

# ***DaeHyup***

Marine & Offshore Deck  
Covering and Spray Insulation

DAEHYUP  
**Billytex**



**BILLYTEX** DPU-BF DC  
Sound Damping Floor system

 **DAEHYUP TECH**

## Production description

BILLYTEX DPU-BF DC is a sound damping flooring structure with good sound & vibration damping performances. It is also satisfied with IMO 2010 FTP code.

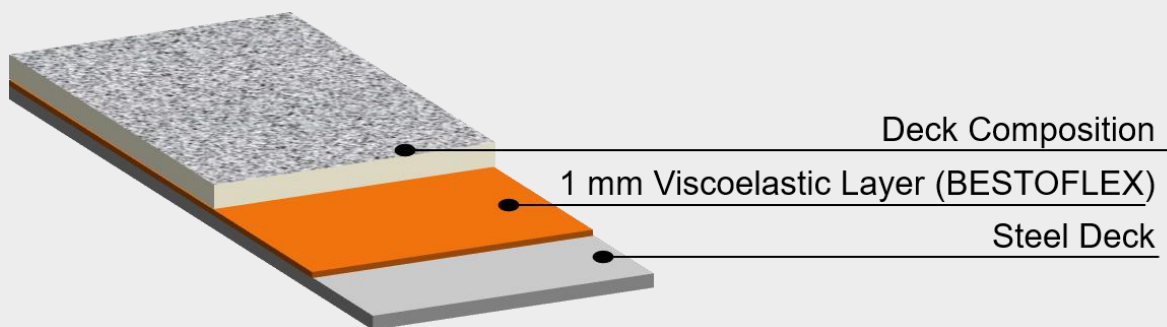
BILLYTEX deck compositions (BX-B, BX-BN, BX-LW, etc.) can be applied on viscoelastic (BESTOFLEX) layer.

## ➤ Characteristics

- Good sound reduction properties
- Excellent adhesive strength and flexibility
- Excellent elasticity
- Non-combustibility

## Application

- Accommodation decks in ships and offshore units where reduce impact & structure borne noise



Product	Materials	Quantity (kg/m <sup>2</sup> )	Packing unit	Standard thickness
BESTOFLEX (Viscoelastic)	Resin / Hardener	1.3	8.0 (1.6) / 1.6 (0.6) Kg	1.0 mm

Note ( ) : Small packing unit.

## » Certificates

[illegible]

## Installation Steps

### ❖ Surface Preparation

Deck surfaces should be free of dust, moisture, oil or grease and be primed with zinc silicate shop primer or equivalent finish. Be sure to check deck floor conditions (fairing, wavering, deformation, etc.) during cleaning and completely sealed holes and gaps below wall panel.

### ❖ Application of Viscoelastic Layer

Pour entire contents of the can containing 'Hardener' into the can containing 'Base' and blend thoroughly with the electric mixer for 2~3 minutes. Spread the viscoelastic mixture evenly at 1 mm thickness with a plastic or steel scratcher, and then sprinkle 1~2mm silica sands (approx. 200g/m<sup>2</sup>) on the viscoelastic layer.

### ❖ Application of Deck Composition

After installed viscoelastic layer is dried enough, Billytex deck-composition can be installed only in accordance with the corresponding installation manuals to each system.

### ❖ Installation suggestions

- Mixed viscoelastic shall be used within approx. 15 minutes.
- Installation shall be done in +5°C above (Room temperature)
- Installed viscoelastic shall not be exposed to moisture and to the temperature below +5°C until curing is completed.
- Keep the minimum distance between each steel plate.

