



Area = 181 in² (1168 cm²)

$$A_{tc} = 2180 \text{ cm}^2$$

Internal width = 47 cm???

I would calculate V_{tc} from the shaded area times internal box width, minus the driver volume.

I would also suggest to move S1/S2 slightly around the corner, and to use soho54's method for the corner duct length.