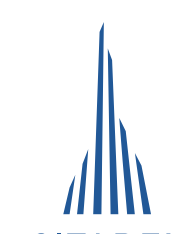


SPECIFICATIONS			
RENOUN CITADEL 106			
	(mm)	Variables	Other
Waist Width	106		
Flex		Length of ski	Medium
Weight		Length of ski	1,635g/ski
Tip Width	136		
Tail Width	126		
VibeStop™	12 channels 18.4% of core	Length of ski	
Sidcut	18-20m	Length of ski	
Core	Aspen		
Tip Rocker	423	Flex	
Tail Rocker	326	Flex	
Max camber	11	Weight of skier	

BEHIND THE NAME



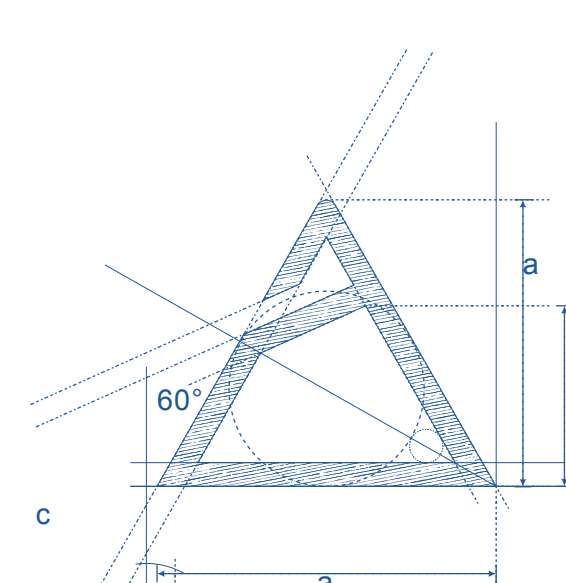
The name "Citadel" represents the duality between elegance & strength and alludes to the underlying complexities of joining two opposing forces in a quiet equilibrium. Quite literally "a beautiful fortress". The Citadel 106 itself is a physical testament to it's own name — high-strength carbon fiber balanced by the muting power of VibeStop™. It's tension is it's strength, and perhaps why this ski is considered such a unique & powerful tool.

MATERIALS

Bill of Materials (BOM)

