



**UNCARVED BLOCK  
CLIMBING HOLDS**  
SINCE 1996

# Technical Data Sheet

## Climbing Holds - High-Impact Rigid Polyurethane Elastomer

### 1. Product Overview

Our holds are manufactured from a two-component, UV-stabilized polyurethane. Unlike traditional polyester resins, this high-impact material is designed to be virtually unbreakable under normal climbing conditions and resistant to the mechanical stresses of high-torque installation.

### 2. Physical & Mechanical Properties

The following data represents the material performance in its fully cured state (73°F / 23°C).

Property	ASTM Method	Value
Hardness	D-2240	75 Shore D
Tensile Strength	D-638	4,800 psi
Flexural Modulus	D-790	240,000 psi
Elongation	D-638	15%
Izod Impact (Notched)	D-256	2.2 ft-lbs/in
Specific Gravity	D-792	1.12 g/cm <sup>3</sup>
Color	Visual	Neutral / Amber (Pigmentable)

### 3. Installation & Safety Guidelines

To ensure the longevity of your holds and the safety of climbers, please adhere to the following installation specifications:

## Torque Specifications

Hold Size	Recommended Torque
Small / Screw-on	10 Nm (7.4 ft-lb) 15 Nm
Medium / Bolt-on	25 Nm (18.4 ft-lb) 35 Nm
Large / Macros	35 Nm (25.8 ft-lb) 45 Nm

## Recommended Hardware

- Primary Fixation: M10 or 3/8" Alloy Steel Socket Head Cap Screws
- Secondary Fixation: If hold has an additional screw hole, use 5mm or #10 screws suited to your application..

## 4. Maintenance & Care

- **Cleaning:** Wash with water. For deep cleaning of chalk buildup, a soft nylon brush or a low-pressure power washer (max 1500 PSI) may be used.
- **Inspection:** Routinely inspect holds for signs of loose bolts or structural damage. While PU is impact-resistant, any hold showing visible cracks in the bolt-well should be decommissioned immediately.