

The perimeter-to-area ratio of regular hexagon is compared with those of the other two basic tessellating shapes - equilateral triangle and square. The interlocking boundaries of hexagon tessellation are also highlighted to emphasize the good structural stability. These properties are mentioned with the aim of illustrating why hexagonal design enables the use of the least separating wall materials to divide space or the lightest grid structure to strengthen tall buildings against wind or earthquakes. Regular hexagon has three pairs of parallel sides and looks identical after turning every  $60^\circ$ . Therefore, Hex bolts and nuts allow : 1. good grip for tightening using ordinary wrench while not too easily be rounded off , and 2. reasonably small turning angle for working in tight space.