NOVOFORM™

BEST PRACTICES AND INSTALLATION GUIDE

THE FUTURE OF FOUNDATION FORMWORK

NOVOFORM™

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Flexadux Corp.

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NOVOFORM™

Novoform™ is a light, easy to handle, and durable encapsulated wire permanent formwork system which provides a professional and cost-effective replacement to traditional timber in-ground formwork. The intention of this guide is to help aid Contractors, Engineers, and Inspectors to understand and install Novoform™ concrete forms in compliance with our installation standards as well as the industry standards set by the ACI. By adhering to the standards laid out in this guide and following the best practices that are recommended your Novoform™ installations will be smooth and trouble free.

CODE COMPLIANCE

Intertek

CCRR-0315

Novoform™ is an IBC and IRC certified product through Intertek.

More questions? Contact us!
www.novoform.us

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Preparing for Delivery

Prior to delivery

Ensure that the fully excavated trenches are as level as possible, with sub base ready to receive the Novoform™ as specified by Engineer. Pile Backfill material far enough away from the trenches to ensure no chances of cave-ins or collapse.

Adequate space for delivery

Designate an area where the Novoform™ shipment can be unloaded and stored prior to installing. Novoform™ will come fully wrapped on pallets.

Removal from Truck

Ensure you have the means to remove Novoform™ form the truck, such as a Telehandler or adequate man power.

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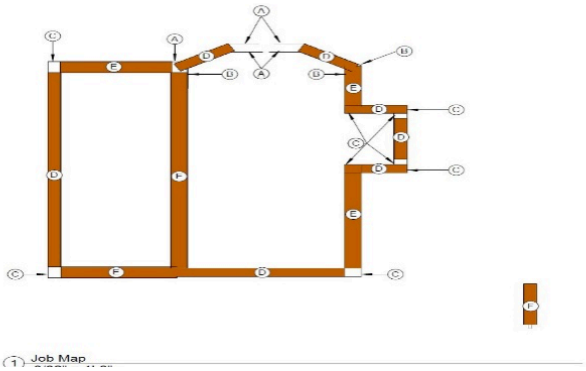
Included in Shipment

Bill of Materials.

Label Key	Item Number	Description.	Color	Number of Bends	Trench Depth	Base Width	Angle A	Angle B	Qty.
A	200307-1	Novoform Corner	Novoform	1	12"	48"	30°		5
B	200307-2	Novoform Corner	Novoform	1	12"	48"	60°		3
C	200307-3	Novoform Corner	Novoform	1	12"	48"	90°		9
D	200307-4	Novoform U-Shape	Novoform	2	11"	20"	90°	90°	14
E	200307-5	Novoform U-Shape	Novoform	2	11"	26"	90°	90°	14
F	200307-6	Novoform U-Shape	Novoform	2	11"	20"	90°	90°	30
Grand total									75



1 Job Map

Job Map

Read through the job map which indicates the placement of Novoform™ panels and the quantity of each piece.

Certification sticker

A Certification sticker is placed on the top left corner of an edge. The Part number is on this sticker. This is helpful to place the specific piece in the correct position.

PO Line	Planned Qty	Shipped Qty	Part Number/Description	Rev	PO Line
Sales Order:200307		Your PO:	Salesperson:Scott Gahan		
Sales Kit	5.00	5.00	NVFRM F1 NOV/011/1/3/NOVOFORM PAI NOVOFORM PANEL, 11"W x 8'L, ORANGE, CUT, W/1 BEND		
			Reference:		
			Our Part:		
		---------- Components ----------			
Sales Kit	3.00	3.00	NVFRM F1 NOV/011/1/3/NOVOFORM PAI NOVOFORM PANEL, 11"W x 8'L, ORANGE, CUT, W/1 BEND		
			Reference:		
			Our Part:		
		---------- Components ----------			
Sales Kit	9.00	9.00	NVFRM F1 NOV/011/1/3/NOVOFORM PAI NOVOFORM PANEL, 11"W x 8'L, ORANGE, CUT, W/1 BEND		
			Reference:		
			Our Part:		
		---------- Components ----------			
Sales Kit					

Packing Slip

Before starting to place the Novoform™, ensure to go through the packing slip to see if all of the correct pieces are there on site, check off as you go.

