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Specification – Diamond plates
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The **2 Diamond plates** are needed to build the counting and profile monitors at the pre-target area during the commissioning of the Super-FRS beams.

The specifications of each plate are listed in the table below and they are intended all as “must be”.

	Description	**unit**
Material	Electronic Grade polycrystalline CVD diamond plate	
Size	35 x 35	mm^2
Size tolerance	-200; +50	um
Thickness	300	um
thickness variance	-5; +5	um
thickness tolerance	-20; +20	um
Surface finish	<10	Ra nm
Leakage current	<1 (at 2V/um)	nA/cm^2
CCE	>5 (at 2V/um, measured with a non-collimated ^{241}Am alpha source and activity <10kBq)	%
Impurities concentration	Nitrogen <50 , Boron <1	ppb