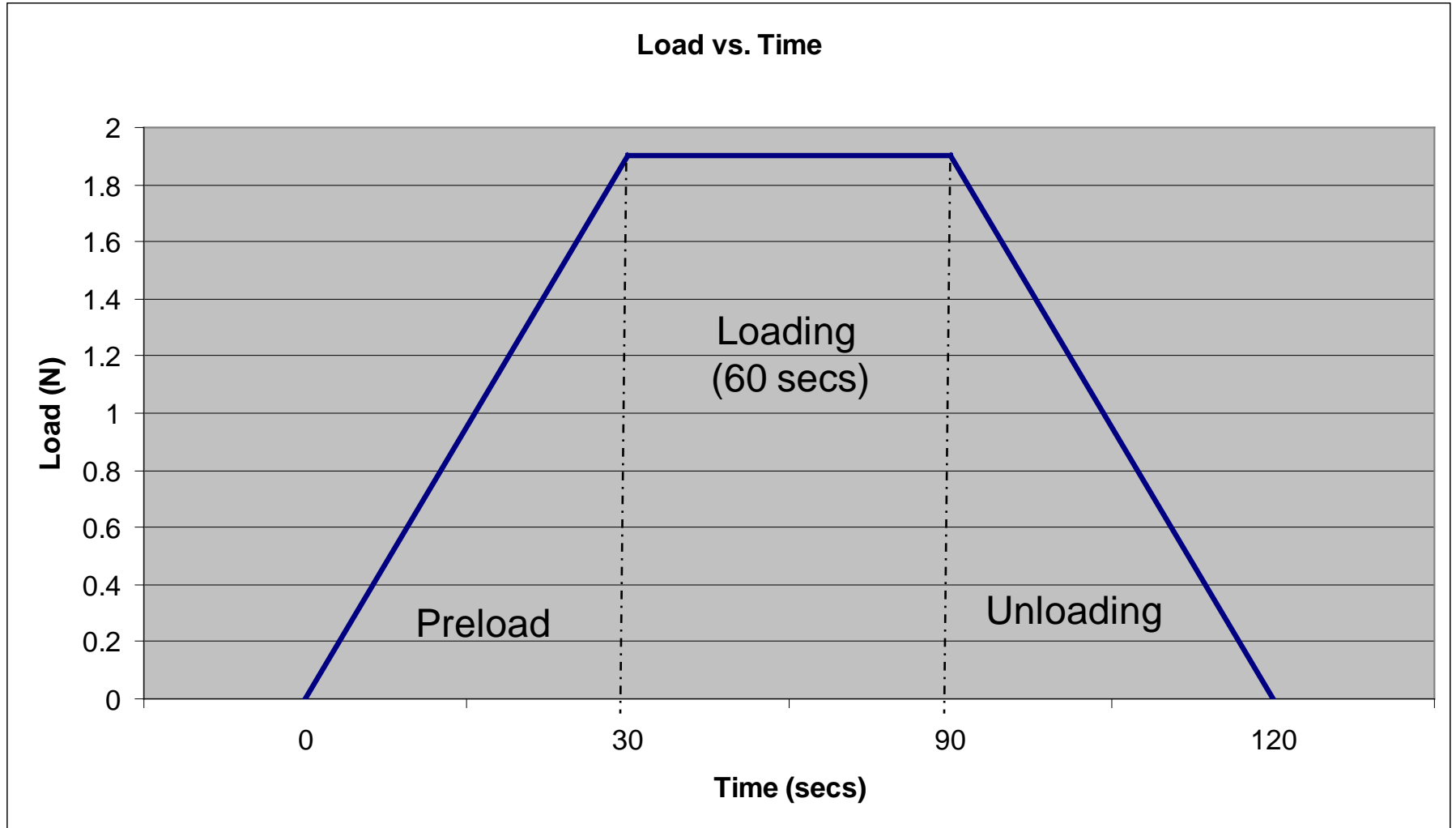


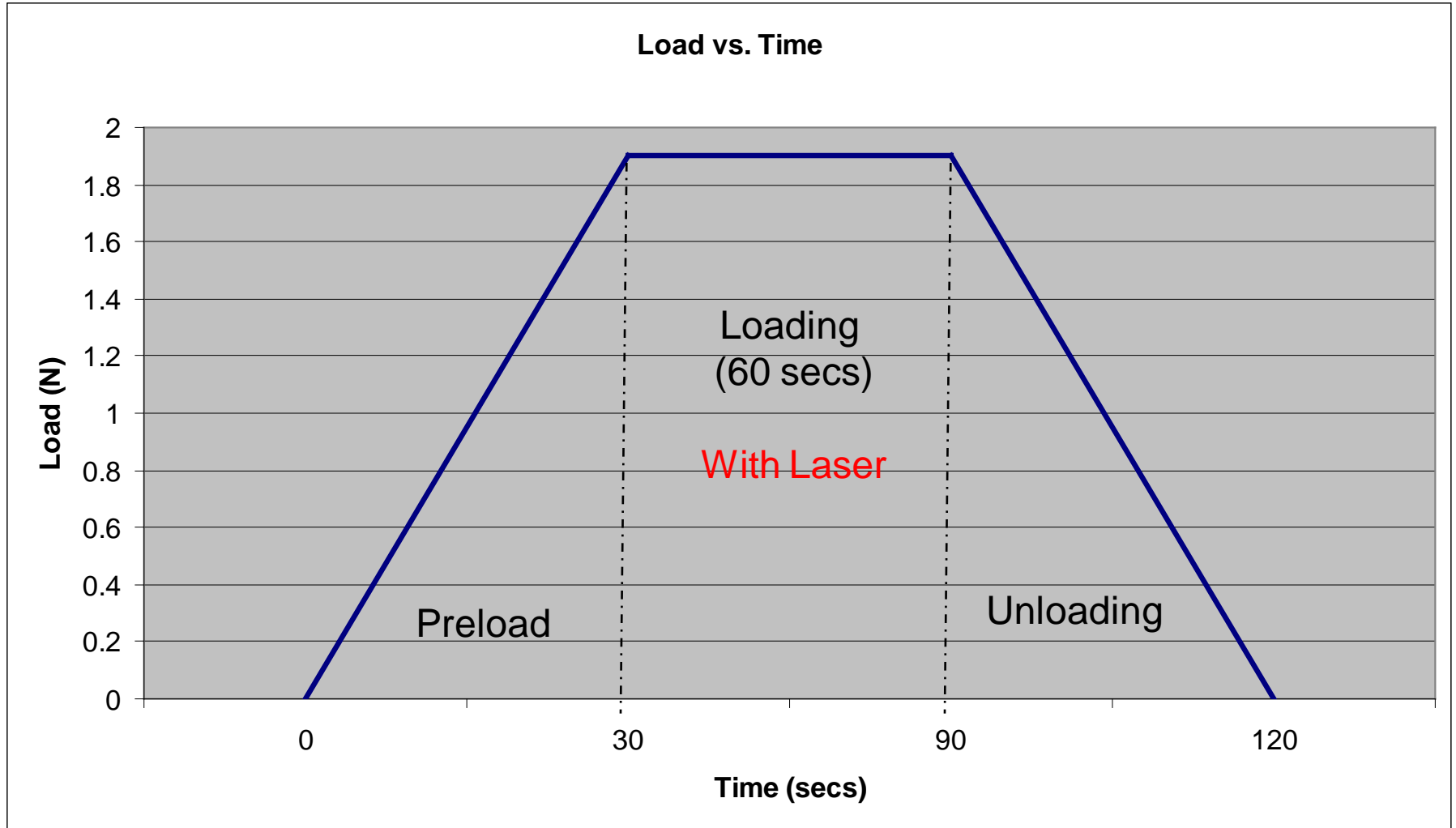
μ LAM Indentation Experimental Plan

- Material : 4H single Crystal SiC
- Laser Power: 1000mA (350mW)
- Number of Conditions: 4
- Number of Indents/Condition: 10
- Load ~ 2N (1 μ m deep)
 - Several test indentations will be carried out to establish the appropriate force to depth correlation.
