

POINT SOURCE SHIELDS

LB 8030 / 8040

Technical Information



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1. Maximum permissible activities during transport

The activities indicated here are the maximum activities with which the individual shields can be loaded according to the international dose rate limit for the transport of radioactive substances. National dose rate limits for the operation of measurement systems are usually significantly lower and only allow loading with significantly lower activities. The national provisions must be complied with.

Shield model	Maximum activity (Co-60)		Maximum activity (Cs-137)	
LB 8030	400 GBq	10,8 Ci	600 GBq	16 Ci
LB 8040	400 GBq	10,8 Ci	600 GBq	16 Ci
The point source capsules for Co-60 and Cs-137 distributed by Berthold Technologies GmbH & Co. KG for these shields have activity levels that do not exceed the international dose rate limits for transport. The activities of the offered radiation sources are less than or equal to the A2 value as defined in the IAEA Regulations for the Safe Transport of Radioactive Material (SSR-6). Therefore, the corresponding A2 values are listed in the table.				

2. Ambient conditions during mounting

The shield is lifted and positioned using the four lifting eyes. The minimum permissible temperature during assembly is -20 °C. Follow the instructions in the operating manual.

3. Technical data

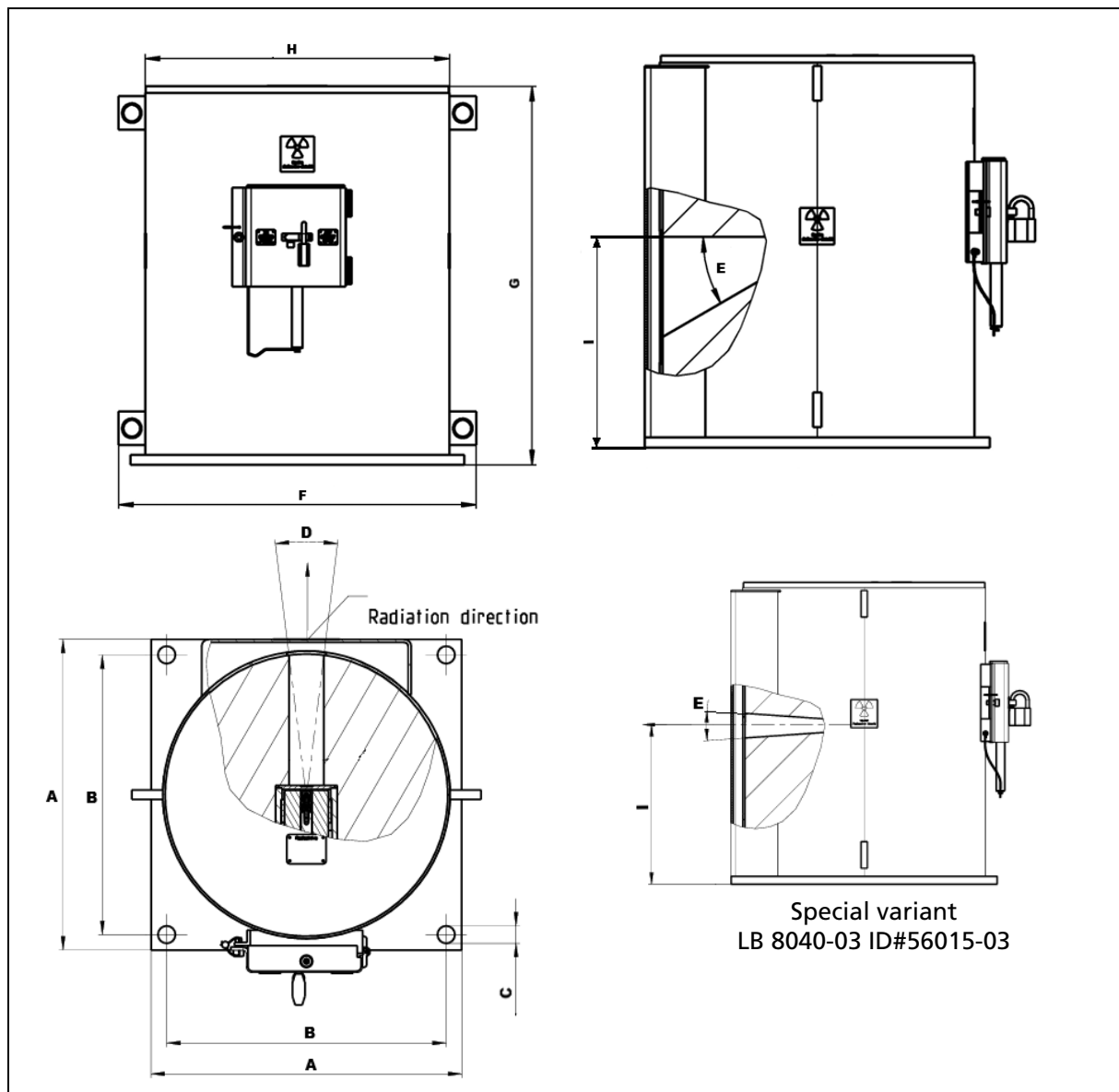
3.1. Variant LB 8030

Variant	Mat. No.	Housing material	Shielding material	Weight (approx.)	Operating temperature	Storage and transport temperature	Ambient pressure	Safety facility	Fire resistance class according to DIN EN 62598
LB 8030-01	56160-01	Stainless Steel 1.4301	Lead / Tungsten	516 kg	-30° ... +100°C -22° ... +221°F	-20° ... +60°C -4° ... +140°F	Atmospheric pressure	Securing screw, and padlock	N
LB 8030-02	56160-02			516 kg					
LB 8030-05	56160-05			516 kg					

3.2. Variant LB 8040

Variant	Mat. No.	Housing	Shielding material	Weight (approx.)	Operating temperature	Storage and transport temperature	Ambient pressure	Safety facility	Fire resistance class according to DIN EN 62598
LB 8040-01	56015-01	Stainless Steel 1.4301	Lead / Tungsten	1014 kg	-30° ... +100°C -22° ... +212°F	-20° ... +60°C -4° ... +140°F	Atmospheric pressure	Securing screw, and padlock	N
LB 8040-02	56015-02			1014 kg					
LB 8040-03	56015-03			1023 kg					

3.3. Dimensions



TI-Fig. 1 Dimensions

Variant	Mat. No.	A [mm]	B [mm]	C [mm]	D	E	F [mm]	G [mm]	H [mm]	I [mm]
8030-01	56160-01	400	360	Ø22,5	6°	30°	450	425	Ø370	174
8030-02	56160-02				6°	10°				
8030-05	56160-05				13,9°	10°				
8040-01	56015-01	500	460	Ø22,5	5°	30°	536	567	Ø456	305
8040-02	56015-02					10°				305
8040-03	56015-03					8° Sym.				300

Minimal dimensional deviations are possible due to the welded construction