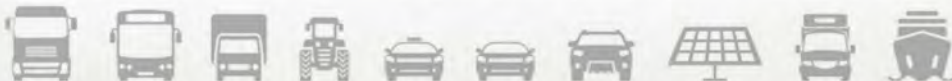


**RAYA ENERGY**



**zitex**   
BATTERY

Automotive - Commercial - Leisure



[WWW.RAYA-ENERGY.COM](http://WWW.RAYA-ENERGY.COM)

# SFB



## AUTOMOTIVE

Batteries for Cars and Light Commercial Vehicles

### Superior Flooded Battery Technology

Zitex SFB type batteries are flooded type batteries featuring SLI technology, which are suitable for use in cars of all classes and light commercial vehicles. They meet the starter need of the vehicle and supply necessary energy when the engine is not running.

SFB type batteries are classified as Series 2 and Series 3 with different performance values to meet the electrical needs of vehicles.

#### SERIES 2

These are the products, which are designed to meet increasing electrical needs of the vehicles, with advanced technology and have a long service life.

#### SERIES 3

These are the products, which meet high performance and starter current needs of the vehicles under challenging climate conditions. They feature enhanced performance and have a long service life.

### Superior Technical Features



Up to 25% higher performance than standard batteries



Higher performance under extreme climate conditions compared to standard batteries



Patented calcium (Ca) alloy grid technology



Sealed maintenance free safe lid technology



Advanced active material exclusively formulated for SFB technology



More vibration resistant compared to standard batteries



## Start-Stop

Start-Stop technology that is designed to reduce fuel consumption and carbon dioxide emissions of vehicles, leads to an increase in the electrical needs of the vehicles. In these systems, batteries with high cycle life and high charging capacity are required to be used. Zitex Battery's product range offers different types of EFB and AGM batteries suitable for Start-Stop system.

**EFB**  
Enhanced Flooded Battery  
technology

**AGM**  
Absorbent Glass Mat Battery  
technology



# EFB



# AGM



## Enhanced Flooded Battery Technology

These are flooded type batteries developed for use in vehicles with Start-Stop technology. Thanks to their reinforced internal structure, they have 2 times longer cycle life and high charging characteristics compared to standard flooded type batteries. Zitex Battery EFB product line, which is also preferred by vehicle manufacturers, includes batteries suitable for European and Japanese vehicle models.



## Absorbent Glass Mat Technology

These are VRLA type batteries developed with AGM technology, which are suitable for use in vehicles featuring advanced Start-Stop technology with regenerative braking system. Thanks to the special internal structure design of AGM batteries and the VRLA technology, they have 3 times longer cycle life and high charging characteristics compared to flooded type batteries. Zitex Battery AGM product line, which is also preferred by vehicle manufacturers, includes batteries suitable for all types of vehicles.

### Superior Technical Features



Quick charge acceptance for Start-Stop technology



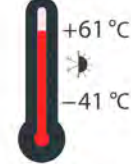
Up to 2 times longer cycle life



Innovative products for Start-Stop vehicles supporting reduced carbon dioxide emission



Up to 30% higher performance than standard batteries



Higher performance under extreme climate conditions compared to standard batteries



Patented calcium (Ca) alloy grid technology



Sealed maintenance free safe lid technology



Advanced active material exclusively designed for micro-hybrid Start-Stop technology



More vibration resistant compared to standard batteries



### Superior Technical Features



Quick charge acceptance for Start-Stop technology



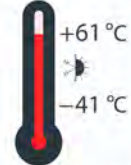
Up to 3 times longer cycle life



Innovative products for Start-Stop vehicles supporting reduced carbon dioxide emission



Up to 40% higher performance than standard batteries



Higher performance under extreme climate conditions compared to standard batteries



Patented calcium (Ca) alloy grid technology



Exclusively designed valve system with pressure control (VRLA) and maintenance-free product technology



