C-FLAT CARBON GRIDS

ENABLING THINNER, MORE UNIFORM ICE

CARBON THICKNESS MATTERS!
Researchers at Korean Basic Science Institute used EELS to show that thinner, more uniform carbon leads to thinner, more uniform ice.

C-FLAT'S STANDARD THICKNESS:
- 65% thinner carbon
- 10X greater carbon uniformity

RESULTED IN:
- 28% to 35% thinner ice
- 2X greater ice uniformity

<table>
<thead>
<tr>
<th>Carbon Film</th>
<th>Carbon Film</th>
<th>Vitreous Ice (within a hole)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C-flat™ 1.2/1.3 200 mesh</strong>&lt;br&gt;Manufacturer carbon specification: approx 20 nm thick</td>
<td>17.38 ± 0.82 nm</td>
<td>92.35 ± 6.37 nm</td>
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<tr>
<td><strong>Quantifoil® R2/2 300 mesh</strong>&lt;br&gt;Manufacturer carbon specification: about 10-12 nm thick</td>
<td>49.11 ± 8.50 nm</td>
<td>127.65 ± 12.42 nm</td>
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</table>

**WANT A CHOICE IN THICKNESS?**
Choose C-flat Standard or C-flat Thick

If the durability of a thicker carbon film interests you more than the ice thickness, we've got you covered! **C-flat Thick is 40 nm**, ready for the toughest sample prep conditions!

**HOW THICK IS YOUR HOLEY CARBON?**

Find a complete list of sample supports at: [www.protochips.com](http://www.protochips.com) or contact your local distributor

Publication Reference: