

# Span Notes



No. 6

## Since 1960 Spancrete research and testing has helped you design and build with confidence

The Spancrete Manufacturers' Association's ongoing research-and-testing program is by far the most extensive ever carried out in the hollowcore industry, and it continues to set the standard for state-of-the-art precast plank. During this time, more than half a billion square feet of Spancrete® hollowcore precast has been produced.

All of the information developed in this research-and-testing effort has been published and is available to developers, architects, engineers, and contractors. With this wealth of information and data, designers and builders can proceed with confidence.

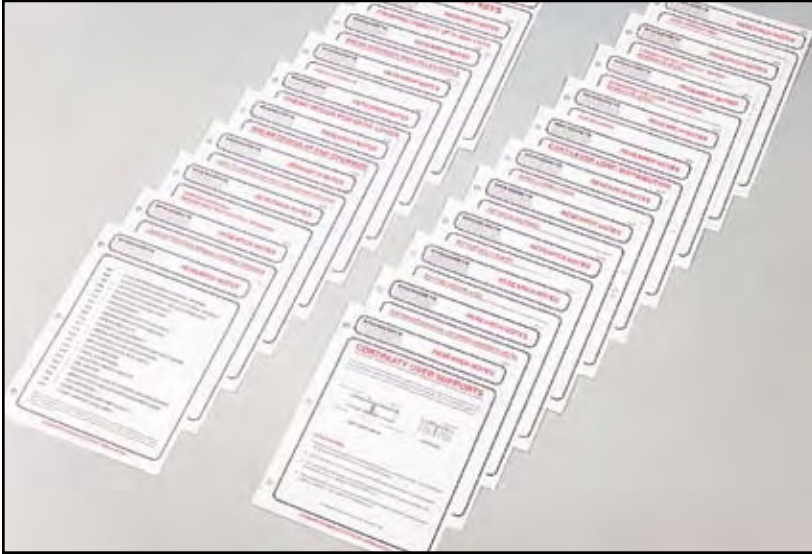
Many types of publications are available, at no cost, to assist designers and builders. These publications range from full-color brochures to research data sheets and special series guides.

### **“A Better Way to Build” brochure series**

These brochures contain photographs, illustrations, and descriptions of the many Spancrete features, functions, and benefits. The following Better Way to Build brochures are available:

- **Schools**
- **Fire Safety**
- **Hotels/Motels**
- **Precast System Solutions**
- **Better Way to Build General**
- **Multi-Family Housing**
- **Spancrete® Insulated Wall Panels**
- **Vehicle Wash Maintenance Facilities**
- **Residential Housing**
- **Industrial Buildings**
- **Justice Buildings**
- **Office Buildings**
- **Student Housing**
- **Assisted Living**





## **“Research Notes” technical series**

After years of ongoing research and testing, the Spancrete Manufacturers’ Association has compiled data on all important characteristics of Spancrete® plank. Published as “Research Notes,” this information is extremely valuable to architects and engineers involved in Spancrete projects. The many topics include details, load distribution, diaphragm action, shear design, and other design situations that occur in building with Spancrete plank.

## **Research Notes**

- 1001: **Load Distribution Around Central Openings**
- 1002: **Load Distribution Around Multiple Central Openings**
- 1003: **Width-to-Span Ratio Effect on Load Distribution**
- 1004: **Shear Design at End Openings**
- 1005: **Shear Design for Edge Loads**
- 1006: **Shear Strength**
- 1007: **Shear Strength with Filled Cores**
- 1008: **Crushing Capacity of Plank Ends**
- 1009: **Bars in Grout Keys**
- 1010: **Continuity Over Supports**
- 1011: **Diaphragm Shear on Untopped Spancrete Decks**
- 1012: **Bottom Weld Plates – With Stud Anchors**
- 1013: **Bottom Weld Plates – With Wire Loops**
- 1014: **Top Weld Anchors**
- 1015: **Dowel Connections**
- 1016: **Cantilever Load Distribution**
- 1017: **Side Anchors**
- 1018: **Concentrated Loads on Untopped Spancrete Decks**
- 1019: **Concentrated Loads on Topped Spancrete Decks**
- 1020: **Load Distribution**
- 1021: **Span Limitations – Floor Vibrations – Rhythmic Activity**
- 1022: **Span Limitations – Floor Vibrations – Heel Drop Response**
- 1023: **Span Limitations – Floor Vibrations – Flexible Support**
- 1024: **Load-Bearing Spancrete Wall Panel Design**
- 1025: **Load-Bearing Top Connection Design for Spancrete Wall Panels**
- 1026: **Non-Bearing Top Connection Design for Spancrete Wall Panels**
- 1027: **Base Connection Design for Spancrete Wall Panels**
- 1028: **Sound Transmission Class (STC) Rating for Spancrete Wall Panels**
- 1029: **Bottom Inserts – Power Fasteners**
- 1030: **Bottom Inserts – Red Head**
- 1031: **Bottom Inserts – Hilti**

## **“Span Notes” special topic series**

Helpful information on using Spancrete® hollowcore precast for designers and builders is presented in these publications. Subjects include such topics as cutting of openings, applying ceiling finishes, carpeting, scheduling, and erection. “Span Notes” on other subjects are published on a regular basis.



## **Span Notes**

- 1: Attractive ceilings are easy with Spancrete®**
- 2: Planning for openings in Spancrete®**
- 3: Application of pad & carpet over Spancrete® saves time**
- 4: Spancrete delivers on time**
- 5: Spancrete® projects on schedule**
- 6: Spancrete® research and testing**
- 7: Use the right tools, correct procedures, and work safely**
- 8: Tile installation over Spancrete®**
- 9: Cutting and drilling openings in Spancrete® is easy**
- 10: Advantages of prestressed concrete**
- 11: Topping off your prestressed hollowcore floor**
- 11B: More on topping off your Spancrete® floor**
- 12: Using Spancrete® for inexpensive space under your garage**
- 13: Spancrete® and structural steel is a proven system**
- 14: Building a new home with Spancrete® is easy**
- 15: Jointless textured ceiling applications on Spancrete® plank**
- 16: Wall panel openings are easily achieved with Spancrete®**
- 17: Achieve longer spans & higher load carrying capacities**

