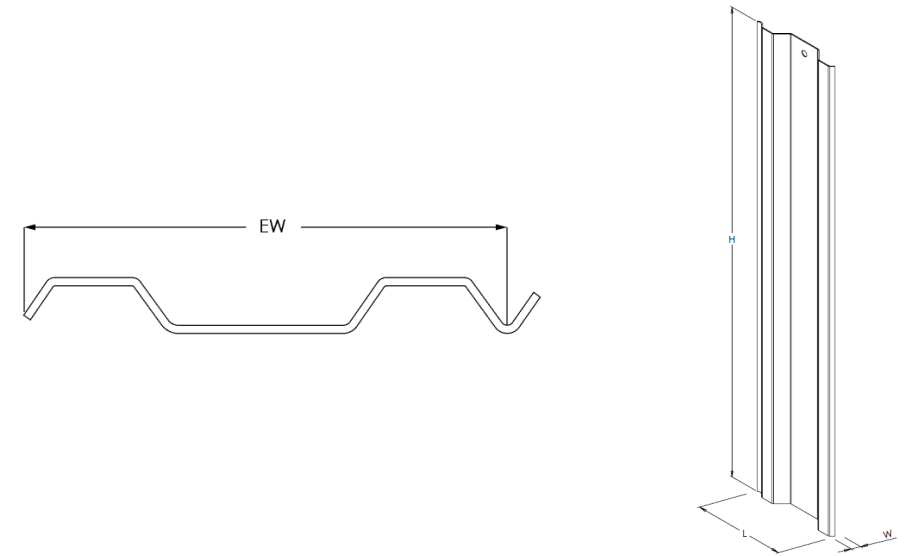


Product Code	Height	Width	Length	Weight	Steel Thickness	Effective Width
TL900024	2000mm	35mm	345mm	22kg	3.4mm	330mm
TL900028	3000mm	35mm	345mm	33kg	3.4mm	330mm
TL900021	4000mm	35mm	345mm	44kg	3.4mm	330mm
TL900022	5000mm	35mm	345mm	55kg	3.4mm	330mm

Weight (Per Metre ²)	Section Modulus (Per Metre Width)	Section Modulus (Per Sheet)	i Value (Per Metre Width)	i Value (Per Sheet)	Total Rolled (Metres Per Tonne)
10.8kg	48.3nm ³	15.9cm ³	81.7cm ⁴	26.9cm ⁴	92.1

Product Information Specification

Item	Product Code
Trench Sheet HD2 4000	TL900025
Trench Sheet HD2 5000	TL900023
Trench Sheet HD2 6000	TL900091
Trench Sheet HD2 7000	TL900079



Product Code	Height	Width	Length	Weight	Steel Thickness	Effective Width
TL900025	4000mm	90mm	764mm	217kg	8mm	742mm
TL900023	5000mm	90mm	764mm	217kg	8mm	742mm
TL900091	6000mm	90mm	764mm	325kg	8mm	742mm
TL900079	7000mm	90mm	764mm	380kg	8mm	742mm

Weight (Per Metre ²)	Section Modulus (Per Metre Width)
54.2kg	187.91cm ³

Original Working Instructions

Usage Instructions

Important Usage Notes

- The usage must be authorised by a suitably qualified supervisor.
- Some applications will require a steel waler or framework to hold the Trench Sheets in place, especially in situations of high ground pressure, or when an excavation is being dug deeper after installation of the sheets.

Usage Instructions

1. Connect a Trench Sheet Extractor, or suitable chain hook, to a drop chain from an excavator, or other suitable lifting apparatus.
2. Connect the Trench Sheet Extractor to the hole in the top end of the Trench Sheet, ensure it is fully tightened. Refer to the Trench Sheet Extractor User Guide for full instructions.
3. Carefully raise the Trench Sheet off the ground and transport to the excavation.
4. Lower the Trench Sheet down into the excavation, into required position.
5. Once the Trench Sheet is in position, gently push into the ground using an excavator boom.
6. Remove the Trench Sheet Extractor from the Trench Sheet. Take care not to buckle the sheets.
7. Using a Trench Sheet Driving Cap, drive the Trench Sheet into the ground as far as possible. Refer to the Trench Sheet Driving Cap User Guide for full instructions.
8. Repeat the steps above to pitch the remaining Trench Sheets to line the whole excavation edge. Line the long edges of an excavation first, then the short ends.
9. When pitching the Trench Sheets, ensure they overlap with each other.
10. To extract the Trench Sheets, attach the Trench Sheet Extractor to the sheet, ensure it is tightened and pull vertically, using the lifting apparatus.

Original Working Instructions

Safety Instructions

Basic Safety

A site-specific Risk Assessment, and lift plan where applicable, must be completed by the responsible person before using this equipment to control risks, produce a safe system of work and ensure safety for you, your colleagues and others. Your risk assessment will determine the correct Personal Protective Equipment (PPE) for the task you are doing. You must use it. Conquip recommends that you should wear:

- Suitable clothing
- Gloves
- Hard hat
- Protective footwear (steel toecaps)
- Safety glasses



Important Safety Notes

- Read these instructions before using this equipment. If there is anything you do not understand or if you have any concerns do not use this equipment. Contact your supervisor or Conquip Engineering Group for advice.
- You must check that you have considered all the safety requirements for the task you are doing and that this equipment is suitable.
- You must protect bystanders and the general public by preventing access to the working area.
- Do not use this equipment if you are tired, unwell or under the influence of alcohol or drugs. If you are taking any medicine or undergoing treatment you should inform your supervisor.