Advanced active material exclusively designed for AGM Start-Stop technology



More vibration resistant compared to standard batteries



# EFB



## Enhanced Flooded Battery Technology

These are enhanced flooded type batteries, which are developed to meet the energy needs of commercial vehicles featuring Start-Stop technology. Thanks to their reinforced internal structure, they have 2 times longer cycle life and quick charging characteristics compared to standard flooded type batteries. They feature special lid technology offering high safety with central gas outlet system and flame arrestor features. Thanks to their high vibration resistance, they are maintenance-free, long-lasting batteries suitable for use in severe operating conditions. EFB batteries can also be preferred in commercial vehicles with standard features for longer use and high performance.

## COMMERCIAL

Heavy and Super Heavy Duty Batteries

### Superior Technical Features



Quick charge acceptance for Start-Stop technology



Up to 2 times longer cycle life



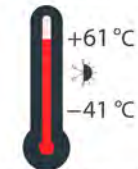
Innovative products for Start-Stop vehicles supporting reduced carbon dioxide emission



Patented, calcium (Ca) alloy grid technology developed for EFB commercial batteries



Active material developed for EFB commercial batteries



Higher performance under extreme climate conditions compared to standard batteries



Maintenance-free product technology



Shelf life up to 18 months under suitable conditions



Meets V3 vibration resistance requirements according to EN 50342



# SFB



zitex  
BATTERY

**SFB** SERIES 1  
Superior Flooded Battery  
technology

## Superior Flooded Battery Technology

**SERIES 1**

These are flooded type batteries manufactured with SLI technology, which are developed to meet the energy needs of commercial and heavy commercial vehicles.

They can be used in severe operating conditions thanks to its high vibration resistance. It is maintenance-free with its calcium (Ca) alloy grid structure and does not require extra maintenance service under suitable conditions. They are classified as Heavy Duty and Super Heavy Duty.

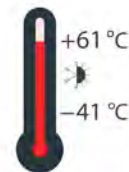
### Superior Technical Features



Advanced patented calcium (Ca) alloy grid technology exclusively designed for SFB Series 1 heavy and super heavy duty batteries



Advanced active material designed for SFB Series 1 heavy and super heavy duty commercial batteries



Higher performance under extreme climate conditions compared to standard batteries



Maintenance-free product technology



Shelf life up to 15 months under suitable conditions



Meets V2 vibration resistance requirements according to EN 50342



# SFB



zitex  
BATTERY

**SFB** SERIES 2  
Superior Flooded Battery  
technology

## Superior Flooded Battery Technology

**SERIES 2**

These are flooded type batteries manufactured with SLI technology, which are developed to meet the energy needs of commercial and heavy commercial vehicles.

They can be used in severe operating conditions thanks to its high vibration resistance. It is maintenance-free with its calcium (Ca) alloy grid structure and does not require extra maintenance service under suitable conditions. These are heavy duty batteries featuring special lid technology offering high safety with central gas outlet system and flame arrestor.

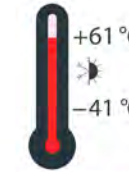
### Superior Technical Features



Advanced patented calcium (Ca) alloy grid technology exclusively designed for SFB Series 2 heavy duty commercial batteries



Advanced active material designed for SFB Series 2 heavy duty commercial batteries



Higher performance under extreme climate conditions compared to standard batteries



Maintenance-free product technology



Shelf life up to 18 months under suitable conditions



Meets V2 vibration resistance requirements according to EN 50342



# SFB



**zitetex**  
BATTERY

**SFB** SERIES 3  
Superior Flooded Battery  
technology

## Superior Flooded Battery Technology

**SERIES 3**

These are flooded type batteries manufactured with SLI technology, which are developed to meet the energy needs of commercial and heavy commercial vehicles.

They can be used in severe operating conditions thanks to its high vibration resistance. It is maintenance-free with its calcium (Ca) alloy grid structure and does not require extra maintenance service under suitable conditions. These are Super Heavy Duty type batteries with long cycle life featuring special lid technology offering high safety with central gas outlet system and flame arrestor.

