

NEU-SHORE

Product Manual

INTRODUCTION:

The Neu-shore is a lightweight, positive locking, aluminum support strut which is activated pneumatically. Designed for horizontal support and stabilization, the Neu-shore will secure your rescue environment.

INSTALLATION

1. Determine the proper size and support configuration that will be required.
2. Make sure pins are out of piston and lock collar.
3. Place the Neu-shore in the desired position.
4. Connect regulator and hose to air supply. Slowly turn the pressure on. Check regulator to ensure there is adequate pressure, set regulator to desired outlet pressure. Hook quick connect coupler to Neu-shore.

Recommended Minimum Pressure for: Trench – 116 psi

Pressurize strut until heads are in contact with trench walls. Place pin in closest piston hole to collar. Turn collar until it is snug up against the pin. Tighten T-handles. Release the pressure and disconnect the air supply hose (secure accessory heads and bases with nails/screws/or bolts.)

5. Check to see that the Neu-shore is secure.

REMOVAL

Reconnect quick connect from supply hose. Repressurize, unscrew T-Handles and turn collar downward. Pull pins out of piston - de-pressurize system, disconnect coupler and remove from trench.

MAINTENANCE INFORMATION

Periodic cleaning and inspection should be standard procedure. This should also be done after every use.

1. Pull piston, complete with collar, from barrel.

NOTE: Hole in collar:

When separating the piston from the barrel for routine inspection or cleaning, putting the pin through this hole will prevent the collar from separating from the piston.

2. Remove any dirt, sand or water.
3. Inspect for any signs of damage. Be sure to check the following:

Nipple/Safety Limit Ports	Not plugged with debris or dirt
T-Handle on Collar	Threads are clean and operational
Pins	Make sure they are secure
Cup Rubber	Check to see if it is secure and round

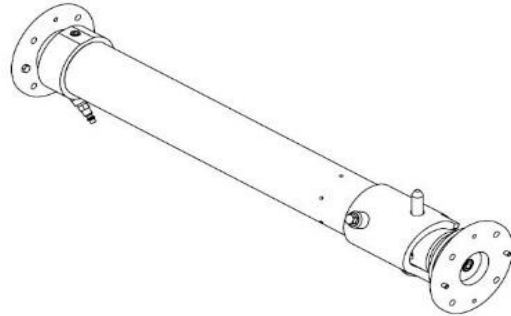
DEPTH RATINGS

Soil Type:	A,B OR C
Maximum Depth (D)	12' (3.7m)
Maximum Width (W)	12' (3.7m)

"A" soil - Hard, compact and very stable soils

"B" soil - Stable soil likely to crack or crumble

"C" soil - Loose sand/silt, fill, which stand vertical



WARNING!

**FAILURE TO COMPLY WITH MANUFACTURERS INSTRUCTIONS
WHEN USING THIS EQUIPMENT MAY LEAD TO INJURY OR DEATH**

NEU-SHORE CAPACITIES

- GWSS Neu-Shore operational pressures range are from 100 psi (690 kPa) to 300 psi (2068 kPa). These pressures will give an equivalent force of 740 lbs (3.3 kN) to 2,200 lbs (9.8 kN), respectively.
- GWSS Neu-Shore allowable axial loads on the struts once pinned are 19,000 lbs (84.5 kN) up to an 8' (2.44m) span and 14,000 lbs (62.3 kN) with a span range from 8' (2.44m) to 12' (3.66m). Factor of Safety 2:1

