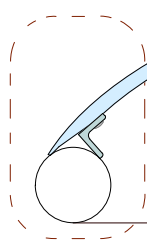


RIB PATTERN IS PRINTED ON 4 SHEETS OF LETTER SIZE PAPER AT FULL SCALE. SHEETS ARE COMBINED INTO A SINGLE FULL SIZE TEMPLATE. RIBS ARE COMPARED TO THIS PATTERN AS THEY ARE FORMED BY HAND BENDING OR USE OF A VICE, MANDREL., TREE TRUNK, CAR TIRE, ETC. FORMING BATTENS BY HAND TO A PATTERN IS A COMMON HANG GLIDER PRACTICE, THIS IS THE SAME. IT IS NOT A HIGH PRECISION PROSESS.

VIEW A,
SEE BELOW

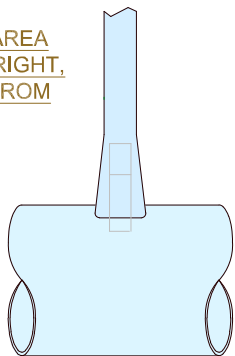


TYPICAL WING RIB ASSEMBLY,
VIEWED FROM LEFT SIDE, MAKE 29

RIB TUBE, 3/8 X .035, ABOUT 41 IN.
LONG. OVALIZE RIB TUBE ENDS
TO LIE FLAT ON SPAR TUBES

REAR SPAR TUBE

SAME AREA
AS AT RIGHT,
SEEN FROM
FRONT

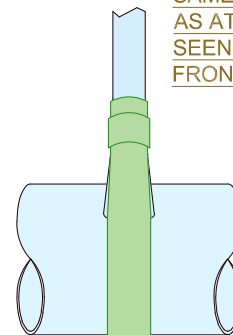


VIEW A
SEE
ABOVE

RIB STOP FROM B3S1,
RIVET 1 AT EACH END
OF RIB



SAME AREA
AS AT RIGHT,
SEEN FROM
FRONT



VIEW A, FROM
DRAWING ABOVE,
ATTACH RIB TO
SPAR, USE SAME
METHOD FOR
REAR SPAR

ATTACH RIB ONTO SPAR TUBE USING 1/2 IN. WIDE FIBERGLASS TAPE (CUT FROM 1 IN. TAPE). APPLY TAPE AROUND SPAR TUBE & RIB AS SHOWN. BOND WITH WET LAY UP OF EPOXY, 42 PLACES. (RIBS ARE GENERALLY BONDED ONTO SPARS RATHER THAN RIVETED IN ORDER TO AVOID DRILLING HOLES IN CRITICAL AREAS OF THE MAIN SPAR TUBES, WHICH COULD WEAKEN THEM.)

B4S4

WING RIBS

BLOOP 4
ULTRALIGHT
AIRPLANE

M. SANDLIN,
AUGUST 21
2016