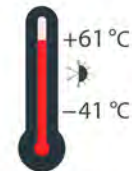
### Superior Technical Features



Advanced patented calcium (Ca) alloy grid technology exclusively designed for SFB Series 3 super heavy duty commercial batteries



Advanced active material designed for SFB Series 3 super heavy duty commercial batteries



Higher performance under extreme climate conditions compared to standard batteries



Maintenance-free product technology



Shelf life up to 18 months under suitable conditions



Meets V3 vibration resistance requirements according to EN 50342



## LEISURE

Leisure and Alternative Energy Batteries

# SFB



**zitetex**  
BATTERY

**SFB**  
Superior Flooded Battery  
technology

## Superior Flooded Battery Technology - Marine

Marine Batteries are produced with SLI technology to meet the energy needs of water transportation vehicles. They offer high safety with special lid technology featuring a central gas outlet system and flame arrestor. They offer a longer cycle life than standard batteries thanks to the improved grid alloy, active material and special fiber separators.

Zitex Marine Batteries are made of flame retardant plastic material.

### Superior Technical Features



Advanced patented calcium (Ca) alloy grid technology exclusively designed for SFB marine batteries



Advanced active material developed for SFB marine batteries



Spill proof electrolyte system up to 55° tilt angle



Higher performance under extreme climate conditions compared to standard batteries



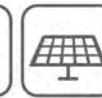
Maintenance-free product technology



More vibration resistant



# EFB



**zitetex**  
BATTERY

**EFB**  
Enhanced Flooded Battery  
technology

## Enhanced Flooded Battery Technology - Full Energy

Full Energy and Solar batteries are the products designed to be used in energy storage solutions, with an advanced internal structure with high cycle life. They are capable of deep cycling up to 50% in high energy consuming applications. They are maintenance-free thanks to calcium (Ca) alloy grid technology. They are suitable for use in cleaning machines, alarm and emergency systems, wheelchairs, lifts, pallet trucks, golf carts and caravans.

### Superior Technical Features



Advanced patented calcium (Ca) alloy grid technology exclusively designed for EFB batteries



Advanced active material developed for EFB batteries



Higher performance under extreme climate conditions compared to standard batteries



Resistant to deep discharge



Maintenance-free product technology



More vibration resistant





# GEL



**zitex**  
BATTERY

**GEL**  
technology

## Valve Regulated Lead Acid Technology - GEL

Zitex GEL Batteries are the products designed to be used in energy storage solutions, which have the longest cycle life among lead-acid batteries. The electrolyte in the battery is in the gel form instead of liquid. Thanks to the VRLA technology, there is no gas release while using the battery and therefore it is suitable for indoor usage. Minimum discharging feature provides maximum shelf life under suitable storage conditions.

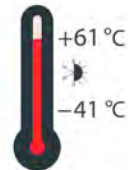
### Superior Technical Features



Advanced patented calcium (Ca) alloy grid technology exclusively designed for GEL batteries



Advanced active material developed for GEL batteries



Higher performance under extreme climate conditions compared to standard batteries



Maintenance-free product technology

**VRLA**



Exclusively designed valve system with pressure control (VRLA)



