

YIN-YANG

Designed By: Terry Dunn
Drawing By: Dan Sponholz
Version: 1.0
Date: 2020.09.21



General Specifications:

Length: 29.5 in (749 mm)
Center of Gravity: 2.0 in (51 mm)
Wingspan: 30.0 in (762 mm)
Wing Area: 233 in² (15.0 dm²)
Dry Weight: 12.5 oz. (355 g)
All Up Weight: 15-20 oz. (425-567 g)
Wing Loading: 9.3-12.4 oz/ft² (28-38 g/dm²)
Wing Cubic Loading: 7.3-9.7

Recommended Settings:

Channels: 4 (T A E + Differential)
Throws: High = +/- .5"
Low = +/- .25"
Expo: 30%

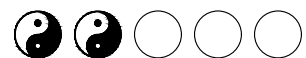
Recommended Electronics:

Motors: 2X 75-150 watt
Propellers: 2X 5 x 4.5 BN Master Airscrew
ESCs: 2X 8 amp min.
Servos: 3X 9 gram
Batteries: 2X 450-850 mAh 2-3S LiPo

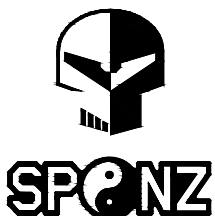
Material:

This model is designed to be built with 3/16 inch thick x 20 x 30 inch ADAMS foam board with a weight per sheet of approximately 4 oz. The foam board can be purchased from Flite Test or local Dollar Tree stores. Use of heavier foam boards may affect flight performance.

BUILD SKILL LEVEL:



PILOT SKILL LEVEL:



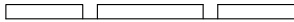
Yin-Yang: Tile A Key

A1	A2	A3	A4
A5	A6 □	A7 □	A8

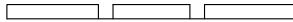
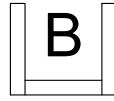
A9	A10	A11	A12
A13	A14	A15	A16

Drawing Key

FOLD TYPES



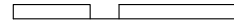
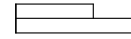
A - FOLD (ABOVE)



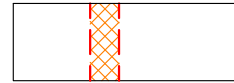
B - FOLD (BESIDE)



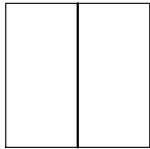
C



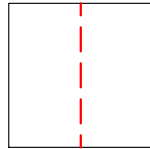
C - FOLD (COVER)



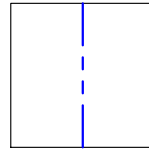
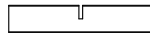
LINE TYPE/COLOR



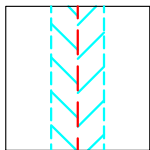
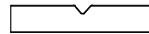
CUT



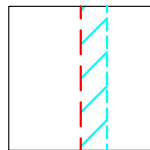
50% SCORE



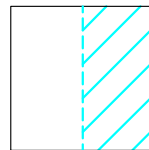
CREASE



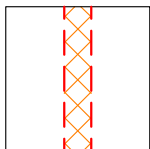
45° DOUBLE
BEVEL



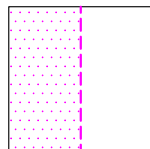
45° SINGLE
BEVEL



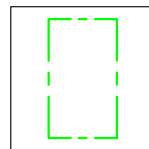
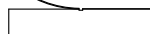
EDGE
BEVEL



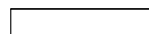
CAVITY



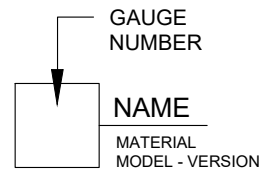
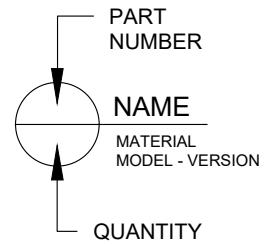
REMOVE
PAPER



