



Hava Panjurları ve Damla Tutucular

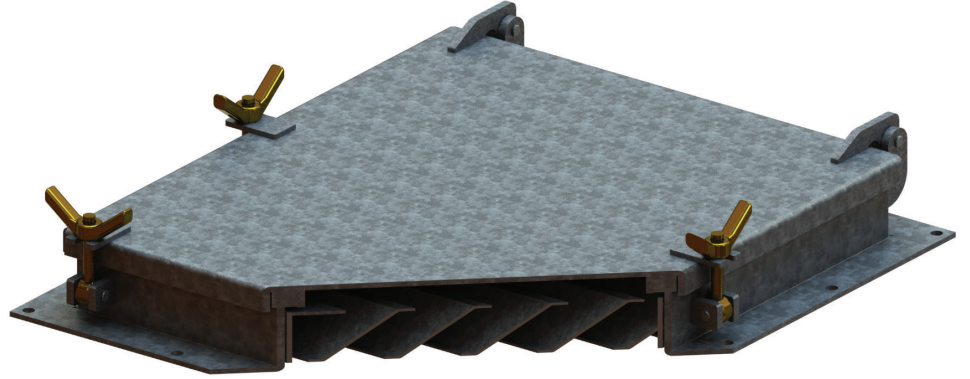
Weather Louvers and Droplet Separators

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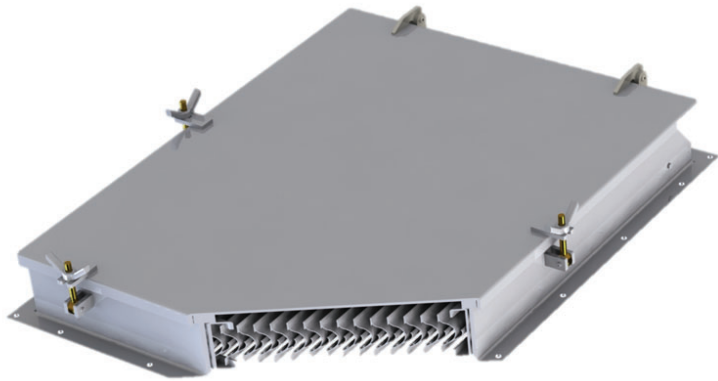
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LOUVERS WITH COVERS
KAPAKLI PANJURLAR



DROPLET ELIMINATOR LOUVERS
KAPAKLI DAMLA TUTUCULAR



LOUVRE DAMPERS
PANJURLU DAMPERLER



DESCRIPTION

Ventilation louvers with weathertight cover are destined for installation on steel or aluminium walls of superstructure on seagoing ships as air supply or exhaust units of ventilation systems. Louvers are provided with detachable blade frame, that makes easy installation as well as access for maintenance.

TYPES AND EXECUTIONS

TYPES

- A - Square louver
- B - Rectangular louver, hinges on longer side
- C - Rectangular louver, hinges on shorter side

Sizes

L1xL2 - see table

Dimension L1 always is the length of side, on which cover hinges are fitted.

Opening direction

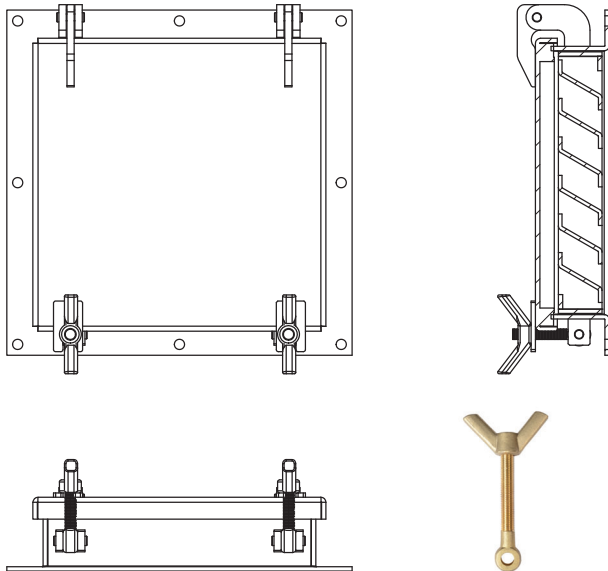
- D - upwards opened cover
- E - downwards opened cover
- F - cover opened to the left
- G - cover opened to the right

Fittings

- 1 - louver with blade frame, without wire gauze
- 2 - louver with blade frame and wire gauze of 10 mm mesh
- 3 - louver with wire gauze of 10 mm mesh, without

Material

- steel louvers made of carbon steel St3St, with brass swing nuts, all bolts and pins of stainless steel.
Droplet separating profiles - aluminium.
- aluminium louvers of alloy PA2, nuts, bolts and pins as above
Droplet separating profiles - sea water resistant aluminium.



TANIM

Hava geçirmez kapaklı havalandırma panjurları havalandırma sistemlerinin hava besleme veya egzoz üniteleri olarak denizde seyreden gemilerdeki üst yapının çelik veya alüminyum duvarlarına monte edilmek üzere tasarlanmıştır. Panjurlar, bakımın yanı sıra kurulumu da kolaylaştıran sökülebilir bıçak çerçevesiyle donatılmıştır.

TÜRLER VE UYGULAMALAR

TÜRLER

- A - Kare panjur
- B - Dikdörtgen panjur, uzun taraftan menteşeler
- C - Dikdörtgen panjur, kısa taraftan menteşeler

Ölçüler

L1xL2 - tabloya bakın

L1 boyutu her zaman kapak menteşelerinin takıldığı tarafın uzunluğudur..

Açılma Yönü

- D - yukarıya doğru açılan kapak
- E - aşağı doğru açılan kapak
- F - kapak sola açıldı
- G - kapak sağa açıldı

Parçalar

- 1 - Bıçak çerçevesi panjur, tel örgüsüz
- 2 - Bıçak çerçevesi panjur ve 10 mm gözenekli tel örgü
- 3 - 10 mm gözenekli tel örgülü panjur

