

**Liste der wichtigsten Produktdaten nach Maßgabe der EG-
Baumusterprüfbescheinigungen**

Bezeichnung, NEM/NEQ: (Type, net explosive quantity):	Registriernr.:	A:	B:	T:	Sicherheitsabstand unter Normbedingungen: (Safety distance under standard conditions):
Bullet Hit CL-6G NEM (NEQ): 206 mg	0589-T2-0092	0,5 m	127,2 dB (A _{I,max}) in 2 m	0,5 m	5 m
Bullet Hit CL-3G NEM (NEQ): 120 mg	0589-T2-0093	0,5 m	127,5 dB (A _{I,max}) in 2 m	0,5 m	5 m
Bullet Hit CL-2G NEM (NEQ): 56 mg	0589-T2-0094	0,5 m	127,1 dB (A _{I,max}) in 2 m	0,5 m	5 m
Bullet Hit CL-1G NEM (NEQ): 27 mg	0589-T2-0095	0,5 m	126,5 dB (A _{I,max}) in 2 m	0,5 m	5 m
Bullet Hit CL-½G NEM (NEQ): 17 mg	0589-T2-0096	0,5 m	125,4 dB (A _{I,max}) in 1,5 m	0,5 m	3 m
Bullet Hit CL-¼G NEM (NEQ): 7 mg	0589-T2-0097	0,5 m	122,2 dB (A _{I,max}) in 1,5 m	0,5 m	2 m
Bullet Hit FL-2G+ NEM (NEQ): 52 mg	0589-T2-0108	1,8 m	124,8 dB (A _{I,max}) in 2 m	1,8 m	3 m
Bullet Hit FL-1G+ NEM (NEQ): 26 mg	0589-T2-0115	1,5 m	123,7 dB (A _{I,max}) in 2 m	1,5 m	4 m
Bullet Hit FL-½G+ NEM (NEQ): 15 mg	0589-T2-0116	1,6 m	122,1 dB (A _{I,max}) in 1,5 m	1,6 m	3 m
Bullet Hit FL-¼G+ NEM (NEQ): 6 mg	0589-T2-0117	1,5 m	120,4 dB (A _{I,max}) in 1,5 m	1,5 m	2 m
Bullet Hit FL-⅛G+ NEM (NEQ): 4 mg	0589-T2-0118	1 m	119,4 dB (A _{I,max}) in 1 m	1 m	2 m
Bullet Hit FL-1/16G+ NEM (NEQ): 2 mg	0589-T2-0119	0,5 m	117,4 dB (A _{I,max}) in 1 m	0,5 m	1 m
Bullet Hit HE-1 NEM (NEQ): 83 mg	0589-T2-0059	1 m	127,7 dB (A _{I,max}) in 1,5 m	1 m	4 m
Bullet Hit HE-4/A1 NEM (NEQ): 309 mg	0589-T2-0060	2,5 m	129,6 dB (A _{I,max}) in 2,5 m	2,5 m	8 m
Micro-Sparkler NEM (NEQ): 28 mg	0589-T1-0272	0,3 m	62 dB (A _{I,max}) in 8 m	0,3 m	1 m
Sparkler S-6 NEM (NEQ): 80 mg	0589-T2-0122	2 m	94,5 dB (A _{I,max}) in 2 m	2 m	3 m

Code: Beschreibung:

A Effekthöhe (Diese Angabe ist verbindlich)**B** Schalldruckpegel einschließlich Meßabstand (Diese Angabe ist verbindlich)**T** Radiale Effektweite (Diese Angabe ist verbindlich)

Instructions for the use of pyrotechnic devices
Film effect squibs (Bullet Hits) of the FL-, FL-G- and CL-G Series

1. Film effect squibs may only be employed pursuant to the legislation governing explosives for technical purposes by appropriately trained personnel. Any other form of use is prohibited.
2. The squibs are to be stored cool and dry, as well as out of the reach of unauthorised persons or children in the original packaging (please observe the best-before-date).
3. When in use, safety precautions are to be taken: e.g. the cordoning off of the hazard zone, smoking prohibited at the workplace, the possible making available of fire extinguishers, provision of first aid facilities, the securing of misfire duds and the return of these to the dealer and/or manufacturer.
4. The pyrotechnic device should not be exploded in the vicinity of the face or of other unprotected body parts. The safety distance for a non entirely enclosed effect squib of the explosive forces FL-2 (G) or FL-1 (G) is at least 2.50 meters, for the sizes FL-1/2 (G) and FL-1/4 (G) at least 1.50 meters, and for the FL-1/8 (G) at least 0.50 of a meter.
 The safety distance for non entirely enclosed effect squibs of the explosive forces CL-6G or CL-3G is at least 2.50 meters, for the sizes CL-2G and CL-1G at least 1.50 meters and for the CL-1/2G and CL-1/4G at least 1.0 meter.