REFERENCE/
OPTIONAL

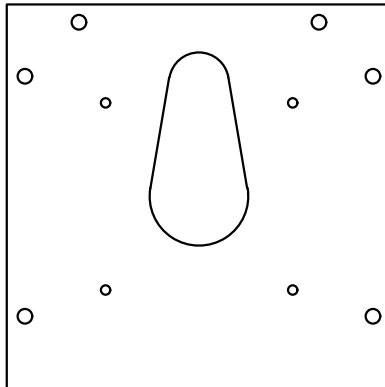


SYMBOLS

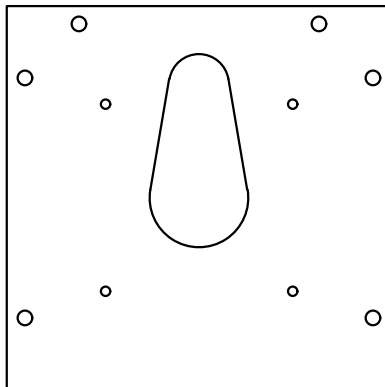


Yin-Yang: Wood Parts

HOBBY GRADE PLYWOOD
3/32" (2.4 mm) THICK

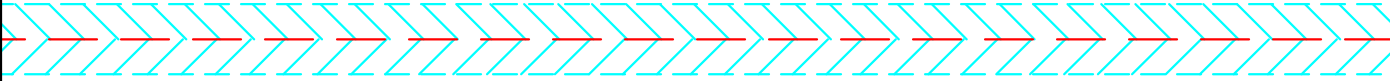


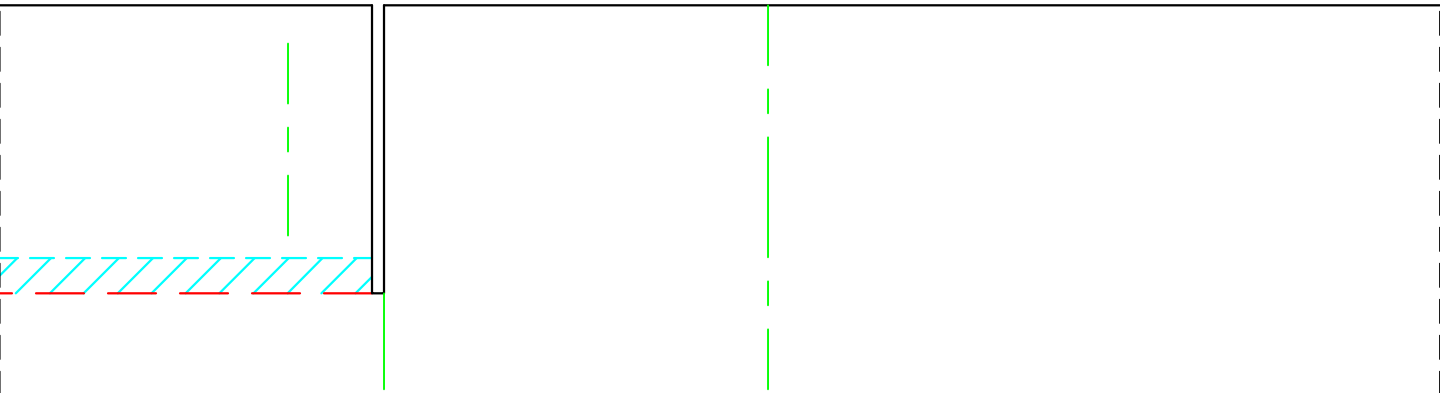
PLYWOOD FIREWALL
2 REQUIRED



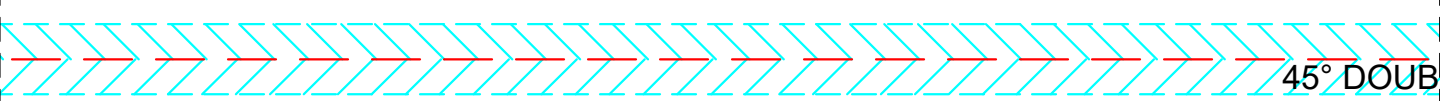
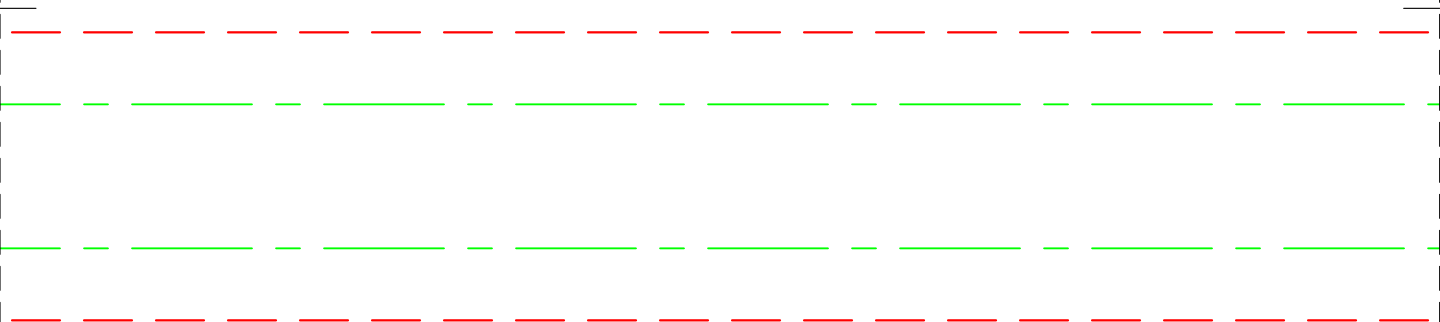


45° SINGLE BEVEL

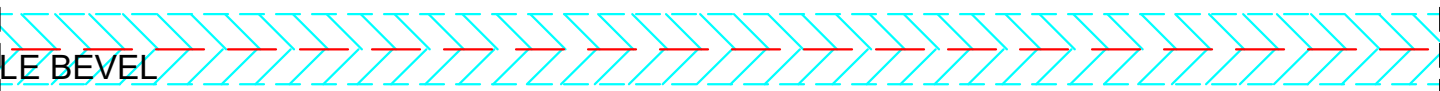
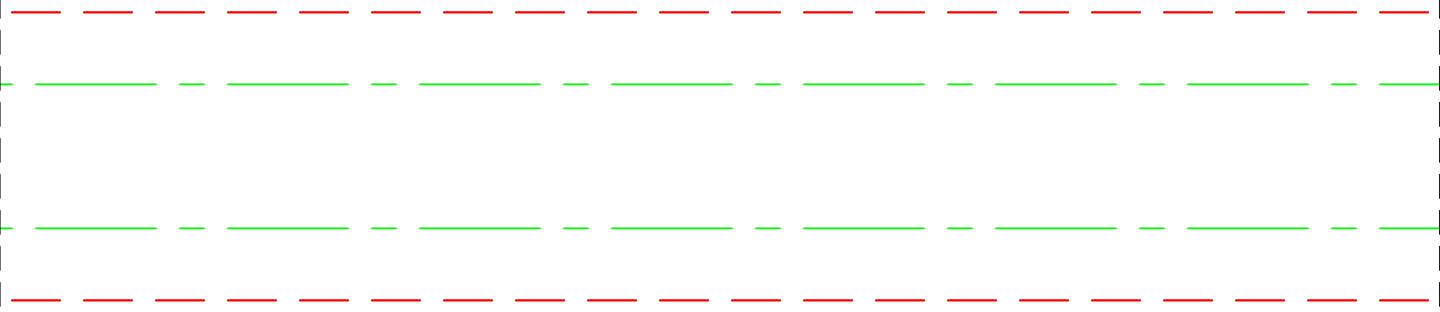
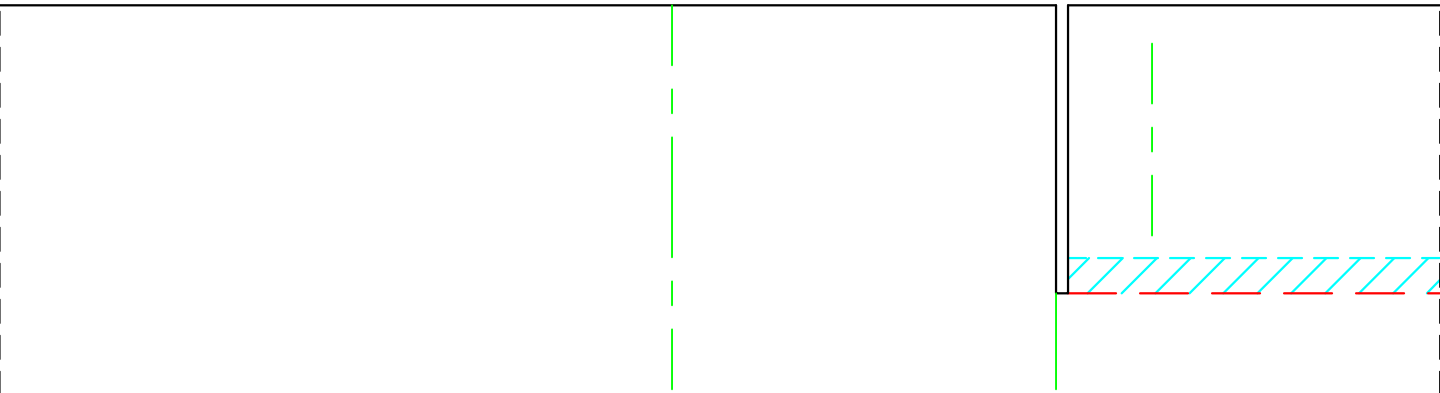