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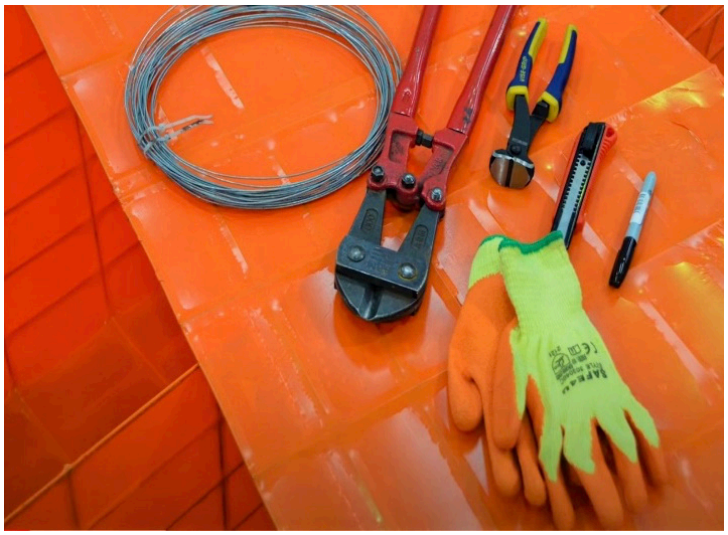
Installation Tools



Tools required

There are minimal tools needed to properly install Novoform™. Ensure you have the right tools on site prior to installing. It's good to have more than multiple of each for all of the crew to utilize.

Tools Checklist:

Bolt Cutters

Tie Wire

Box Knife

Work Gloves

Tie Wire Snips

Marker

Optional Extras:

Angle Grinder

Tie Wire Gun

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Getting Started

Novoform™ placement

By utilizing the job map provided, you will be able to streamline the quick installation by recognizing the specific pieces and where they need to be placed.

Squaring and plum placement

Given that Novoform™ is bent at 90 degrees, its easy to plum straight down off string lines to ensure correct placement. By having the Revit drawings provided by the experts at Novoform, squaring the formwork is easy by using 3-4-5 method.

Lightweight

Novoform™ panels come in eight-foot lengths and are extremely light and can be carried by one person on site opposed to having use Telehandler or crane to transport the formwork around the site and into position.

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Installation Guidelines

Cutting Novoform™

Novoform™ panels are quick and easy to cut. First, mark where you want to cut and use a Stanley knife to cut the polyethylene membrane. Then use the bolt croppers or angle grinder to remove mesh sections as required.

Intersections

Mark around the section that is going into another. Cut along marked line with knife and croppers apart from outside edges, fold back to 90 degrees and insert other section and tie off on top ensuring a 6-inch overlap.

Pile caps

With Novoform™ being easy to cut and handle, cutting space for pile caps is relatively easy. Mark where you want the cut, cut with knife and croppers to create circle area, and place Novoform™ down on top of pile cap.

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Installation Guidelines (Cont.)

Corners

Whether you have piles in the corner or not, the methods are very similar. Ensure that the inside sections of Novoform™ butt up together, then place the corner section on the outside edge and tie; in some cases, small, necessary adjustments can be made through bending and cutting.

Different approaches

Novoform™ can be used in multiple ways, for instance by cutting a section of the side wall out and using it as an end cap for the corners. Explore different possibilities to make your project even easier.

Step down footings

By tying together the Novoform™ end caps and creating a box section, Novoform™ can help in circumstances when a step-down footer is needed.

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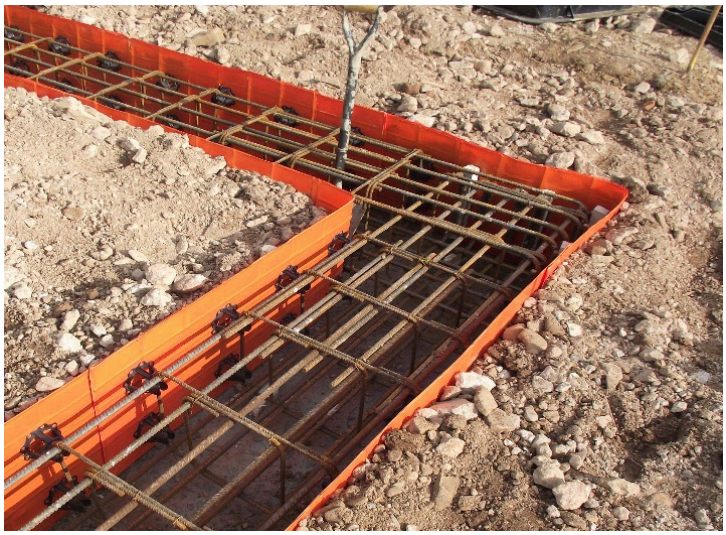
Form Support



Backfilling

Novoform™ recommends to do a soft back fill around the trenches once the panels have been set in place, bringing the dirt about two inches from the finished Novoform™ panel to help with the lateral loading pressures.

