

PROCEDURE FOR THE PROPER INSTALLATION OF PRECAST WALL PANELS, DOUBLE TEES, BEAMS, COLUMNS

1 SHIPPING NOTIFICATION

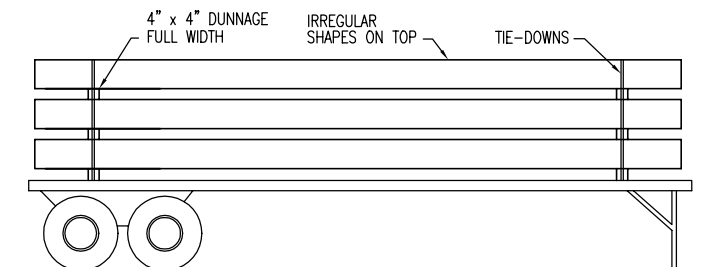
- A.) PLEASE PROVIDE MINIMUM OF 7 WORKING DAYS NOTICE PRIOR TO SITE REQUIREMENTS. YOUR IPC TRANSPORTATION MANAGER CAN BE CONTACTED AT 515-648-2579
- B.) PLACE ORDER BY PIECE MARK NUMBER AND REQUIRED SEQUENCE OF INSTALLATION. REFER TO 3A.
- C.) THE PIECE MARK NUMBER IS LOCATED ON THE END OF THE PRECAST COMPONENT.
- D.) PRIOR TO PLACEMENT OF ORDER VERIFY THAT THE ERECTION DRAWINGS IN YOUR POSSESSION ARE CURRENT AND UP-TO-DATE BY CONTACTING YOUR PROJECT COORDINATOR. ONLY IPC DRAWINGS STAMPED "APPROVED FINAL FOR CONSTRUCTION" ARE TO BE USED.
- E.) ACTUAL SHIPPING DATES ARE SUBJECT TO AVAILABILITY OF TRAILERS, WEATHER AND PRIOR SHIPPING COMMITMENTS.
- F.) SUPPLY TRANSPORTATION MANAGER WITH WRITTEN DIRECTIONS TO JOBSITE.

2 BEFORE ORDERING

- A.) BEARING REQUIREMENTS AND ERECTION DETAILS TO BE AS PER IPC DRAWINGS AND DETAILS.
- B.) VERIFY ALL SITE DIMENSIONS AND CONDITIONS SHOWN ON IPC DRAWINGS AND DETAILS PRIOR TO ORDERING OF PRECAST COMPONENTS TO ENSURE PROPER FIT. ALL CORRECTIONS OR FIELD MODIFICATIONS ARE TO BE COMPLETED PRIOR TO PLACING ORDER.
- C.) WRITTEN APPROVAL SHALL BE OBTAINED FROM THE ENGINEER OF RECORD (NOT IPC) PRIOR TO ERECTION OF THE PRECAST COMPONENTS FOR STABILITY OF THE SUPPORTING STRUCTURE.
- D.) ENSURE ALL MATERIAL NECESSARY FOR THE ERECTION OF PRECAST COMPONENTS IS ON HAND AND PROPERLY LOCATED AS PER IPC DRAWINGS AND DETAILS, AS WELL AS PER STRUCTURAL & ARCHITECTURAL DRAWINGS.