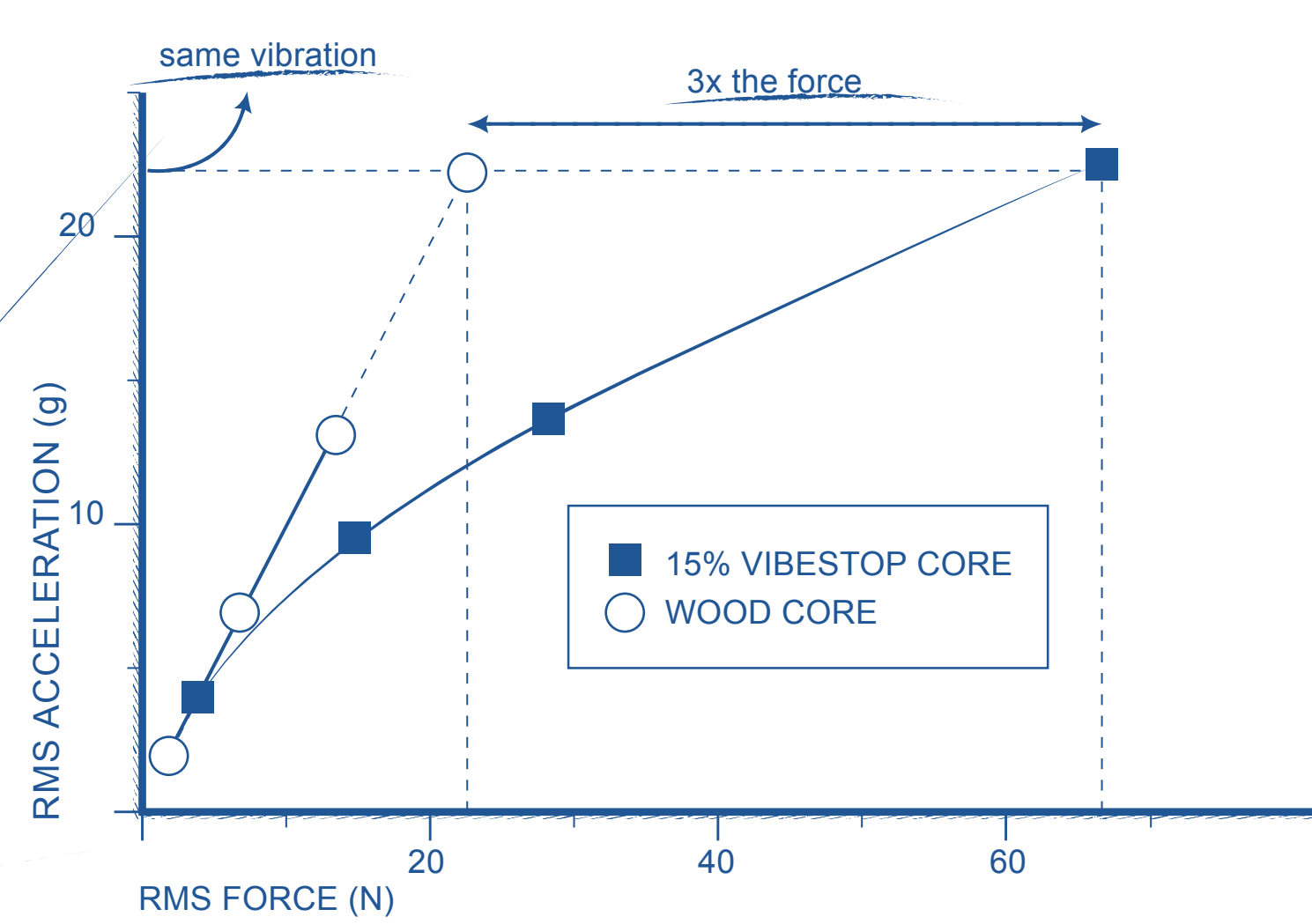
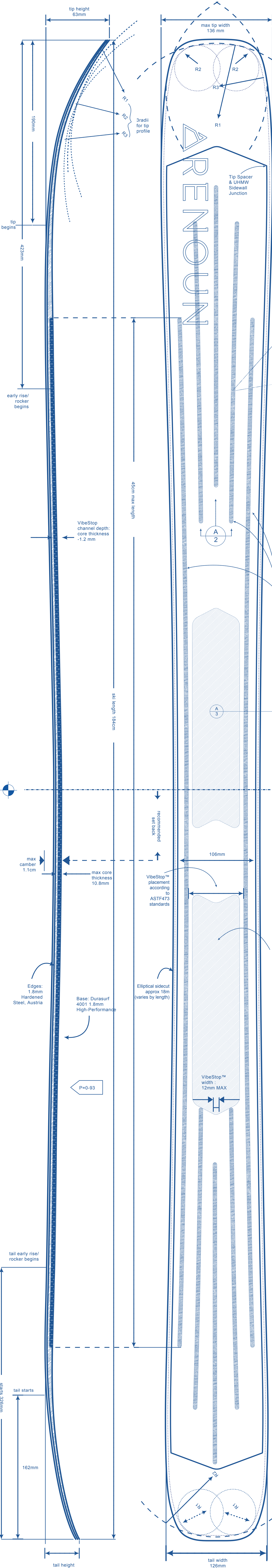
Base Structure: straight  
 Base Wax: wide spectrum  
 Base: 4001 Sintered  
 Edges: Profile #33 - 2 pcs - partial wrap.  
 Bottom rubber foil: VDS Rubber 15mmx0.2mmx-300mm. Over tip/tail sections.  
 Bottom reinforcement 1: VP 19oz biaxial carbon fiber  
 Core: aspen. Vertically laminated - humidity 1-1.9%.  
 Finger jointed. Allowed: lamination pocket top  
 Sidewall: UHMW - flat black  
 Spacers: UHMW/TPU - 2x290-325mm  
 Binding reinforcement: tital metal binding plates  
 Top reinforcement 1: VP 19oz biaxial carbon fiber  
 Topsheet: Nylon - matt & spot gloss

