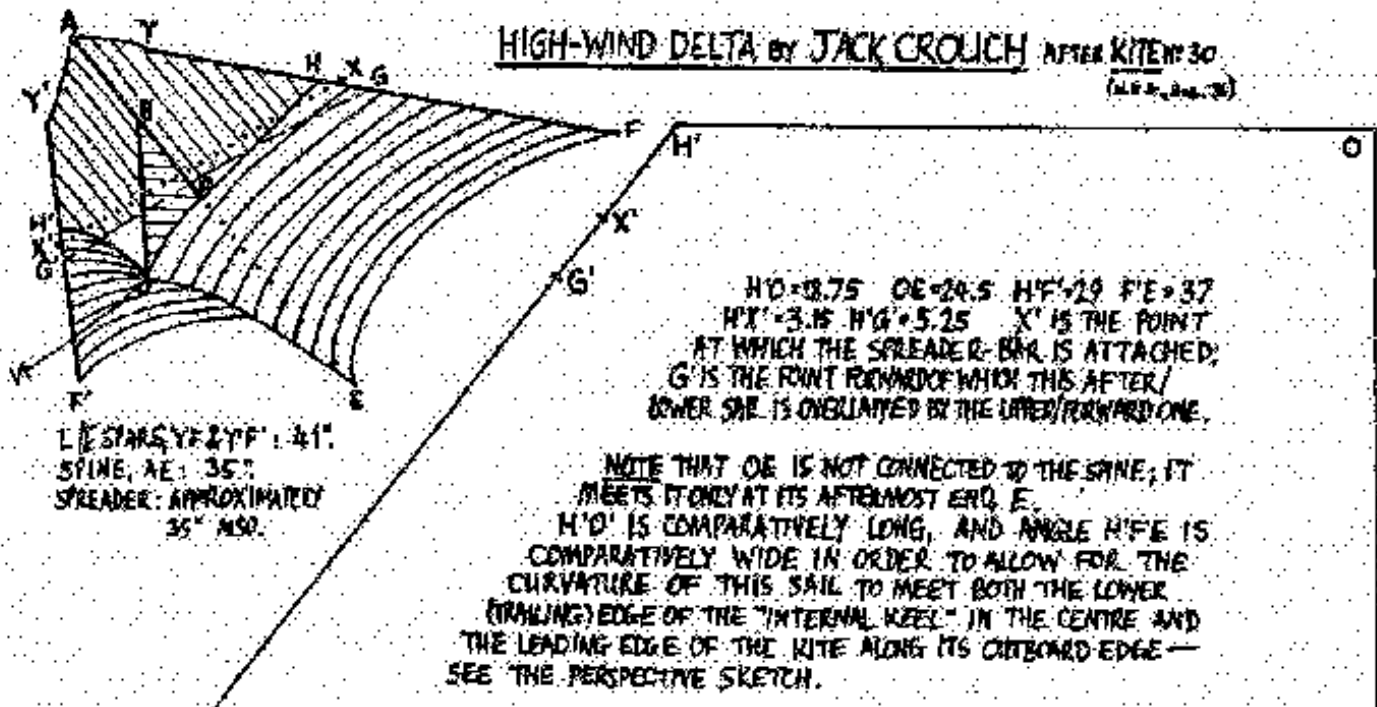


HIGH-WIND DELTA BY JACK CROUCH AFTER KITE #30  
(L.S. # 200.36)

