

ADAPT Corporation
 1733 Woodside Rd., Suite 220
 Redwood City, CA, 94061, USA

ADAPT CORPORATION
 1733 Woodside Road, Suite 220, Redwood City, CA 94061 USA
 Tel: (650) 306 2400, Fax: (650) 306 2401
 E-mail: support@adaptsoft.com, Web site: www.adaptsoft.com

ADAPT-FELT Standard 2014
 ADAPT POST-TENSIONING STRESS LOSS & ELONGATION PROGRAM
 This program calculates the long-term and immediate stress losses in a post-tensioned tendon. It outputs the elongations at the stressing ends and the final stress profile along the tendon.

DATE: Nov 15, 2016 TIME: 09:49:41

PROJECT TITLE :
 LUDLOW VT DECK PANELS

SPECIFIC TITLE :
 TYPICAL PT TENDON



FRICTION & ELONGATION CALCULATIONS :

INPUT PARAMETERS :
 Coefficient of angular friction (meu)..... 0.23000 /radian
 Coefficient of wobble friction (K)..... 0.00020 rad/ft
 Ultimate strength of strand 270.00 ksi
 Ratio of jacking stress to strand's ultimate strength 0.57
 Anchor set 0.38 inch
 Cross-sectional area of strand 0.217 inch^2
 Total Number of Strands per Tendon..... 3
 Modulus of elasticity of strand 28500.00 ksi
 STRESSING AT RIGHT END

LEGEND :
 P = Tendon profile type defined as: 1=reversed parabola;
 2=partial/regular parabola; 3=harped; 4=general; 5=straight;
 6=extended reversed parabola; 7=cantilever down
 X1/L etc = horizontal distances to control points in geometry of the
 tendon divided by span length
 Stresses tabulated are after anchor set but before long-term losses.

TENDON ID, GEOMETRY AND STRESS PROFILE (Typical PT tendon)

LENGTH	< TENDON HEIGHT in.>	Horizontal ratios	<- STRESS (ksi) -->								
SPAN ft	P	start center right X1/L X2/L X3/L	start center right								
-1----	-2-----	-3-----	-4-----	-5-----	-6-----	-7-----	-8-----	-9-----	-10-----	-11-----	-12-