1 WING
1 FOAM BOARD
YIN-YANG - v.1.0



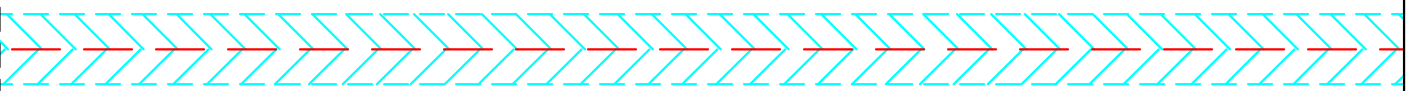
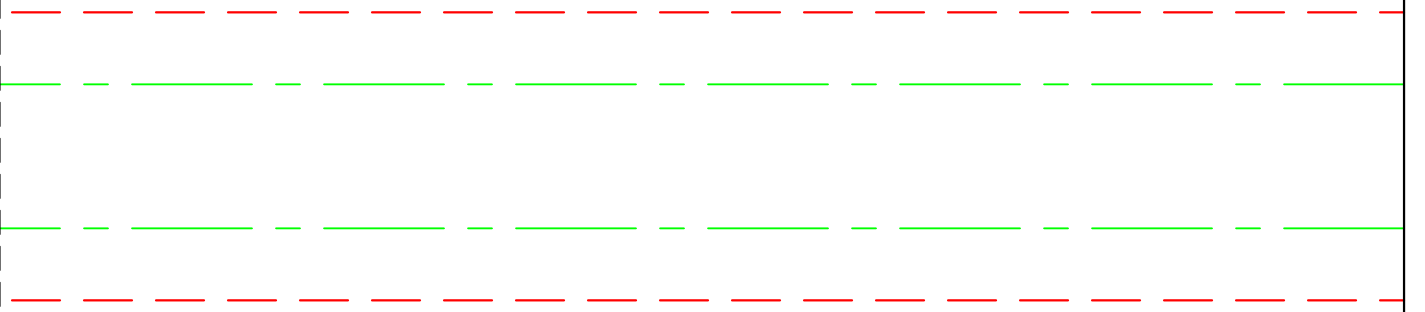
45° DOUB



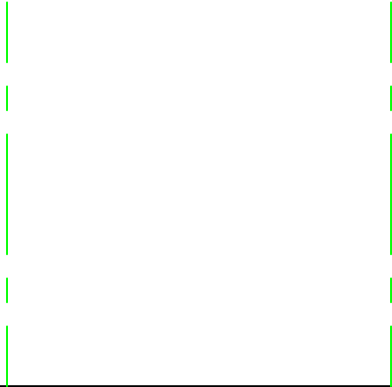
LE BEVEL



45° SINGLE BEVEL







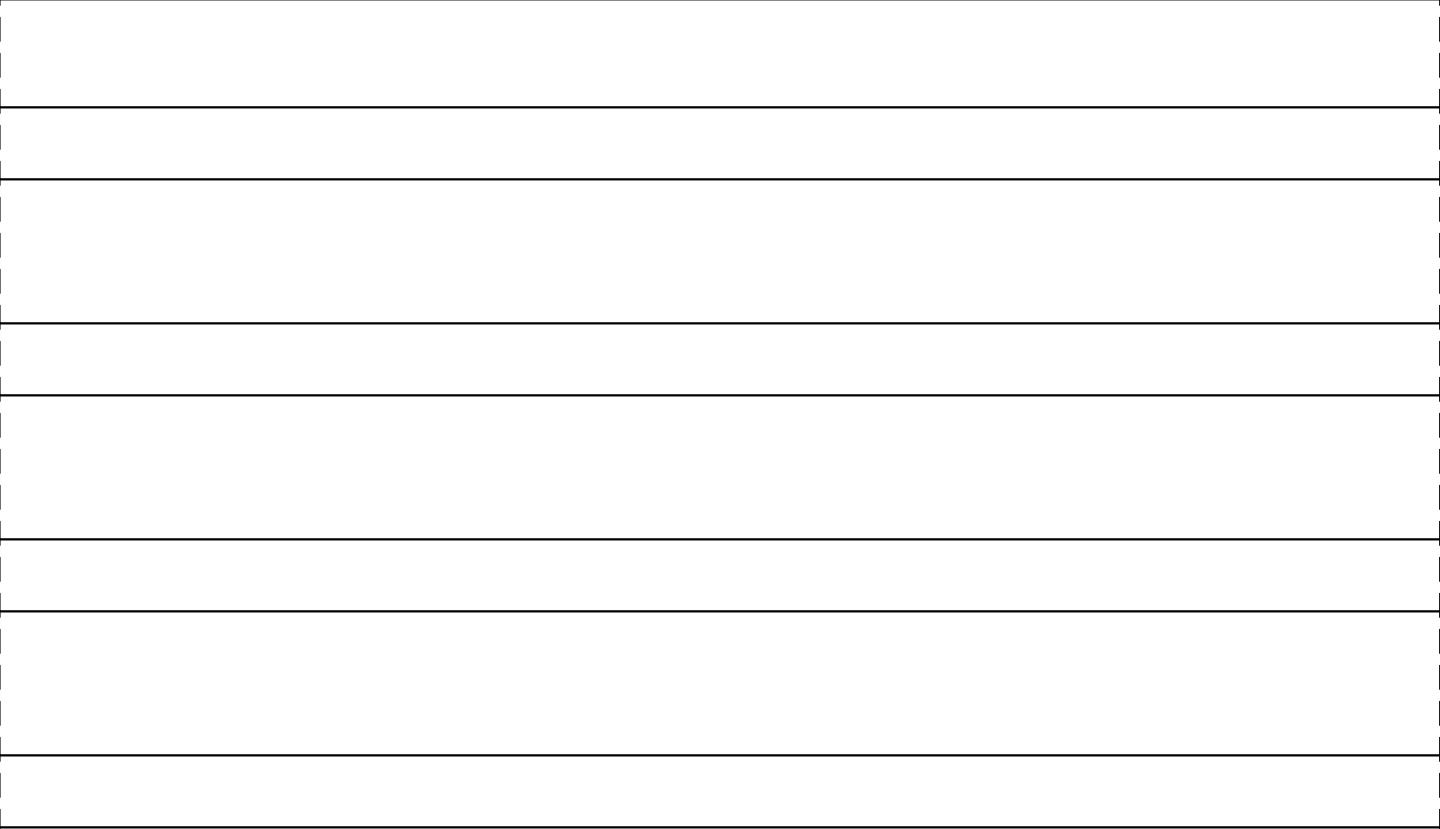
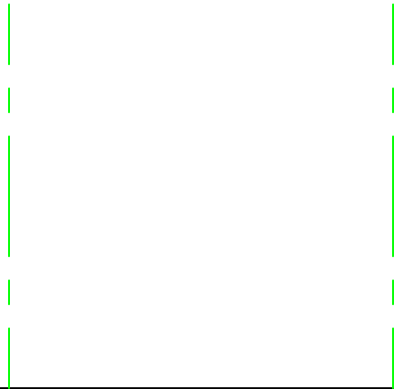
2 WING SPAR
4 FOAM BOARD
YIN-YANG v.1.0