Metal Pinning

If the Contractor has an above ground application, metal pins can be used at the contractor's discretion to help hold the panels in place prior and during the pour of concrete.

Sub surface

If the sub surface levels are extremely level and well-compacted, minimal stakes are sufficient to hold the Novoform™ in place. This also ensures it's not knocked out of its specified shape during the pour.

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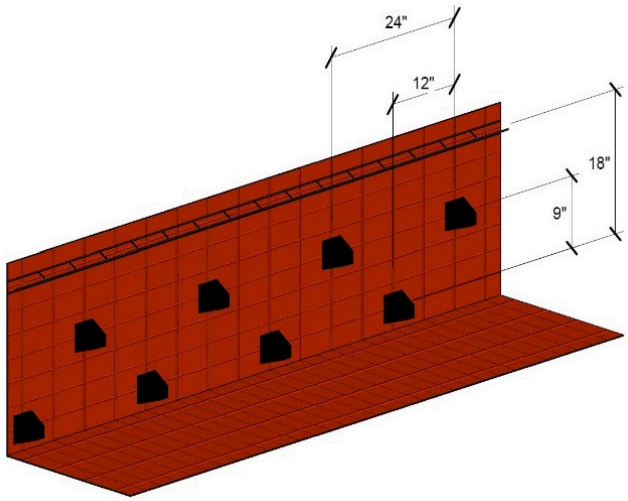
Form Support (Cont.)

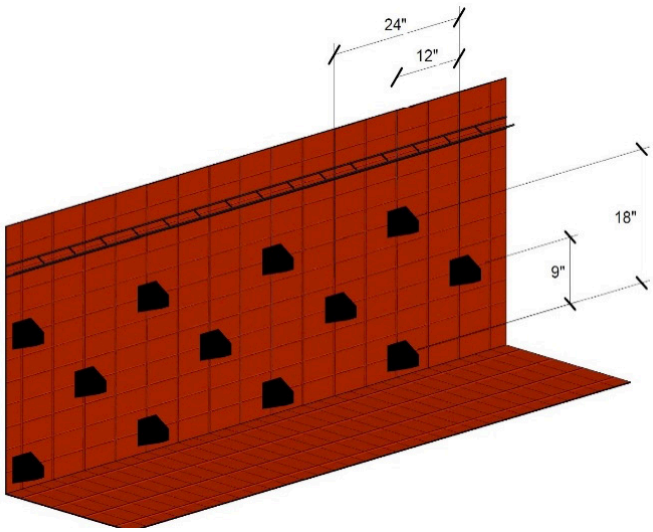
Rebar placement

Ensure that rebar is placed parallel to the Novoform™ formwork, making sure there is a constant gap of three inches between rebar and Novoform™ unless otherwise stated by local code.



Spacer design (2ft)

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.



Spacer design (3ft)

Novoform™ recommend maximum spacer centers 18 inches apart. If installed too close together there is a possibility of honeycombing which could weaken the structure as the concrete cannot flow properly between each other.

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Form Support (Cont.)

Beam Bolsters

Beam Bolsters are used to help ensure a straight foundation by attaching onto rebar cages which will help minimize concrete wastage where applicable. Ensure you have the same size beam bolsters as wall spacers.

Pencil tie rods

Pencil tie rods and quick clamps are used to minimize pillowing and help keep foundation walls level prior to pouring. These can be used at the top and the bottom of the formwork as lateral pressures which are at their most at the bottom of the trench.

Reduce corrosion risk

If you need to tie elements of the formwork to the rebar cages, it is important to remember that any steel tie wire in the cover zone should be removed prior to pouring concrete. If removal is impossible, ensure stainless steel tie wire is used to inhibit corrosion of rebar.

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Concrete Pour

Lifting pours

Taking the flow rate into account, pouring in stages will help keep forms straighter by reducing the lateral pressures during the curing process. Novoform™ recommends to do a continuous run of beam bolsters towards the top edge.

Where to screed to

If the trenches aren't perfectly level, then consider a lip of Novoform™ above the finished concrete. This will speed up the screed process and can be cut off once concrete is cured.

Deep Trenches

To avoid entering deep, unsupported trenches and to follow OSHA safety guidelines, Novoform™ can be attached onto a rebar cage and craned into position. The panels must be secured using stainless steel tying wire or nylon zip ties to prevent corrosion.

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