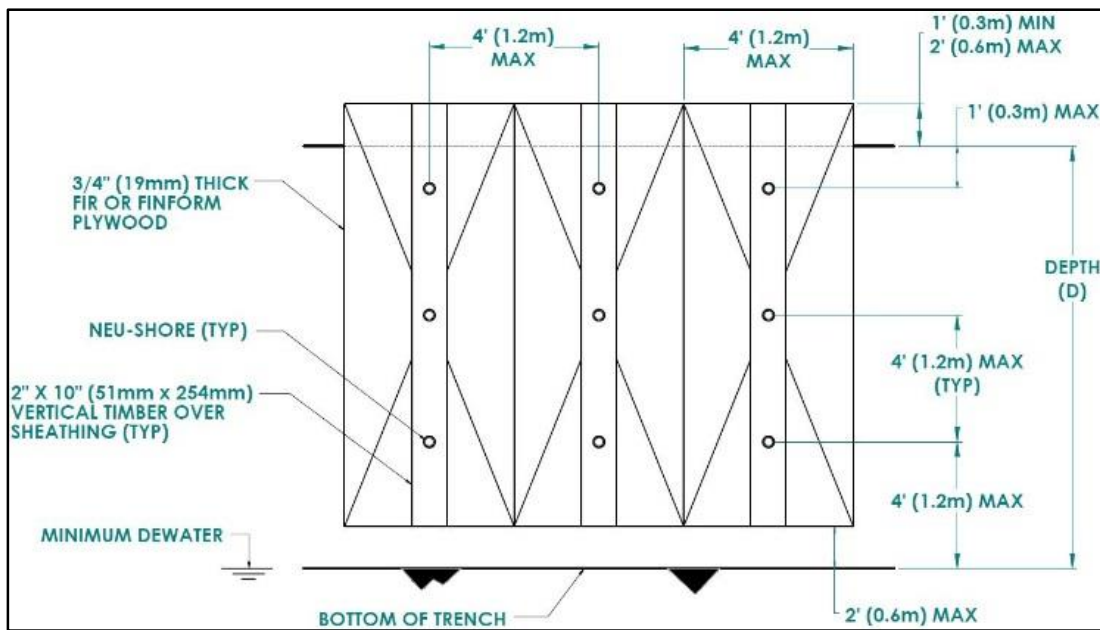
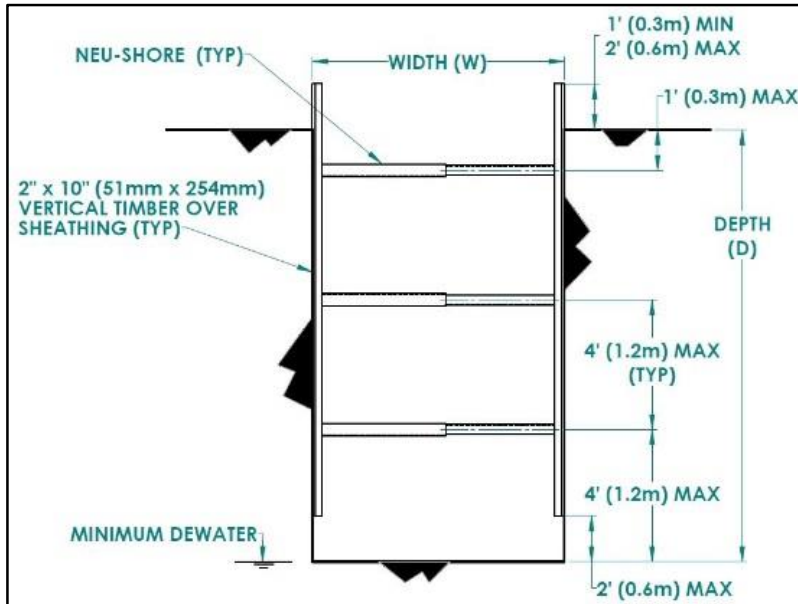
SAFETY NOTES

- This system can not be used in soils that are not able to stand vertical long enough to install system.
- Shoring shall only be installed and used while under supervision of a competent person, who is familiar with shoring equipment, soil classifications, hazard management and monitoring site conditions.
- Prior to installation a qualified person is required to confirm soil type in accordance with OHS guidelines and the details shown above.
- Worker can only enter, work and exit within the shored area of the trench.
- There shall be no voids behind the shores, uniform contact between the soil and system is required.
- The trench needs to be free of any standing water at all times.
- The bottom of the trench is required to be stable at all times. If the trench is not stable, a site specific drawing must be provided by a professional engineer.
- Safety lock out pins must be installed prior to use in the event of a pressure loss in the system.
- Shoring uprights can be installed with 2' (0.6m) remaining open at the bottom of the trench in stable soils.
- The depth chart is based on a maximum surcharge of 2' (0.6m) or 160psf on the system. If this surcharge is exceeded, the specified trench depth shall be reduced. The corrected depth shall be specified in a written report provided by a professional engineer.
- All system components must meet system pressure rating of 300 psi.

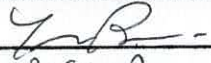
Liability Considerations

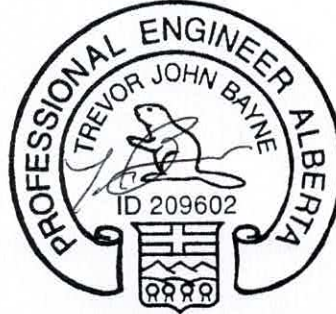
- GroundWorks Safety Systems (GWSS) shall not be liable for damage or injury caused by incorrect use or exceeding capacity of the shield system. No repairs or modifications to GWSS components may be performed without prior written consent.
- Only engineered spreaders and accessory components authorized by GWSS may be utilized with GWSS equipment.
- Each shoring component and associated attachments shall be inspected prior to, and during each use, following the GWSS inspection guidelines. Damaged components shall be immediately tagged and removed from service.
- Handling and operational sequences different than outlined in the GWSS operational instructions may damage components and void warranty.

INSTALLATION INSTRUCTIONS



CERTIFICATIONS

PERMIT TO PRACTICE ELLIS FABRICATIONS INC.	
RM SIGNATURE:	
RM APEGA ID #:	209602
DATE:	August 31/2023
PERMIT NUMBER: P014069	
The Association of Professional Engineers and Geoscientists of Alberta (APEGA)	



August 31/2023



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