

# NOVA™ FOREST PRODUCTS

- *Hardwood Veneers Face and Back*
- *HDO Overlay BarrierPly™*
- *Two-Step Calibrated Thickness*
- *Thicknesses Available in 1/2" Through 1-1/8"*
- *Panel dimensions available in 4'x8', 5'x7', 5'x8'*

## Product Description:

Nova's BarrierPly™ HDO is a high-density overlaid plywood with good surface durability for Semi-Gloss concrete finishes. BarrierPly™ HDO has a high number of uses and it produces a smooth finish with minimal grain transfer throughout its pour life. BarrierPly™ HDO is Nova's flagship product with superior resistance to aggressive high strength concrete exhibiting elevated PH levels and low water to cement ratios.

## Panel Construction/Moisture Resistance:

Nova BarrierPly™ HDO is constructed of proprietary, two-part, high-density overlay on hardwood faced plywood with Eucalyptus inner plies. It is produced with a two-step calibrated thickness layup, has a waterproof glue bond and meets the requirements of Voluntary Product Standard PS 1-09. All Nova products are overlaid in the USA.

## Working Faces/Treatment:

- Nova BarrierPly™ HDO is available with one or two working faces. Panels with a single working face are provided with balanced Hi-Resin backer sheet.
- Gloss level of concrete surface: Semi-Gloss
- Wood grain transfer to concrete surface: slight
- Wood defect transfer to concrete: minimal—no patch repaired
- Sugaring: none

## Working Edges/Treatment:

- Factory sawn and sealed with nox-crete Edge-Flex 645
- Seal all exposed wood (edges and holes) with Edge Flex 635 by NoxCrete, or equivalent to prevent concrete staining from the wood sugars

## Structural/Load Performance Summary

Nova BarrierPly™ HDO are performance based panels. Design limitations are synthesized from test results of product tested in accordance with PS 1 / PS 2 criteria at an independent ISO certified laboratory. All plywood provided by Nova Forest Products have an established Third-Party Auditor program at the mill with audits performed on a quarterly basis. This ensures consistent quality and performance for all Nova supplied products.

## Typical Pour Ranges:

- Gang forms: up to 50 pours
- Job built: up to 30 pours
- Pour ranges are not guaranteed because the number of pours will vary due to jobsite handling and panel maintenance, vertical or horizontal use, form release agent, concrete mix design/strength, alkalinity, pour rate and other factors

## Release Coating:

- Release agent: not factory treated
- Coating required: light before first and each subsequent pour
- Recommended release agent: Nox-Crete RA 11 or equivalent. Do not use release agents containing fuel oils, recycled oils or solvents .

# PH BarrierPly™ HDO

*With its hardwood faces, Nova's BarrierPly™ HDO panel gives a smooth Semi-Gloss finish from pour 1 to pour 30 and beyond. The unique combination of veneers gives the panel both strength and durability. Nova's overlaid panels are produced in Ocala, FL in our 110,000 ft<sup>2</sup> facility.*

## Limitations:

Do not exceed design limitations imposed by the load span table. Conform to concrete form design procedures based on American Concrete Institute (ACI) standard 347-04. Release agents are required.

## Thicknesses & Sizes:

Nova BarrierPly™ HDO is available in 1/2", 5/8", 3/4", 1" and 1-1/8". Properties shown apply to 8' Nova BarrierPly™ HDO only.

## Technical Data Applicable Standards

Panel Tolerances	3/8" to 3/4"	1" & Greater
Thickness Tolerance	+/- 1/32" (.031")	+/- 5%
Length & Width Tolerance	+0, -1/16" (.062")	+0, -1/16" (.062")
Squareness	1/16" (.062")	1/16" (.062")
Straightness	1/16" (.062")	1/16" (.062")

Note: All tolerances and specifications apply at the time of manufacture.

Note: Product averages vary for individual thicknesses.

## Standard Packaging:

Thickness	Nova BarrierPly™ HDO1 Face, MDO Back Average Weight* lbs./SF	Nova BarrierPly™ HDO1 Face, MDO Back Average Weight* per Unit	Pieces per Unit
1/2"	1.665	3950	75
5/8"	1.960	3765	60
3/4"	2.340	3750	50

\*Average product weights may vary +/- 5%

## Product Grade

Standard product is shipped on grade only.

**Stress and Load Span Tables** These stress and load span tables simulate actual wet form conditions. Dry load span values are overstated and should not be used.

**Stress Tables:** Tables 1 & 2 herein are derived from performance based testing done in accordance with Voluntary Product Standards PS 1-09 / PS 2-10 criteria.

