

"Original Terraced Back Loaded Horn"

Original Backroad Horn Calculating

オリジナル階段型バックロードホーン計算式-[1993年版]-spc.jpn.org-

空気室容積 $V_{bc} = \frac{\pi a^2}{25} (l) = 40\pi a^2 \text{ (cm}^3\text{)}$

スロート断面積 $S_{ho} = \left(\sqrt{\frac{3\pi a^2}{400 \cdot Q_0 \cdot M_0}} + \frac{L_s}{1000} \right) \pi a^2 \text{ (cm}^2\text{)}$

スロート出口より x cm での断面積

$$S_x = S_{ho} \left(K + \frac{x}{5000} \right)^{\frac{x}{10}} \text{ (cm}^2\text{)}$$

$K > 1.05$

$K = \text{広がり係数 (大き目のほうが良い結果がでそうです)}$

The detailed explanation is omitted (no)
 Those who understand, those who do not know, those who do not know, it is such a formula (laugh)
 Since it is a formula derived from the data of the original back load 300sets, I think that I can do a decent box.

[References]

[Easy Back-Load Horn Calculation Official \(2013版\)](#)