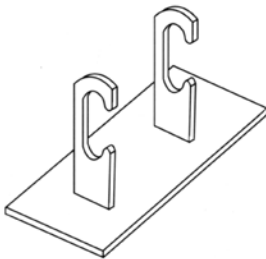
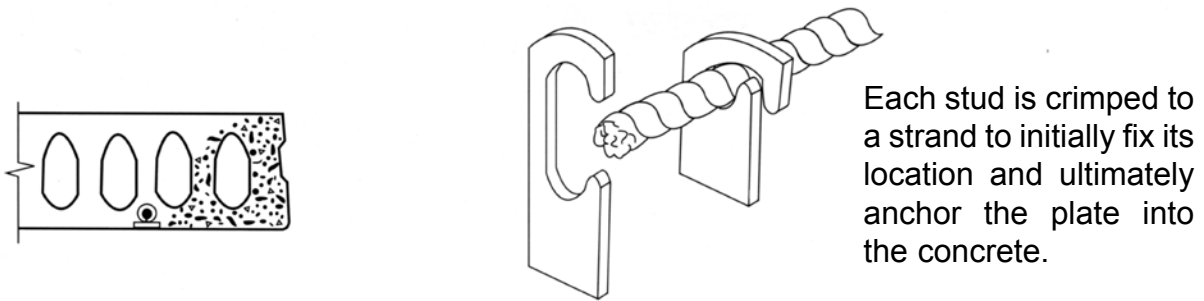


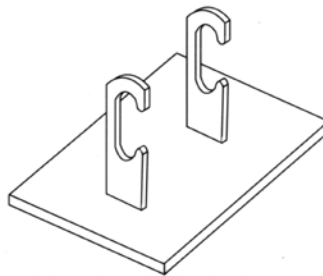
BOTTOM WELD PLATES

WITH STUD ANCHORS

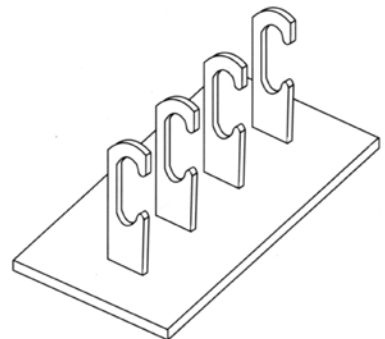
As part of a program for evaluating various inserts used in Spancrete® hollowcore plank, weld plates, as shown below, were tested in the bottom of some plank. These plates were located on the casting bed prior to placing concrete, and centered on one of the bottom prestressing strands. Bending the stud tightly over the strand anchors the plate in its predetermined location.



BWA-3
 Plate $\frac{3}{16}$ " x 2" x 6" with
 Two $\frac{1}{8}$ " x $\frac{5}{8}$ " x $\frac{7}{8}$ "
 Rectangular Studs



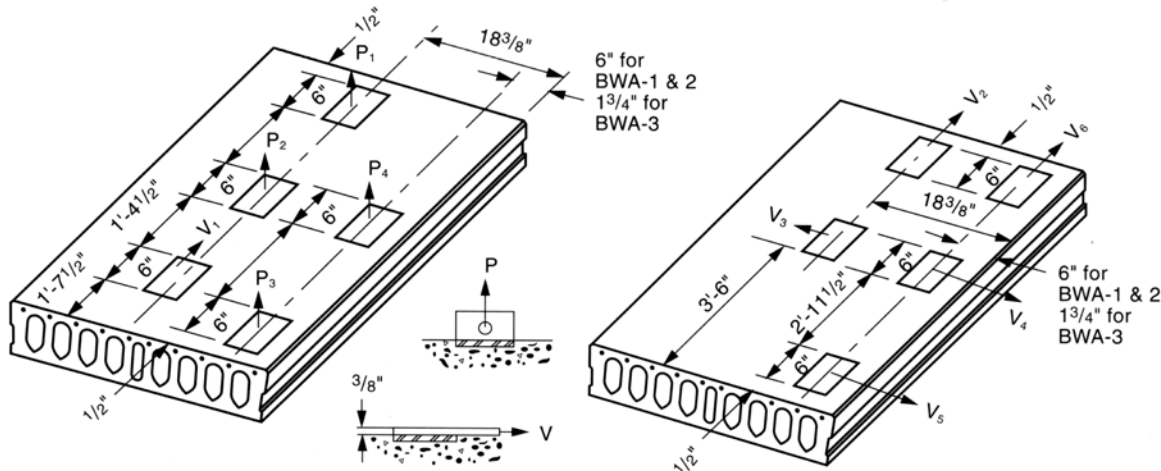
BWA-2
 Plate $\frac{3}{8}$ " x 4" x 6" with
 Two $\frac{1}{8}$ " x $\frac{5}{8}$ " x $\frac{7}{8}$ "
 Rectangular Studs