2 WING SPAR
4 FOAM BOARD
YIN-YANG v.1.0

2 WING SPAR
4 FOAM BOARD
YIN-YANG v.1.0

2 WING SPAR
4 FOAM BOARD
YIN-YANG v.1.0





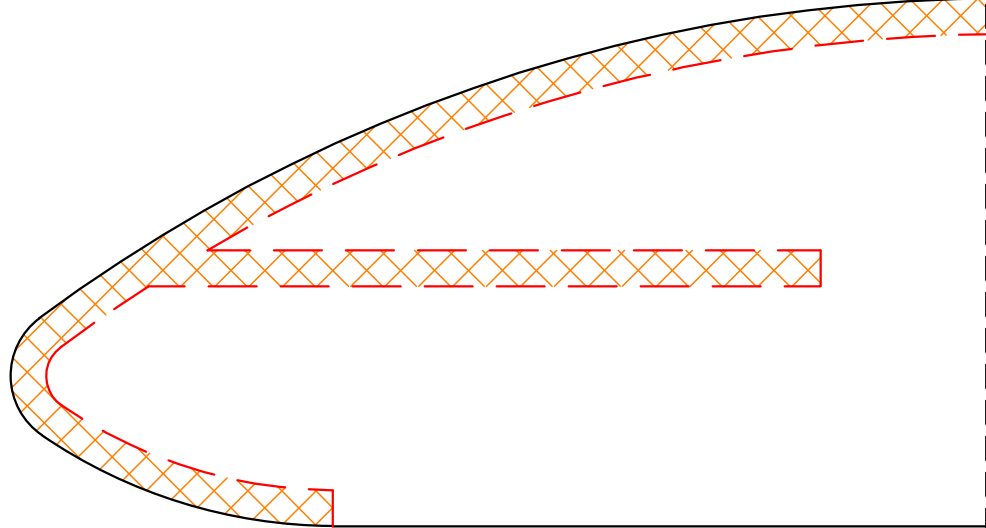
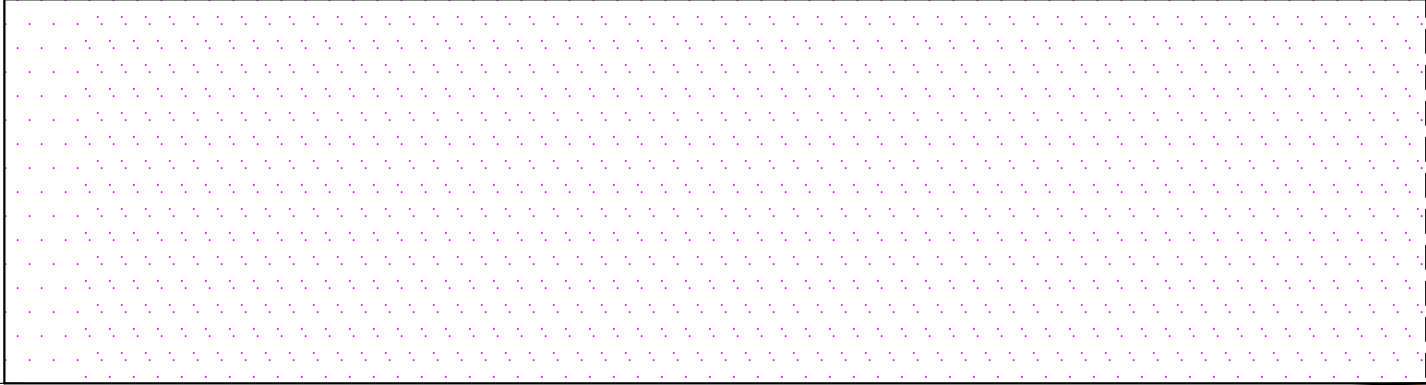
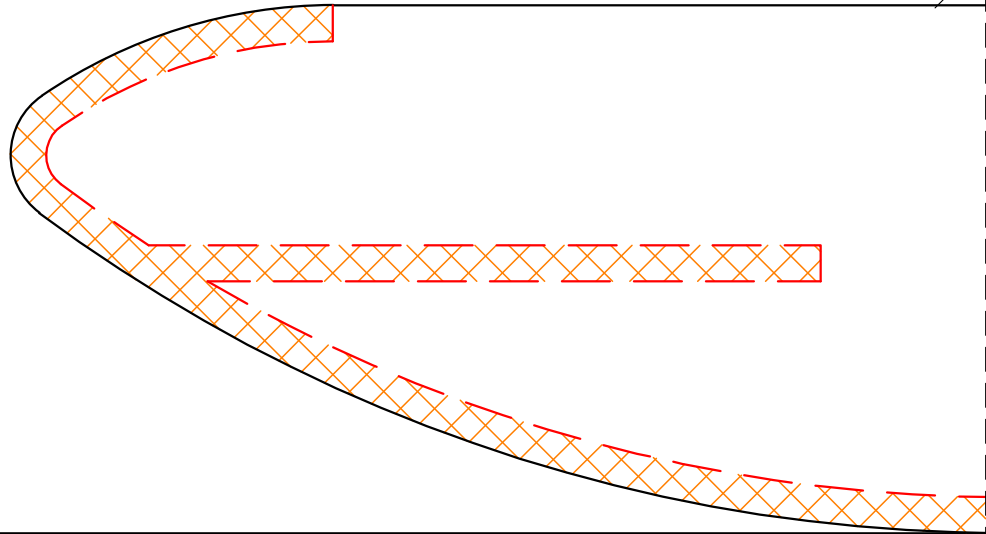
IN
CM

