

## 5. Port infrastructure

### 5.1 Berth Information

Approach depth to the berth is 13·2 metres and the depth alongside 13·6 metres.

Note that depths are subject to change; please consult [Notices to Mariners](#) for latest information.

The wharf was designed in 1976 for the export loading of sugar in ships and is located some 5·7 kilometres offshore.

The wharf is 213 metres in length and orientated in a 010°/190° (T) direction with four fender points 15 metres apart at the northern end and a further two fender points 60 metres apart at the southern end. Mooring dolphins are situated 65 metres from each end of the wharf recessed 40 metres behind the quay line.

The maximum wind speed for a vessel to remain alongside the berth is up to a steady 38 knots

The travelling gantry installed for the loading of bulk sugar, when in the horizontal position, has a 12 metre clearance above the wharf decking. When stowed it is recessed 4·6 metres from the wharf face. The concrete decking is approximately eight metres above datum (lowest astronomical tide). The distance from lowest astronomical tide to the horizontal boom is 20·7 metres. Maximum outreach to the centre of the telescopic chute is 17·48 metres and the average net loading rate is 1800 tonnes per hour.

The port limits ship size as follows:

Maximum Length overall: 225m

Maximum berthing displacement: 31,000 t

Maximum displacement during loading/at departure: 85,000 t

Maximum wind speed for a vessel to remain alongside the berth is up to a steady 38 knots.

### 5.2 Navigation aids

#### 5.2.1 Lighthouse and leading lights

Navigational aid	Type	Characteristic
Fairway buoy		Iso. 2s
Lucinda PEL	PEL sector light	FG (243°T to 245°T) Occ W 2s (245°T to 248°T) FR (248°T to 250°T)
Transfer Tower (on northern end of berth)		Fl G. 5s 30m 6M

**Table 8 — Lighthouse and leading lights**

The light on the transfer tower is obscured from the south when the gantry loader is in its stowed position, but the gantry loader exhibits an all round red light at a height of 55 metres.

For list of applicable charts see [4.9 Charts and books](#). For notification of navigation light defects refer to Notices to Mariners (see [4.10.1 Notices to Mariners](#)).

## 5.3 Anchorage Area

Vessels should anchor approximately 1.0 nautical mile to the East or North of the pilot boarding place in approximately 20 metres of water. Ships are to anchor outside the pilotage area. Upon anchoring, ships are to advise Townsville VTS of their anchoring time and position. All ships at anchor must maintain a continuous anchor watch and report if vessel is observed to be dragging anchor. Ships at anchor are to maintain a continuous listening watch on VHF channel 16.