

: 691.263.5

Clause contains results of accounts of sound isolating properties easy plaster of concrete on an easy material. The dependence of sound isolation on frequency of a sound wave is established.

[1, 2, 3].

$$\left(\frac{1}{5} \right) [4].$$

$$\left(\frac{400}{2600} \right) = 2 \cdot 10^{-2}$$

$$\frac{50}{500} / 3.$$

$$1300 / 3.$$

(1) [5]:

$$R = 20 \lg(f \cdot m_n / \dots) + 25 \lg(f/f) + 10 \lg + 3 \quad (1)$$

(2):

$$f = 2 / 1,8 \cdot n \cdot h, \quad (2)$$

$$f \cdot h = 40 \dots ; f = 800 \dots$$

f	100	160	250	400	700	1100	1600	2600
f/f	0,125	0,2	0,3125	0,5	0,875	1,375	2,0	3,25
lg(f/f)	- 0,9	- 0,7	- 0,5	- 0,3	- 0,058	0,14	0,3	0,51
R	56,61	61,61	66,61	71,61	77,66	82,61	86,61	91,86

$$f \cdot m_n / \dots = 3,14 \cdot 800 \cdot 1300 / 420 = 7775,2$$

$$\lg(7775,2) = 3,89$$

$$\lg(2 \cdot 10^{-2}) = \lg(0,02) = - 1,69$$

$$10 \lg + 3 = - 1,69 + 3 = 1,31$$

$$20 \lg(7775,2) = 77,8$$

$$77,8 + 1,31 = 79,11$$