- Load Cell: 500g (CETR Suspension)

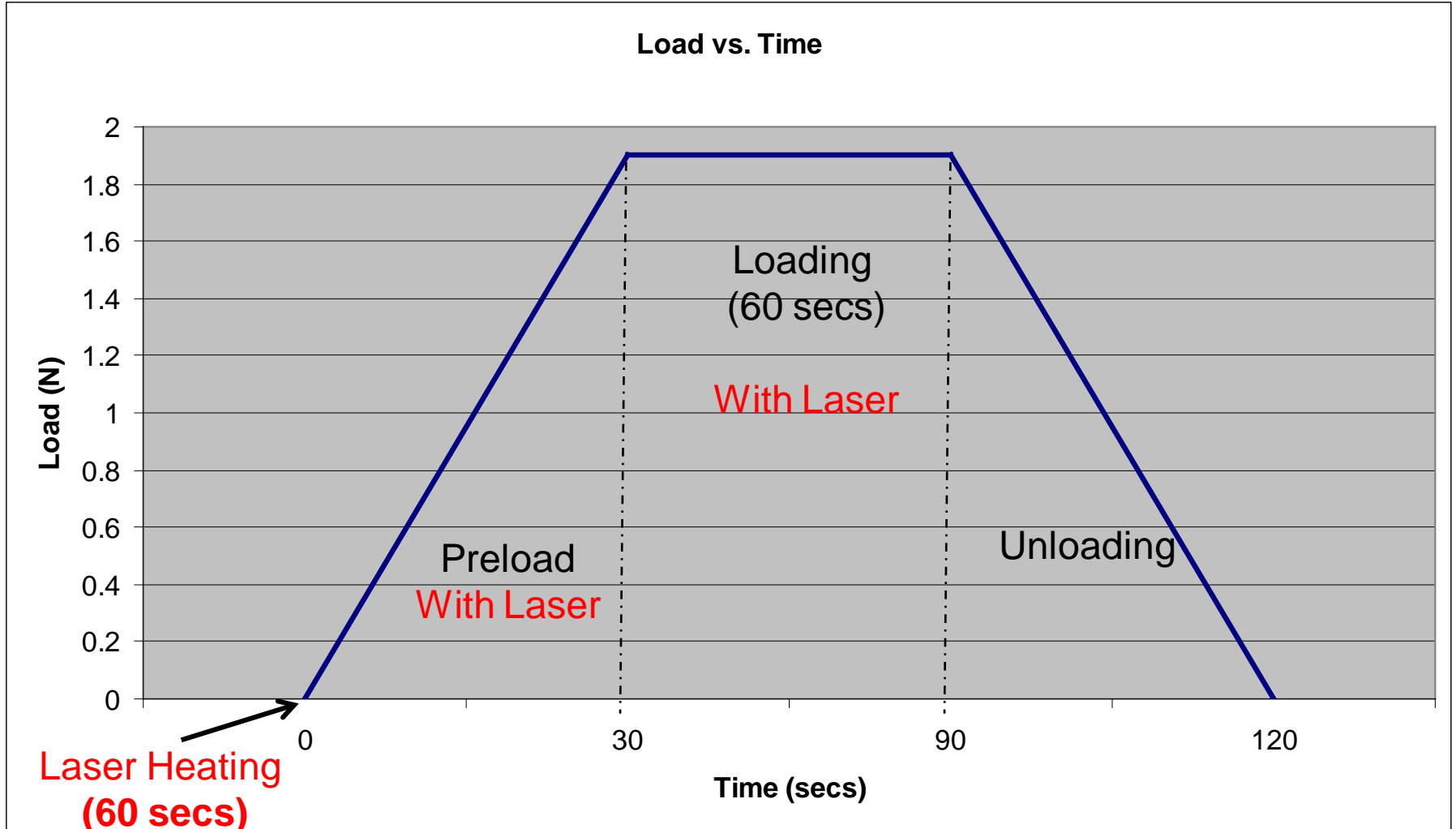
C1:No Laser



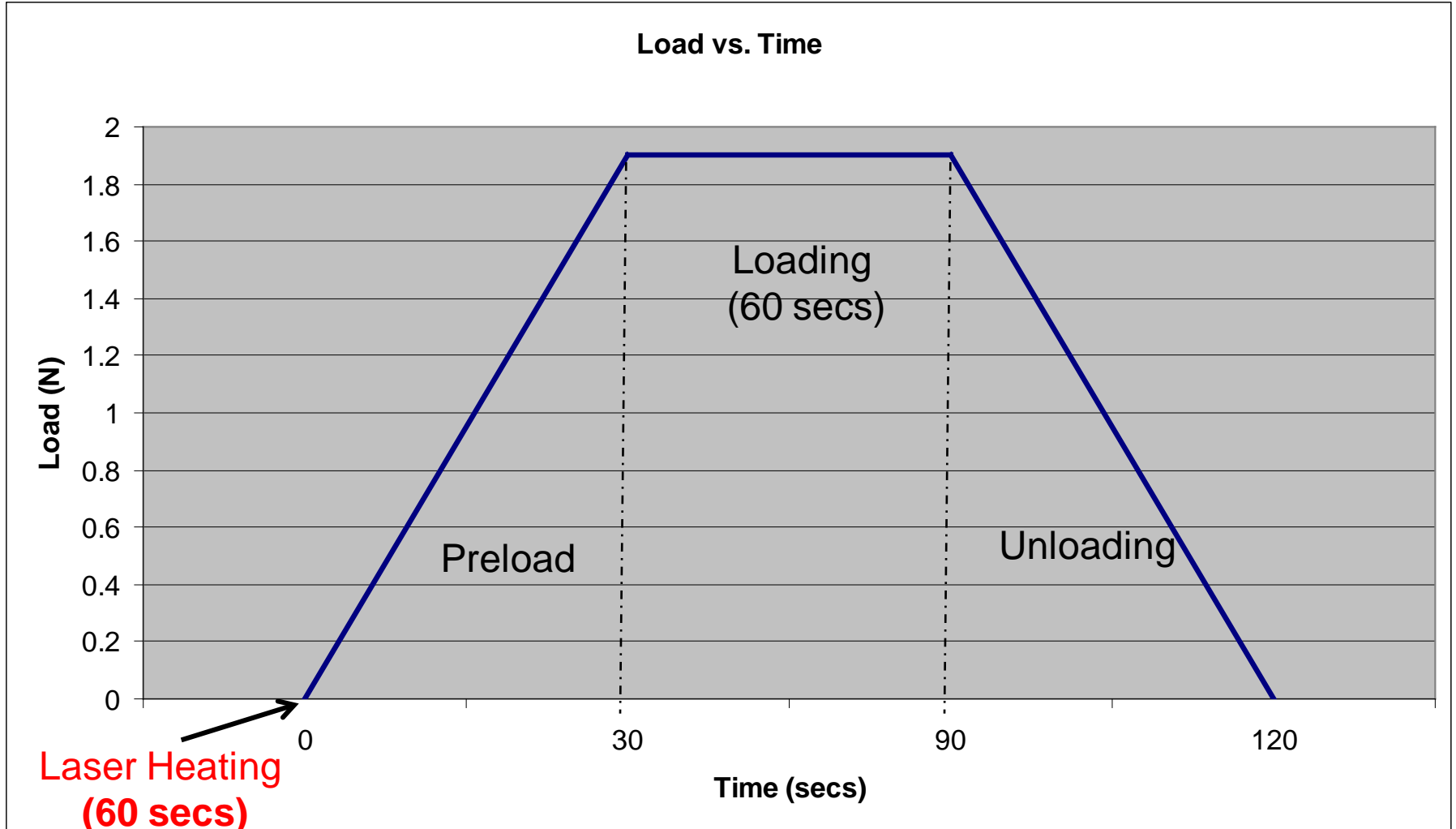
C2:With Laser Heating