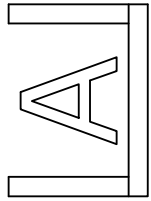




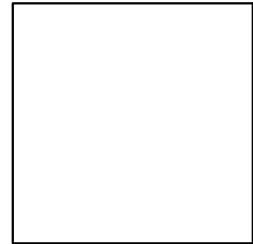


IN
CM

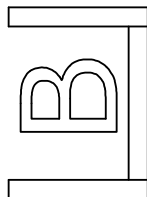


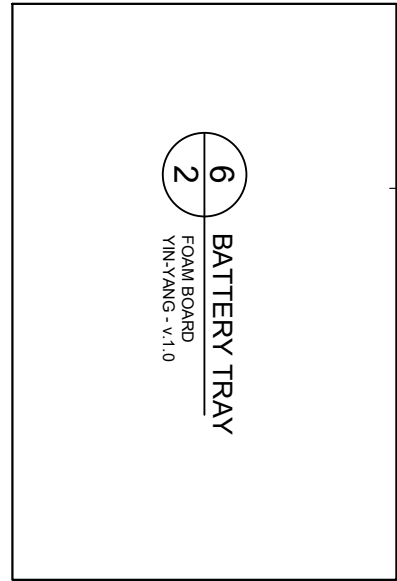
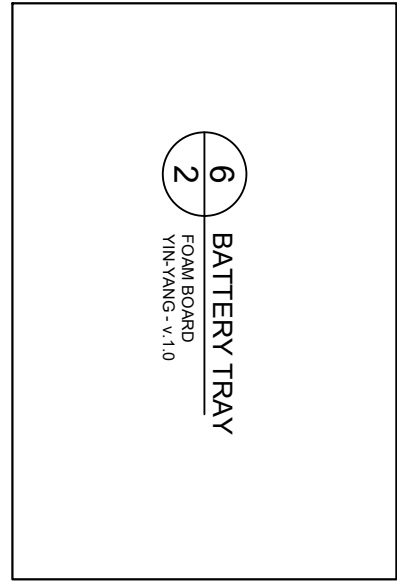
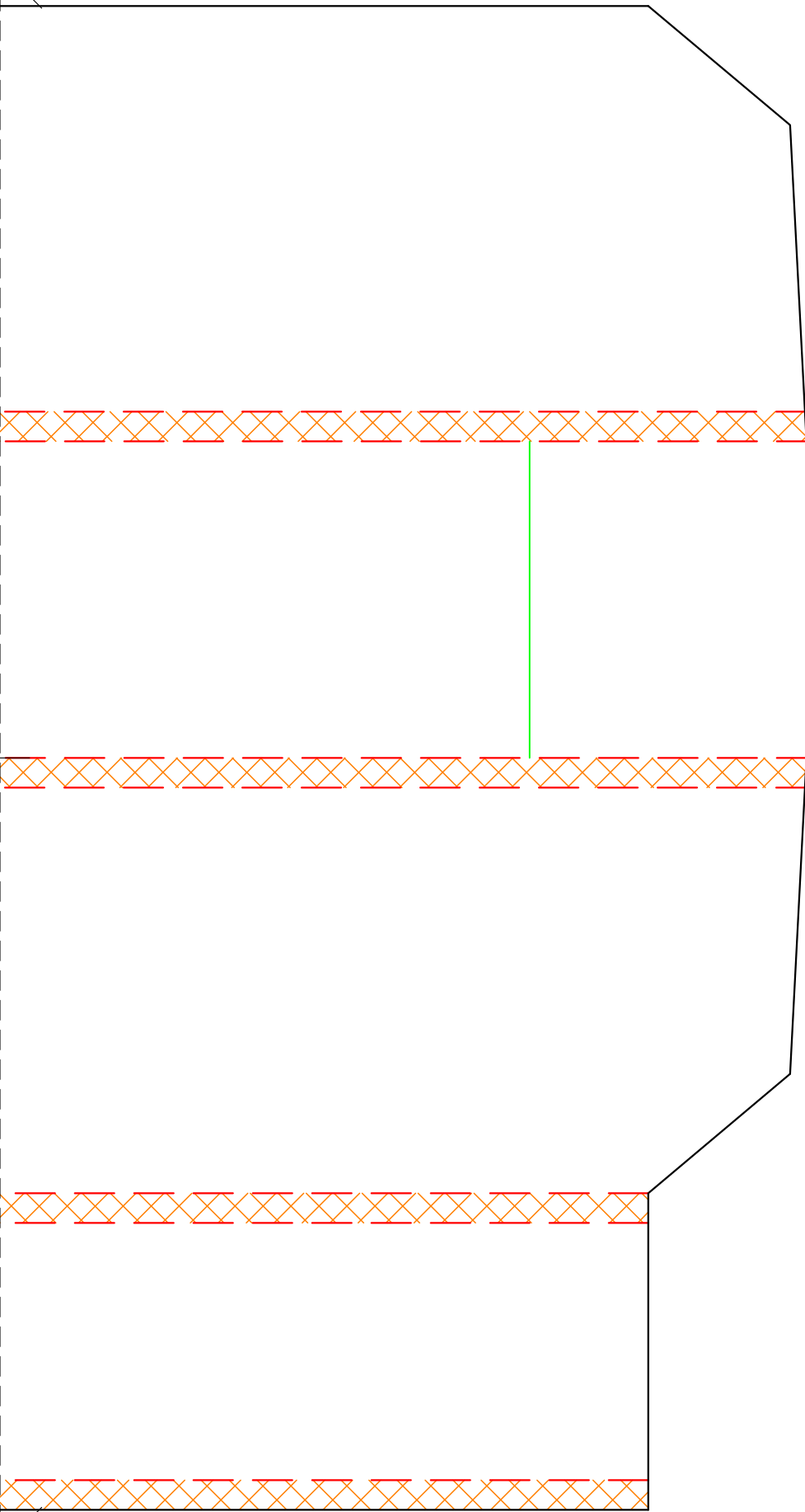


