

A photograph of an offshore wind farm at sea. The wind turbines are silhouetted against a bright, hazy sky. The water is dark with some whitecaps. The turbines are arranged in a long line that recedes into the distance. A red vertical bar is on the left side of the page.

**IMPALLOY**

**TECHNICAL FACTFILE**

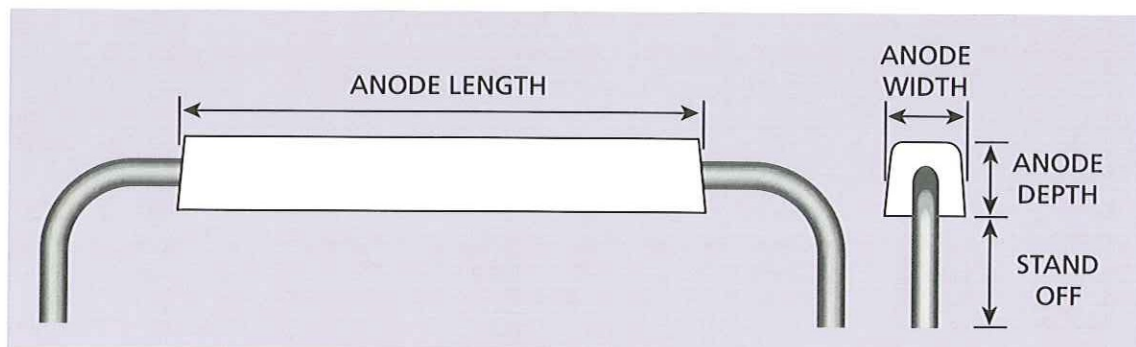
# OFFSHORE WINDFARMS

Wind energy is the fastest growing source of electricity generation in the world today. Impalloy technology, thanks to its outstanding marine track record, is at the forefront of providing offshore wind turbine foundations with critical protection against corrosion.

## STAND-OFF ALUMINIUM ANODES

Standard production anodes of trapezoidal cross section with round-bar or tubular steel inserts.

Anodes of other net weights may be produced by adjusting the casting length or selecting alternative insert geometry.



| ANODE TYPE | Mean Length mm | Mean Width mm | Depth mm | Insert Diameter mm |                   | Alloy net wt kg | Alloy unit net wt kg/m |
|------------|----------------|---------------|----------|--------------------|-------------------|-----------------|------------------------|
|            |                |               |          | Tube o.d. mm       | tubular nom. Bore |                 |                        |
| 1600XP     | 2600           | 170           | 170      | 88.9               | 3"                | 160             | 61.5                   |
| 2020XP     | 2500           | 190           | 190      | 88.9               | 3"                | 202             | 80.8                   |
| 1750XP     | 2500           | 190           | 190      | 114.3              | 4"                | 175             | 70.0                   |
| 2400XP     | 2622           | 210           | 210      | 114.3              | 4"                | 240             | 91.5                   |
| 3000XP     | 2745           | 225           | 225      | 114.3              | 4"                | 300             | 109.3                  |
| 3300XP     | 2372           | 252           | 244      | 114.3              | 4"                | 330             | 139.1                  |
| 4350XP     | 2910           | 254           | 257      | 114.3              | 4"                | 435             | 149.5                  |
| 5650XP     | 2973           | 283           | 283      | 114.3              | 4"                | 565             | 190.0                  |

Anodes produced with straight or "cow-horn" inserts

Anode sizes and insert designs can also be custom made to customers' particular requirements.







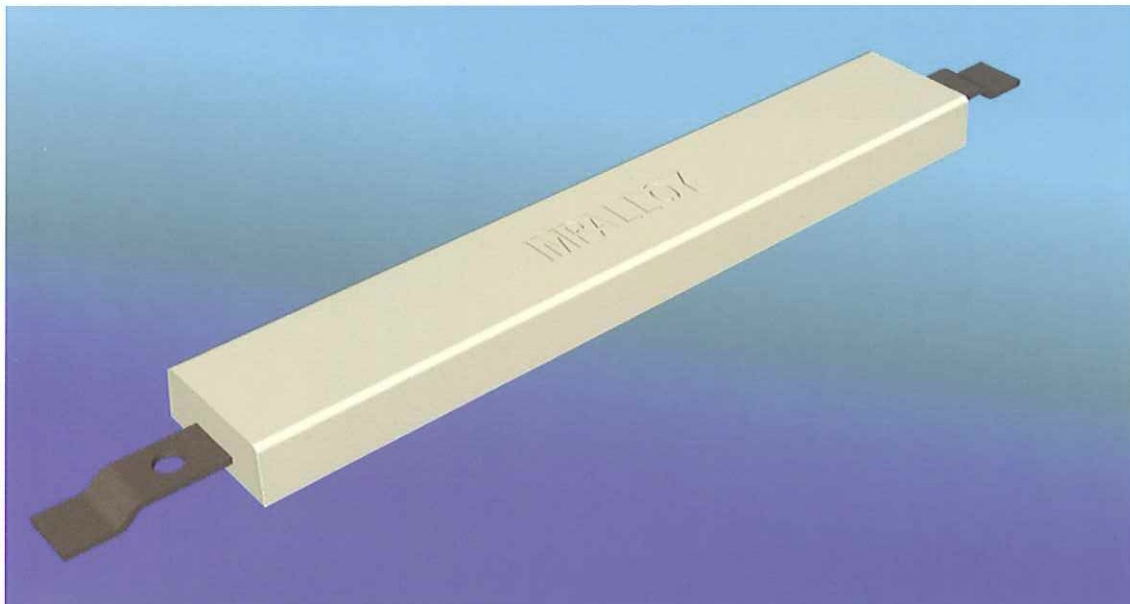
## FLUSH MOUNTED ALUMINIUM ANODES

Most of the stand-off anode sizes may also be manufactured as flush mounted anodes with suitable insert design.