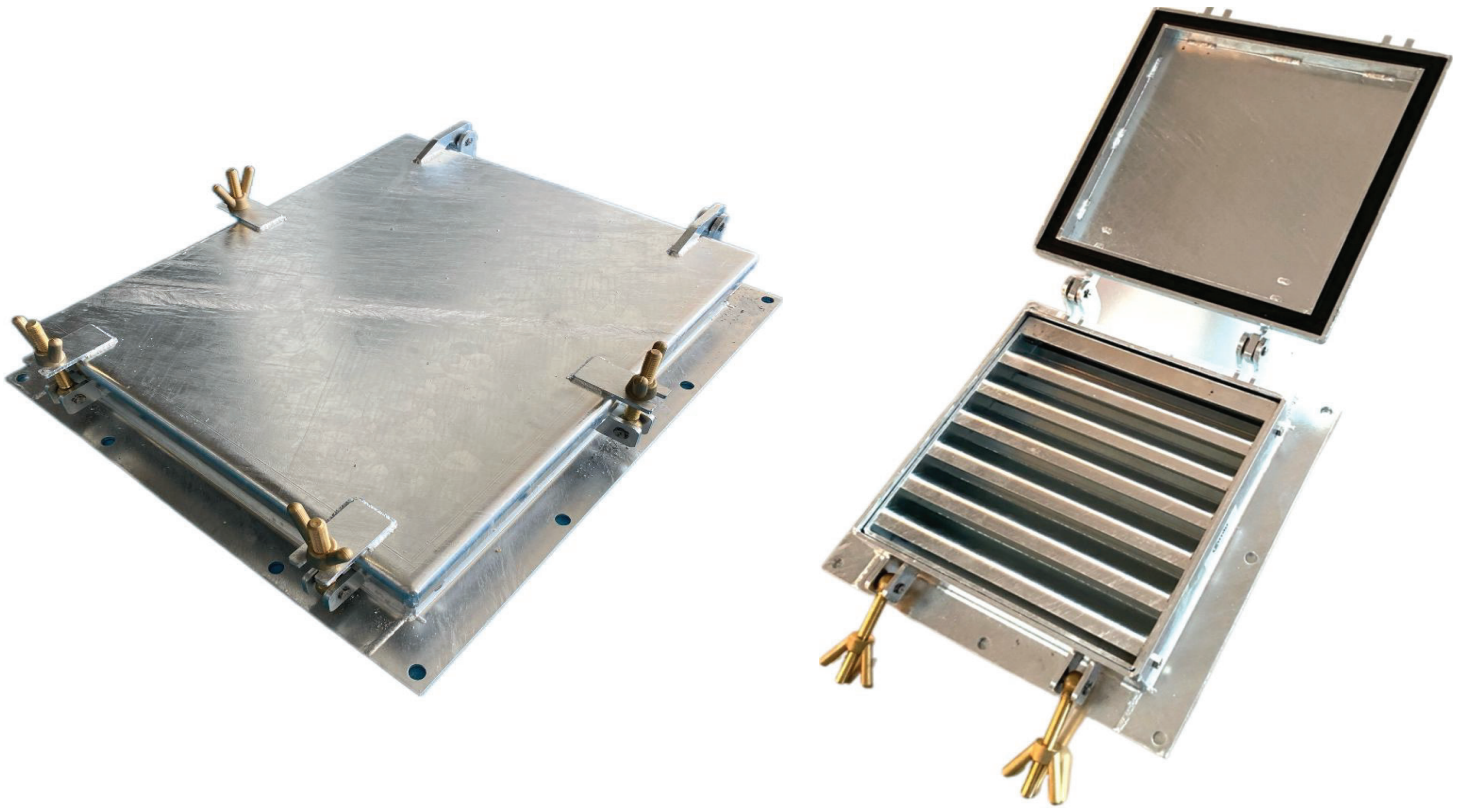
Malzeme

- piring döner somunlu, tüm cıvata ve pimler paslanmaz çelikten, St3St karbon çeliğinden yapılmış çelik panjurlar. Damlacık ayırma profilleri - alüminyum.

- PA2 alaşımından alüminyum panjurlar, yukarıdaki gibi somunlar, cıvatalar ve pimler

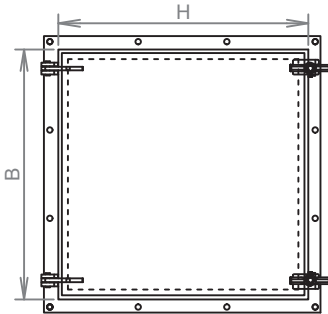
Damla ayırma profilleri - deniz suyuna dayanıklı alüminyum.



