

2023



**PRODUCT
GUIDE**

**REALLY DEEP
TRENCH PANELS**

REALLY DEEP TRENCH PANELS

WHAT ARE THEY?

Really deep panels are an ultra-high strength, expandable, stackable, closed sheeting system that reduces cofferdam/trench wall installation time, while increasing safety for rescue workers and the victims themselves.



The panels are made of fully extruded 6061 T6 aluminum, and weigh 10lbs. per foot (for example: 5' = 50lb and 8' = 80lb). Panels come in 5' and 8' sections (or any custom length in between) with an effective 16 inch width. Knuckles come in 8 foot sections. Panels stack in a compact configuration for easy transport.

WHY USE OUR PRODUCT?



- Using Really Deep panels to make a safe, stable work area will minimize installation time greatly when compared to traditional open sheeting.
- Panels and knuckles are reversible, so there is no upside down and no backwards
- With the closed sheeting system of Really Deep panels, seepage of wet or granulated soil types is eliminated; something that is near impossible with open sheeting systems
- Trench walls are stable both horizontally and vertically with the use of Really Deep panels
- Constructing around corners, T-trenches, and L-trenches is simplified.
- The use of strong backs are not required with this new and improved system.
- Really Deep Panels can be used with existing trench rescue systems and procedures such as the use of wooden whalers, cross struts, strong-backs, or air strut systems.

TIPS FOR USING REALLY DEEP PANELS

01

When starting to set trench panels on a straight line or simple opposing wall configuration, it is best to place the panels directly opposite one another.

If opposing panels are placed offset of one another, bracing becomes more difficult.

02

If it is a T trench or L trench configuration, it is best to start at a corner with a knuckle and place the interconnecting panels from both directions.

Starting at the corner, with a knuckle, will automatically center the rest of your build.

03

If you cannot start in a corner due to safety reasons, you can start from a safe zone and work your way to a corner.

Once at the corner, multiple knuckles or extra backfill may be needed in order to stabilize and shape the corner correctly.

04

Wall sections can be stacked vertically as long as there is a 12 inch overlap at the connecting seam.

05

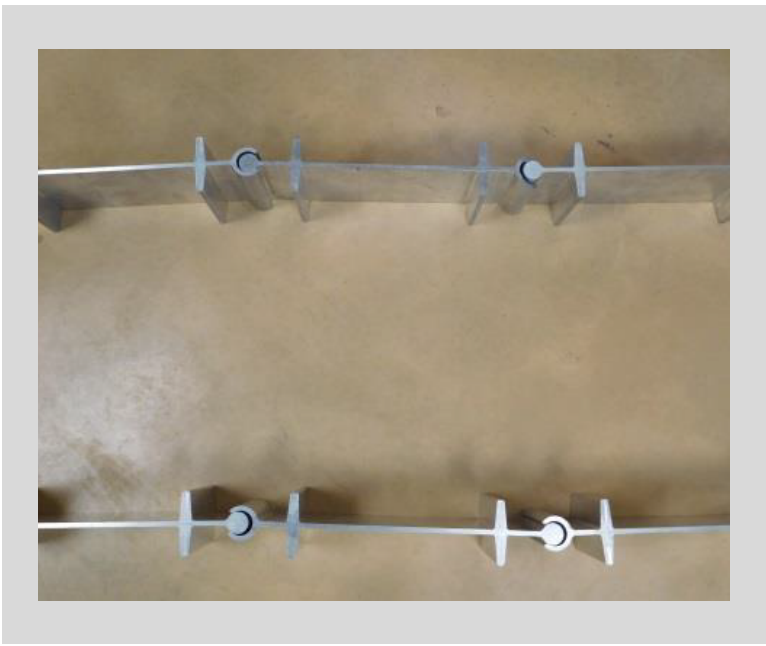
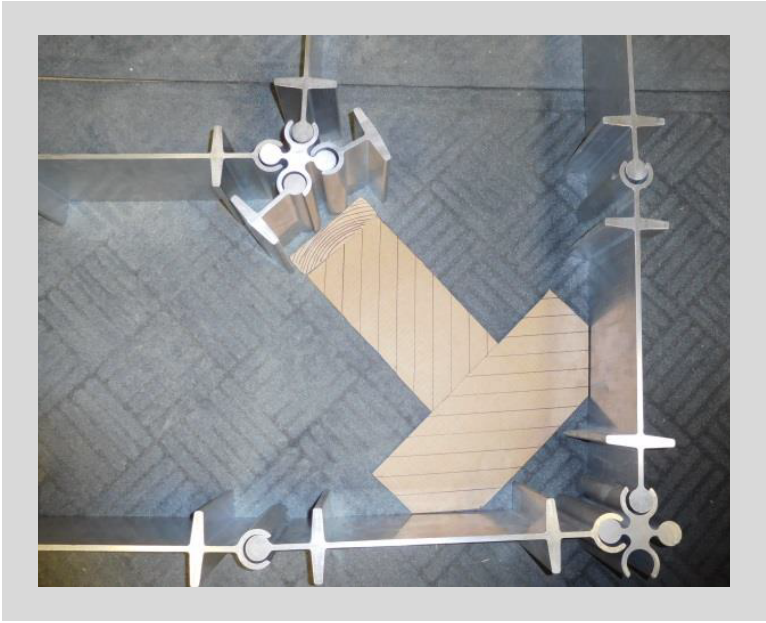
Strong-backs can be attached to Really Deep Panels to allow the use of wooden shoring.

Simply drill $\frac{3}{4}$ diameter holes in the panels to allow double headed nails to be driven thru the panel and into wooden strong-backs.

06

After use, pressure wash and dry panels prior to storage.

BASIC CONFIGURATIONS



REALLY DEEP TRENCH PANEL BRACING CHART

INTERLOCKING ALUMINUM UPRIGHTS

as supplied by Really Deep, LLC.

Trench Depth (ft)	Soil Type A (25 psf)		Soil Type B (45 psf)		Soil Type C60 (60 psf)		Soil Type C80 (80 psf)		*Allowable Panel Moment (ft-lb)
	Moment Created by Soil Load (ft-lb)	Maximum Spacing Allowed (ft)	Moment Created by Soil Load (ft-lb)	Maximum Spacing Allowed (ft)	Moment Created by Soil Load (ft-lb)	Maximum Spacing Allowed (ft)	Moment Created by Soil Load (ft-lb)	Maximum Spacing Allowed (ft)	
0 - 4	137	note 2	246	note 2	328	note 2	438	note 2	3411
>4 - 8	1095	8	1971	8	2628	8	2347	7	3411
>8 - 12	2147	8	3135	7	3243	6	3167	5	3411
>12 - 16	3203	8	2531	5	3375	5	2987	4	3411
>16 - 20	3369	7	3281	5	2880	4	2220	3	3411

*Maximum strength of a single trench panel (16" wide)

Chart Notes:

1. Chart designates maximum allowable spacing of cross members required to keep panel moment below compromising level of 3411 ft-lb.
2. All rescue personnel should refer to OSHA CFR 1926 Subpart P, NFPA 1670, NFPA 1006, and your organization's safety guidelines before installing Really Deep Trench Panels.
3. All other members of trench system and equipment are assumed to be of adequate strength to provide support for panels at bracing locations shown above.
4. All panels to be braced within 2 ft. of top and bottom of the trench.
5. Aluminum panel alloy shall be 6061-T6.
6. Chart applies to trench rescue panels installed per supplier's written specifications.

