

APPENDIX D
COST MODEL

Passive Design Systems

Material Cost C_{M,p,p}

Item	BASIC VESSEL						NEW VESSEL					BASIC VESSEL vs. NEW VESSEL		
	Type	Description	Default Quantity		Default Cost	Total Default Cost	Description	Quantity		Parameter Cost	Total Parameter Cost	Total Cost	1+ δ	δ
			kg	m ²	Euro/unit	Euro		kg	m ²	Euro/unit	Euro	Euro		
Furnishings	Case Furniture	to be provided by FIN/SEA	150.00	0.00	58.00	8.700.00	Case furniture 1	125.0	0.0	55.00	6.875.00	7.750.00	0.89	0.11
							Case furniture 2	0.0	0.0	-	-			
							Case furniture 3	35.0	0.0	25.00	875.00			
	Draperies, curtains	to be provided by FIN/SEA	0.00	20.00	25.00	500.00	Draperies, curtains 1	0.0	0.0	-	-	500.00	1.00	-
							Draperies, curtains 2	0.0	0.0	-	-			
							Draperies, curtains 3	0.0	0.0	-	-			
	Upholstered furniture	to be provided by FIN/SEA	322.00	0.00	12.00	3.864.00	Upholstered furniture 1	0.0	0.0	-	-	6.250.00	1.62	0.62
							Upholstered furniture 2	0.0	0.0	-	-			
							Upholstered furniture 3	250.0	0.0	25.00	6.250.00			
	Deck finish materials	to be provided by FIN/SEA	0.00	68.00	21.00	1.428.00	Deck finish materials 1	0.0	0.0	-	-	1.428.00	1.00	-
							Deck finish materials 2	0.0	0.0	-	-			
							Deck finish materials 3	0.0	0.0	-	-			
Linings														
Ceilings														
Separating Divisions														

Default Cost_{p,p}

14.492.00

Cost_{m,p,p}

15.928.00

δ_{m,p,p}

0.10

TOTAL

Active design Systems

Material Cost $C_{M,a,p}$

ITEM	BASIC VESSEL					NEW VESSEL					BASIC VESSEL vs. NEW VESSEL	
	Type	Description	Default Quantity	Default Cost	Total Default Cost	Description	Quantity	Parameter Cost	Total Parameter Cost	Total Cost	1+ δ	δ
				Euro/unit	Euro			Euro/unit	Euro			
Detection Systems	Heat detector		5	25	125.00	Heat detector 1	6	18	108	276	2.208	1.208
						Heat detector 2	6	28	168			
	Smoke detector					Smoke detector 1						
Alarm Systems	Manually operated call point		3	46	138.00	Manually call point 1	6	27	162	162	1.1739	0.17391
						Manually call point 2						
	Automatic Alarm Systems		5	25	125.00	Automatic Alarm 1	7	26	182	182	1.456	0.456
Ventilation Shut down systems	Fire damper in vent duct											
	Smoke tight											
	Remote ventilation shut-off											
Fixed Fire Extinguisher Systems	Sprinkler Installation											
	Sprinkler releaser											
	Drenching Installation											
	Drenching Releaser											
	CO ₂ releaser station											
CO ₂ releaser			8	25	200.00	CO ₂ releaser 1				150	0.75	-0.25
						CO ₂ releaser 2	10	15	150			
Portable Fire Extinguisher	CO ₂											
	Chemical Foam											
	Foam Applicator											
	Powder											

Total

Default Cost m,a,p
818.00

Cost m,a,p
770.00

$\delta_{m,a,p}$
- 0.06