

INSTRUCTIONS



WARNING! Strictly follow all instructions to avoid malfunction, damage, accidents, personal injury or death.



Incorrect. Avoid to prevent malfunction and accidents.

See www.morfrac.com for additional safety and mounting information.

The **morbblock.** is installed by using soft attachment methods. The primary structure loop is set through the block's mouth and must give complete support to the bearing. A secondary lashing keeps the loop and block aligned. The patented bearing system combines axial and thrust bearings into a single bearing.

NOMENCLATURE



Understanding Your Block

The **morbblock.** is composed by a sheave, a bearing, cheeks and a primary structure loop; these components act as a unit and are an integral part of the block. The primary structure loop is not intended for direct attachment to an anchor point. Do NOT remove primary structure loop, replacements are available on request.

Use a lashing rope to attach the block to the anchor point. The used lashing must have a maximum working load that meets or exceeds the block's maximum listed braking load; when knots are used, it is recommended to use a method which exceeds at least four (4) times the maximum working load listed.

Morfrac Systems is not liable or responsible for the chosen attachment method or attachment line selection.

The minimum recommended rope return angle is 150°.

Carefully follow the instructions and recommendations below for proper use.

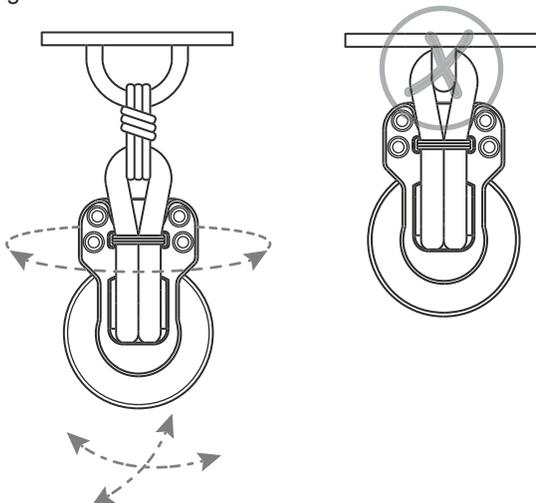


WARNING! Knots weaken line considerably. Seek for professional advice on how to select your attachment method.

INSTALLATION

Attaching the Block

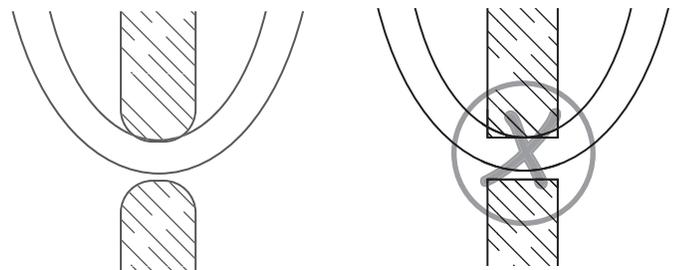
The **morbblock.** requires additional rope lashing methods (not supplied) to attach the block to its anchor point. **USE ROPE LASHING ONLY;** this method will allow the block to freely align to the loads.



WARNING! The **morbblock.** requires to be free to self-align to the loads; **USE ROPE LASHING ONLY.** Constraining the block's movement may result in malfunction, damage, accidents, personal injury or death.

Anchor Point

The anchor point must be rounded with soft radiuses such as padeyes or pins. Sharp edges on standard perforated plates such as toerails or mast base will cause damage to the loop and failure. Anchor points must be structurally adequate and have rounded edges.



ROUNDED EDGES

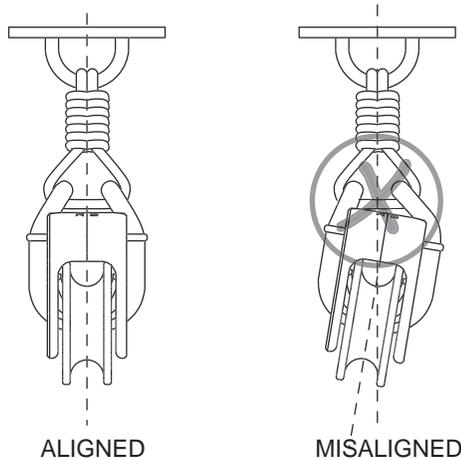
SHARP EDGES



WARNING! Lines running over a sharp edge will cause chafing and degradation resulting in failure. Attach to rounded edge fitting only.

Block Alignment Check

After securing the block to its anchor point ensure the block is aligned within its Primary Structure Loop.