CL-6G (0589-T2-0092):	A: 0.5 m	B: 127,2 dB (AI_{max}) at 2 m	T: 0.5m
CL-3G (0589-T2-0093):	A: 0.5 m	B: 127,5 dB (AI_{max}) at 2 m	T: 0.5 m
CL-2G (0589-T2-0094):	A: 0.5 m	B: 127,1 dB (AI_{max}) at 2 m	T: 0.5 m
CL-1G (0589-T2-0095):	A: 0.5 m	B: 126,5 dB (AI_{max}) at 2 m	T: 0.5 m
CL-1/2G (0589-T2-0096):	A: 0.5 m	B: 125,4 dB (AI_{max}) at 1.5 m	T: 0.5 m
CL-1/4G (0589-T2-0097):	A: 0.5 m	B: 122,2 dB (AI_{max}) at 1.5 m	T: 0.5 m

For the simulation of the impact of bullets, the squib is to be placed so that there is no blockage of dangerous splintering materials. The exact safety distance should be agreed in coordination with the authorised safety officer concerned. Protective goggles should be worn when handling!

The representation of bullet impacts upon the human body may only be carried out by personnel, who can evidence the necessary experience and practise alongside the absolving of a state recognised training course. The wearing of ear muffs (defenders) is absolutely necessary!

5. The special regulations for use in public places and at events are to be observed. An appropriate permit is to be obtained from the security authorities.
6. For individual detonations, a source of direct electric current (e.g. a lead battery) is necessary having a charge of at least 6 volts and a capacity 3.5 amps per hour. The ignition voltage may not exceed 48 volts. The test current may only be a maximum of 25 mA. Only test with approved electric circuit testing equipment. The sequential ignition of devices in series is not permitted.
7. The connection to the electrical power supply should only be made when the source of the electric current is definitely disconnected from the ignition system and/or the ignition lead. A secure connection of all the connection leads is to be ensured.
8. The device should only be ignited when an unhindered view of the location of the explosion is maintained and all security requirements have been complied with.

Instructions for the use of pyrotechnic devices
Film effect squibs (Bullet Hits) of the Types HE-1 and HE-4

1. Bullet Hit Squibs must only be used according to their respective instructions and in accordance with national regulations. Only to be used by professionals. Observe the minimum age according to Guideline 2007/23/EG or, respectively, according to national regulations. In Germany persons less than 21 years of age are not allowed to handle Category T2 materials; an official permit is required. The material must not be used for blast operation. Any other use is prohibited.
2. The Squibs must be stored in a cool and dry place, out of children's and unauthorised reach in the original packaging.
3. Ensure, that the following safety measures are in place prior to use: e.g. rope off the hazardous area, ban of smoking at the work place, make firefighting equipment available, if required, ensure availability of first aid, secure and return blinds to the manufacturer/dealer.
4. Do not let the object explode close to the face or other exposed body parts! The safety distance under standard conditions for a not installed Squib are 4 m for the **HE-1** and 8 m for the **HE-4**.

HE-1 (0589-T2-0059):	A: 1 m	B: 127,7 dB (AI_{max}) at 1.5 m	T: 1m
HE-4 (0589-T2-0060):	A: 2.5 m	B: 129,6 dB (AI_{max}) at 2.5 m	T: 2.5 m

The user (person with professional knowledge) determines the minimum safety distance using the best available safety measures according to effect, functional details, specific characteristics and environmental conditions. For bullet impact simulation, the fuse must be installed in such a way, that no packing with splintering materials is possible. Ear protection is absolutely required. Wear safety glasses when handling the equipment!

5. **Due to their strength, Squibs type HE-1 and HE-4 must not be used in „Trunion guns“, „Glass breakers“ or „Pelikan-Hooks“.**
6. Check for special requirements for use in public assembly points. Obtain permit by safety regulator.
7. For single ignition, a DC power source (e.g. lead battery) with a voltage of at least 6 Volt and a capacity of 3.5 Ah is required. The ignition voltage must not exceed 48 Volt. Testing current not to exceed 25 mA. Test only using permitted circuit testers. Do not ignite multiple objects in series connection. The shot simulators must not be used for blast operation.
8. Prepare the connection only, if the power supply is disconnected from the ignition system, or respectively from the ignition wire without a doubt. Ensure safe connection of connecting wires.
9. Ignite the unit only with unobstructed view of the detonation site and all safety regulations are being followed.