More vibration resistant



Spill proof gel electrolytes



Resistant to deep discharge



## Product List

## SFB - JAPANESE (JIS) TYPE STARTER BATTERIES

BCI Code	Zitex Code	Capacity at 20 Hr Rate (Ah)	CCA SAE (A)	Lenght (mm)	Width (mm)	Height Except Terminal (mm)	Height (mm)	Lenght (Inches)	Width (Inches)	Height Except Terminal (Inches)	Height (Inches)	Weight With Acid (kg)	Layout	Terminal	Hold Down
151R	B20.35.024.G	35	240	196	134	202	222	7.72	5.28	7.95	8.74	9.4	0	3	B01
	B20.35.028.G	35	280	196	134	202	222	7.72	5.28	7.95	8.74	9.6	0	3	B01
	B20.40.033.G	40	330	196	134	202	222	7.72	5.28	7.95	8.74	10.2	0	3	B01
	B20.42.035.E	42	350	196	134	202	222	7.72	5.28	7.95	8.74	10.3	0	3	B00
	B20.42.035.G	42	350	196	134	202	222	7.72	5.28	7.95	8.74	10.3	0	3	B01
51R	B24.42.030.A	42	300	237	127	201	222	9.33	5.00	7.91	8.74	11.5	0	1	B00
	B24.45.030.A	45	300	237	127	201	222	9.33	5.00	7.91	8.74	11.6	0	1	B00
	B24.45.030.E	45	300	237	127	201	222	9.33	5.00	7.91	8.74	11.6	0	3	B00
	B24.45.036.A	45	360	237	127	201	222	9.33	5.00	7.91	8.74	12.1	0	1	B00
	B24.45.036.E	45	360	237	127	201	222	9.33	5.00	7.91	8.74	12.1	0	3	B00
51	B24.55.045.A	55	450	237	127	201	222	9.33	5.00	7.91	8.74	13.2	0	1	B00
	B24.55.045.E	55	450	237	127	201	222	9.33	5.00	7.91	8.74	13.2	0	3	B00
	B24.42.030.B	42	300	237	127	201	222	9.33	5.00	7.91	8.74	11.5	1	1	B00
	B24.45.030.B	45	300	237	127	201	222	9.33	5.00	7.91	8.74	11.6	1	1	B00
	B24.45.030.F	45	300	237	127	201	222	9.33	5.00	7.91	8.74	11.6	1	3	B00
21R	D20.50.042.C	50	420	203	175	183	202	7.99	6.89	7.20	7.95	12.0	0	1	B01
	D20.55.045.C	55	450	203	175	183	202	7.99	6.89	7.20	7.95	12.6	0	1	B01
	D20.50.042.D	50	420	203	175	183	202	7.99	6.89	7.20	7.95	12.0	1	1	B01
	D20.55.045.D	55	450	203	175	183	202	7.99	6.89	7.20	7.95	12.6	1	1	B01
	35	D23.60.045.C	60	450	232	173	204	225	9.13	6.81	8.03	8.86	15.0	0	1
D23.60.045.A		60	450	232	173	204	225	9.13	6.81	8.03	8.86	15.0	0	1	B00
D23.60.052.A		60	510	232	173	204	225	9.13	6.81	8.03	8.86	15.5	0	1	B00
D23.60.052.C		60	510	232	173	204	225	9.13	6.81	8.03	8.86	15.5	0	1	B01
D23.68.060.A		68	600	232	173	204	225	9.13	6.81	8.03	8.86	16.25	0	1	B00
25	D23.68.060.C	68	600	232	173	204	225	9.13	6.81	8.03	8.86	16.25	0	1	B01
	D23.60.045.B	60	450	232	173	204	225	9.13	6.81	8.03	8.86	15.0	1	1	B00
	D23.60.045.D	60	450	232	173	204	225	9.13	6.81	8.03	8.86	15.0	1	1	B01
	D23.60.052.B	60	510	232	173	204	225	9.13	6.81	8.03	8.86	15.5	1	1	B00
	D23.60.052.D	60	510	232	173	204	225	9.13	6.81	8.03	8.86	15.5	1	1	B01
24R	D23.68.060.B	68	600	232	173	204	225	9.13	6.81	8.03	8.86	16.25	1	1	B00
	D23.68.060.D	68	600	232	173	204	225	9.13	6.81	8.03	8.86	16.25	1	1	B01
	D26.70.054.A	70	540	260	173	204	225	10.24	6.81	8.03	8.86	17.0	0	1	B00
	D26.70.054.C	70	540	260	173	204	225	10.24	6.81	8.03	8.86	17.0	0	1	B01
	D26.70.063.A	70	630	260	173	204	225	10.24	6.81	8.03	8.86	17.4	0	1	B00
	D26.70.063.C	70	630	260	173	204	225	10.24	6.81	8.03	8.86	17.4	0	1	B01
	D26.75.064.A	75	640	260	173	204	225	10.24	6.81	8.03	8.86	17.8	0	1	B00
	D26.75.064.C	75	640	260	173	204	225	10.24	6.81	8.03	8.86	17.8	0	1	B01
24R	D26.80.066.A	80	660	260	173	204	225	10.24	6.81	8.03	8.86	19.0	0	1	B00
	D26.80.066.C	80	660	260	173	204	225	10.24	6.81	8.03	8.86	19.0	0	1	B01

