



# CrossOver™ CX-L Lifetime Application Specification



**I PREPARATION AND REQUIREMENTS:** Always follow local buildings codes for you specific region. Ensure the deck is dry, smooth and without voids or unsupported areas. Remove any and all existing nails, fasteners or staples. All decayed, rotting, rusted or broken materials must be removed and replaced before installing your roof underlayment. Deck must be in sound condition, stable and secured to sound framing with the correct fasteners, clips and spacing as per local building codes and/or shingle or roofing manufacturers published specifications. If using new OSB sheathing or plywood, a gap should be left between sheets to allow for expansion and contraction of new sheathing and prevent bulging and ridges from forming. Spacing should be approximately 1/8" at end joints and 3/16" at side joints. Verify with the shingle or other roofing manufacturer's specifications. To help alleviate expansion and contraction of new OSB or plywood, allow the material to be pre-conditioned prior to installation. Always use a minimum of 1" long corrosive resistant nails with a minimum of 3/8" head (ring shank nail leg is recommended). Staples should NOT be used. If underlayment is left exposed more than five days, 1" plastic caps or tin caps must be used. These caps may also be required as per local building codes. Check local codes prior to starting work. Hammer in all nails at a 90° angle to the roof deck. Nails should be snug and hammered flush to the deck with no spaces or gaps. Where you have seams, joints or tears that require sealant, use APOC approved sealants or tapes. It is recommended to seal laps when there will be exposure to winds or driving rain. APOC SB-1 Self-Bond™ Underlayment is required for extended warranty. APOC SB-1 should be installed in all valleys, along all perimeter edges, and around all penetrations according to the product instructions.

**II APPLICATION:** For Steep Sloped Roofs (over 4:12), before starting, always ensure that the deck has been properly prepared as noted above. Run material horizontally starting at the bottom edge of the roof with gray printed side up. Carefully set roll in place at the edge of the roof and unroll 2 - 3 feet. Align the underlayment to the edge of the rake and eaves, but not over the sides of the building. When the underlayment is properly positioned and straight, install 2 nails approximately 6 - 8" apart along top edge of the underlayment to hold it in place. Next, roll out CrossOver™ CX-L Underlayment approximately half way across the roof, or about 20 - 25 feet. In windy conditions, work with approximately one half of this distance. Pick up the roll and pull until tight. Line up the edge of the roll with the eaves (bottom edge of the roof) and eliminate any wrinkles or buckles, then set underlayment in place. Next, standing above the underlayment, nail the top row of fasteners in place followed by the three required fasteners at the underlayment edge (vertical edge where roll started). Once complete, install the remainder of the nails in the quantity and pattern of the job requirements or local code requirements throughout the field of the underlayment. See Below for nail pattern options. Continue installation to rake or gable edge of roof. Install successive layers of underlayment moving up the slope of the roof and parallel to the eaves and previous layer. Horizontal laps should be a minimum of 4" over the previous layer of underlayment. Where two different pieces are required on vertical seams (start of a new or cut roll), overlap the ends a minimum of 6". All end laps in succeeding course should be located at least 6 ft. from the end laps in the preceding course. At all hip, valley and ridge locations, overlap adjoining layers a minimum of 6". Where the roof meets a vertical surface (walls, chimneys, etc), install CrossOver™ CX-L 3 - 4" up the surface.

For Low Sloped surfaces (2:12 up to 4:12) and for projects requiring a Lifetime warranty, two plies of underlayment must installed. Begin by fastening a 19.5" wide strip of underlayment placed along the eaves. Next, place a full 37.25" wide sheet horizontally along the eaves completely overlapping the starter layer. All succeeding courses will be full width sheets and should be positioned to overlap previous layer by 19.25". For ease of application, a line printed on underlayment denoting this measurement.

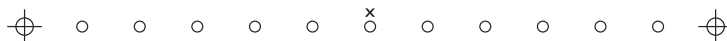
### III A. Exposure Length & Pattern (<5 Days):

When installing primary roofing materials (shingles, tile, etc.) within five days of application, and there is no wind, fasten underlayment a minimum of 24" o/c at the center of the roll as well as both side laps. This is achieved by fastening a nail in every target symbol printed on the underlayment. The symbol for the 24 o/c pattern is:



### B. Exposure Length & Pattern (>5 Days):

When the underlayment is exposed longer than five days prior installing primary roofing materials (shingles, tile, etc) or if windy conditions are present, increase the number of fasteners as required. Fasten a minimum of both outside laps at 12" o/c and the center of the roll at 18" o/c. Always check and follow local building codes and requirements for fastening patterns. For limited lifetime warranty to be valid, primary roof covering materials must be applied within 30 days of CrossOver CX-L application. Use the pattern guide to measure lengths with every dot measuring 2" and the midpoint of the 24" o/c marked with an "x".



End.