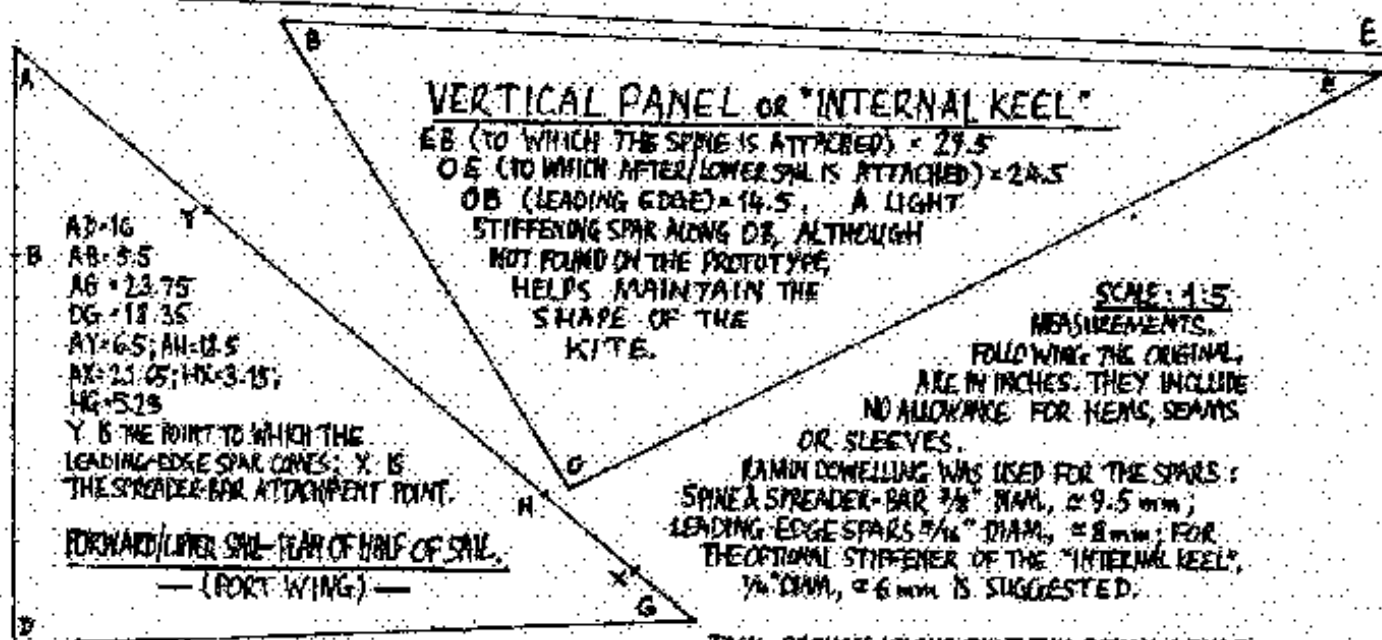


L.E. SPINE:  $AE: 35"$   
SPREADER: APPROXIMATELY  
 $35"$  MSO.

$H'D = 12.75$   $OE = 24.5$   $H'E = 29$   $F'E = 37$   
 $H'X = 3.15$   $H'G = 5.25$   $X'$  IS THE POINT  
AT WHICH THE SPREADER-BAR IS ATTACHED;  
 $G'$  IS THE POINT FORWARD WHICH THIS AFTER/  
LOWER SAIL IS OBLIQUED BY THE LATER/FORWARD ONE.

NOTE THAT  $OE$  IS NOT CONNECTED TO THE SPINE; IT  
MEETS IT ONLY AT ITS AFTERMOST END  $E$ .  
 $H'D$  IS COMPARATIVELY LONG, AND ANGLE  $H'E$  IS  
COMPARATIVELY WIDE IN ORDER TO ALLOW FOR THE  
CURVATURE OF THIS SAIL TO MEET BOTH THE LOWER  
(TRAILING) EDGE OF THE "INTERNAL KEEL" IN THE CENTRE AND  
THE LEADING EDGE OF THE KITE ALONG ITS OUTBOARD EDGE —  
SEE THE PERSPECTIVE SKETCH.

AFTER/LOWER SAIL: PLAN OF HALF OF SAIL.  
— (STARBOARD WING) —



VERTICAL PANEL OR "INTERNAL KEEL"

$EB$  (TO WHICH THE SPINE IS ATTACHED) =  $29.5$   
 $OE$  (TO WHICH AFTER/LOWER SAIL IS ATTACHED) =  $24.5$   
 $OB$  (LEADING EDGE) =  $14.5$ . A LIGHT  
STIFFENING SPAR ALONG  $OB$ , ALTHOUGH  
NOT FOUND IN THE PROTOTYPE,  
HELPS MAINTAIN THE  
SHAPE OF THE  
KITE.

SCALE: 1:5  
MEASUREMENTS.

FOLLOWING THE ORIGINAL,  
ARE IN INCHES. THEY INCLUDE  
NO ALLOWANCE FOR HEMS, SEAMS  
OR SLEEVES.

KAMIN DOWNING WAS USED FOR THE SPARS:  
SPINE & SPREADER-BAR  $3/8"$  DIAM,  $\approx 9.5$  mm;  
LEADING-EDGE SPARS  $1/4"$  DIAM,  $\approx 6$  mm; FOR  
THE OPTIONAL STIFFENER OF THE "INTERNAL KEEL",  
 $1/8"$  DIAM,  $\approx 3$  mm IS SUGGESTED.

$AD = 16$   $Y$   
 $AB = 3.5$   
 $AG = 23.75$   
 $DG = 18.35$   
 $AY = 6.5$ ;  $AH = 12.5$   
 $AX = 21.65$ ;  $HX = 3.15$ ;  
 $HG = 5.25$

$Y$  IS THE POINT TO WHICH THE  
LEADING-EDGE SPAR COMES;  $X$  IS  
THE SPREADER-BAR ATTACHMENT POINT.

FORWARD/LOWER SAIL—PLAN OF HALF OF SAIL.  
— (PORT WING) —

JACK CROUCH THINKS THAT THIS DESIGN, WHILST  
STABLE IN THE STEADIER WIND FOUND AT A REASONABLE ALTITUDE,  
IS PARTICULARLY LIKELY TO BE ADVERSELY AFFECTED BY GROUND  
TURBULENCE, SO A HIGH-START LAUNCH IS ADVISED.

The above reproduction first appeared in Rara-Avis, a small newsletter produced by John Spendlove in 1986.