## SFB - JAPANESE (JIS) TYPE STARTER BATTERIES

BCI Code	Zitex Code	Capacity at 20 Hr Rate (Ah)	CCA SAE (A)	Lenght (mm)	Width (mm)	Height Except Terminal (mm)	Height (mm)	Lenght (Inches)	Width (Inches)	Height Except Terminal (Inches)	Height (Inches)	Weight With Acid (kg)	Layout	Terminal	Hold Down
24	D26.70.054.B	70	540	260	173	204	225	10.24	6.81	8.03	8.86	17.0	1	1	B00
	D26.70.054.D	70	540	260	173	204	225	10.24	6.81	8.03	8.86	17.0	1	1	B01
	D26.70.063.B	70	630	260	173	204	225	10.24	6.81	8.03	8.86	17.4	1	1	B00
	D26.70.063.D	70	630	260	173	204	225	10.24	6.81	8.03	8.86	17.4	1	1	B01
	D26.75.064.B	75	640	260	173	204	225	10.24	6.81	8.03	8.86	17.8	1	1	B00
	D26.75.064.D	75	640	260	173	204	225	10.24	6.81	8.03	8.86	17.8	1	1	B01
	D26.80.066.B	80	660	260	173	204	225	10.24	6.81	8.03	8.86	19.0	1	1	B00
	D26.80.066.D	80	660	260	173	204	225	10.24	6.81	8.03	8.86	19.0	1	1	B01
27R	D31.70.053.C	70	530	306	175	202	224	12.05	6.89	7.95	8.82	20.0	0	1	B01
	D31.80.067.C	80	670	306	175	202	224	12.05	6.89	7.95	8.82	20.5	0	1	B01
	D31.90.066.C	90	660	306	175	202	224	12.05	6.89	7.95	8.82	22.0	0	1	B01
	D31.90.072.C	90	720	306	175	202	224	12.05	6.89	7.95	8.82	22.4	0	1	B01
	D31.100.085.C	100	850	306	175	202	224	12.05	6.89	7.95	8.82	24.0	0	1	B01
27	D31.100.076.C	100	760	306	175	202	224	12.05	6.89	7.95	8.82	23.5	0	1	B01
	D31.70.053.D	70	530	306	175	202	224	12.05	6.89	7.95	8.82	20.0	0	1	B01
	D31.80.067.D	80	670	306	175	202	224	12.05	6.89	7.95	8.82	20.5	1	1	B01
	D31.90.066.D	90	660	306	175	202	224	12.05	6.89	7.95	8.82	22.0	1	1	B01
	D31.90.072.D	90	720	306	175	202	224	12.05	6.89	7.95	8.82	22.4	1	1	B01
	D31.100.076.D	100	760	306	175	202	224	12.05	6.89	7.95	8.82	23.5	1	1	B01
	D31.100.085.D	100	850	306	175	202	224	12.05	6.89	7.95	8.82	24.0	1	1	B01

BCI: 151R (B20)



BCI: 51R (B24)



BCI: 21R (D20)



BCI: 35 (D23)



BCI: 24R (D26)