RIGHT FUSELAGE
FOAM BOARD
YIN-YANG - v.1.0



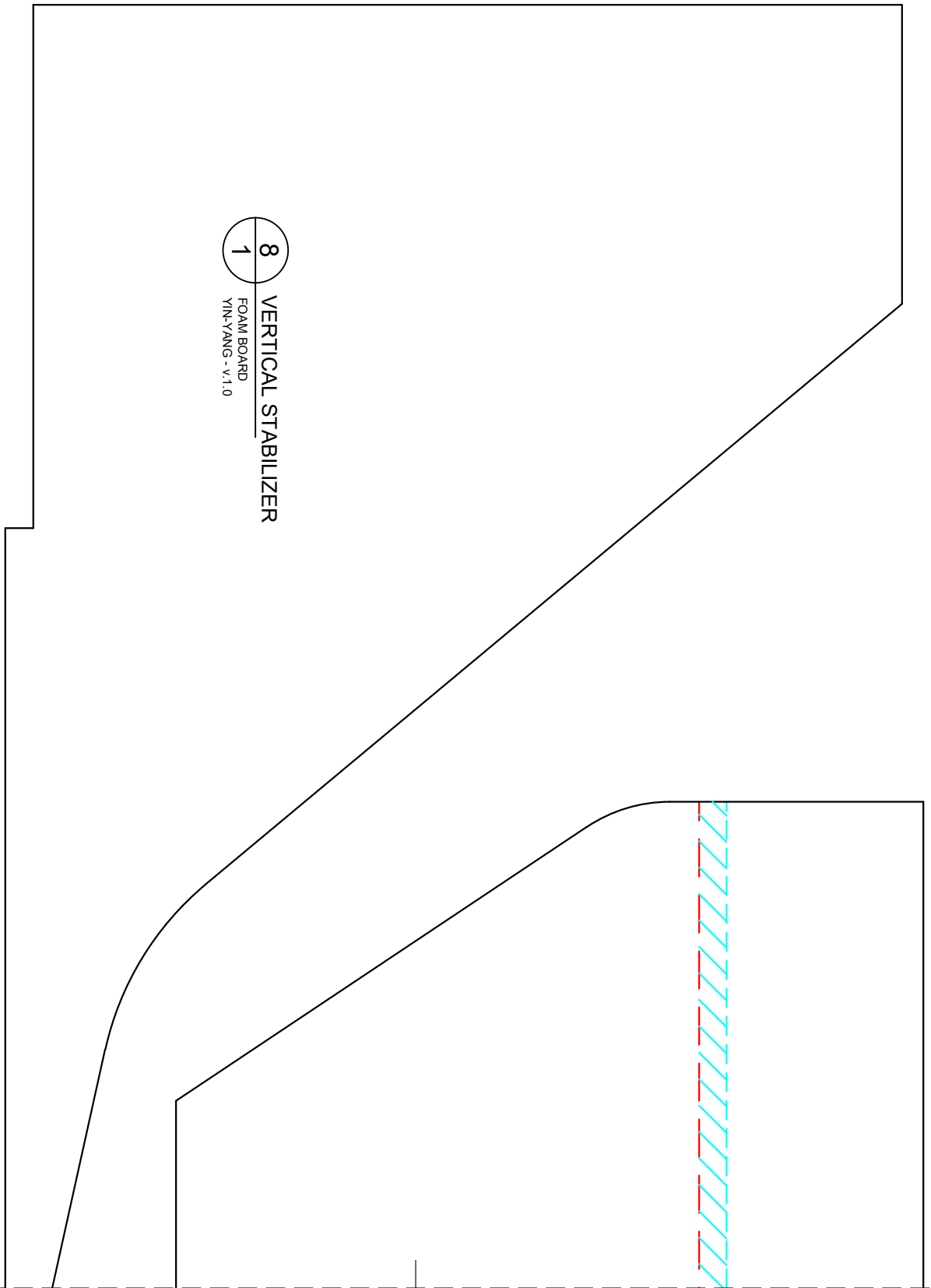
AILERON SERVO



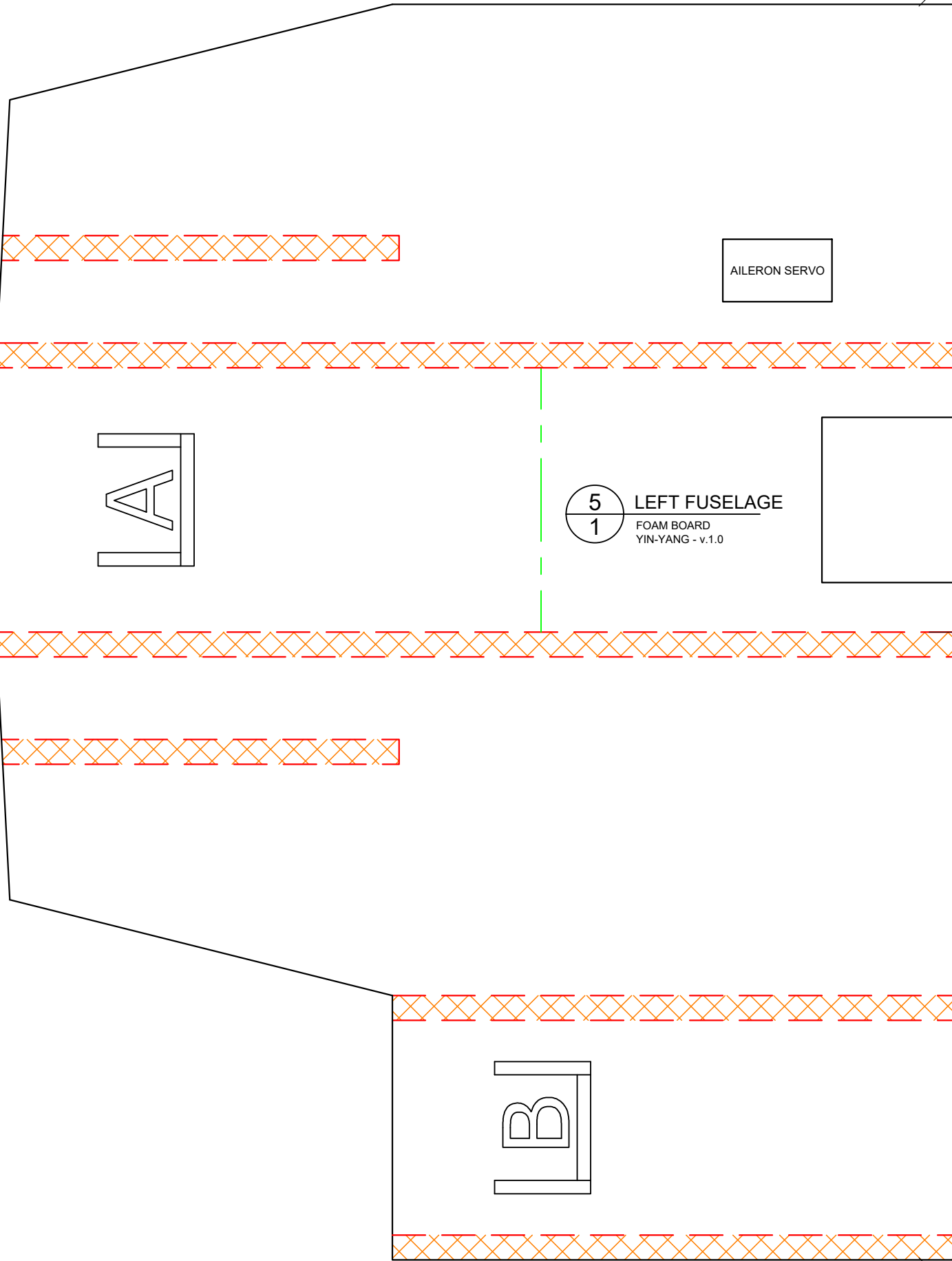




IN
CM



8 VERTICAL STABILIZER
FOAM BOARD
