

Issue Date: 09-20-2019
Revision Date: 09-29-2021
Renewal Date: 09-30-2022

DIVISION: 03 00 00 CONCRETE
Section: 03 11 00 Concrete Forming

REPORT HOLDER:
Schauenburg Flexadux Corp.
25 Rodeo Drive
Fairmont, WV 26554
304-560-9353

<https://schauenburg-us.com/novoform/>

REPORT SUBJECT:
Novoform™ System

1.0 SCOPE OF EVALUATION

1.1 This Research Report addresses compliance with the following Codes:

- 2021, 2018 *International Building Code*® (IBC)
- 2021, 2018 *International Residential Code*® (IRC)
- ACI 347-14 Guide to Formwork for Concrete
- 2020 *Florida Building Code including HVHZ*
- 2019 *California Building Code*

NOTE: This report references 2021 Code sections with [2018 and FBC 2020] Code sections shown in brackets where they differ

1.2 Novoform™ has been evaluated for the following properties:

- Rod Tensile Strength of Steel
- Plastic Barrier Tensile Strength
- Plastic Barrier Puncture Resistance

1.3 Novoform™ has been evaluated for the following uses:

- Stay in place concrete formwork for cast-in-place concrete foundation elements such as footings, grade beams and pile caps.

2.0 STATEMENT OF COMPLIANCE

Novoform™ complies with the Codes listed in Section 1.1, for the properties stated in Section 1.2 and uses stated in Section

1.3, when installed as described in this report, including the Conditions of Use stated in Section 6.

3.0 DESCRIPTION

3.1 Novoform™ is welded mesh formwork system. It is composed of sheets of laminated polyethylene over welded wire fabric. Novoform™ includes plastic spacers placed on reinforcing steel cages to support the Novoform™ during backfill placement.

4.0 PERFORMANCE CHARACTERISTICS

4.1 Novoform™ provides control for placement of reinforcing steel including required clearances in accordance with ACI 318-19. [ACI 318-14]

5.0 INSTALLATION

5.1 General:

Novoform™ must be installed in accordance with the manufacturer's published installation instructions, the applicable Code, and this Research Report. A copy of the manufacturer's instructions must be available on the jobsite during installation.

5.2 Application:

Novoform™ shall be installed with the directions found on page 4.

6.0 CONDITIONS OF USE

6.1 Installation must comply with this Research Report, the manufacturer's published installation instructions, and the applicable Code. In the event of a conflict, this report governs.



6.2 Novoform™ is to be used as flexible formwork when concrete is placed against earth and supported by a rebar cage. Reinforcing offsets to be per ACI 318-19. [ACI 318-14]

6.3 The Novoform™ is manufactured under a quality control program with inspections by Intertek Testing Services NA, Inc. (AA-647).

7.0 SUPPORTING EVIDENCE

7.1 Reports of tests in accordance with ASTM E8, ASTM D638 and ASTM D4833.

8.0 IDENTIFICATION

The Novoform™ is identified with the manufacturer’s name **Schauenburg, Flexadux Corp.**, address and telephone number, the product name Novoform™, the Intertek Mark as shown below, and the Code Compliance Research Report number (CCRR-0315).



9.0 OTHER CODES

9.1 2017 FLORIDA BUILDING CODE. The Novoform™ System has been evaluated for compliance with the 2020 Florida Building Code – sixth edition. Including High Velocity Hurricane Zone (HVHZ).

- Intertek is an approved *evaluation entity* and *quality assurance entity* pursuant to Florida Statute 553.842 – *Product Evaluation and Approval*.

9.2 2019 CALIFORNIA BUILDING CODE. The Novoform™ System has been evaluated for compliance with the 2019 California Building Code.

10.0 CODE COMPLIANCE RESEARCH REPORT USE

10.1 Approval of building products and/or materials can only be granted by a building official having legal authority in the specific jurisdiction where approval is sought.

10.2 Code Compliance Research Reports shall not be used in any manner that implies an endorsement of the product by Intertek.

10.3 Reference to the <https://bpdirectory.intertek.com> is recommended to ascertain the current version and status of this report.



