

**ISO 12216:2018 - Small craft - Windows, portlights, hatches, deadlights and doors
- Strength and watertightness requirements**

Manufacturer:	HMY YAYLACI VİP DİZAYN TAS KARAVAN SAN.TİC.LTD.ŞTİ
Signatory, Name:	
Signatory, Title:	
Phone:	
Email:	
WWW:	
CIN Model Year:	2023
Model Name:	YAT CAR

This calculation sheet is provided by IMCI / IMCI(UK) "as is" and any express or implied warranties, including, but not limited to, the implied warranties of fitness for a particular purpose are disclaimed.

blue cells are derived values

yellow cells require data input

- if at hand, please send drawings and material data sheets for all windows

- Please check for every window, portlight or hatch, if ISO 12216 has other/additional restrictions/requirements besides the required thickness calculation !! This worksheet will not check all possible combinations of support/design category/area/craft type

- Please find detailed information about definitions of areas on worksheet definitions

- Please attach other detailed information as appropriate, e.g. technical drawings, photos, sketches etc.

- Please send questions, found errors, typos, mistakes, ect. directly to ralf.dewender@imci.org or to the headoffice with info@imci.org; every comment helps us to provide you with an emended version.

ISO 12216:2018 - Small craft - Windows, portlights, hatches, deadlights and doors
WORKSHEET No. 1 data entry Summary

ISO 12216 en210531

HMY YAYLACI VIP DİZAYN TAS KARAVAN SAN.TİC.LTD.ŞTİ YAT CAR

Basic data**Results for non-stiff**

	Name	Form of plate [rectangular / circle]	Long side [mm]	Unsupported short side [mm]	Diameter [mm]	Curve height [mm]	Semi-fixed or simply supported	Location type	Location area (only loc. II)	Design Category	Craft Type [Any/Motor/Sail]	Length of hull as in ISO 8666 [m]	Material	Tech. Minimum according to clause 7.2 used?	Is actual plate a sandwich?	If yes, enter number of layers	Thickness interlayer [mm]	Actual plate thickness [mm]	Required plate thickness [mm]	Requirements fulfilled?
No.1	DeckHouse - SIDE	rectangular	1800.0	800.0			simply supported	III	side	D	motor	4.60	TG	yes	no			6.00	5.74	PASS
No.2	DeckHouse - FWD	rectangular	850.0	800.0		300.0	simply supported	III	front	D	motor	4.60	PMMA	yes	no			6.00	4.59	PASS
No.3	DeckHouse - AFT	rectangular	850.0	800.0		300.0	simply supported	III	any	D	motor	4.60	PMMA	yes	no			6.00	4.59	PASS
No.4																				
No.5																				
No.6																				
No.7																				
No.8																				
No.9																				
No.10																				
No.11																				
No.12																				
No.13																				
No.14																				
No.15																				

* In case of red marked cells, please check additional requirements of ISO 12216; e.g. maximum thickness of interlayer, determination of the location in area III or short side b > 300mm in area I

ISO 12216:2018 - Small craft - Windows, portlights, hatches, deadlights and doors
WORKSHEET No. 2 Results

HMY YAYLACI VIP DIZAYN TAS KARAVAN SAN.TİC.LTD.ŞTİ YAT CAR

Stiffened plates

Results for non-stiffened plates, calculation values

	Thickness (Stress) [mm]	Thickness (Deflection) [mm]	Required thickness [mm]	Thickness minimum, techn. [mm]	Thickness minimum, Tab 5 [mm]	Press reduction factor	Press reduction within limits 0,33 and 1,0	Basic design press	Allowable flexural stress	Curvature coefficient	Ratio a/b (valid ≤ 5)	Ratio a/b corrected	Plate aspect ratio coefficient stress	Plate aspect ratio coefficient deflection
No.1	6.24	5.43	6.24	5.74	3.00	0.7820	0.7820	6	50.000	1.000	2.25	2.25	0.6491	0.1192
No.2	3.44	5.09	5.09	4.59	4.00	0.7820	0.7820	6	31.429	0.625	1.06	1.06	0.3162	0.0498
No.3	3.44	5.09	5.09	4.59	4.00	0.7820	0.7820	6	31.429	0.625	1.06	1.06	0.3162	0.0498
No.4														
No.5														
No.6														
No.7														
No.8														
No.9														
No.10														
No.11														
No.12														
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No.15														