3 TRANSPORTATION

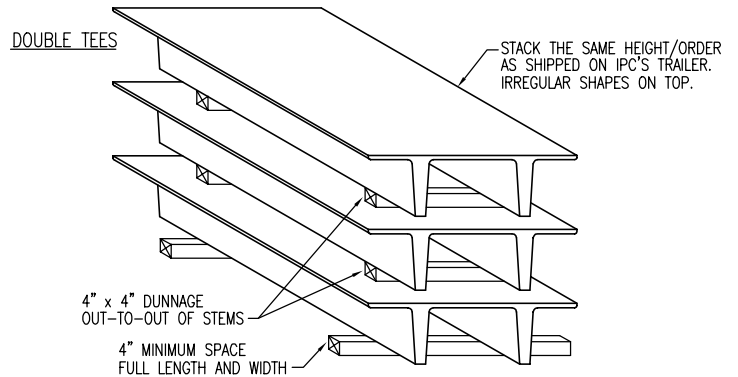
- A.) LOADS MAY BE GOVERNED BY LEGAL TRAILER CAPACITY AND/OR GEOMETRY. SEQUENCE OF SLABS FOR OFF-LOADING MAY DIFFER SLIGHTLY FROM THAT ORDERED DUE TO SLAB GEOMETRY AND LOAD OPTIMIZATION.
- B.) TIE DOWNS AND MINIMUM 4" WIDE DUNNAGE TO BE ALIGNED VERTICALLY.
- C.) PLACEMENT OF DUNNAGE WILL BE SHOWN ON IPC HANDLING DIAGRAMS.
- D.) MOVING THE LOAD WITHOUT PROPER TIE-DOWNS MAY CAUSE DAMAGE TO THE PRECAST COMPONENTS.
- E.) INSPECT PRECAST COMPONENTS PRIOR TO OFF-LOADING FOR ANY DAMAGE AND REPORT IT IMMEDIATELY TO THE IPC PROJECT MANAGER. OTHERWISE, IT IS UNDERSTOOD THAT THE PRODUCT ARRIVED TO THE JOB SITE DAMAGE FREE. ANY DAMAGE TO THE PRODUCT DURING INSTALLATION WILL BE THE RESPONSIBILITY OF OTHERS.
- F.) SUITABLE ACCESS SHALL BE PROVIDED AND MAINTAINED TO AND FROM THE TRAILER STAGING AREA.
- G.) ALL DUNNAGE TO BE RETURNED TO IPC.



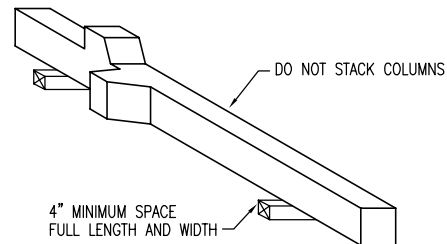
4 SITE STORAGE

IF REQUIRED, SITE STORAGE OF PRECAST COMPONENTS SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:

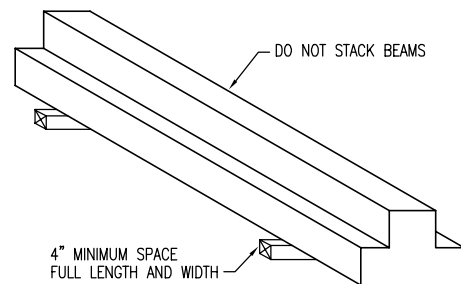
- A.) STORAGE AREA TO BE FIRM, LEVEL AND TRUE.
- B.) BOTTOM PRECAST COMPONENT TO BE BLOCKED MINIMUM 4" ABOVE GRADE, FULL LENGTH AND WIDTH, AS TO PREVENT SETTLEMENT OF PRECAST STACK.
- C.) NO OTHER LOAD ON TOP OF THE PRECAST STACK IS ALLOWED UNLESS WRITTEN APPROVAL FROM IPC ENGINEERING IS OBTAINED.
- D.) ALWAYS HANDLE DOUBLE TEES AND BEAMS IN THE FLAT HORIZONTAL POSITION. NEVER TURN COMPONENT ON EDGE OR END UNLESS APPROVED BY IPC ENGINEERING.
- E.) PLACEMENT OF DUNNAGE WILL BE SHOWN ON IPC HANDLING DIAGRAMS.