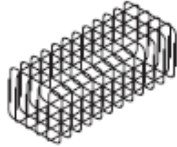


Installation Instructions

PILE CAP OR BASE ASSEMBLY - STEP BY STEP GUIDE

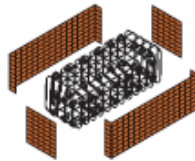
Cutting the Novoform™ pile cap panels allows easy access to fit reinforcement bars through the cap or base.

1 Position pile cap cage in trench to line and level.



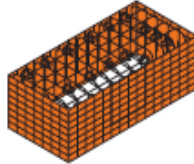
Pile cap area formed and leveled.

2 Using the Novoform™ instructions provided with order identify the marked panels for cap and base and place against the spacers.



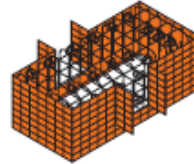
All Novoform™ panels marked per instructions, for simple and rapid assembly.

3 Mark the panel outline on the side of the cap or base assembly, as drawn, ready to form opening connections.



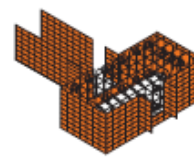
Use straight edge and marker to measure additional 1.0 inch width so panels fit inside 'doors'.

4 Cut center line and bottom line. Form 'inverted T', fold out 'doors', ready to accept Novoform™ panels.



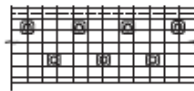
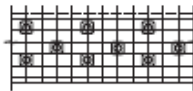
Leave top wire mesh intact and cut alternate wires at 'door' hinge line. This helps to give a tight fold and makes the folding easier. The 'doors' act as the grout seal. Spaces may be removed at door openings.

5 Select preformed Novoform™ panels and place inside the open 'doors'. Attach joint with wire tie.

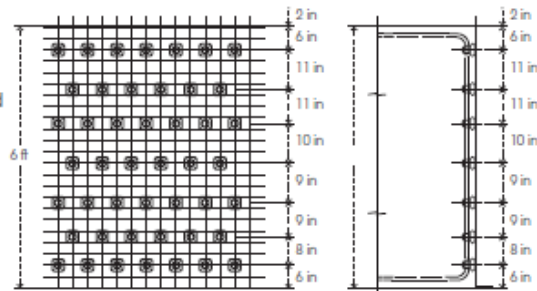


TYPICAL SPACER ARRANGEMENT

Will vary by depth of cap/base and ground conditions. Spacer centers to be adjusted as required to maintain specified concrete cover. Spacers to be staggered, as shown, where practical.

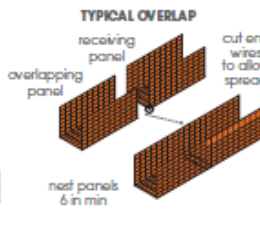
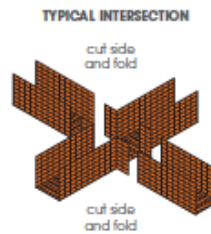
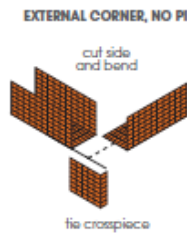
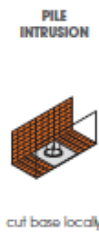
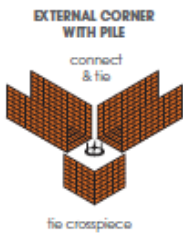


NovoForm™ recommendation: Maximum Novoform™ spacer centers 18 inches.



TYPICAL "U" SECTION CONNECTIONS

Will vary by depth of cap/base and ground conditions. Spacer centers to be adjusted as required to maintain specified concrete cover. Spacers to be staggered, as shown, where practical.

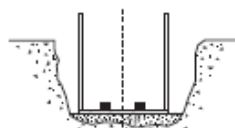


U SECTION INSTALLATION

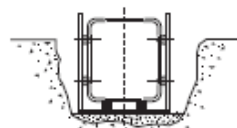
Recommended construction sequence for reinforced concrete ground beams.



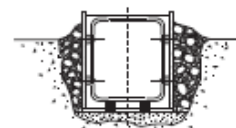
1 Excavate trench and form level base.



2 Position U section Novoform™ panel and place rebar chairs in base.



3 Insert rebar cage with fixed Novoform™ plastic side spacers to line and level.



4 Place loose backfill within top 2 inches of finished concrete level. Keep foot traffic and vehicles well clear of foundations under construction.

www.novoform.us