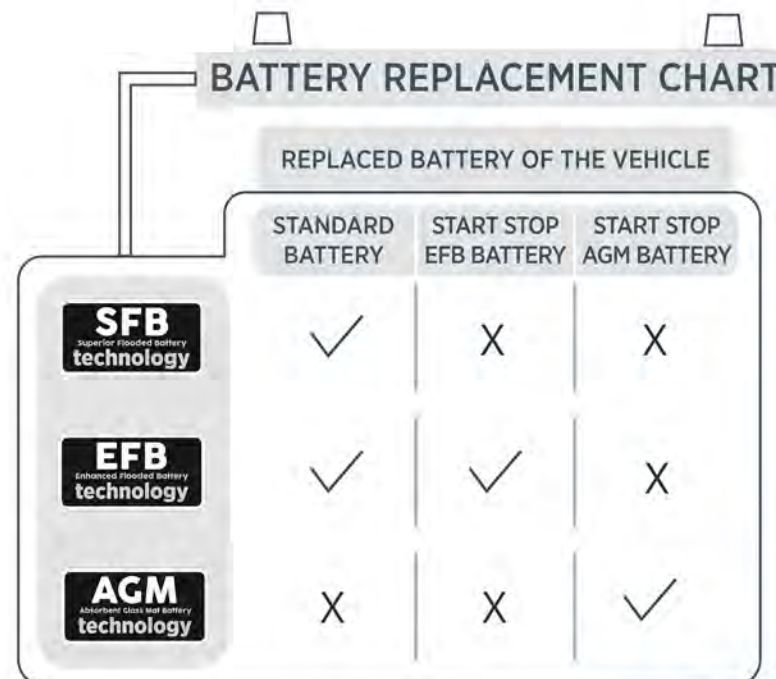
BCI: 27R (D31)



