

IMEC Roughness Measurement Protocol

IRP-2018

(IMEC ROUGHNESS PROTOCOL 2018)

PARAMETER	SETTING	OPTIONS
Pixel Size x	0.8nm	
Pixel Size y	0.8nm	
Beam Current	8pA	
Landing Energy	500eV (ADI) 800eV (AEI)	
Pixel # x	2048	(a)
Pixel # y	2048	(b)
Frame averaging	16 (ADI) 32 (AEI)	
Filtering x	None	(c)
Filtering y	None	
Threshold	60%	
# of images	50	
Images files	TIF uncompressed	
PSD un-biasing	always	

- a) Pixel # in x is allowed to change
- b) Pixel # in y is allowed to change. Box length should be $50 \times \xi$.
- c) Filtering in x should not be used. If this option is not available, filter in x should be set to 5 pixels.

If any of the above changes to the Protocol is made, this information should be clearly reported with the results.

[Link to Paper](#)