



PRODUCT DATA SHEET

WINFAB 450N



WINFAB 450N is a needlepunched nonwoven geotextile manufactured using polypropylene fibers that are formed into a dimensionally stable network, which allows the fibers to maintain their relative position.

WINFAB 450N resists ultraviolet deterioration, rotting, and biological degradation and is inert to commonly encountered soil chemicals.

PROPERTY	TEST METHOD	MARV English	MARV Metric
Tensile Strength (Grab)	ASTM D-4632	120 x 120 lbs	534 x 534 N
Elongation	ASTM D-4632	50%	50%
CBR Puncture	ASTM D-6241	335 lbs	1490 N
Trapezoidal Tear	ASTM D-4533	50 x 50 lbs	222 x 222 N
UV Resistance (500 hrs)	ASTM D-4355	70%	70%
Apparent Opening Size (AOS)*	ASTM D-4751	70 US Std. Sieve	0.212 mm
Permittivity	ASTM D-4491	1.8 sec ⁻¹	1.8 sec ⁻¹
Water Flow Rate	ASTM D-4491	120 gpm/ft ²	4889 lpm/m ²

*Maximum Average Roll Value

Notes:

- Mullen Burst ASTM D-3786 has been removed. It is not recognized by ASTM D-35 on Geosynthetics.
- Puncture ASTM D-4833 has been removed. It is not recognized by AASHTO M288 and has been replaced with CBR Puncture ASTM D-6241

PROPERTY	Typical English	Typical Metric
Roll Dimensions	12.5 x 360 ft 15 x 360 ft	3.81 x 109.8 m 4.6 x 109.8 m
Roll Area	500 yd ² 600 yd ²	418 m ² 502 m ²

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Willacoochee Industrial Fabrics, Inc.

PO Box 599 • 769 West Main Street • Willacoochee, GA 31650

Ph: (912) 534-5757 • Fax: (912) 534-5533



SUBMITTAL IDENTIFICATION SHEET

To be completed by Contractor/CM

PROJECT NAME	
ADDRESS	
NUMBER	
OWNER	
ARCHITECT / ENGINEER	
SUBMITTED BY	
CONTRACTOR / CM SUBMITTAL NO.	CANNON DESIGN SUBMITTAL NO.
DRAWING / DETAIL REFERENCE	SPECIFICATION SECTION / PARAGRAPH
MANUFACTURER / SUPPLIER	ITEM / PRODUCT ID
REQUIRED DATE	PRIORITY
CRITICALITY	

To be completed by Reviewer

CANNON DESIGN SUBMITTAL NUMBER
RECEIVED DATE

- ☐ **A. No Exceptions Taken**
No further review of submittal is required.
- ☐ **B. Make Corrections Noted**
Incorporate corrections in work;
resubmission is not required.
- ☐ **C. Revise and Resubmit**
Revise as noted, and resubmit for review.
- ☐ **D. Rejected**
Submittal is not in compliance with Contract Documents;
provide new submittal.
- ☐ **E. For Record / Information Only**
Submittal was reviewed for Record / Information
purposes only.
- ☐ **F. Not Required for Review**
Submittal is not required by Contract Documents
and has not been reviewed.

Review is for conformance with the design concept of this project and for general compliance with contract documents. Contractor is responsible for quantities, dimensions and compliance with contract documents and for information that pertains to fabrication processes, construction techniques and coordination of this work with all trades which will be affected thereby. This review is null and void if submittal deviates from contract documents and does not indicate or note deviations.

ITEM BEING SUBMITTED (check only one)

- ☐ Shop Drawings
☐ Samples
 (_____ copies)
☐ LEED Submittal
☐ Other
- ☐ Certification /
 Qualifications
☐ Record Documents
☐ Product Data
- ☐ Coordination Drawing
☐ Calculations
☐ Schedules
☐ O&M Manuals

ITEM BEING SUBMITTED FOR (check only one)

- ☐ Action ☐ Information Only ☐ Record

REMARKS OR DEVIATIONS

CONTRACTOR / CM CERTIFICATION
(SUBMITTALS NOT CERTIFIED WILL BE RETURNED WITHOUT REVIEW)



PARIC CORPORATION
SUBMITTAL STAMP

THIS SHOP DRAWING HAS BEEN REVIEWED BY PARIC CORPORATION

Subcontractor remains responsible for dimensions, quantities, coordination with other trades and compliance with contract documents.

Ry:

Devin D. Gates

REVIEWED BY	DATE

A/E COMMENTS

- ☐
- See attached sheet(s) for additional comments

REVIEWED BY	DATE



WESTERNTM

SPECIALTY CONTRACTORS
CONFIDENCE THROUGH PERFORMANCE

1947 Gravois Avenue
St .Louis, MO 63104
Phone: (314) 773-8813 Fax: (314)773-0843

TO: Paric Corporation

LETTER OF TRANSMITTAL

DATE	JOB
2-Dec-16	Webster U ISB
ATTENTION	
Devin Gates	
Re: Waterproofing Submittals	

We are Sending You

- | | | | |
|--|--|--|--|
| ☒ Submittals | ☐ Lien waiver | ☐ Signed change order | ☐ Insurance Certificate |
| ☐ Quotation | ☐ Signed contract | ☐ Change order request | ☐ Invoice |
| ☐ Copy of Letter | ☐ Warranty | ☐ Request for information | |
| ☐ Other _____ | | | |

Copies	Date	Description
1		Hydrotech 6125 Membrane (2 pgs)
1		Hydrotech Surface Conditioner (1 pg)
1		Hydrotech Flex Flash - F (1 pg)
1		Hydrotech Flex Flash - UN (1 pg)
1		Hydrotech 30 Protection Board (1 pg)
1		Hydrotech Bonding Adhesive (1 pg)
1		Hydrotech Lap Sealant (1 pg)
1		Hydrotech Splice Cement (1 pg)
1		DOW PLAZAMATE Insulation Panels (2 pgs)
1		Filter Fabric (1 pg)
1		Sketch Sheets of Areas Receiving waterproofing and paver system (paver layout inc.) (2 pgs)
1		Hydrotech Flex-Flash Typical Flashing Details (4 pgs)

THESE ARE TRANSMITTED as checked below:

- ☒ For approval
- ☐ For your use
- ☐ As requested
- ☐ For review and comment
- ☐ FOR BIDS DUE



REMARKS:

PAVER SAMPLES AND COLORS ARE ONSITE.....Let me know if you should need anything else.

Copy: File

Signed: Thomas J Belgeri / Dept Mgr - StL 01