## SFB - EUROPEAN (DIN) TYPE STARTER BATTERIES

BCI Code	Zitex Code	Capacity at 20 Hr Rate (Ah)	CCA SAE (A)	Length (mm)	Width (mm)	Height Except Terminal (mm)	Height (mm)	Length (Inches)	Width (Inches)	Height Except Terminal (Inches)	Height (Inches)	Weight With Acid (kg)	Layout	Terminal	Hold Down
99R	LB1.40.033.A	40	330	207	175	175	175	8.15	6.89	6.89	6.89	11.0	0	1	B13
	LB1.44.036.A	44	360	207	175	175	175	8.15	6.89	6.89	6.89	11.4	0	1	B13
	LB1.50.042.A	50	420	207	175	175	175	8.15	6.89	6.89	6.89	12.3	0	1	B13
	LB1.55.054.A	55	510	207	175	175	175	8.15	6.89	6.89	6.89	13.0	0	1	B13
99	LB1.40.033.B	40	330	207	175	175	175	8.15	6.89	6.89	6.89	11.0	1	1	B13
	LB1.44.036.B	44	360	207	175	175	175	8.15	6.89	6.89	6.89	11.4	1	1	B13
	LB1.50.042.B	50	420	207	175	175	175	8.15	6.89	6.89	6.89	12.3	1	1	B13
	LB1.55.054.B	55	510	207	175	175	175	8.15	6.89	6.89	6.89	13.0	1	1	B13
47	L2.55.045.A	55	480	242	175	190	190	9.53	6.89	7.48	7.48	14.3	0	1	B13
	L2.60.048.A	60	480	242	175	190	190	9.53	6.89	7.48	7.48	14.5	0	1	B13
	L2.60.051.A	60	510	242	175	190	190	9.53	6.89	7.48	7.48	14.6	0	1	B13
	L2.60.054.A	60	540	242	175	190	190	9.53	6.89	7.48	7.48	14.9	0	1	B13
	L2.60.061.A	60	600	242	175	190	190	9.53	6.89	7.48	7.48	15.5	0	1	B13
90	L2.63.064.A	63	640	242	175	190	190	9.53	6.89	7.48	7.48	15.8	0	1	B13
	LB2.55.045.A	55	450	242	175	175	175	9.53	6.89	6.89	6.89	13.7	0	1	B13
	LB2.60.048.A	60	480	242	175	175	175	9.53	6.89	6.89	6.89	14.0	0	1	B13
	LB2.60.051.A	60	510	242	175	175	175	9.53	6.89	6.89	6.89	14.1	0	1	B13
48	LB2.60.054.A	60	540	242	175	175	175	9.53	6.89	6.89	6.89	14.5	0	1	B13
	LB2.63.064.A	63	640	242	175	175	175	9.53	6.89	6.89	6.89	15.5	0	1	B13
	L3.66.056.A	66	560	278	175	190	190	10.94	6.89	7.48	7.48	16.8	0	1	B13
	L3.70.058.A	70	580	278	175	190	190	10.94	6.89	7.48	7.48	17.3	0	1	B13
	L3.72.058.A	72	580	278	175	190	190	10.94	6.89	7.48	7.48	17.3	0	1	B13
91	L3.72.064.A	72	640	278	175	190	190	10.94	6.89	7.48	7.48	17.7	0	1	B13
	L3.75.072.A	75	720	278	175	190	190	10.94	6.89	7.48	7.48	18.2	0	1	B13
	L3.78.078.A	78	770	278	175	190	190	10.94	6.89	7.48	7.48	18.8	0	1	B13
	LB3.66.056.A	66	560	278	175	175	175	10.94	6.89	6.89	6.89	16.4	0	1	B13
94R	LB3.72.058.A	72	580	278	175	175	175	10.94	6.89	6.89	6.89	17.1	0	1	B13
	LB3.72.064.A	72	640	278	175	175	175	10.94	6.89	6.89	6.89	17.5	0	1	B13
	LB3.75.072.A	75	720	278	175	175	175	10.94	6.89	6.89	6.89	17.8	0	1	B13
	LB3.78.078.A	78	770	278	175	175	175	10.94	6.89	6.89	6.89	18.5	0	1	B13
92	L4.80.062.A	80	620	315	175	190	190	12.40	6.89	7.48	7.48	19.0	0	1	B13
	L4.80.074.A	80	740	315	175	190	190	12.40	6.89	7.48	7.48	20.0	0	1	B13
	L4.90.085.A	90	850	315	175	190	190	12.40	6.89	7.48	7.48	21.5	0	1	B13
49	LB4.80.062.A	80	620	315	175	175	175	12.40	6.89	6.89	6.89	18.5	0	1	B13
	LB4.80.074.A	80	740	315	175	175	175	12.40	6.89	6.89	6.89	19.4	0	1	B13
	LB4.85.080.A	85	800	315	175	175	175	12.40	6.89	6.89	6.89	20.0	0	1	B13
	L5.88.064.A	88	640	353	175	190	190	13.90	6.89	7.48	7.48	21.2	0	1	B13
93	L5.90.072.A	90	720	353	175	190	190	13.90	6.89	7.48	7.48	21.6	0	1	B13
	L5.95.085.A	95	850	353	175	190	190	13.90	6.89	7.48	7.48	22.8	0	1	B13
	L5.100.083.A	100	830	353	175	190	190	13.90	6.89	7.48	7.48	22.8	0	1	B13
	L5.100.090.A	100	900	353	175	190	190	13.90	6.89	7.48	7.48	23.2	0	1	B13
95R	LB5.85.064.A	85	640	353	175	175	175	13.90	6.89	6.89	6.89	20.5	0	1	B13
	LB5.90.072.A	90	720	353	175	175	175	13.90	6.89	6.89	6.89	21.2	0	1	B13
	LB5.95.085.A	95	850	353	175	175	175	13.90	6.89	6.89	6.89	22.3	0	1	B13
95R	L6.110.085.A	110	850	394	175	190	190	15.51	6.89	7.48	7.48	25.0	0	1	B13
	L6.110.092.A	110	920	394	175	190	190	15.51	6.89	7.48	7.48	26.2	0	1	B13