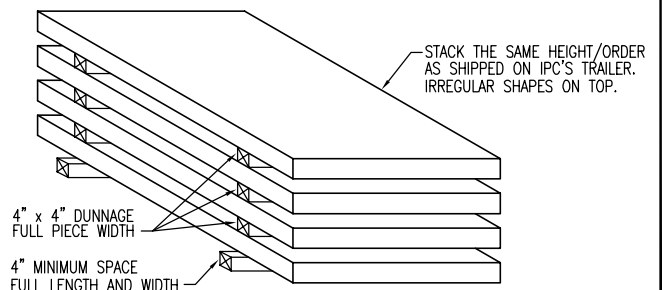
COLUMNS



BEAMS



WALL PANELS



OFFICE

SALES
ENGINEERING
ACCOUNTING

601 S.W. 9TH STREET, SUITE B
DES MOINES, IOWA 50309
TEL: 515-243-5118
FAX: 515-243-5502

DES MOINES
PRODUCTION PLANT

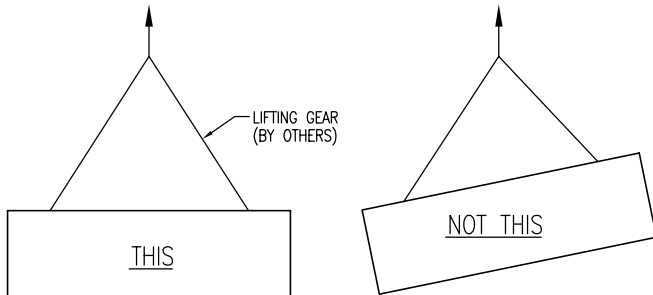
HOLLOW CORE
WALL PANELS
DOUBLE TEES
SHIPPING

3312 S.E. GRANGER STREET
DES MOINES, IOWA 50317
TEL: 515-265-0711
FAX: 515-266-6280

**PROCEDURE FOR THE PROPER INSTALLATION OF
PRECAST WALL PANELS, DOUBLE TEES, BEAMS, COLUMNS**

5 HOISTING

- A.) USE LIFTING GEAR OF ADEQUATE CAPACITY WITH MINIMUM SAFETY FACTOR OF 5:1. INSPECT GEAR AT LEAST DAILY FOR SIGNS OF WEAR AND/OR DAMAGE. INSTALLER TO VERIFY SAFE WORKING CAPACITIES OF RING CLUTCHES, SLINGS AND/OR SPREADER BARS PRIOR TO USE. NEVER LIFT MORE THAN RATED CAPACITY.
- B.) ONLY USE EQUIPMENT SPECIFICALLY SUITED FOR THE ERECTION OF PRECAST CONCRETE. NEVER HANDLE PRECAST FROM THE MIDDLE OF THE COMPONENT (e.g.. FORKLIFT).
- C.) ONLY ONE PRECAST COMPONENT TO BE HOISTED AT A TIME.
- D.) ENSURE LOAD IS BALANCED TO AVOID SLIPPING AND TO MINIMIZE TWIST ON LIFTING GEAR AND PRECAST COMPONENT. PRECAST TO BE HANDLED LEVEL AND TRUE AT ALL TIMES.
- E.) DO NOT USE PRECAST COMPONENT AS A PLATFORM FOR HOISTING OTHER BUILDING MATERIALS UNLESS A PROCEDURE IS SUBMITTED BY AN ENGINEER.
- F.) HAND TRAP! NEVER HANDLE THE PRECAST COMPONENT ON ITS SIDE, ONLY ON TOP SURFACE OR BY LIFTING GEAR. NEVER PUT HANDS ON SIDE OF COMPONENT. KEEP HANDS ON TOP ALL TIMES.
- G.) DO NOT TILT PRODUCT AS TO BEAR LOADS ONTO PRODUCT BELOW.



