

# SEC - Secure Etch Compensation

## Features

- Clearance specification between all object types
- Different copper spread for Pads, SMDs, Tracks and regions
- Heighten priority of SMDs, Pads and Tracks over Regions when activating "Shift to region"
- Uncluttered comfortable GUI
- Fast settings via Parameter Sets
- Optional [Horn compensation](#)
- Additional security via Backup of source layers

## Benefits

- Slash setup-time using parameter sets based on e.g. copper thickness or customer specifications
- Perfect retracting of modifications made by SEC saving them within the job data. Easily return to the original data
- Higher yield due to special treatment of critical objects by optional Horn compensation
- Fabricate denser geometries
- Simple way to exclude texts, logos or impedance traces from compensation
- Improving your etching results, saving money while increasing quality

Secure Etch Compensation

Parameter Set: SEC\_demo\_horns

Spread		Clearance				
Type		Type	Pad	SMD	Track	Region
Pad	20 $\mu\text{m}$	Pad	150 $\mu\text{m}$	150 $\mu\text{m}$	150 $\mu\text{m}$	150 $\mu\text{m}$
SMD	20 $\mu\text{m}$	SMD		150 $\mu\text{m}$	150 $\mu\text{m}$	150 $\mu\text{m}$
Track	20 $\mu\text{m}$	Track			150 $\mu\text{m}$	150 $\mu\text{m}$
Region	20 $\mu\text{m}$	Region				150 $\mu\text{m}$

Horns

Max Width 510  $\mu\text{m}$  Spread 40  $\mu\text{m}$  Overlap 100  $\mu\text{m}$  Extend 100  $\mu\text{m}$

Run FlashMaker  Use Masks

Minimum Copper Width 100  $\mu\text{m}$

Process same-net clearance

Check missing original copper

Backup source layer

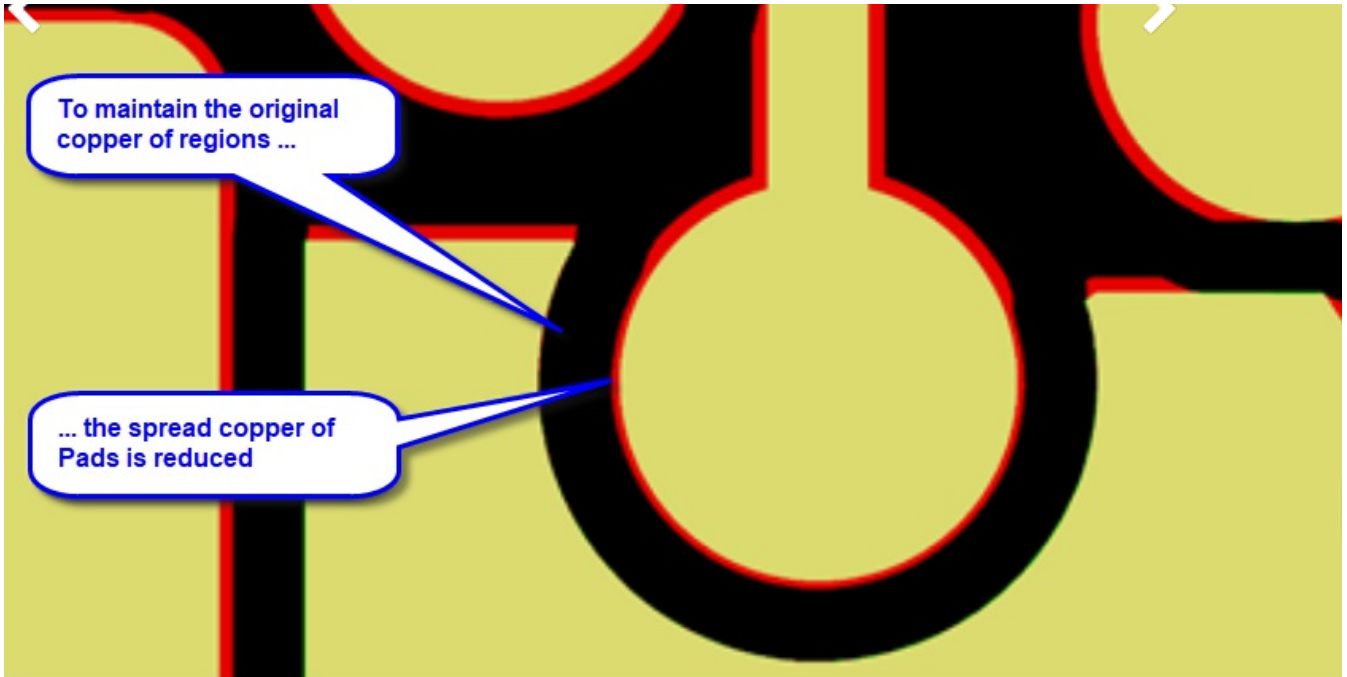
Shift to region

Keep original copper of region, if possible

Check Apply Undo

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Region not cut back → reduced compensation on nearby Pads

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