YIN-YANG - v.1.0



AILERON SERVO

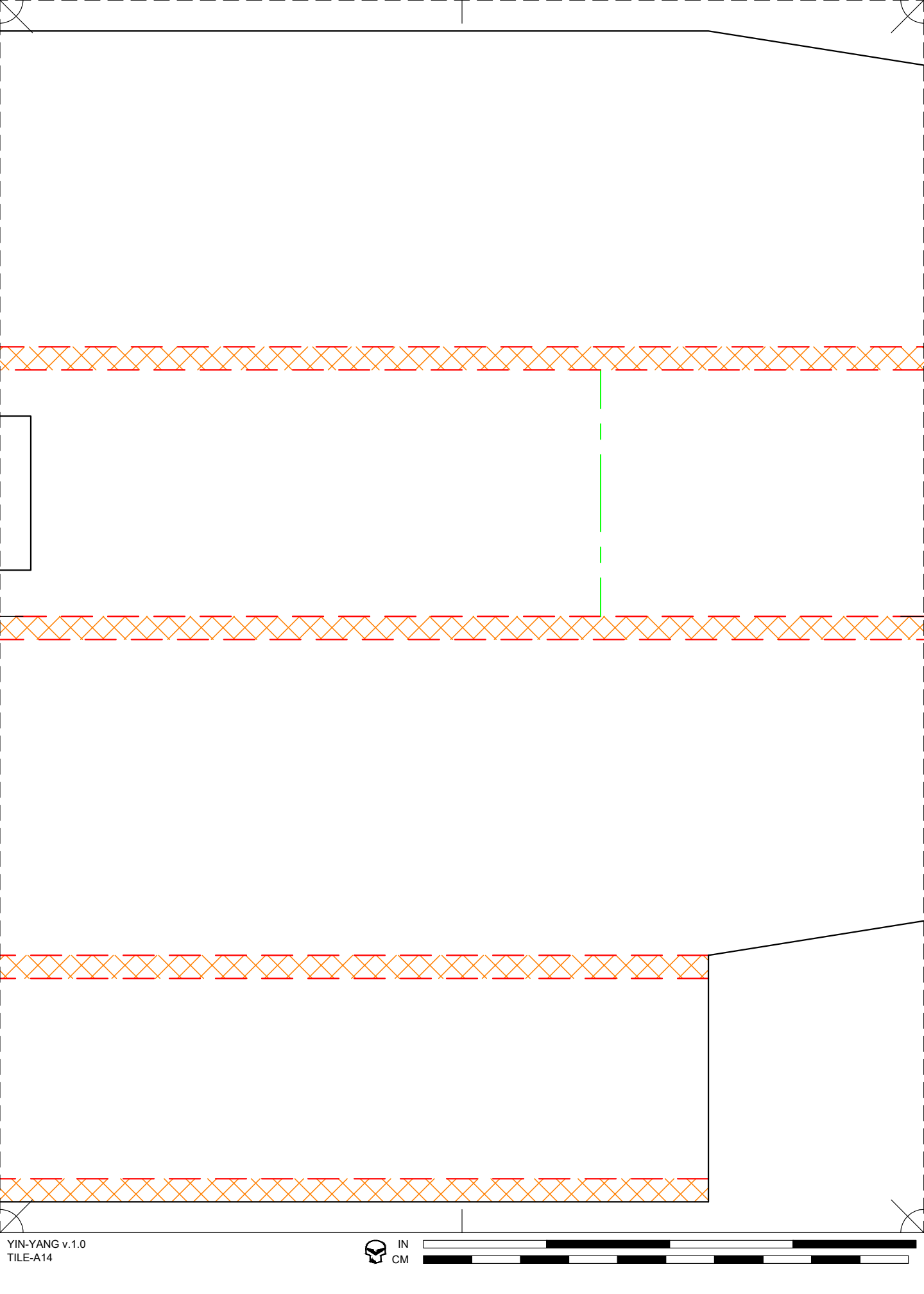
5
1

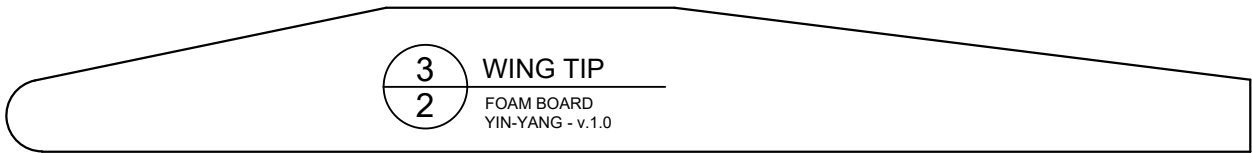
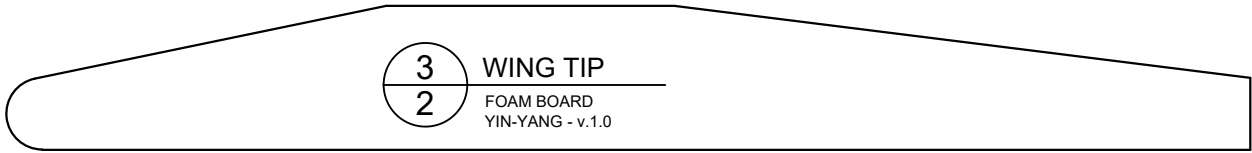
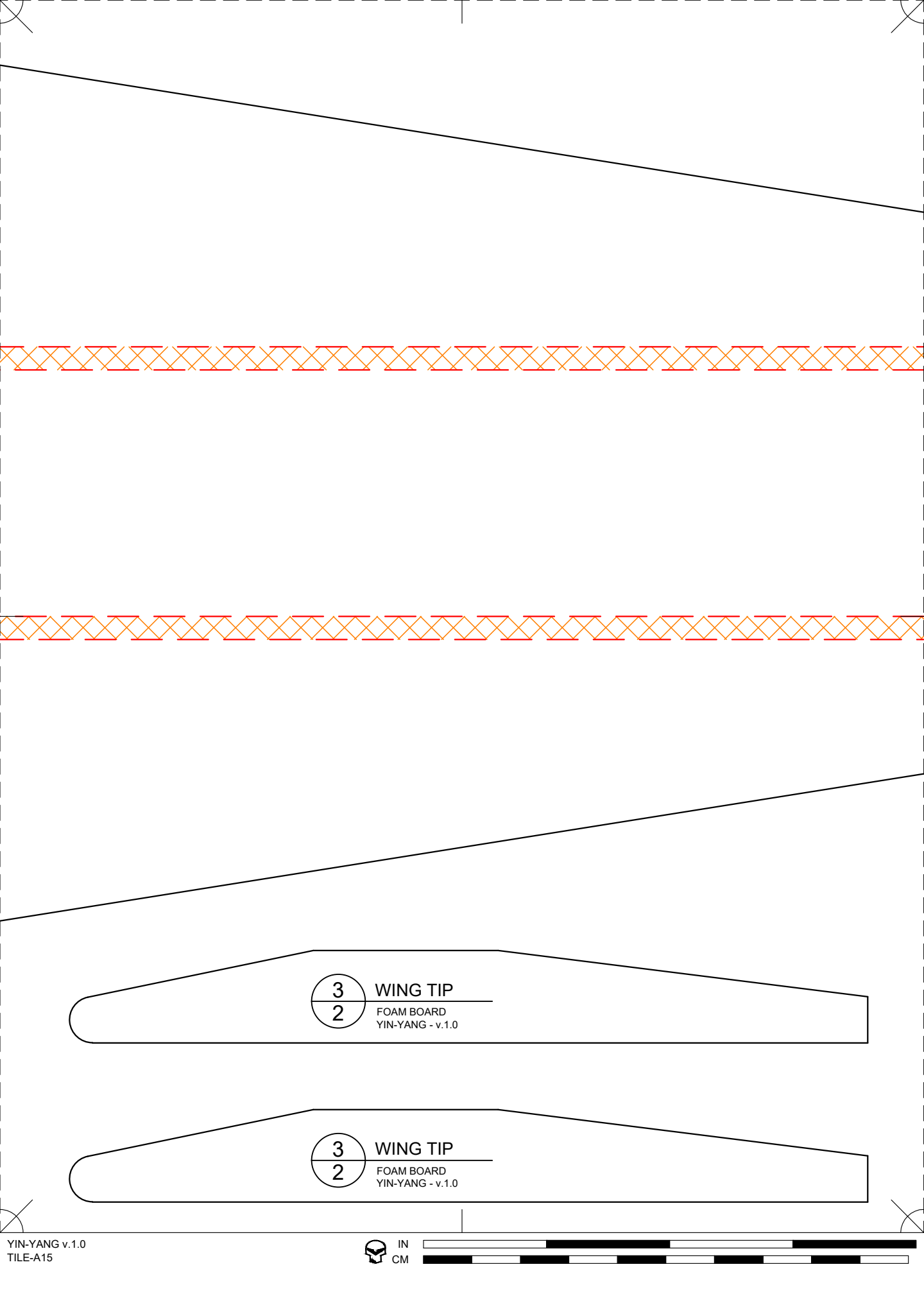