ANATOMY OF THE MARK

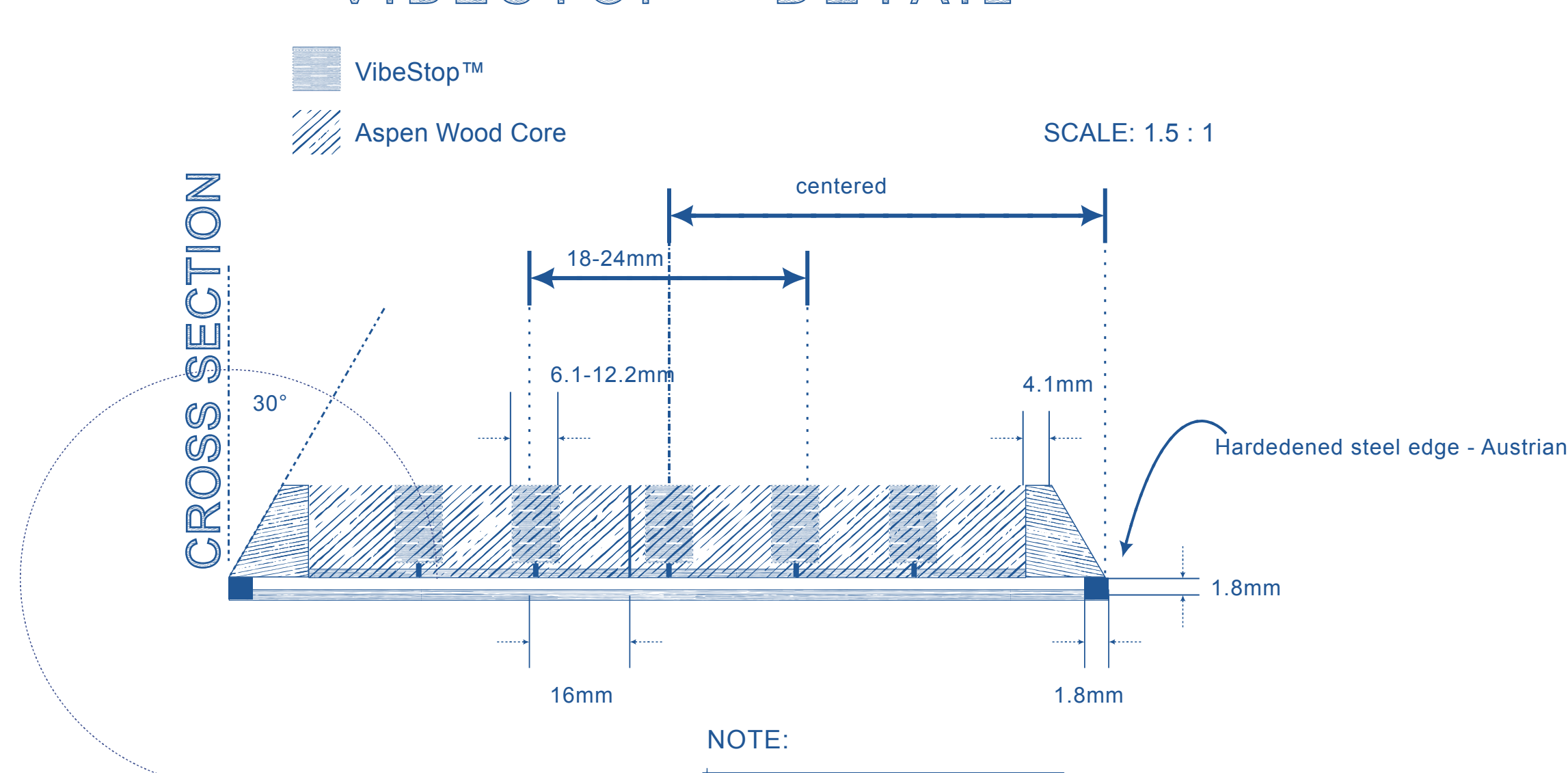


Reminiscent of a mountain, the Mark's triangular form represents power, authority and integrity. It holds deep meaning and commanding presence, yet remains simple enough to be embroidered on shirts & hats in a single stroke. An extremely versatile design.

