

AUTOMOTIVE & MARINE – SECTION THREE

FLEXIBLE MARINE CLEAR



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Nolan.UDA

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Vybak II THE name in Press Polished Clear

Over the last thirty years, the brandname ‘Vybak’ has become synonymous with marine clears. It is manufactured in sheet form using a press polished technique which provides exceptional clarity and dimensional stability.

‘Vybak’ is specially formulated to resist water absorption and the risk of fogging, and to maintain its flexibility even in the coolest conditions. Accelerated UV testing over two years in controlled laboratory conditions and proven field performance has demonstrated conclusively Vybak’s superior weathering resistance. Many marine trimmers and leading Australian boat builders use and recommend ‘Vybak’ for high quality installations.

KEY PRODUCT FEATURES



- ✓ UV stabilised
- ✓ Superior clarity
- ✓ Dimensional stability
- ✓ Proven field performance
- ✓ Soft handle for ease of fabrication
- ✓ Supported by the Nolan.UDA warranty

PRODUCT DETAILS

Product	Part #	Thickness	Dimensions	Quantity
<i>Vybak II</i>	11VYBJUMBO	1.00mm	279cm x 137cm	5 sheets each keg
<i>Vybak II TINT</i>	11VYBTINT	1.00mm	279cm x 137cm	5 sheets each keg
SEAFLEX	11 SEA 040	1.00mm	250cm x 125cm	3 sheets each keg






ROLLCLEAR and **ROLLGLASS** are the leading brands of UV stabilised calendared clear PVC in Australia, preferred and recommended by most marine fabricators. The products are manufactured under strict quality control guidelines using only premium quality UV stabilisers, which is the reason for their proven performance, conclusively demonstrated by laboratory testing and years of longevity.

KEY PRODUCT FEATURES



- ✓ UV stabilised
- ✓ Non stick formulation (SLS)
- ✓ High clarity
- ✓ Made in Japan
- ✓ Proven field performance
- ✓ Foam core packaging
- ✓ Supported by the Nolan.UDA warranty

PRODUCT DETAILS

Product	Description & Dimensions				
 ROLLCLEAR (SLS)	Achilles SLS Rollclear is manufactured using a calendared process and comes in a variety of thicknesses and qualities.				
	Thickness	Width	Roll Length	Part #	
	0.50mm	137cm	40 metres	11PVC 0.50 SLS	
	0.75mm	137cm 183cm	30 metres 25 metres	11PVC 0.75 137 11PVC 0.75 183	
	1.00mm	137cm	25 metres	11PVC 1.00 SLS	
 ROLLCLEAR TINT (SLS)	Similar to Rollclear with a Smoke or Bronze tinted formulation to reduce glare and heat.				
	Thickness	Width	Roll Length	Part #	
	0.75mm	137cm	30 metres	Smoke: 11PVC 0.75 SMO SLS Bronze: 11PVC 0.75 BRO SLS	
	1.00mm	137cm	25 metres	Smoke: 11PVC 1.00 SMO SLS	
 ROLLGLASS	Achilles Rollglass is manufactured using a unique extruded manufacturing process to provide a high quality clear used in commercial and marine applications where visual clarity is very important. Rollglass with tinted formulation reduces glare and heat.				
	Thickness	Width	Roll Length	Part #	
	Rollglass Standard	0.75mm	137cm	20 metres	11PVC 0.75 GLA 137
		1.00mm	137cm	14 metres	11PVC 1.00 GLA 137
	Rollglass Wide Width	1.00mm	183cm	13 metres	11PVC 1.00 GLA 183
Rollglass Tint	1.00mm	137cm	14 metres	11PVC 1.00 GLA 137S	

Vybak II

Achilles



CONSUMER GUIDE

Types of clear PVC

PVC “Clear” is used extensively for outdoor blinds and roll-up windows in fabric enclosures on boats.

There are three types for the market, “calendered”, “extruded”, or “pressed”, each type named after its form of manufacture. All three are identical in composition, but differ in quality of surface finish, which determines the degree of visual clarity. The highly polished surface of the “pressed” product is the best surface finish presently available, and is almost universally used in a marine environment.



Clear PVC is highly susceptible to degradation due to exposure to Ultra-violet light and pollutants in the atmosphere, and will turn yellow and brittle over time. Regular cleaning and shielding when not in use will greatly enhance expected life. Nonetheless, all Nolan.UDA brands have UV inhibitors added, which provides the added benefit of protection from sunburn and cancer causing radiation.

CARE INSTRUCTIONS



The use of harsh chemicals for cleaning should be avoided, as these can scratch the surface or attack the material. Clear PVC should only be cleaned with a diluted solution of mild soap and warm water. Rinse with clean water and dry with a soft cloth or a sponge. Do not use solvents or chemical cleaners. Do not expose sheets to abrasion. The surface can be scratched by rubbing with a coarse cloth, or even in general usage, and these are impossible to remove. Some success with slight scratching has been attained with careful use of car polish, but this is not recommended by the manufacturer. We recommend Plexus plastic cleaner. Part # 19PLE (size of can)



Nolan.UDA Pty Limited, ABN 28 135 927 249, guarantees for a period of two years from date of original purchase that the clear PVC marketed by the company under the trade-names “Vybak”, “Rollclear”, and “Rollglass” will not become unserviceable due to UV degradation or under normal operating conditions.

Nolan.UDA further warrants the clear PVC material meets all published factory specifications current at the time of manufacture.

This warranty does not cover scratching, shrinkage less than factory specified tolerances, or damage due to abuse or improper cleaning and maintenance. A further condition is that a regular cleaning programme must be followed complying with the recommendations in our literature.

