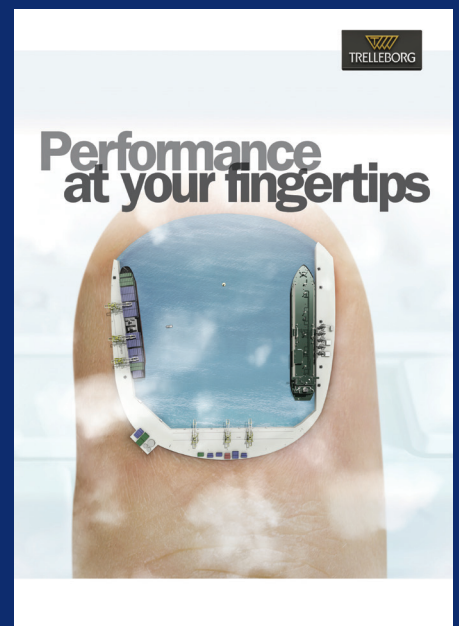


Guide to Navigation Buoys



PRODUCT GUIDE

The Performance People



The demanding nature of commercial ports and terminals means you need to connect with a partner that provides much more than technically superior products and technologies.

You need to work with a partner that combines best practice expertise gained through worldwide experience with a deep understanding of local requirements and regulations.

This global reach combined with feet on the ground local presence helps to make Trelleborg the Performance People that ensure solutions continually enhance your operations.

Connect with a partner that provides Performance Assurance from conception to completion of every project and beyond with our Global Support services to maintain and enhance port and vessel performance.

**Connect with the Performance People,
Trelleborg Marine Systems.**

Guide to Navigation Buoys

In the offshore world, navigation buoys play a vital role; they are the road signs of the sea, providing safe passage through hazards which are sometimes obscure and hidden below the water.

Therefore, the performance of these aids to navigation is crucial to ship and mariner safety and systems must prove to be reliable, stable and durable to maximize performance even in the most demanding environmental conditions.

With the advent of 'Plastic Buoys' impacting on the marine industry, it became apparent that navigation products were beginning to be – and are still – promoted by companies with little or no knowledge of the operational and selection criteria required.

Careful product selection to define the optimum required solution is vital in ensuring all operational requirements are met. Our easy-to-use selector chart on pages 5 and 6 will help you to select the right navigation buoy for your application.

Contents

MINI GUIDE TO NAVIGATION BUOYS

INTRODUCTION	2
A COMPREHENSIVE RANGE	3
NAVIGATION BUOYS SELECTOR	5



A comprehensive range

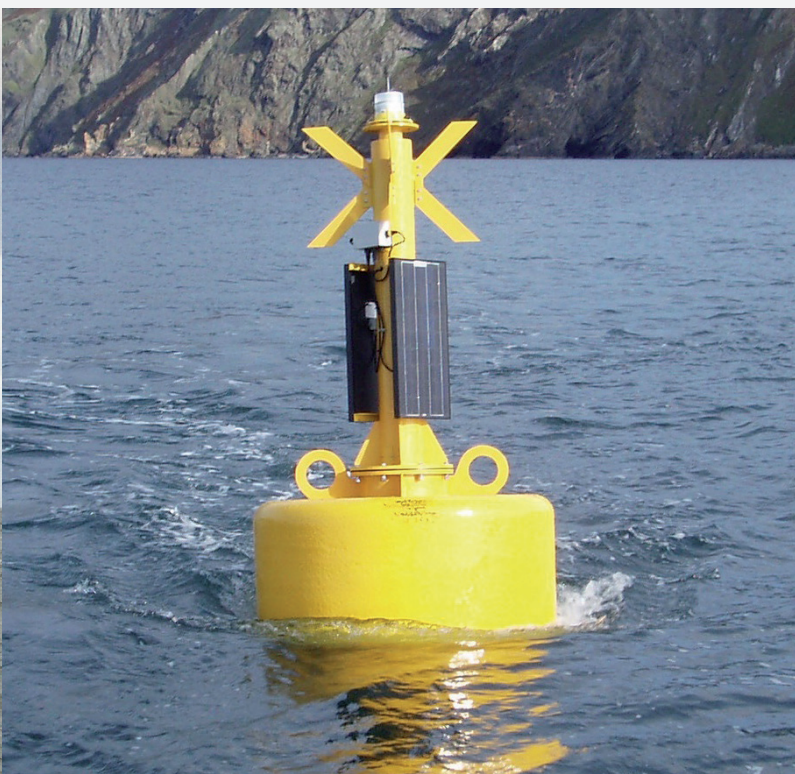


Building on the strength of a long-standing foam elastomer and marine aluminum superstructure system, Trelleborg Marine Systems now boasts a comprehensive range of polyethylene constructed navigation buoys, completing its portfolio of navigation and marker buoys to suit all environments.

Manufactured from impact resistant, colorfast, UV stable materials and comprising of sectional hull pieces filled with marine grade, water resistant foam, the new range is built around a hot-dipped, galvanised steel core.