6 PLACEMENT

- A.) PRECAST COMPONENTS TO BE LOCATED AS PER IPC DRAWINGS. WHEN APPLICABLE, REFER TO IPC DRAWINGS TO DETERMINE MINIMUM BEARING REQUIREMENTS. BEARING LESS THAN SHOWN TO BE APPROVED BY IPC ENGINEERING.
- B.) IPC DRAWINGS ARE TO BE READ IN CONJUNCTION WITH ARCHITECTURAL & STRUCTURAL DRAWINGS FOR CONNECTION DETAILS OF OTHER BUILDING COMPONENTS AND/OR STRUCTURAL SYSTEMS INTERFACING WITH PRECAST COMPONENTS.
- C.) ALL HANGERS, CLIPS, TIES, SUPPORTS, ETC. NECESSARY ARE TO BE LOCATED AS PER IPC DRAWINGS AND DETAILS AS WELL AS ARCHITECTURAL/STRUCTURAL DRAWINGS.
- D.) ANY DEVIATION SHALL BE REPORTED IMMEDIATELY TO IPC ENGINEERING.
- E.) ERECT PRECAST COMPONENTS WITH PIECE MARK AT END INDICATED ON IPC'S DRAWINGS AND AT END OF PRECAST COMPONENT.
- F.) THE DESIGN, INSTALLATION AND INSPECTION OF ALL TEMPORARY BRACING AND SHORINGS SHALL BE THE RESPONSIBILITY OF THE INSTALLER'S ENGINEER (NOT IPC).
- G.) THE INSTALLER IS RESPONSIBLE FOR ENSURING ALL PRECAST COMPONENTS ARE PROPERLY ALIGNED AND LEVELED TO WITHIN ALLOWABLE TOLERANCES.
- H.) PRECAST INSTALLATION TO STRUCTURAL STEEL SHALL BE REVIEWED BY THE ENGINEER OF RECORD (NOT IPC) WITH RESPECT TO UNBALANCED LOADING OF SAME.
- J.) ERECT PRODUCT TO TOLERANCES SPECIFIED IN PCI MNL-116
- K.) IF PRECAST IS BEING USED FOR BRACING, THE STRUCTURE IS NOT ASSUMED TO BE IN A FINAL BRACED CONDITION UNTIL ALL PRECAST IS CONNECTED IN ACCORDANCE WITH IPC AND STRUCTURAL DRAWINGS.
- L.) SUBJECT TO APPROVAL FROM THE ARCHITECT/ENGINEER OF RECORD (NOT IPC), PRECAST COMPONENTS MAY BE ANCHORED, DRILLED OR POWER ACTUATED, PROVIDED NO CONTACT IS MADE WITH PRESTRESSING STEEL. SHOULD SPALLING OCCUR, THE REPAIR OF THE SPALL SHALL BE THE RESPONSIBILITY OF OTHERS.
- M.) ALL FIELD WELDING OF CONNECTIONS SHOWN ON IPC DRAWINGS AND DETAILS TO BE PERFORMED BY WELDERS QUALIFIED WITHIN THE PREVIOUS TWELVE MONTHS, IN ACCORDANCE WITH AWS B2.1. ALL FIELD WELDING TO CONFORM TO THE REQUIREMENTS OF AWS D1.1-STRUCTURAL WELDING CODE-STEEL, AND AWS D1.4-STRUCTURAL WELDING CODE-REINFORCEMENT, IF APPLICABLE.

7 FIELD REPAIRS AND MODIFICATIONS

- A.) IF PRECAST IS DAMAGED, OR REQUIRES MODIFICATIONS TO SUIT SITE CONDITIONS, CONTACT IPC ENGINEERING IMMEDIATELY.
- B.) REPAIR OR REWORK PROCEDURES ARE TO BE REVIEWED BY IPC ENGINEERING PRIOR TO IMPLEMENTATION.
- C.) PRIOR TO ANY CUTTING OR CORING, CONTACT IPC ENGINEERING.

- 8** IF YOU HAVE
- DAMAGED PRODUCT?
 - IMPROPER FIT?
 - FIELD MODIFICATIONS REQUIRED?
 - QUESTIONS ABOUT THESE DRAWINGS?

CALL YOUR IPC PROJECT MANAGER OR PROJECT COORDINATOR AT (515) 243-5118

NOT USED