



# NICORE CONNECTION DETAIL

## SPECIFICATIONS

1. ALL MANUFACTURING IS IN ACCORDANCE WITH THE P.C.I. MANUAL FOR QUALITY CONTROL (MNL-116. LATEST EDITION)
2. INITIAL PRESTRESSING ON EACH STRAND IS 60% OF ULTIMATE, PLUS CORRECTIONS.
3. RELEASE STRENGTH IS 3,800 PSI.
4. TYPE OF TOP SURFACE FINISH IS MACHINE CAST SMOOTH OR STRUCTURAL BROOM. BOTTOM OF PLANK IS EXPOSED TO VIEW AND WILL BE STANDARD GRADE FORM FINISH, PER P.C.I. MNL-116 APPENDIX C.
5. THE ENTIRE HOLLOW CORE PLANK SECTION IS MANUFACTURED FROM 6,000 PSI CONCRETE.
6. LIFTING AND STACKING POINTS MAXIMUM OF 2'-0" FROM EACH END UNLESS NOTED OTHERWISE.
7. CAMBER IS INHERENT TO PRESTRESSED HOLLOW CORE PLANK AND IS A FUNCTION OF THE AMOUNT OF ECCENTRIC PRESTRESSING FORCE NEEDED TO CARRY THE SUPERIMPOSED DESIGN LOADS. PREDICTION OF CAMBER IS BASED ON EMPIRICAL FORMULAS AND IS AT BEST AN ESTIMATE. ACTUAL CAMBER IS USUALLY HIGHER THAN CALCULATED VALUES, THEREFORE CALCULATED LONG-TERM VALUES SHOULD NEVER BE CONSIDERED ANY BETTER THAN ESTIMATES. NONSTRUCTURAL COMPONENTS ATTACHED TO MEMBERS WHICH COULD BE AFFECTED BY CAMBER VARIATIONS, SUCH AS PARTITIONS OR FOLDING DOORS, SHOULD BE PLACED WITH ADEQUATE ALLOWANCE FOR THESE VARIATIONS. CALCULATION OF TOPPING QUANTITIES SHOULD ALSO RECOGNIZE THE IMPRECISION OF CAMBER CALCULATIONS. WHERE COMPOSITE TOPPING IS PROVIDED, THE TOPPING THICKNESS SHOWN HEREON SHALL BE MAINTAINED AT MIDSPAN OF THE PLANK. THE COMPOSITE TOPPING CAN FOLLOW THE CURVATURE OF THE PLANK, OR THE THICKNESS CAN BE INCREASED AT THE BEARING ENDS TO MAINTAIN A FLAT FLOOR. BASED UPON EXPERIENCE, CAMBER AT THE TIME OF ERECTION MAY BE ESTIMATED AS FOLLOWS;

SPAN EQUALS 10 FEET TO 15 FEET ..... 5/8 INCH

SPAN EQUALS 15 FEET TO 20 FEET ..... 3/4 INCH

SPAN EQUALS 20 FEET TO 25 FEET ..... 1 INCH

SPAN EQUALS 25 FEET TO 30 FEET ..... 1 1/4 INCH

SPAN EQUALS 30 FEET TO 35 FEET ..... 1 3/8 INCH

SPAN EQUALS 35 FEET TO 40 FEET ..... 1 3/8 INCH

SPAN EQUALS 40 FEET TO 45 FEET ..... 1 1/2 INCH

8. VARIATIONS OF + OR - 3/8" BETWEEN TOPS AND BOTTOMS OF ADJACENT PLANK MUST BE ACCEPTABLE (FOR DELIVERED ONLY FLOOR PLANK WITHOUT TOPPING, ANY VARIATIONS FROM THIS MUST BE FEATHERED BY G.C. FOR INSTALLATION OF 55 LBS. MIN. PAD AND CARPET.)