

# PYROTECHNIC TRAINING NOISE TEST PROTOCOL OF THE CARL GUSTAV GRENADE LAUNCHER

**Date:** 02.09.2021.

**Place of performance:** DL Tallinn District shooting range, Männiku

**Weapon:** CG M3

**Charge:** 15 g of pyrotechnic mixture

**Measuring distance:** 5 m on each side

**Measuring instrument:** NTI audio noise meter XL2

**Measurer:** Kaarel Sepp

**Company:** Kajaja Acoustics OÜ, Laki põik 2, 12915 Tallinn

**Table 1. Sound pressure level test results at a distance of approx. 5 m**

INDICATOR		
shot no.	$L_{AF,max}$ [dB]	$L_{CE}$ [dB]
1	117.9	114.3
2	119.8	116.8
3	118.3	113.4
4	120.3	118.2
5	117.4	114.3

$L_{AF,max}$  indicator is the A-weighted maximum sound pressure level of a short-term ( $t=0.125$  s) noise event and  $L_{CE}$  is the C-weighted sound exposure level of a single noise event.  $L_{CE}$  is listed in the Military Noise Regulation as a suitable indicator for assessing the individual noise events of large-caliber weapons. C-correction takes more account of low-frequency noise and takes into account the specificity of human hearing at high sound pressure levels.