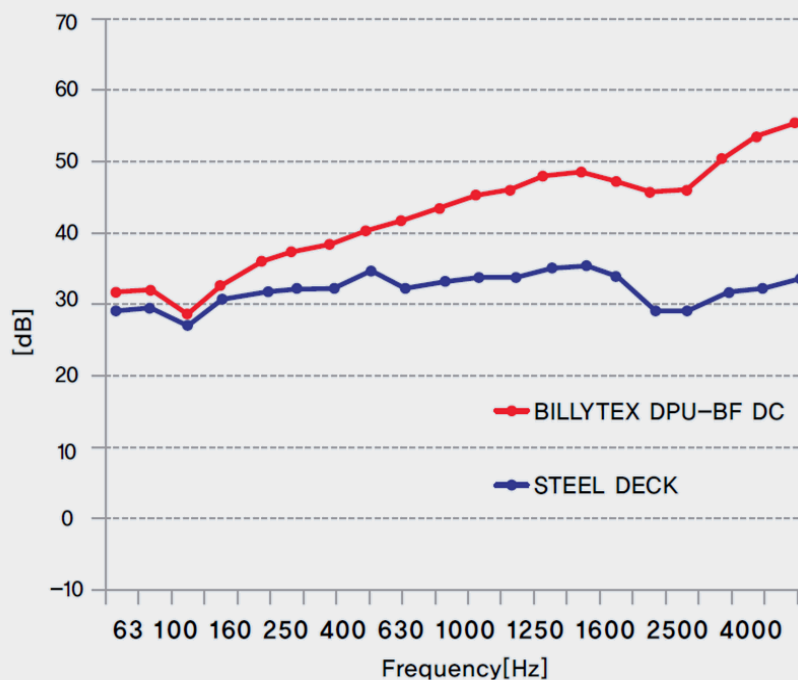
### ❖ Stock

- 1) The stocks shall be stored in a dry place where contact with direct sunlight and water can be avoided. Viscoelastic compounds shall not be used after shelf-life.
- 2) 12 months of use-by date under ordinary condition is guaranteed.

## Technical data

Product	Physical property	Result	Remarks
BESTOFLEX (Viscoelastic)	Basic	Polyurethane	
	Color	Various color	
	Density (g/cm <sup>3</sup> )	Approx. 1.3	
	Pot life (minutes)	Approx. 15	at 25°C
	Curing time (hours)	Approx. 8~10	at 25°C
	Ambient temperature	+5°C~+30°C	
	Solid content	100	
	Solvent	Solvent free	
	Fire resistance	Non-combustible	

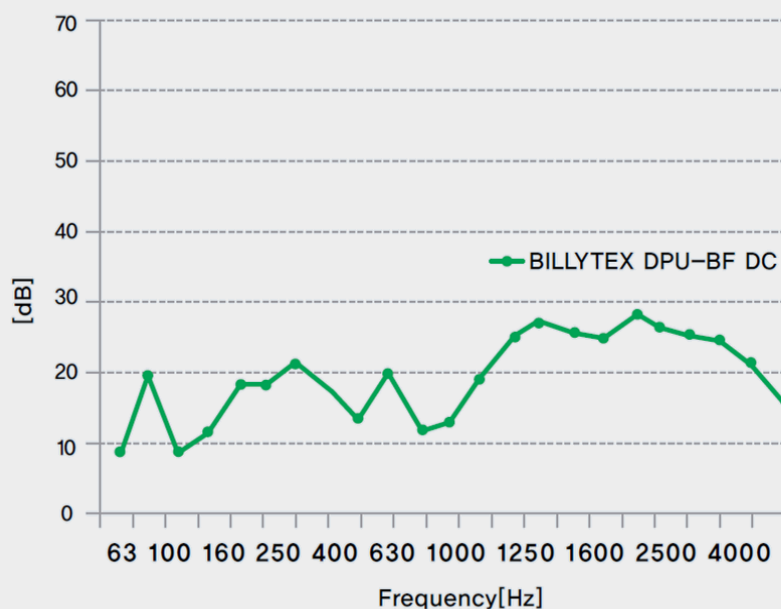
## ➤ Airbrone Sound Insulation Performance



HZ	dB
63	31.3
80	31.8
100	28.3
125	32.5
160	35.2
200	37.0
250	38.3
315	40.2
400	41.7
500	43.1
630	45.0
800	46.2
1000	48.0
1250	48.7
1600	47.6
2000	45.8
2500	46.1
3150	50.2
4000	53.5
5000	55.2
Rw	46

Measured Sound Reduction Index for the BILLYTEX DPU-BF DC according to ISO 10140-2 and ISO 717-1.

## ➤ Insertion Loss in Velocity Level (ILv)



HZ	dB
63	8.6
80	19.2
100	9.8
125	11.2
160	18.6
200	18.5
250	21.3
315	17.1
400	13.6
500	19.7
630	11.9
800	13.1
1000	19.0
1250	24.9
1600	27.1
2000	25.4
2500	24.6
3150	24.1
4000	21.4
5000	16.0

Measured Insertion Loss ILv for the BILLYTEX DPU-BF DC, expressed in dB per 1/3-octave frequency band. The insertion loss ILv refers to the mean velocity level in dB re  $10^{-9}$  m/s.

Sound Tests carried out by Fir e Insurers Laboratories of Korea (FILK)

**BILLYTEX DPU-BF DC**  
Sound Damping Floor System





DAEHYUP TECH CO., Ltd. provides comprehensive marine deck covering products such as powder, latex, epoxy and urethane types.

We have been developing our products more than three decades through various experiences in manufacturing and installations.

The quality of our products is assured by ISO 9001:2000 and approved by major authorities including leading classification societies in compliance with the IMO rules.



# ***DaeHyup***

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