The above guarantee is applicable to the original purchaser only. When a complaint is received, the determination of the manufacturer or recognised industry association is the sole basis on which replacement or refund is made. The liability of Nolan.UDA is limited under this warranty to replacement of material only, or refund of the original purchase price, on a prorated basis of life served.

i.e. 1st year 100%, 2nd year 50%.

Liability for negligence, or any consequential loss is expressly excluded.

CLEAR MARINE GLAZING



Ocean Clear is a semi-rigid polycarbonate sheeting specifically designed for marine windows and enclosures. This unique product is set to revolutionise the marine industry with features that leave other products a distant second.

Ocean Clear features exceptional clarity and provides quality flybridge enclosures and dodgers. Its excellent physical strength and resistance to the elements will provide many years of service.

Ocean Clear was developed in consultation with some of the worlds leading marine manufacturers. This unique product is flexible and can be sewn making it ideal for many marine installations.

KEY PRODUCT FEATURES



- ✓ *Crystal clear vision*
- ✓ *Scratch resistant*
- ✓ *Impact resistant*
- ✓ *UV resistant*
- ✓ *Dimensionally stable*
- ✓ *Fabrication friendly*
- ✓ *Supported by the Nolan.UDA warranty*

CONSUMER GUIDE

Ocean Clear is the next generation in marine window glazing. Until now, flexible clear PVC has been used for marine enclosures with reasonable success. The downside to using a PVC product is the clarity and its limited lifespan. After a few short years, clear PVC will show signs of deterioration. Ocean Clear is a semi-rigid coated polycarbonate which provides exceptional clarity and longevity. The only down side to using Ocean Clear for a marine enclosure is the limitation in design. Ocean Clear cannot be rolled or manufactured around tight corners like a traditional clear PVC product, however careful design and innovation can minimise most hurdles providing an enclosure which is both functional and practical.

PRODUCT DETAILS

Sheet Size	Sheet Thickness	Country of Origin	Warranty
244cm x 122cm	1.5mm	Manufactured in USA	UV Yellowing: 5 Year Limited Break Resistance: 8 Year Limited

CARE INSTRUCTIONS



GUIDELINES

- Rinse thoroughly with water to remove excess dirt and salt before applying cleaning products.
- Use clean soft cloths or sponges for application of cleaners.
- If a streaky film remains on the surface after cleaning follow up with a rinse of straight water.
- Dry with a soft cloth or chamois to prevent water spots. Polish with a separate cloth.
- Do not use abrasives or high alkaline cleaners.
- Do not leave cleaners on for long periods of time. Wash immediately after cleaning.

- Do not apply cleaners in direct sunlight or at elevated temperatures.
- Do not use scrapers, squeegees, razors, brushes or paper towels.

COMPATIBLE CLEANERS & DETERGENTS

- Plexus plastic cleaner (*available through Nolan.UDA*).
- General purpose mild detergents.

TO MINIMISE FINE OR HAIRLINE SCRATCHES

- Polish with Novus #1 mild automotive polish and remove with a soft, clean cloth. This will help fill and disguise minor scratches.
- Do not use abrasive plastic polishes.

FABRICATION TECHNIQUES

1. Ocean Clear should be sewn using a leather point (diamond point) needle. Depending on the thread gauge and the machine set up you can use either a #20, #22 or #24 size needle. MR5 or MR6 needles also work well, especially with PTFE thread. It is imperative that the needle is sharp and it is recommended that a new needle be used for each job. Once the Ocean Clear section of the job is complete we recommend you revert back to your standard needle to complete the balance of the job.
2. We recommend using Sunguard B138 polyester thread (available from Nolan.UDA) for all Ocean Clear installations. Many trimmers are now using PTFE threads (Profilen & Tenara) as both of these work well with Ocean Clear. If this is the case, you may need to adjust the thread tension depending on machine and thread being used. There is no recommended stitch length although generally, the longer the better. Ocean Clear can be sewn within millimetres of the materials edge without cracking therefore no spider fractures will occur from the needle.
3. Prior to stitching Ocean Clear, peel back approximately 50mm of the protective release paper along the edge that you're going to sew. Keep the rest of the release paper on until the job is completed and installed on the boat.
4. It can help in the sewing process if you tape the window to the fabric using a double sided tape. This will position and hold both items in preparation for sewing.
5. When cutting Ocean Clear to your desired shape, mark your pattern on the protective release paper, then using a sharp razor blade score firmly along your line. It is recommended that you use a straight edge or a wooden template for curves. Care needs to be taken when scoring Ocean Clear as it will break on the exact line scored. Lay the sheet on the edge of a square edge table, hold down firmly and give a quick snap along the score line to break the polycarbonate.
6. Do not leave sharp points on corners. If this occurs cut the Ocean Clear at a 45 degree angle on the corners to eliminate this potential problem. If you have a raw edge along the seams, use a fine 200 grade sand paper to soften the edge around the window.
7. Ocean Clear is very flexible to a point. Do not stress bend the material to extremes as this will craze the hard coat, which is irreversible. As a general guide you can bend Ocean Clear to a radius of 255mm or larger.
8. When installing a "U" shape window it is important to first score down from the top of the sheet (approximately 50mm from each edge) then sew on the outer side of the zipper. Note: Allow the zipper to overhang the top of the sheet for a hinge, then score around a template and break slowly around the curve. Then proceed with sewing the inner part of the zipper. It is also important that the top edge of the Ocean Clear (where it will hinge) be straight and not curved. If it is curved it will not swing up properly when opened.



Tape the window to the fabric using a double sided tape



Cut the Ocean Clear at a 45° angle on the corners to eliminate sharp points.



Use a fine 200 grade sand paper to soften the edge around the window.