



# ALTRA FRACK 3D

## THE MOST RESILIENT SOLUTION

Since 1895, NIEDNER has been redefining the flexible hoses industry by creating lighter, more versatile lay-flat hoses to overcome all kinds of challenges. What makes industries around the globe trust NIEDNER's solutions is first and foremost the high quality of the products. The hoses have been engineered to stand up under the most demanding applications, including intense heat and abrasion.

### 3D TECHNOLOGY

ALTRA 3D is truly a 2 in 1 flexible woven hose delivering the true performance of a double jacket hose into a single one. There is complete synergy between the two layers. The 3D technology resolves the well-known problems associated with the standard double jacket hoses - eliminating wrinkling and minimizing snaking. The ALTRA 3D STD was designed and customized for markets specific needs.

### HIGHEST LEVEL OF QUALITY

NIEDNER maintains the highest levels of quality in the design, manufacturing, and testing of all our products. As a result, our solutions exceed recognized international standards.

### UNIQUE SERVICES

Our solutions have many advantages, including our unique services and our engineering support, which is second to none.



Highly safe hose



Corrosion and maintenance-free



Short lead-times and quick to install



Reusable



Available in various lengths



Increased resiliency



Commitment to the environment



## FEATURES

- Lightweight and flexible, even below freezing point
- Abrasion and puncture resistant
- Wear indicator available

## DESIGN

- 3D technology for a single-layer 2-in-1 hose
- Also available in long length (up to 700 ft)
- Safe hose. Will not split in two upon bursting

## ADVANTAGES

- Temperature range: -65°F to 150°F (-53°C to 65°C)
- Lighter with the same burst pressure

## OUR PRODUCT LINE CERTIFICATIONS

NIEDNER's solutions are certified by accredited independent institutes



## ALTRA 3D SERVES THE FOLLOWING INDUSTRIES

- Mining
- Water Utilities
- Industrial
- Municipal
- Environmental
- Agricultural

## TECHNICAL DATA

Nominal Diameter		Average Weight	Average Flat Width		Average Wall Thickness		Internal Diameter		Service pressure	
Inches	Spec		All lengths		All lengths					
(mm)	#	Lb/ft	in	cm	in	mm	in	mm	PSI	KPA
12" (304mm)	F1121	3.07	18.86	48	0.21	5.3	12	305	200	1379

AVAILABLE COLORS: All

## CONTACT

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