Available as standard in diameters ranging from 1.25-3.6 meters, Trelleborg will also manufacture precisely to specification where required.

Please note this is a guide to assist the initial selection of your navigation buoy. For final configurations please contact us directly. At this stage we can take into account issues such as sea conditions, light requirements, focal heights and moorings.



Why use Elastomer Navigation Buoys?

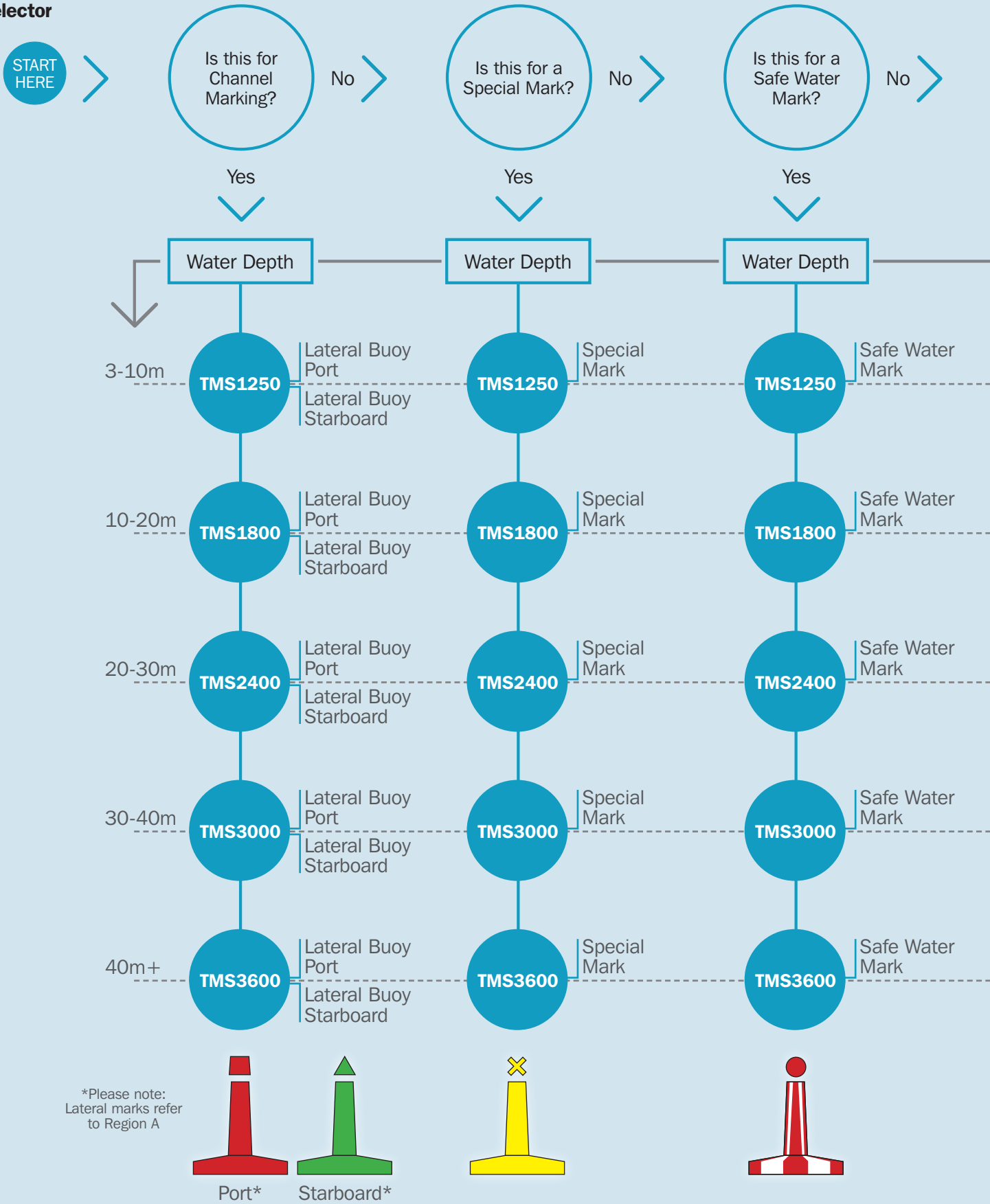
- Typically used as lighter weight alternative to steel buoys, providing easier on-site and deployment handling and reducing all round maintenance costs
- Hull manufactured from thermolaminated, water resistant foam core, coated with abrasion resistant, energy absorbing polyurethane skin
- Superstructure manufactured from marine grade, painted aluminum, Trelleborg Marine Systems' elastomer buoys are robust and durable AToNs