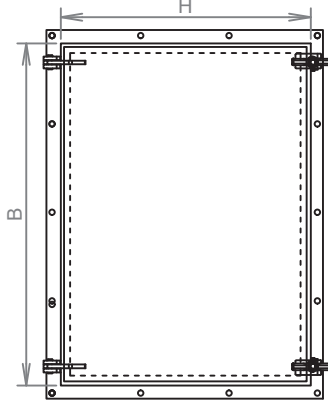


ARRANGEMENT OF HINGES AND SWING NUTS / MENTEŞE VE SOMUNLARIN DÜZENLENMESİ

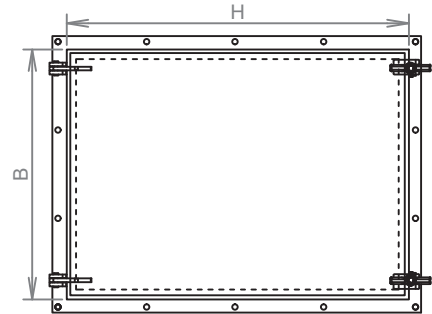
Type A 250x250 to 500x500



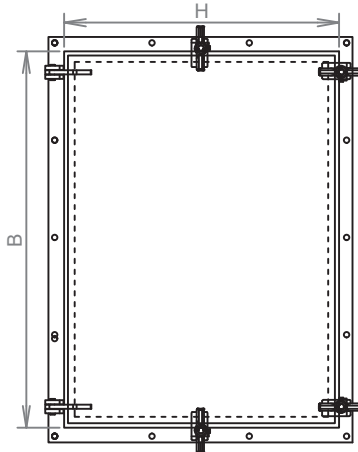
Type B 250x200 to 900x500



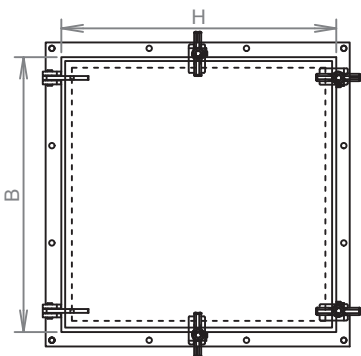
Type C 200x250 to 400x500



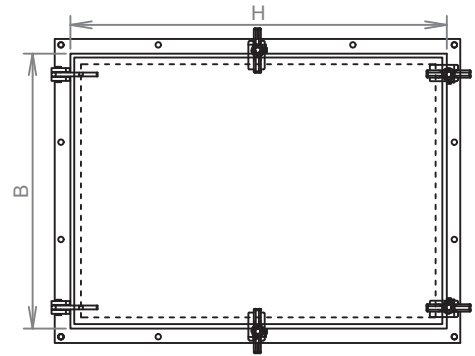
Type B 100x600 to 1200x750

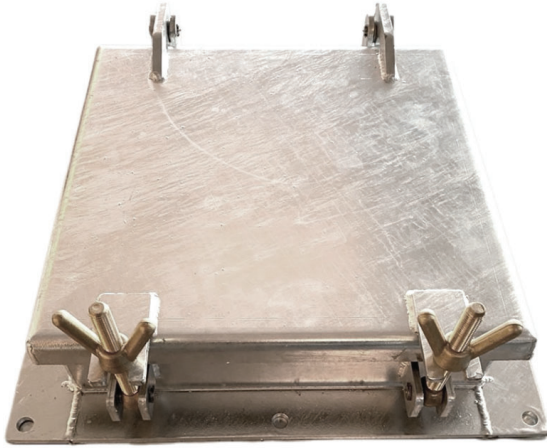


Type A 600x600 to 750x750



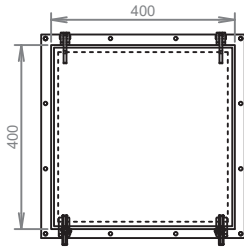
Type C 400x600 to 500x900



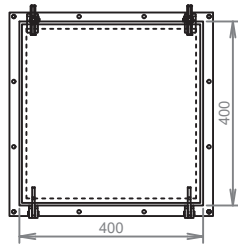


Type A Square Louvers/Kare Panjurlar

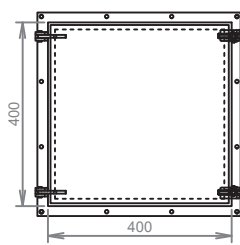
Type A 400x400-D



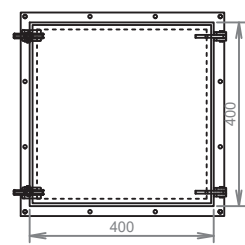
Type A 400x400-E



Type A 400x400-F

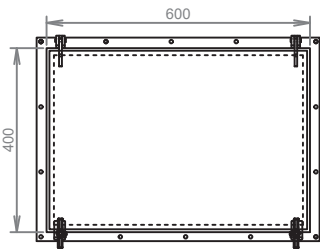


Type A 400x400-G

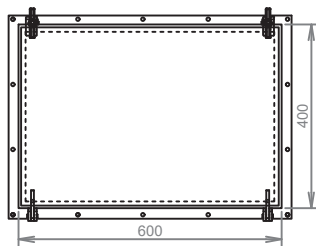


Type B Rectangular Louvers/Dikdörtgen Panjurlar

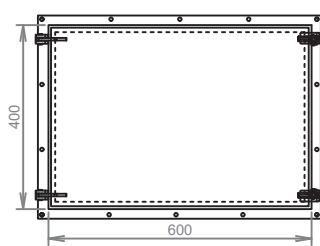
Type B 600x400-D



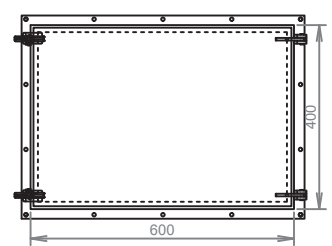
Type B 600x400-E



Type B 600x400-F



Type B 600x400-G



DESCRIPTION

Ventilation louvers without weathertight cover are destined for installation on steel or aluminium walls of superstructure on seagoing ships as air supply or exhaust units of ventilation systems. Louvers are provided with detachable blade frame, that makes easy installation as well as access for maintenance. Louvers may be fitted in positions where wheater-tight closing device are not required.

TYPES AND EXECUTIONS

Sizes

BxH - see table

Fittings

- 1 - louver with blade frame, without wire gauze
- 2 - louver with blade frame and wire gauze of 10 mm mesh

Material

- St - steel
- 5754-aluminium
- 316 stainless steel
- Steel louvers made of carbon steel St3St
- All bolts and pins of stainless steel 316

TANIM

Hava geçirmez kapağı olmayan havalandırma panjurları, denizde seyreden gemilerde havalandırma sistemlerinin hava besleme veya egzoz üniteleri olarak üst yapının çelik veya alüminyum duvarlarına monte edilmek üzere tasarlanmıştır. Panjurlar, bakımın yanı sıra kurulumu da kolaylaştıran sökülebilir bıçak çerçevesiyle donatılmıştır. Panjurlar, hava geçirmez kapatma cihazının gerekli olmadığı konumlara takılabilir.

TÜRLER VE UYGULAMALAR

Boyutlar

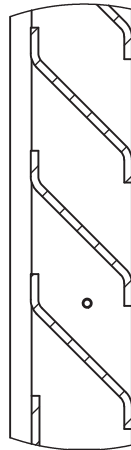
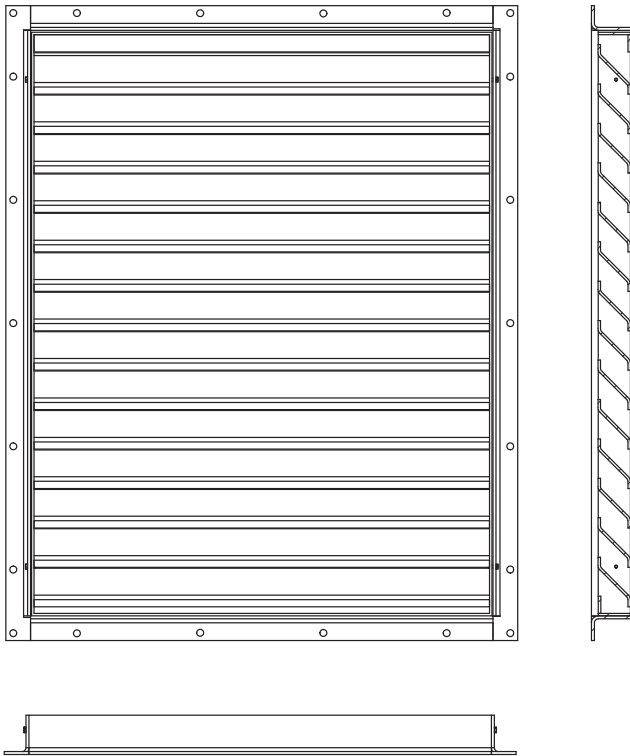
BxH - tabloya bakın

Bağlantı parçaları

- 1 - bıçak çerçevesi panjur, tel örgüsüz
- 2 - bıçak çerçevesi ve tel örgülü panjur 10 mm ağ

Malzeme

- St - çelik
- 5754-alüminyum
- 316 paslanmaz çelik
- St3St karbon çeliğinden yapılmış çelik panjurlar
- Tüm cıvatalar ve pimler paslanmaz çelik 316





BXH

B (mm)

Aeff (m ²)	200	300	400	500	600	700	800	900	1000	1100	1200	1400	1600	1800	2000	2200	2500
200	0.012	0.019	0.025	0.031	0.037	0.043	0.050	0.056	0.062	0.068	0.074	0.087	0.099	0.112	0.124	0.136	0.155
300	0.036	0.054	0.072	0.090	0.108	0.126	0.144	0.162	0.180	0.198	0.216	0.252	0.288	0.324	0.360	0.396	0.450
400	0.048	0.072	0.096	0.120	0.144	0.168	0.192	0.216	0.240	0.264	0.288	0.336	0.384	0.432	0.480	0.528	0.600
500	0.072	0.108	0.144	0.180	0.216	0.252	0.288	0.324	0.360	0.396	0.432	0.504	0.576	0.648	0.720	0.792	0.900
600	0.084	0.126	0.168	0.210	0.252	0.294	0.336	0.378	0.420	0.462	0.504	0.588	0.672	0.756	0.840	0.924	1.050
700	0.108	0.162	0.216	0.270	0.323	0.377	0.431	0.485	0.539	0.593	0.647	0.755	0.862	0.970	1.078	1.186	1.348
800	0.120	0.179	0.239	0.299	0.359	0.418	0.478	0.538	0.598	0.657	0.717	0.837	0.956	1.076	1.195	1.315	1.494
900	0.132	0.197	0.263	0.329	0.395	0.461	0.526	0.592	0.658	0.724	0.789	0.921	1.053	1.184	1.316	1.447	1.645
H (mm) 1000	0.156	0.234	0.312	0.390	0.468	0.546	0.624	0.702	0.780	0.858	0.936	1.092	1.248	1.404	1.560	1.716	1.950
1100	0.168	0.251	0.335	0.419	0.503	0.587	0.671	0.754	0.838	0.922	1.006	1.173	1.341	1.509	1.676	1.844	2.096
1200	0.192	0.288	0.384	0.480	0.576	0.672	0.768	0.864	0.960	1.056	1.152	1.344	1.536	1.728	1.920	2.112	2.400
1400	0.228	0.341	0.455	0.569	0.683	0.797	0.911	1.024	1.138	1.252	1.366	1.593	1.821	2.049	2.276	2.504	2.846
1600	0.252	0.377	0.503	0.629	0.755	0.880	1.006	1.132	1.258	1.383	1.509	1.761	2.012	2.264	2.515	2.767	3.144
1800	0.288	0.432	0.576	0.720	0.864	1.008	1.152	1.296	1.440	1.584	1.728	2.016	2.304	2.592	2.880	3.168	3.600
2000	0.324	0.486	0.648	0.810	0.972	1.134	1.296	1.458	1.620	1.782	1.944	2.268	2.592	2.916	3.240	3.564	4.050
2200	0.356	0.535	0.713	0.891	1.069	1.247	1.426	1.604	1.782	1.960	2.138	2.495	2.851	3.208	3.564	3.920	4.455
2500	0.408	0.611	0.815	1.019	1.223	1.426	1.630	1.834	2.038	2.241	2.445	2.853	3.260	3.668	4.075	4.483	5.094