Design time: >2 hours  
 Lead Designer: Andrew Washuta



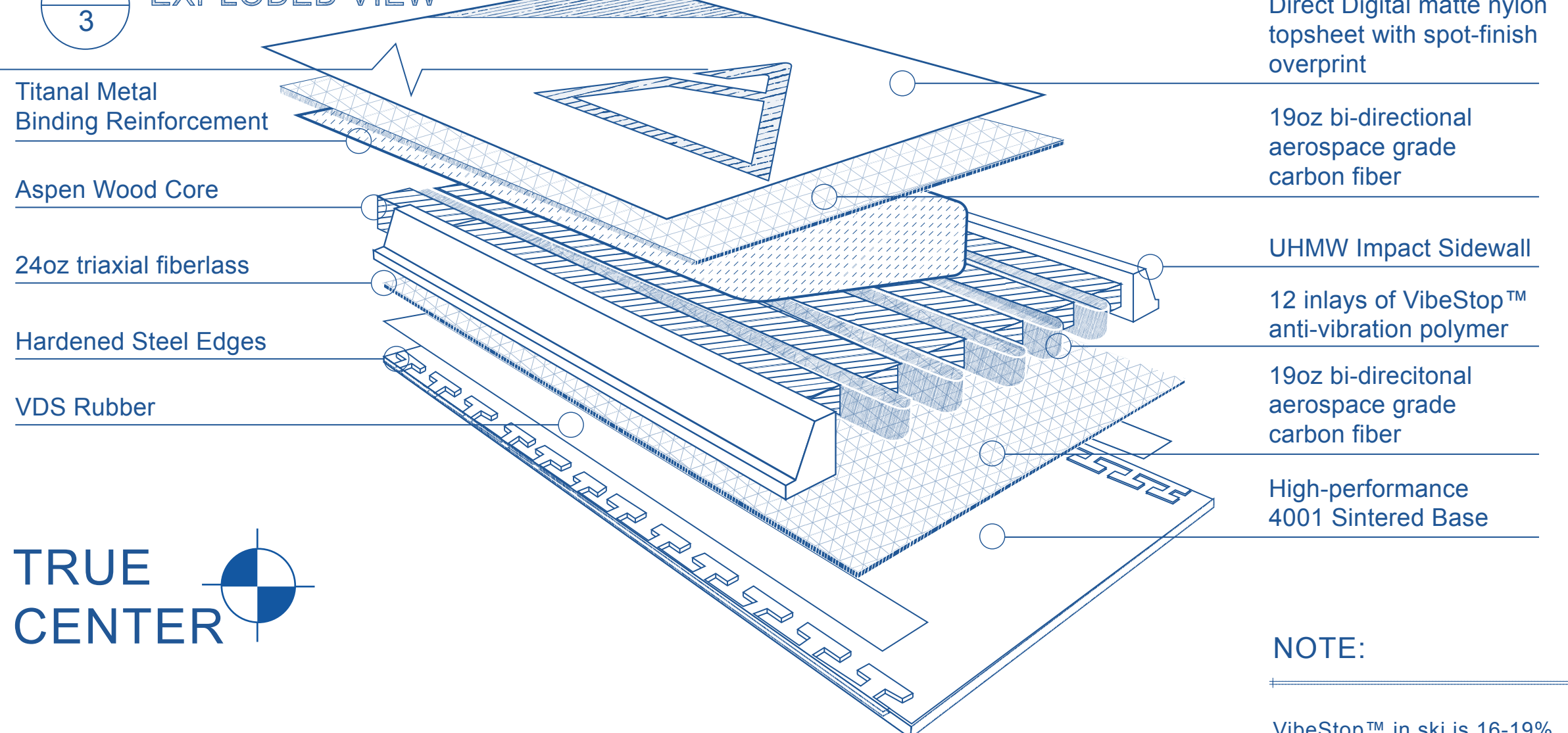
ANTI-VIBRATION VIBESTOP™ DETAIL



VibeStop™ SPEC DETAILS

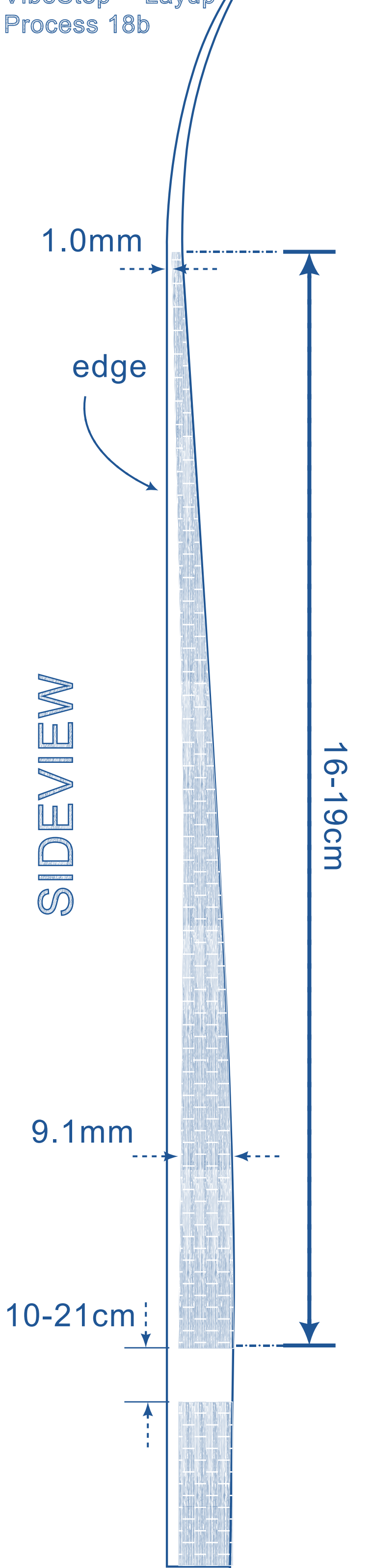
Density (lb/ft <sup>3</sup> )	10-25
Longest length of VibeStop™	45cm
Damping coefficient (ζ)	0<<1, variable
Vibration reduction	0-300% above control group
Compression force Deflection (psi)	5-12
Tear Strength (kN/m)	ASTM D 624 (1.8)
System	Underdamped
Delta at 32°	0.1-1.21%
Modulus at elasticity (E)	variable
Breakdown Rate	1/3 rate of Maple (Canadian)

EXPLODED VIEW



Recommended Boot Center

VibeStop™ Layout Process 18b



DESCRIPTION

These are blueprints of the Renoun Citadel 106 ski. The Citadel was a 'skunkworks' project started by Renoun as a restricted development branch of the company in 2014. The goal was to engineer new formulations of VibeStop™ and to combine them with other lesser-used materials. It's first iteration was debuted in 2018 — immediately winning global awards due to the unique construction and use of both elastomeric polymers and carbon fiber.

Layout of VibeStop™ was optimized during standardized testing and control groups were utilized in the aliation practice. Stability measured via damping (ζ) of ski based on response times during the testing cycle. Placement of VibeStop™ conforms to ASTM473 standard as originally published Sep 1st 1997.

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Renoun: to inspire™

LEGEND

	DIMENSION
	SKI OUTLINE
	EXTRAPOLATED DIMENSION
	SKI CORE
	VIBESTOP

CITADEL 106

STANDARD PRODUCTION DETAILS

09 NOV 1990

184CM  
CITADEL 106  
PRELIMINARY ONLY  
BURLINGTON, VT

VERMONT  
BURLINGTON

015.34  
06  
17.09.2004  
E. NYLUND  
0161  
1 of 4

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