Usage & Transportation

- Never unevenly load this equipment.
- The weight of the equipment, together with its attachments, must be added to the weight of the load when calculating the total load that will be imposed on the lifting apparatus / operating machine.
- This equipment must be used in conjunction with the load ratings of the lifting apparatus / operating machine. (Refer to the manufacturers' load ratings and original working instructions).
- Make sure you know how to use this equipment and understand all aspects of its operation in case of emergency.
- This equipment weighs more than 25kg. Do not lift or manhandle without machine assistance.
- Do not operate this equipment near overhead power lines.
- Take care in confined spaces, near ceilings or similar hazards. This equipment was designed for vertical lifting. Do not drag, or swing.
- Before operating this equipment, check that you have enough space for you to work safely and make sure that the working area is clear of hazards, obstructions and personnel.
- Before lowering equipment make sure that the landing zone is clear and capable of accepting the size and weight of the load.
- Crush Risk. Keep hands and feet clear of the equipment at all times to avoid injury.
- Do not exceed the maximum Working Load Limit (WLL) shown on the serial plate. Ensure that the WLL on the individual lift points is not exceeded.
- Before lifting, check that the load is secured, balanced and stable. Allow space for the equipment to move if the load shifts.

Personnel

- All personnel must wear relevant personal protective equipment.
- Do not wear loose clothing or jewellery and tie back long hair to avoid becoming tangled or trapped in this equipment. You must make everyone in the work area aware of what you are doing.
- All personnel involved in the lifting operation must be competent to do so and must have been briefed in conjunction with this User Guide available from Conquip Engineering Group, the manufacturer.

Equipment Maintenance & Cleaning

- It is mandatory that the equipment is thoroughly examined regularly, by a qualified engineer, to ensure compliance with relevant regulation/s. (Conquip recommend to carry out thorough examination every six months).
- This product may incorporate various loose and detachable items of lifting gear. Refer to the separate requirements for the safe use of those items.
- When not being used, store the unit in a clean, upright condition and in a safe place where it will be protected from thieves and unauthorised users.
- This equipment must be inspected by the responsible person before each use and then regularly, as determined by your risk assessment or working practice. If you have any concerns about condition or suitability do not use.

Disclaimer

Warranty

The products supplied by Conquip Engineering Group are all guaranteed by a 12 month warranty.

Apart from where exceptions apply, Conquip Engineering Group promises to repair or replace any fault which the Company considers to be due to defective material or workmanship within 12 months of the date of sale, at no additional cost.

- Faults arising from unauthorised alterations (see modifications section below for full details).
- Damage caused by abuse, neglect, misuse or falling.
- Damage caused because of failure to follow transportation, storage, loading, cleaning or operating instructions.
- Replacement or repair of components due to fair wear and tear.
- Any consequential damage or wear arising from the use or fitting of additional or non-standard parts.

Modifications

If any third-party modifications or alterations, involving drilling, welding, cutting or distortion of materials in any form, are to be carried out on the product, Conquip Engineering Group must provide full written approval prior to the work being carried out.

Alterations, modifications, additions or repairs must be carried out by Conquip Engineering Group's recognised distributors, if they are not carrying out the work themselves.

Conquip Engineering Group operate a continuous improvement policy and therefore reserve the right to alter technical specifications and user guide details at any point without notice.

Conquip Engineering Group will not cover or reimburse any transportation and/or shipment costs to and from their premises or their recognised agents, or any material and/or labour costs for repair, replacement or assessment against a warranty claim.

Conquip Engineering Group and/or their directors, employees, insurers or recognised agents will not be held liable for consequential damages, losses or expenses relating to the inability to use the product correctly for its purpose.

EC Declaration of Conformity

In accordance with EN ISO 17050-1:2004

Declaration: As defined by the Machinery Directive 2006/42/EC and subsequent amendments

We, CONQUIP ENGINEERING GROUP, herewith declare that the following indicated equipment meets the fundamental health and safety requirements concerning the EU guide line(s), due to their design and manufacture.

This declaration will be rendered null and void if the machine is changed without our approval.

Signed:



Dated: 2018

Garry Critchley, Managing Director

**Product
Code(s):**

TL900024 / TL900028 / TL900021 / TL900022 /
TL900025 / TL900023 / TL900091 / TL900079

**EC Directive/
Regulation:**

2006/42/EC,
Lifting Operations and Lifting Equipment Regulations 1998
Provision and Use of Work Equipment Regulations 1998

**Harmonised
Standards:**

BS EN ISO 12100:2010
BS EN 13155

**General
Description/
Designation:**

Trench Sheets – TL900024 / TL900028 / TL900021 / TL900022
Trench Sheets HD2- TL900025 / TL900023 / TL900091 / TL900079

WLL:

TL900024 / TL900028 / TL900021 / TL900022 /
TL900025 / TL900023 / TL900091 / TL900079 = N/A

Important Notes

- This User Guide is for this Conquip product only.
- Any movements of the product must be thoroughly planned before the work commences to identify potential hazards and assess risk.
- All personnel involved in lifting and transportation of this product must have read this User Guide and must be properly briefed.
- You must be competent, alert and medically fit when using this equipment. If you have a medical condition, a mental or physical disability, you must seek advice from a medical professional before using this equipment.

Talking to us is easy

We're here to help

Call us on 0845 520 1101

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Conquip Engineering Group

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