DESCRIPTION

Marine ventilation louvers with droplets eliminators and weathertight covers are destined for installation on steel or aluminium walls of superstructures on seagoing ships as air supply units of ventilation systems.

Louvers are provided with detachable blade frame, that makes easy installation as well as access for maintenance. Frame consists of specially shaped, vertical, high-efficiency droplet separating profiles.

TYPE AND EXECUTIONS

TYPES

- A - Square louver
- B - Rectangular louver, hinges on longer side
- C - Rectangular louver, hinges on shorter side

Sizes

L1xL2 - see table

Dimension L1 always is the length of side, on which cover hinges are fitted.

Opening direction

- D - upwards opened cover
- E - downwards opened cover
- F - cover opened to the left
- G - cover opened to the right

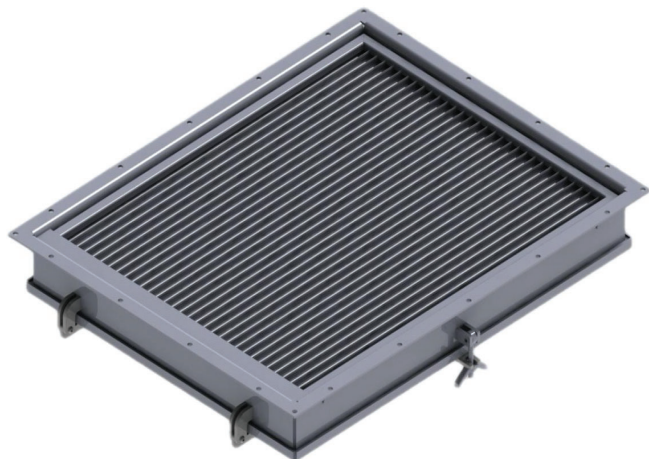
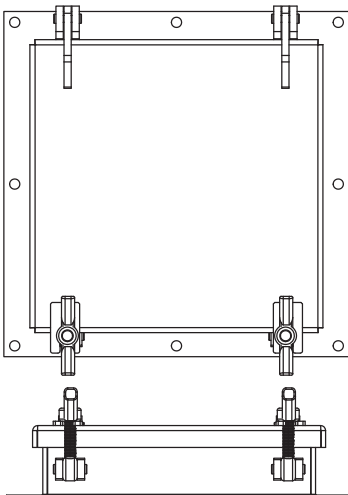
Fittings

- 1 - louver with blade frame, without wire gauze
- 2 - louver with blade frame and wire gauze of 10 mm mesh

Material

- steel louvers made of carbon steel St3St, with brass swing nuts, all bolts and pins of stainless steel.
Droplet separating profiles

- aluminium. Droplet separating profiles - sea water resistant aluminium.



TANIM

Damla tutuculara ve hava geçirmez kapaklara sahip deniz havalandırma panjurları, havalandırma sistemlerinin hava besleme üniteleri olarak denizde seyreden gemilerdeki üst yapıların çelik veya alüminyum duvarlarına monte edilmek üzere tasarlanmıştır.

Panjurlar, bakımın yanı sıra kurulumu da kolaylaştıran sökülebilir bıçak çerçevesiyle donatılmıştır. Çerçeve özel olarak şekillendirilmiş, dikey, yüksek verimli damlacık ayırma profilleri.

TÜRLER VE UYGULAMALAR

TÜRLER

- A - Kare panjur
- B - Dikdörtgen panjur, uzun taraftan menteşeler
- C - Dikdörtgen panjur, kısa taraftan menteşeler

Ölçüler

L1xL2 - tabloya bakın

L1 boyutu her zaman kapak menteşelerinin takıldığı tarafın uzunluğudur..

Açılma Yönü

- D - yukarıya doğru açılan kapak
- E - aşağı doğru açılan kapak
- F - kapak sola açıldı
- G - kapak sağa açıldı

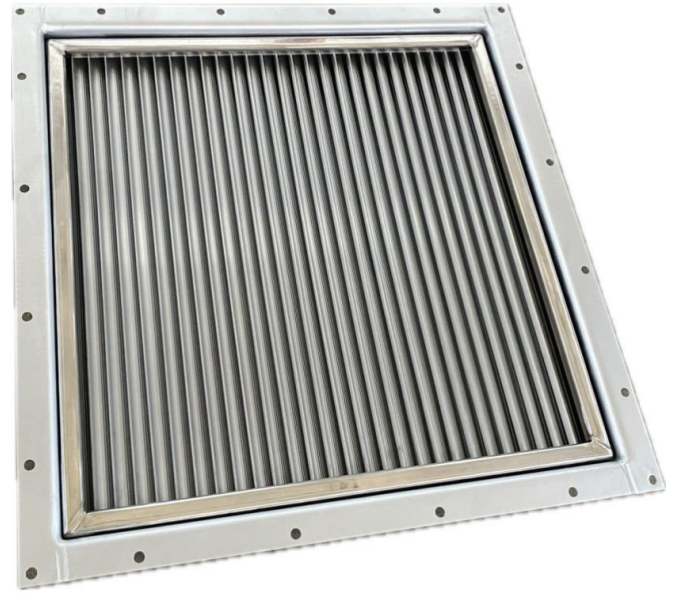
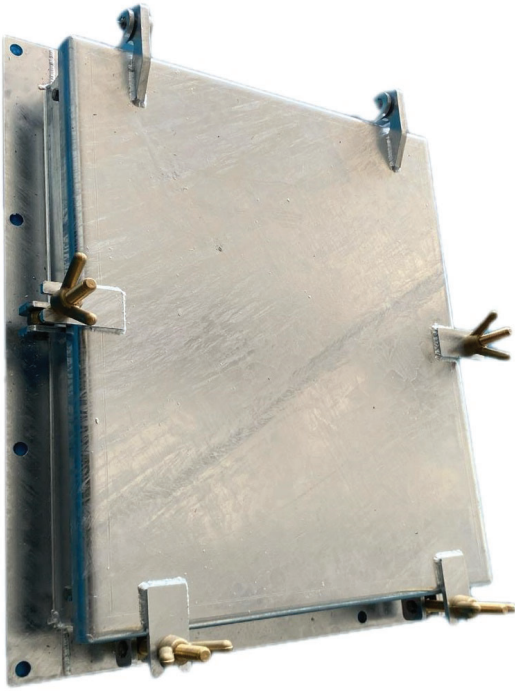
Parçalar

- 1 - Bıçak çerçevesi panjur, tel örgüsü
- 2 - Bıçak çerçevesi panjur ve 10 mm gözenekli tel örgü

Malzeme

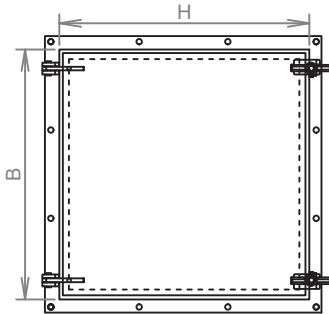
- Pirinç döner somunlu, tüm cıvata ve pimler paslanmaz çelikten, St3St karbon çeliğinden yapılmış çelik panjurlar. Damlacık ayırma profilleri - alüminyum.