LOAD SPAN TABLES – WET CONDITIONS								
Recommended Maximum PSF								
Face Grain <i>Perpendicular</i> to Supports								
Support Spacing	Plywood Thickness – Allowable Pressure (PSF)							
	1/2"		5/8"		23/32"		3/4"	
(In.)	ℓ/360	ℓ/270	ℓ/360	ℓ/270	ℓ/360	ℓ/270	ℓ/360	ℓ/270
8"	1305	1305	1654	1654	1853	1853	1853	1853
12"	430	574	629	839	922	1147	922	1147
16"	183	244	286	381	429	572	429	572
19.2"	105	140	169	226	257	343	257	343
24"				117	135	180	135	180
Face Grain <i>Parallel</i> to Supports								
Support Spacing	Plywood Thickness – Allowable Pressure (PSF)							
	1/2"		5/8"		23/32"		3/4"	
(In.)	ℓ/360	ℓ/270	ℓ/360	ℓ/270	ℓ/360	ℓ/270	ℓ/360	ℓ/270
8"	739	865	726	889	1409	1409	1409	1409
12"	208	277	226	301	577	769	577	769
16"		112		127	247	329	247	329
19.2"					176	234	176	234
24"					120		120	

**Form Panel Thickness:** American Concrete Institute publication "Formwork for Concrete."

**Edge Support:**

In high moisture/sustained load conditions, edges may have a greater deflection than the panel center and may exceed calculated deflection.

**Suitability for Use and Warranty**

Nothing herein constitutes a warranty express or implied, including any warranty of merchantability or fitness for use, nor is protection from any law or patent to be inferred. The exclusive remedy for all claims is replacement of materials. Contact the sales office for a copy of the complete Nova Terms and Conditions of Sale.

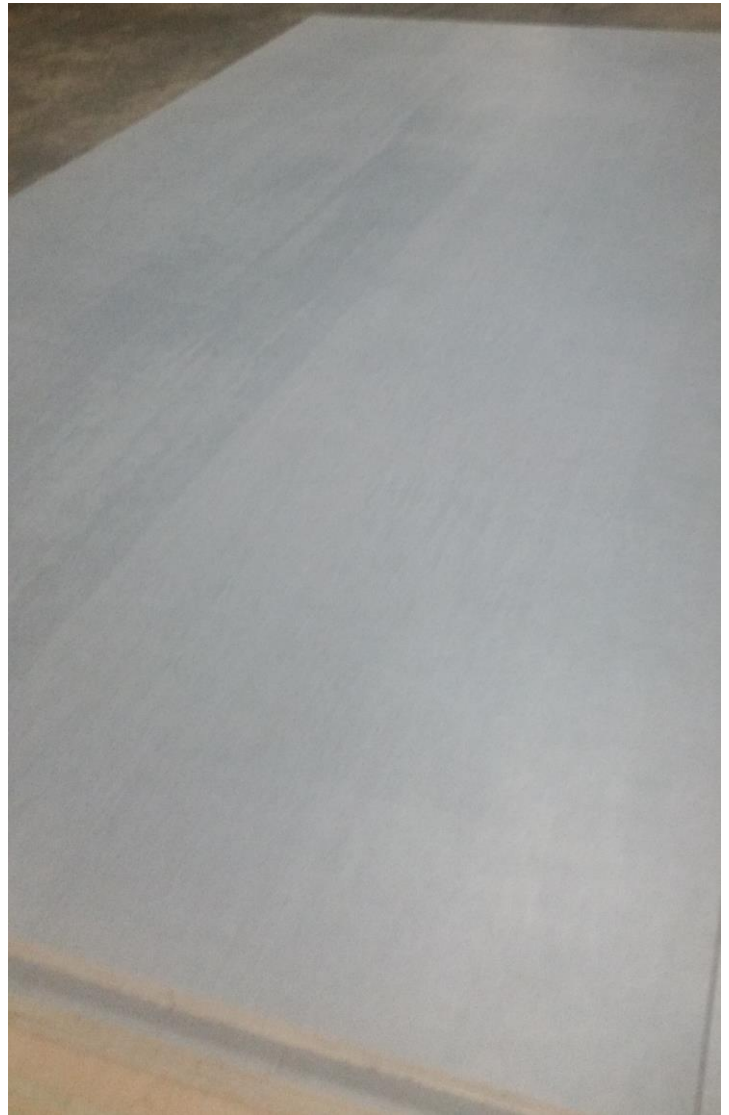
**Warehouse Storage and Handling**

- Store in a dry, clean, well-ventilated area indoors
- Avoid temperature and moisture extremes. Allow panels to equalize for 72 hours or more before use
- Pieces must not be stored in contact with the ground
- Limit the stacking height to four or five units. Separate units with clean, dry spacers of uniform thickness, aligned carefully. Use three spacers for panels 8' long, four or five spacers for longer panels

**Jobsite Care and Handling**

1. Product preparation: Nova's MDO panels are not factory release coated. Lightly coat panels prior to first use and each subsequent use with nox-crete Form Coating or equivalent agent.
2. Concrete pouring and Vibrating methods: Rate of pour shall be calculated to ensure that it is within panel pressure design limits. The use of rubber tipped vibrators is recommended to reduce damage to the panels from the vibrator tip.
3. Storage and edge sealing— to get maximum life out of the panels, it is recommended that they be cleaned after each use. Exposed cut edges should be resealed with several coats an appropriate sealer. When not in use, panels should be stored outside of direct sunlight.
4. Surface Repairs: Damaged panels caused from general construction conditions can be repaired using appropriate two-part products such as W.R. Meadows Rezi-Weld. Panels should be cleaned prior to application of the gel. Once dry sand the repaired area using a 120-grit sandpaper.

**Specifications subject to change without notice.**



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