BWA-1
 Plate $\frac{3}{8}$ " x 4" x 6" with
 Four $\frac{1}{8}$ " x $\frac{5}{8}$ " x $\frac{7}{8}$ "
 Rectangular Studs

Test setup and results are given on the reverse side.

BOTTOM WELD PLATE TEST SETUP (STUD ANCHORS)



SUMMARY OF TEST RESULTS (in kips)

First value given is average test capacity. Second value given is lowest test capacity.

INSERT	P ₁	P ₂	P ₃	P ₄	V ₁	V ₂	V ₃	V ₄	V ₅	V ₆
BWA-3	2.8	3.1	1.9	2.9	8.6	5.4	9.7	1.9	.95	3.0
	2.5	2.9	1.3	2.7	8.6	4.7	9.3	1.8	.70	2.6
BWA-2	3.6	4.1	3.1	2.9	14.3	5.3	12.7	6.2	2.7	3.2
	3.3	4.0	2.7	2.8	10.6	4.2	9.2	3.7	2.5	3.2
BWA-1	4.1	5.8	2.5	4.0	20.3	8.2	19.6	5.9	2.9	4.9
	3.3	5.2	2.4	3.1	19.6	5.6	15.2	5.0	2.6	4.2

Note: Actual test values must be reduced by appropriate strength reduction factors and safety factors to obtain working load values.

This research was done using 40" wide, 8" thick Standard Spancrete® hollowcore. However, this concept applies to all Spancrete cross sections.

EAST

Oldcastle Precast, Inc.
South Bethlehem, NY

Oldcastle Precast, Inc.
Manchester, NY

Conewago Precast Building Systems
Hanover, PA

MIDWEST
Spancrete, Inc.
Green Bay, WI

Spancrete Industries, Inc.
Waukesha, WI

Hanson Structural Precast Midwest, Inc.
Maple Grove, MN

Spancrete of Illinois, Inc.
Arlington Heights, IL

WEST
Hanson Structural Precast Pacific, Inc.
Inwindsale, CA

KIE-CON
Div. of Kiewitt Pacific Co.
Antioch, CA

Owell Precast
Sandy, UT

SOUTHWEST
Manco Structures, Ltd.
Schertz, TX

SOUTH

Cement Industries, Inc.
Fort Myers, FL

Florida Precast Industries, Inc.
Sebring, FL

MC Precast, Inc.
Atlanta, GA

CANADA
Burnco Concrete Products Ltd.
Calgary, Canada

EGYPT
Samcrete Egypt
Ahram, Giza

MEXICO

ITISA
Mexico City, Mexico

Spancrete Noreste
Monterrey, Mexico

TURKEY
Yapi-Merkezi
Camlica-Istanbul, Turkey

CARIBBEAN
Preconco Limited
Barbados, West Indies

Spancrete Caribbean, Ltd.
Trinidad, West Indies

UAE
Hi-Tech Concrete Products, LLC
Abu Dhabi, UAE

MACHINE MANUFACTURER

Spancrete Machinery Corporation
Waukesha, WI

Spancrete is also manufactured in

Armenia	Denmark	Russia
Australia	Guatemala	South Korea
Belgium	Hungary	Spain
Brazil	Ireland	Switzerland
China	Israel	
Croatia	Japan	