



## ALTRA 3D

### THE MOST RESILIENT SOLUTION.

Since 1895, NIEDNER has been redefining the fire industry by creating lighter, more versatile lay flat hoses to overcome the challenges firefighters face. What makes firefighters around the globe trust NIEDNER's ALTRA solutions is first and foremost the high quality and resiliency of the products. The hoses have been engineered to meet the most demanding applications, including heat and abrasion resistant fire hoses.

#### PUT TO THE TEST OVER 250 WORLD'S LARGEST INDUSTRIAL FIRES

Designed for industrial protective applications in chemical and petroleum environments, our industrial ALTRA 3D line is engineered to keep you safe. The ALTRA 3D is the lightest and most flexible double jacket hose available today. We produce fire hoses that are ready to withstand the harshest elements. ALTRA 3D is truly a 2 in 1 flexible woven hose delivering the true performance of a double jacket hose into a single one, with a service test pressure of 400 PSI (2750 kPa). The 3D technology resolves the well-known problems associated with the standard double jacket hoses - maximizing kink protection, eliminating bunching and minimizing snaking.

#### 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 the recognized international standards.

#### UNIQUE SERVICES

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



Flexible hose



Increased durability



Best kink protection



Eliminates bunching



Lightest double jacket hose



Short lead-times



Commitment to the environment

## FEATURES

- Lightest and most flexible double jacket hose available
- Maximizes kink protection
- Eliminates bunching

## DESIGN

- 3D technology for a single-layer 2-in-1 hose
- Highly safe hose. Will not split in two upon bursting

## ADVANTAGES

- Meets NFPA:1961<sup>\*</sup> and API-15LF<sup>\*\*</sup> specifications
- Potable water contact: Certified NSF 61
- Lighter with the same burst pressure

<sup>\*</sup> NFPA: National Fire Protection Association

<sup>\*\*</sup>API: American Petroleum Institute

## 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		Pressure		Burst Pressure	AVG Elongation
Inches (mm)	Spec #	Lb/ft	All lengths		All lengths				Service test		Safety Factor	At 200 psi
			in	cm	in	mm	in	mm	PSI	KPA		%
1.5" HD (38.1 mm)	F1815	0.260	2.91	7.4	0.10	0.26	1.78	4.52	400	2750	>3	1
1.75" HD (44.45 mm)	F1817	0.290	3.11	7.9	0.10	0.26	1.87	4.75	400	2750	>3	1
2" HD (50.8 mm)	F1820	0.370*	3.39*	8.6*	0.10*	0.26*	2.16*	5.49*	400	2750	>3	1.5
2.5" (63.5 mm)	F1725	0.450*	4.37*	11.1*	0.13*	0.33*	2.75*	6.98*	400	2750	>3	1.5
3" (76.2 mm)	F1730	0.560*	5.12*	13.0*	0.13*	0.33*	3.38*	8.58*	400	2750	>3	2.5

\* Estimated Value

AVAILABLE COLORS: All

## CONTACT

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