

BAG # 6

THE THIRTY-SIX PLANS IN THIS BAG OF NUTS, 'NUMBER 6', ARE NOT PEANUT SCALE, BUT HAVE BEEN REDUCED TO PISTACHIO SCALE SIZE, (8 INCH WING SPAN). THEY WERE SELECTED BECAUSE WALT MOONEY LIKED THEM THE BEST OUT OF SEVERAL HUNDRED OF HIS RUBBER SCALE DESIGNS.

WHERE THERE ARE DIMENSIONS, PLEASE RECOGNIZE THAT, THE ACTUAL SIZES OF THE COMPONENTS ARE 8/13TH AS LARGE AS CALLED OUT. WHERE SHEET SIZE IS CALLED OUT AS ONE SIXTEENTH, USE ONE TWENTIETH OR ONE THIRTY-SECOND SHEET BALSA. SUBSTITUTE ONE TWENTIETH SQUARE FOR ONE SIXTEENTH SQUARE, ETC. WHEEL AND PROPELLER DIAMETERS SHOULD MATCH WHAT IS SHOWN ON THE PLANS. USE THE LIGHTEST WEIGHT TISSUE, OR CONDENSER PAPER FOR COVERING. USE VERY THIN TRANSPARENT PLASTIC FOR THE WINDOWS AND WINDSHIELDS. DON'T OVERDO PAINTING OR DOPING YOUR MODEL.

IF ALL THE STRUCTURE ON THE MODEL AND THE COVERING COULD BE SCALED DOWN, THE MODEL WEIGHT WOULD GO DOWN BY THE CUBE OF THE SCALE FACTOR WHILE THE SURFACE AREAS WOULD DECREASE BY ITS SQUARE AND WING LOADINGS WOULD DECREASE. FOR INSTANCE:
 $8/13 = .61538 = \text{SCALE FACTOR} = \text{DIMENSION MULTIPLIER}$
 $.61358 \text{ SQUARED} = .37869 = \text{AREA MULTIPLIER} = A$
 $.61538 \text{ CUBED} = .23304 = \text{VOLUME MULTIPLIER} = V$

THE WING LOADING MULTIPLIER WOULD THEN BE $V/A = .61538$ AND THE WING LOADING WOULD TURN OUT TO BE LESS THAN TWO THIRDS OF THE ORIGINAL PEANUT'S. SUCH A MODEL WOULD BE CAPABLE OF LONGER FLIGHTS THAN ITS PEANUT SCALE PREDECESSOR. UNFORTUNATELY THINGS LIKE TISSUE PAPER WILL ONLY DECREASE IN WEIGHT BY THE AREA MULTIPLIER. EVEN SO, THESE MODELS HAVE THE POTENTIAL FOR LONG DURATION FLIGHTS, AND THEY'LL FLY SAFELY IN SMALLER INDOOR SITES.