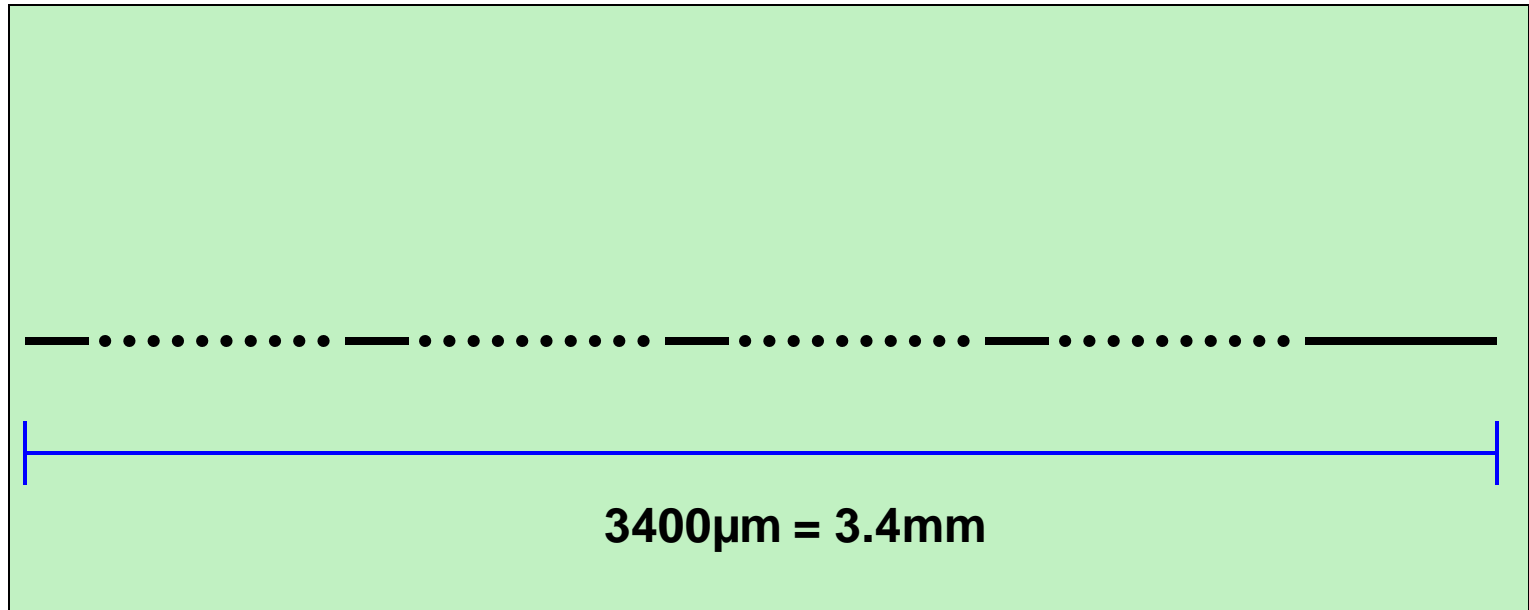
C3:With Laser Pre-Heating & Heating



C4:With Laser Pre-Heating



Schematic of Indentation Plan



- Space between Indents = $50\mu\text{m}$
- Space between scratch and indents = $50\mu\text{m}$
- Length of scratches = $200\mu\text{m}$ (small) & $400\mu\text{m}$ (last)