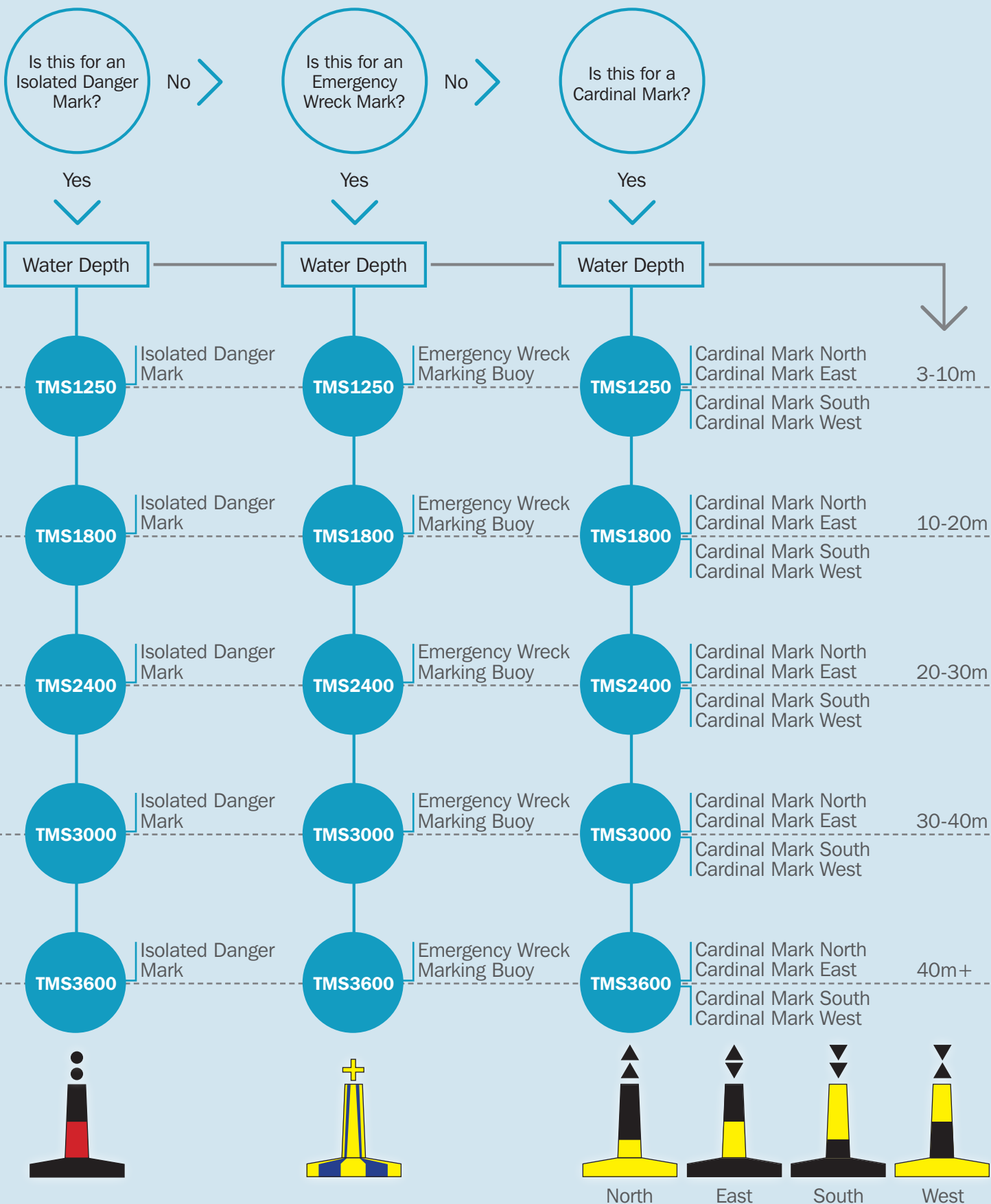


Why use Rotationally Moulded Buoys?

- Modular design, robust and colorfast giving excellent UV stability and providing all round reduced maintenance costs and activities
- Flat base design provides easy 'onboard' and 'on-site' handling and suitability where applications demand 'dry out' situations
- Sectional hull pieces are filled with closed cell, water resistant foam providing continued buoyancy even if outer skin is punctured

Navigation Buoy Selector







Trelleborg is a world leader in engineered polymer solutions that seal, damp and protect critical applications in demanding environments. Its innovative engineered solutions accelerate performance for customers in a sustainable way. The Trelleborg Group has annual sales of about SEK 21 billion (EUR 2.3 billion, USD 3.2 billion) in over 40 countries. The Group comprises five business areas: Trelleborg Coated Systems, Trelleborg Industrial Solutions, Trelleborg Offshore & Construction, Trelleborg Sealing Solutions and Trelleborg Wheel Systems. In addition, Trelleborg owns 50 percent of TrelleborgVibracoustic, a global leader within antivibration solutions for light and heavy vehicles, with annual sales of approximately SEK 15 billion (EUR 1.7 billion, USD 2.3 billion) in about 20 countries. The Trelleborg share has been listed on the Stock Exchange since 1964 and is listed on NASDAQ OMX Stockholm.

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