LEFT FUSELAGE
FOAM BOARD
YIN-YANG - v.1.0

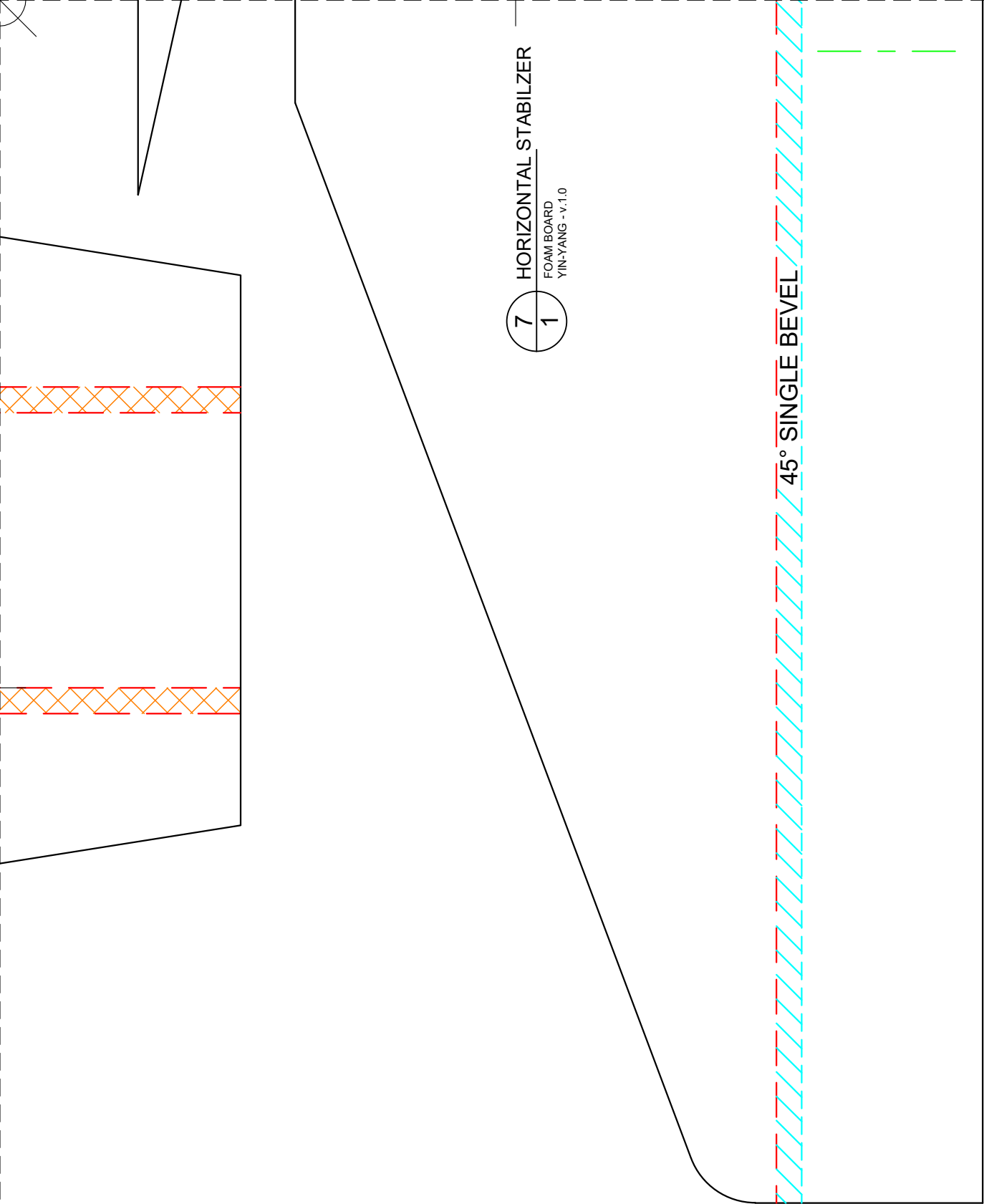
A

B









7
1

HORIZONTAL STABILIZER
FOAM BOARD
YIN-YANG - v.1.0

45° SINGLE BEVEL