Standard production anodes.

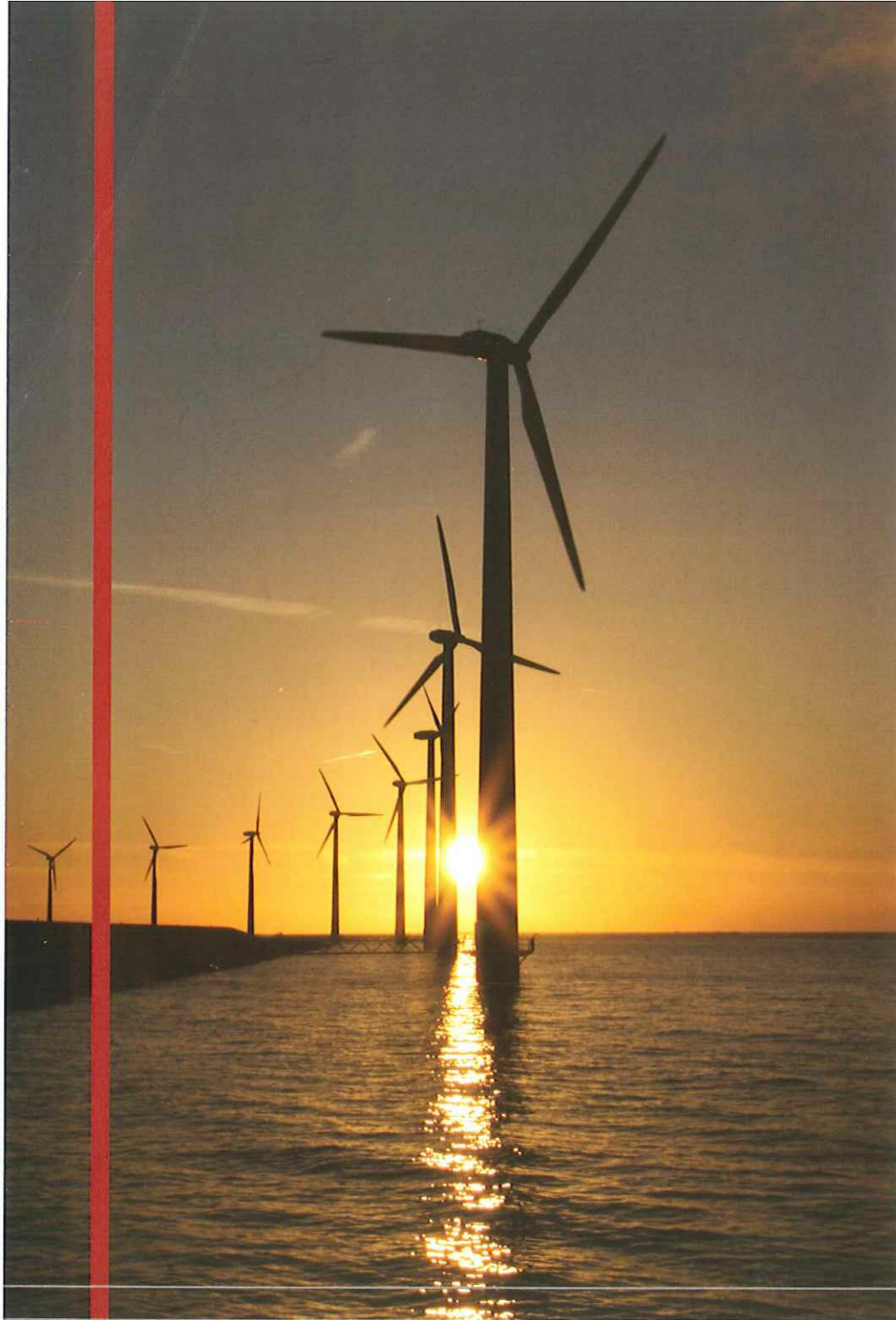
| ANODE TYPE | Mean Length mm | Mean Width mm | Depth mm | Insert mm |                | Alloy net wt kg | Anode gross wt kg/m |
|------------|----------------|---------------|----------|-----------|----------------|-----------------|---------------------|
|            |                |               |          | flat bar  | overall length |                 |                     |
| 202XH      | 838            | 133           | 80       | 50 x 6    | 1038           | 20.2            | 22.7                |
| 320XH      | 1219           | 152           | 64       | 50 x 6    | 1435           | 32.0            | 35.4                |
| 352XH      | 1159           | 175           | 65       | 50 x 6    | 1435           | 35.2            | 38.5                |
| 681XH      | 1515           | 133           | 127      | 40 x 8    | 1715           | 68.1            | 72.4                |

*Anode sizes and insert designs can also be custom made to customers' particular requirements.*



For standard alloy compositions, please see the separate Anode Alloy Selection data sheet.

Impalloy will be pleased to advise on alloy selection for individual applications. Alternatively, we can manufacture formulations to customer specifications.



Agency

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