Damla ayırma profilleri - deniz suyuna dayanıklı alüminyum.

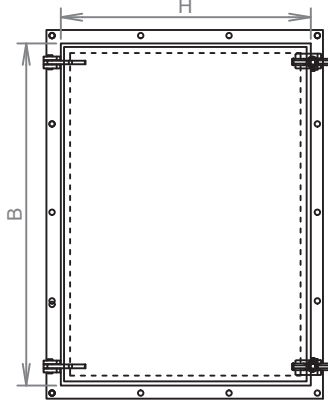


ARRANGEMENT OF HINGES AND SWING NUTS / MENTEŞE VE SOMUNLARIN DÜZENLENMESİ

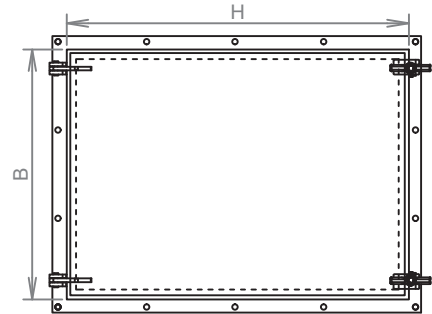
Type A 250x250 to 500x500



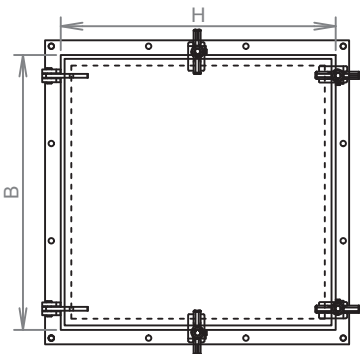
Type B 250x200 to 900x500



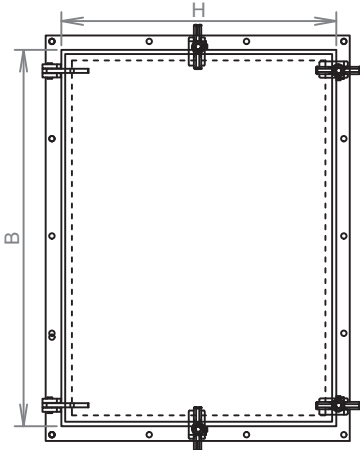
Type C 200x250 to 400x500



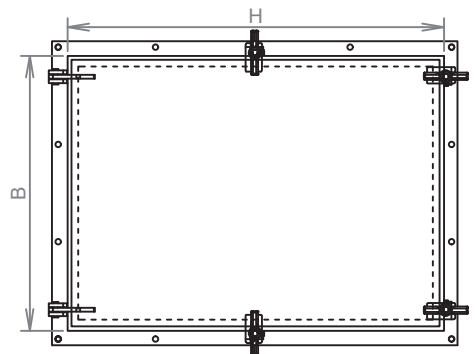
Type A 600x600 to 750x750

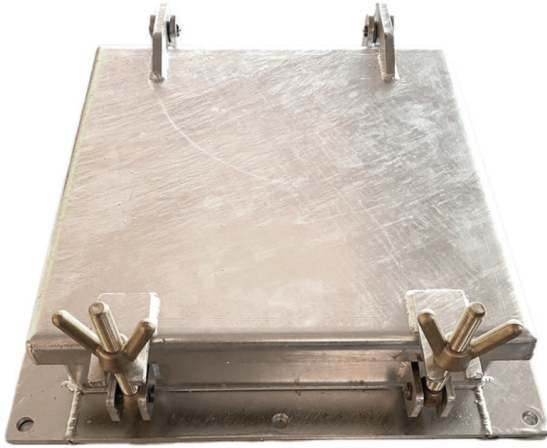


Type B 100x600 to 1200x750



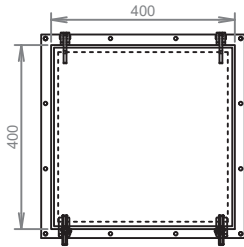
Type C 400x600 to 500x900



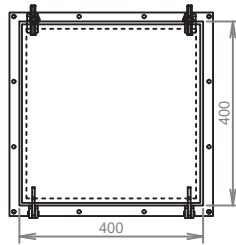


Type A Square Droplet Eliminatör /Kare Damla Tutucular

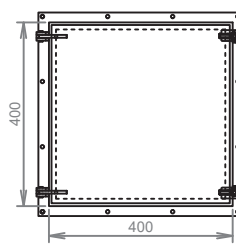
Type A 400x400-D



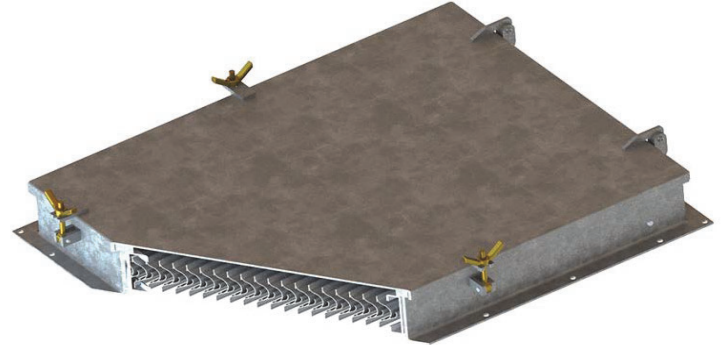
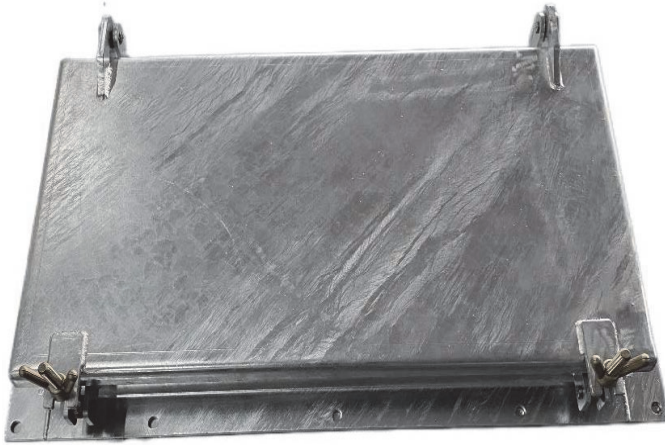
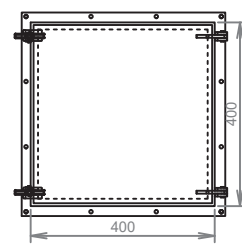
Type A 400x400-E