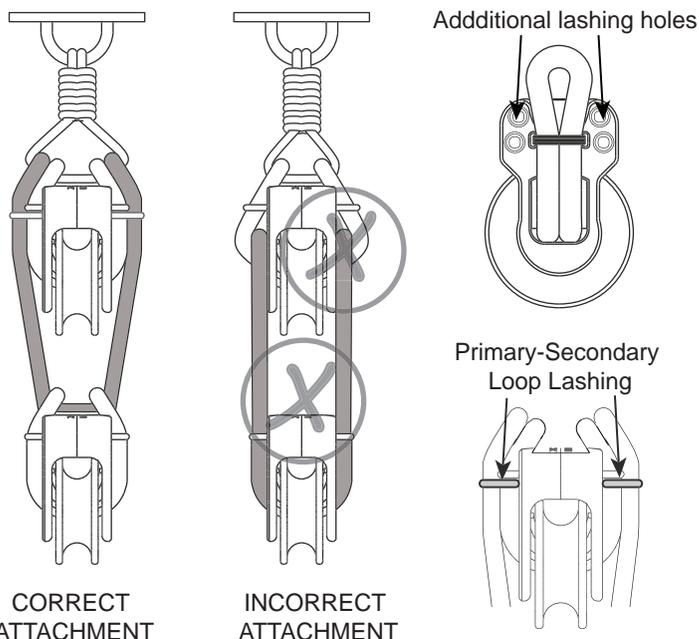
WARNING! Failure to pre align the block may result in malfunction, damage, accidents, personal injury or death.

Becket / Fiddle

The **morfrack** can be configured as a becket or fiddle block. The becket or secondary block must NOT be attached to the primary block loop.

Lash the secondary block to the primary block through the extra lashing holes and to the primary loop.

Do NOT remove the Primary Structure Loop.



WARNING! Attaching additional lines the primary structure loop will reduce its working load causing malfunction and failure. Attach the additional line in such way that the load is transferred directly to the anchor point.

Inspect Parts

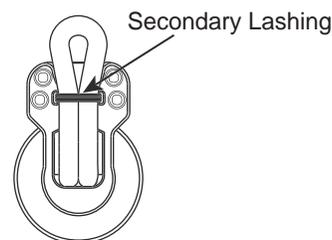
Inspect parts before and after every use.

WARNING! Failure to inspect and maintain the block can result in braking under load. Inspect parts every time you sail and replace if required. If you experience high loads during long periods of time it is important to inspect the block carefully while in use.

Inspect loops and attachment methods for any sign of wear or UV damage. Fading colouring indicate general UV degradation. Release the Primary Structure loop from the block and inspect thoroughly for any sign of wear, UV damage, chafing, strand separation or fatigue. Replace the loop if any sign of damage or deterioration.

WARNING! Failure to replace damaged or deteriorated parts can cause failure. Replace loops and lashings every year or if any sign of wear, UV damage, chafing, strand separation or fatigue. Replace if in doubt.

Inspect the secondary lashing line and knots. Ensure that no signs of wear or UV degradation is visible. Check that the primary support loop is being constrained by the secondary lashing and that all knots are tight.



WARNING! A loose or undone secondary lashing will cause the block to malfunction and may cause failure.

Inspect your bearings for any sign of stress or wear. When exceeding the blocks maximum working load the bearing may deform causing malfunction and failure. Replace the bearing if any sign of damage or deterioration.

Inspect your sheaves for any sign of wear or dents. Dents may cause damage to the running rope or block malfunction. Replace your sheave if dents or deep marks appear on the coating.

WARNING! Failure to replace damaged or deteriorated parts can cause failure. Replace loops and lashings every year or if any sign of wear, UV damage, chafing, strand separation or fatigue. Replace if in doubt.

Maintenance & Replacements

Maintain your **morfrack**. clean by rinsing with fresh water frequently. Additionally you can use detergent and fresh water for a better result.

WARNING! Clean by using fresh water and detergent ONLY. Strong cleaning agents and chemical products will cause deterioration.

morfrack. components, are available for replacement if further maintenance is required. For more information www.morfrac.com

GENERAL

Do not use this product for overhead lifting or lifting people or objects over people. Always use a minimum safety factor of two or greater. MORFRAC SYSTEMS is not liable for any damages, consequential or incidental, arising from misuse of this product. Specifications here contained are not contractual. MORFRAC SYSTEMS reserves the right to modify its products without previous notice.

GENERAL MAINTENANCE

In order to achieve the best performance and comply with MORFRAC SYSTEMS limited warranty minimal maintenance is required. Clean your equipment frequently with fresh water. Follow product specific inspections and maintenance. Stainless steel parts may show discoloration clean with a fine abrasive to restore. IMPORTANT: Clean with fresh water and detergent ONLY. Avoid contact with chemical, teak cleaners and solvents.

WARRANTY

For additional information on safety, maintenance, and warranty www.morfrac.com or contact us info@morfrac.com.



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