

NORSOK 적용 선박의 Cabin Unit Mock Up 차음성능 계측평가 Sound Insulation Measurement and Evaluation for Cabin Unit Mock Up in Vessel Satisfying NORSOK Standard

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Key Words : NORSOK, Cabin Unit, Mock Up, Sound Insulation, Working Environment

ABSTRACT

NORWAY
NORSOK
Working Environment

NORSOK

NORSOK Mock Up Cabin Unit Mock Up

1.

Cabin Unit Mock Up 가
NORSOK Cabin Unit Mock Up

NORWAY
NORWAY

NORSOK Working Environment
Working Environment
HSE

2.

2.1 NORSOK

NORSOK
Table.1 . Cabin to cabin , one-man cabin 45dB , two man 40dB . Cabin to corridor 40dB .

Table 1. Sound insulation criteria in NORSOK

Location	Cabin(one man)	Corridor
Cabin(one man)	45	40

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2.2 Cabin Unit Mock Up

NORSOK Cabin Unit Mock Up
 Steel wall Fire
 Insulation wall panel door,
 window Mock Up .
 window Wall panel door,
 , Ventilation ,
 ventilation air flow test HVAC noise check ,
 . HVAC duct 가
 35dBA NORSOK HVAC
 Mock up lay out Figure.1 Figure.2



Figure 1. Picture of Mock-Up

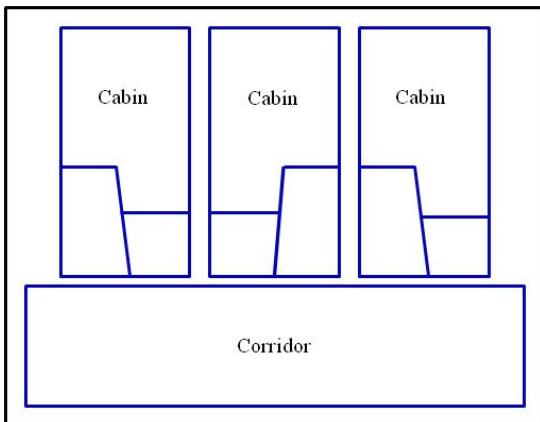


Figure 2. Layout of Cabin unit

Table 2. Sound insulation measurement result

Location	Cabin(one man)	Corridor
Cabin(one man)	Min. 46	Min. 48

Cabin to cabin ,
 room . HVAC duct
 , duct
 Mock up window
 High noise reduction
 type window가
 Window가 cabin façade cabin
 , window
 Speaker , outdoor to
 cabin
 50dB , NORSOK
 cabin 55dBA

3.

NORSOK Steel
 wall , HVAC ventilation
 Cabin unit Mock up

(1) NORSOK Standard S-002, 2004, Working environment.

(2) Jong-Do Kim, Sung-Mok Hwang, Jae-Hong Kim, Hyuk Kwun, Yong-Suk Suh., 2013, Prediction of sound reduction of cabin unit for offshore facilities and ships, Proceedings of the KSNVE Annual Autumn Conference, pp.598~599.