Type A 400x400-F

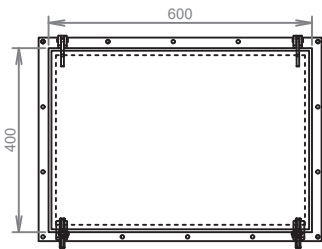


Type A 400x400-G

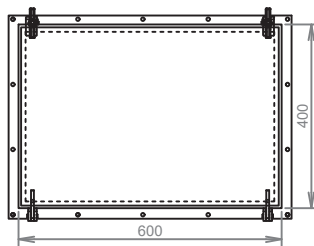


Type B Rectangular Droplet Eliminatör /Dikdörtgen Damla Tutucular

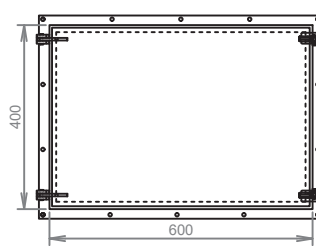
Type B 600x400-D



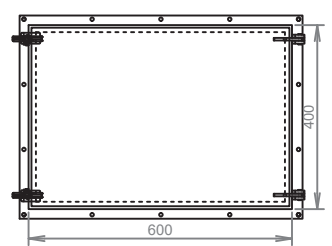
Type B 600x400-E



Type B 600x400-F



Type B 600x400-G



DESCRIPTION

Marine ventilation louvers with droplets eliminators are destined for installation on steel or aluminium walls of superstructures of seagoing ships as air supply units of ventilation systems.

Construction is based on standard DIN 83409 with significant extending of size range.

Louvers are provided with detachable blade frame, that makes easy installation as well as access for maintenance.

Frame consists of specially shaped, vertical, high-efficiency droplet separating profiles.

TYPES ANDEXCUTIONS

Sizes:

BxH - see table

Fittings:

1- louver with blade frame, without wire gauze

2 - louver with blade frame and wire gauze o

Material:

-St - steel

-5754-aluminium

-316 stainless steel

-Steel louvers made of carbon steel St3St

-All bolts and pins of stainless steel 316

TANIM

Damla tutuculu deniz havalandırma panjurları, açık deniz gemilerinin üst yapılarının çelik veya alüminyum duvarlarına havalandırma sistemlerinin hava besleme üniteleri olarak monte edilmek üzere tasarlanmıştır.Yapı, boyut aralığı önemli ölçüde genişletilerek DIN 83409 standardına dayanmaktadır. Panjurlar, kolay kurulum ve bakım için erişim sağlayan çıkarılabilir kanat çerçevesi ile donatılmıştır.Çerçeve, özel olarak şekillendirilmiş, dikey, yüksek verimli damla ayırıcı profillerden oluşur.

TÜRLER VE UYGULAMALAR

Boyutlar:

BxH - tabloya bakın

Bağlantı parçaları:

1 - Tel örgüsüz, bıçak çerçevesi panjur

2 - Bıçak çerçevesi ve tel örgülü panjur

Malzeme:

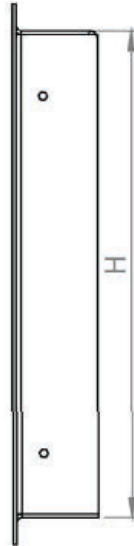
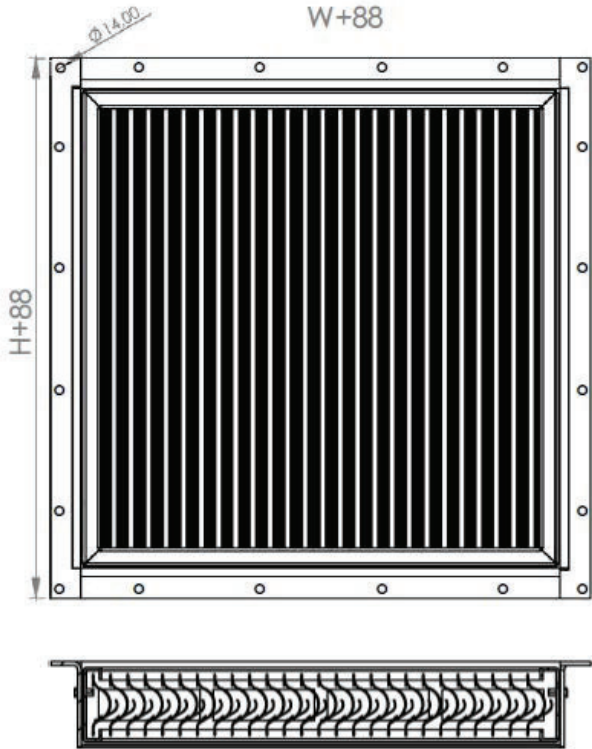
-St - çelik

-5754-alüminyum

-316 paslanmaz çelik

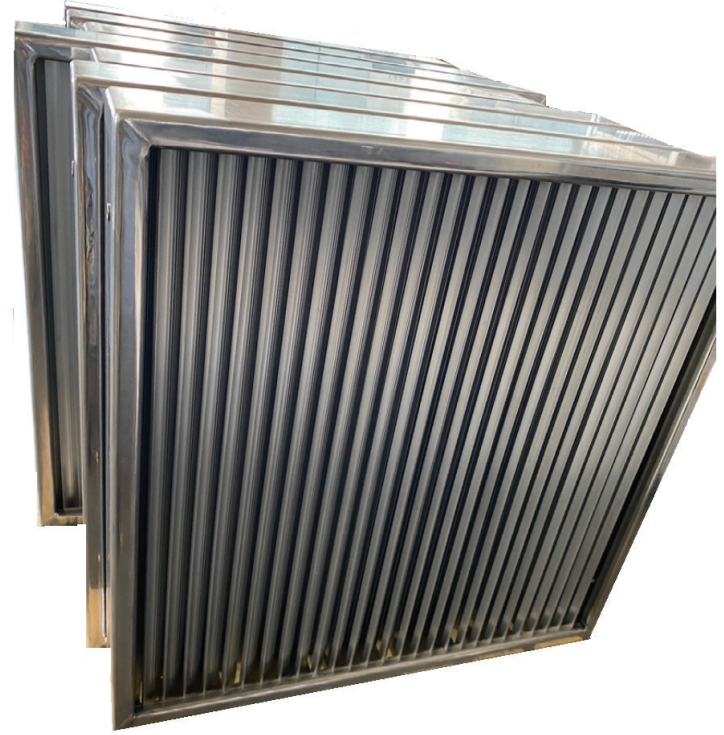
-St3St karbon çeliğinden yapılmış çelik panjurlar

