

Kelly-Bar PVC Fill Slat Sample Specification



Brentwood Industries is pleased to introduce the Kelly Bar, a well-known splash fill profile with a proven performance track record, now made by the people who invented precision manufacturing. Named after Neil Kelly, the man responsible for significant contributions in the field of crossflow wet cooling technology and publisher of the Kelly Handbook of Crossflow Cooling Tower Performance, this classic design maximizes practicality. With its 4.25" (108mm) width and 1/8" (3mm) wire overhang, it minimizes water streaming between fill layers. With its inverted-V stiffener it maximizes beam strength, and with its nesting design it minimizes shipping costs. Kelly Bar can be configured in either parallel or perpendicular to airflow orientations, and in any standard fill arrangement depending on thermal requirements. When used with Brentwood's retainer clip, droplet induced vibration and flutter is reduced, creating more energetic droplet rebound and increased thermal performance. Made from rigid PVC that meets CTI STD-136 for PVC material used in

cooling tower service and UV protected with ultra-fine carbon black, the Kelly Bar is offered in 50 mil (1.3 mm) standard gauge for up to 36" (915mm) spans and in 80 mil (2.0mm) for up to 48" (1219mm) spans.

Sample Specification

The Kelly Bar splash fill shall be extruded from rigid PVC meeting CTI STD- 136 with carbon black and titanium dioxide added as a UV inhibitor. It shall have a flame spread rating of 15 or less (per ASTM E-84) and have a material thickness of 50 mils for the standard duty bar, or 80 mils for the heavy duty bar. The Kelly Bar shall be installed on wire mesh using injection molded retainer clips to hold the bar in place, and reduce water induced bar vibration. The bar shall be dimensionally straight and true across its entire length without bow or twist and be able to free span 36" (915mm) between supports for the standard duty gauge and up to 48" (1219mm) for the heavy duty gauge.