-Tüm cıvatalar ve pimler paslanmaz çelik 316



DROPLET ELIMINATOR LOUVERS WITHOUT COVERS

KAPAKSIZ DAMLA TUTUCU PANJURLAR



		BXH														
		B (mm)														
Aeff (m ²)		200	300	400	500	600	700	800	900	1000	1100	1200	1400	1600	1800	2000
200		0,009	0,015	0,019	0,024	0,028	0,033	0,039	0,043	0,048	0,052	0,057	0,067	0,076	0,086	0,095
300		0,028	0,042	0,055	0,069	0,083	0,097	0,111	0,125	0,139	0,152	0,166	0,194	0,222	0,249	0,277
400		0,037	0,055	0,074	0,092	0,111	0,129	0,148	0,166	0,185	0,203	0,222	0,259	0,296	0,333	0,37
500		0,055	0,083	0,111	0,139	0,166	0,194	0,222	0,249	0,277	0,305	0,333	0,388	0,444	0,499	0,554
600		0,065	0,097	0,129	0,162	0,194	0,226	0,259	0,291	0,323	0,356	0,388	0,453	0,517	0,582	0,647
700		0,083	0,125	0,166	0,208	0,249	0,29	0,332	0,373	0,415	0,457	0,498	0,581	0,664	0,747	0,83
800		0,092	0,138	0,184	0,23	0,276	0,322	0,368	0,414	0,46	0,506	0,552	0,644	0,736	0,829	0,92
H (mm)	900	0,102	0,152	0,203	0,253	0,304	0,355	0,405	0,456	0,507	0,557	0,608	0,709	0,811	0,912	1,013
	1000	0,12	0,18	0,24	0,3	0,36	0,42	0,48	0,541	0,601	0,661	0,721	0,841	0,961	1,081	1,201
	1100	0,129	0,193	0,258	0,323	0,387	0,452	0,517	0,581	0,645	0,71	0,775	0,903	1,033	1,162	1,291
	1200	0,148	0,222	0,296	0,37	0,444	0,517	0,591	0,665	0,739	0,813	0,887	1,035	1,183	1,331	1,478
	1400	0,176	0,263	0,35	0,438	0,526	0,614	0,701	0,788	0,876	0,964	1,052	1,227	1,402	1,578	1,753
	1600	0,194	0,29	0,387	0,484	0,581	0,678	0,775	0,872	0,969	1,065	1,162	1,356	1,549	1,743	1,937
	1800	0,222	0,333	0,444	0,554	0,665	0,776	0,887	0,998	1,109	1,22	1,331	1,552	1,774	1,996	2,218
	2000	0,249	0,374	0,499	0,624	0,748	0,873	0,998	1,123	1,247	1,372	1,497	1,746	1,996	2,245	2,495

DESTINATION

Marine ventilation louvers with movable blades EXL type are Construction is based on standard DIN 83409 with significant extending of size range. Louvers are provided with detachable blade frame, that makes destined for installation in ventilation systems of seagoing ships and offshore objects. Louvers may be used as fire closures of main external ventilation openings.

CONSTRUCTION

Louvers consist of flanged, drilled frame, a set of fixed blades and a set of movable blades (damper) operated manually with lever.

MATERIAL

- frame, blades - carbon mild steel
- shafts - stainless steel 316
- bolts, nuts - stainless steel 316

SIZES AND EXECUTIONS

Dimensions B and H to be specified by the Customer.

SURFACE TREATMENT

Hot-dip galvanised. Preservation with set of marine paints available on request.

TANIM

Hareketli kanatlara sahip deniz havalandırma panjurları EXL tipidir. Yapısı DIN 83409 standardına dayanmaktadır. boyut aralığının önemli ölçüde genişletilmesiyle. Panjurlar çıkarılabilir bıçak çerçevesiyle donatılmıştır; havalandırmaya kurulum için tasarlanmıştır. Denizde seyreden gemilerin ve açık deniz nesnelerinin sistemleri. Panjurlar olabilir ana dış havalandırma açıklıklarının yangın kapakları olarak kullanılır.

MONTAJ

Panjurlar flanşlı, delikli çerçeveden ve bir setten oluşur sabit kanatlardan ve manivela ile manuel olarak çalıştırılan bir dizi hareketli kanattan (damper) oluşur.

MALZEME

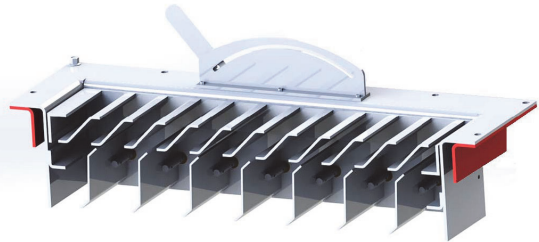
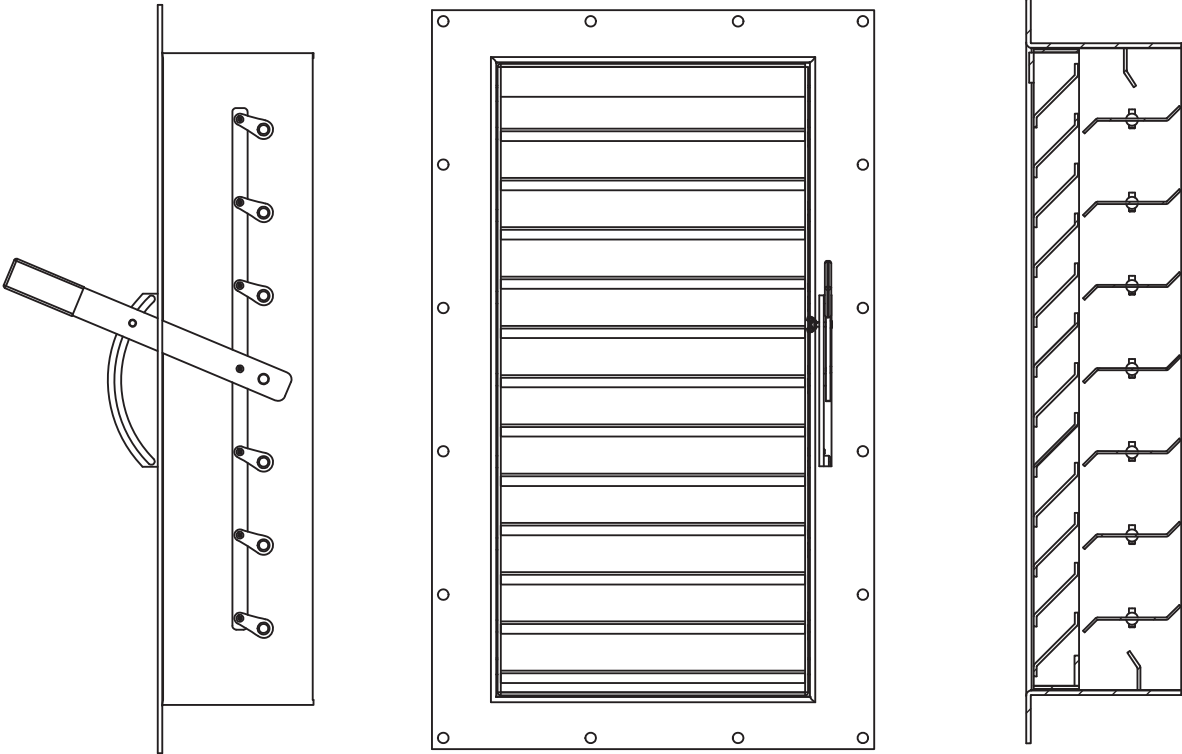
- çerçeve, bıçaklar - karbon yumuşak çelik
- Miller- paslanmaz çelik 316
- civatalar, somunlar - paslanmaz çelik 316

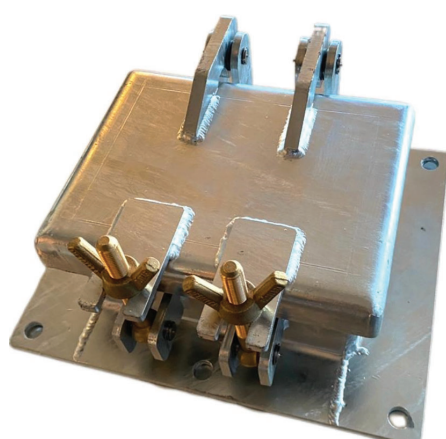
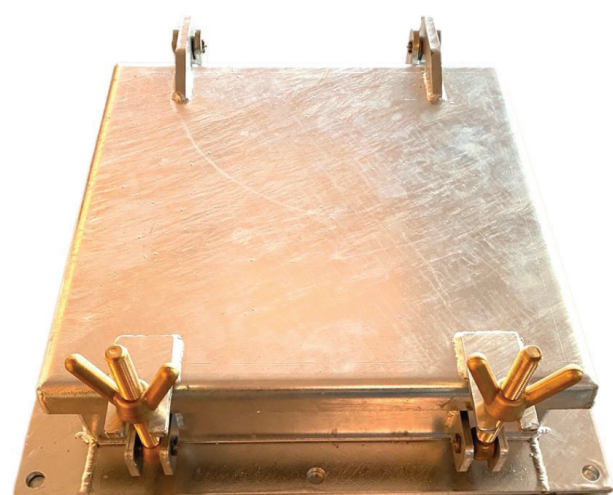
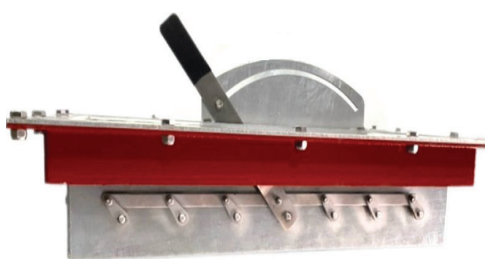
BOYUTLAR VE UYGULAMALAR

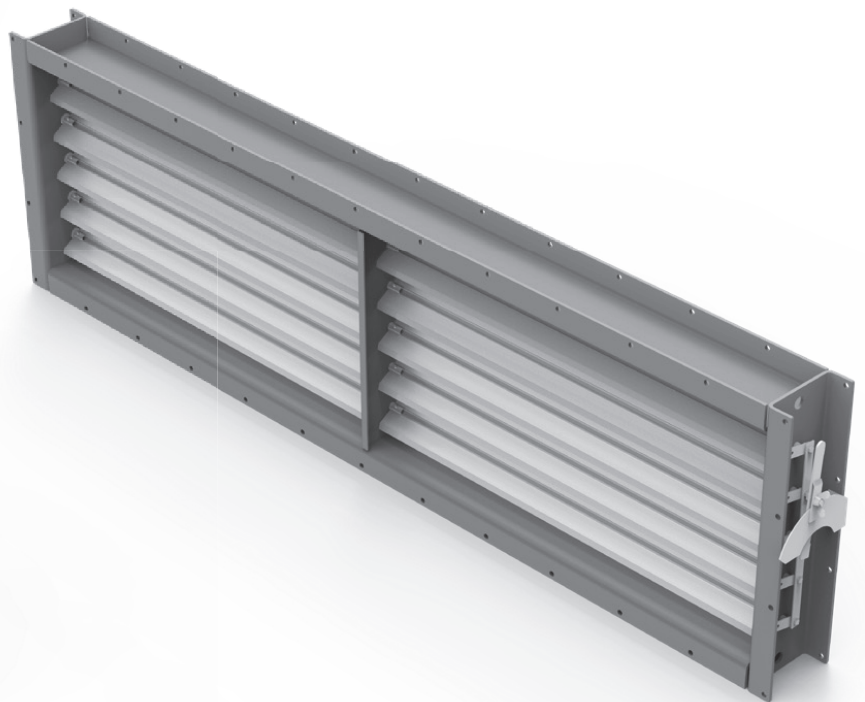
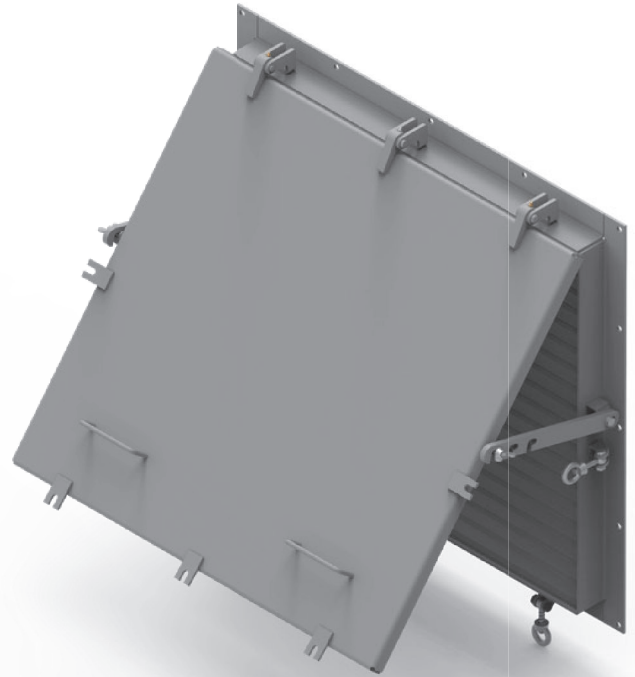
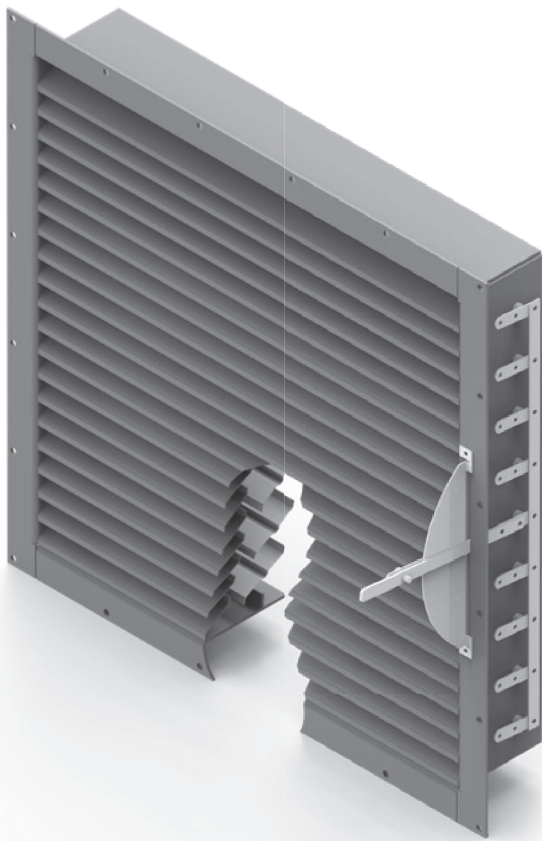
B ve H boyutları
Müşteri tarafından belirtilir.

YÜZEY İŞLEME

Sıcak daldırma galvanizli. Talep üzerine deniz boyaları seti ile koruma mevcuttur.







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