## SFB - EUROPEAN(DIN) TYPE



Replace with same technology battery



Replace with same technology battery

# AUTOMOTIVE



# AUTOMOTIVE



## EFB - JAPANESE (JIS) TYPE START STOP STARTER BATTERIES

BCI Code	Zitex Code	Capacity at 20 Hr Rate (Ah)	CCA SAE (A)	Lenght (mm)	Width (mm)	Height Except Terminal (mm)	Height (mm)	Lenght (Inches)	Width (Inches)	Height Except Terminal (Inches)	Height (Inches)	Weight With Acid (kg)	Layout	Terminal	Hold Down
51R EFB	EFB.B24.45.036.A	45	360	237	127	201	222	9.33	5.00	7.91	8.74	13.5	0	1	B00
	EFB.B24.45.036.E	45	360	237	127	201	222	9.33	5.00	7.91	8.74	13.5	0	3	B00
35 EFB	EFB.D23.64.062.C	64	650	232	173	204	225	9.13	6.81	8.03	8.86	16.5	0	1	B01
24R EFB	EFB.D26.72.076.C	72	750	260	173	204	225	10.24	6.81	8.03	8.86	18.4	0	1	B01
27R EFB	EFB.D31.86.080.C	86	800	306	175	202	224	12.05	6.89	7.95	8.82	21.7	0	1	B01

## EFB - JAPANESE (JIS) TYPE



## EFB - EUROPEAN (DIN) TYPE START STOP STARTER BATTERIES

BCI Code	Zitex Code	Capacity at 20 Hr Rate (Ah)	CCA SAE (A)	Lenght (mm)	Width (mm)	Height Except Terminal (mm)	Height (mm)	Lenght (Inches)	Width (Inches)	Height Except Terminal (Inches)	Height (Inches)	Weight With Acid (kg)	Layout	Terminal	Hold Down
47 EFB	EFB.L2.63.060.A	63	600	242	175	190	190	9.53	6.89	7.48	7.48	16.7	0	1	B13
91 EFB	EFB.LB3.65.065.A	65	650	278	175	175	175	10.94	6.89	6.89	17.9	13.5	0	1	B13
48 EFB	EFB.L3.72.072.A	72	720	278	175	190	190	10.94	6.89	7.48	7.48	19.1	0	1	B13
92 EFB	EFB.LB4.75.073.A	75	760	315	175	175	175	12.40	6.89	6.89	6.89	20.7	0	1	B13
94R EFB	EFB.L4.84.080.A	84	800	315	175	190	190	12.40	6.89	7.48	7.48	22.0	0	1	B13

## EFB - EUROPEAN (DIN) TYPE



## AGM - START STOP STARTER BATTERIES

BCI Code	Zitex Code	Capacity at 20 Hr Rate (Ah)	CCA SAE (A)	Lenght (mm)	Width (mm)	Height Except Terminal (mm)	Height (mm)	Lenght (Inches)	Width (Inches)	Height Except Terminal (Inches)	Height (Inches)	Weight With Acid (kg)	Layout	Terminal	Hold Down
47 AGM	AGM.L2.60.068.A	60	680	242	175	190	190	9.53	6.89	7.48	7.48	18.0	0	1	B13
48 AGM	AGM.L3.70.076.A	70	760	278	175	190	190	10.94	6.89	7.48	7.48	20.5	0	1	B13
94R AGM	AGM.L4.80.080.A	80	800	315	175	190	190	12.40	6.89	7.48	7.48	23.5	0	1	B13
49 AGM	AGM.L5.95.090.A	95	850	353	175	190	190	13.90	6.89	7.48	7.48	26.5	0	1	B13

## AGM



## EFB - START STOP STARTER BATTERIES

BCI Code	Zitex Code	Capacity at 20 Hr Rate (Ah)	CCA SAE (A)	Lenght (mm)	Width (mm)	Height Except Terminal (mm)	Height (mm)	Lenght (Inches)	Width (Inches)	Height Except Terminal (Inches)	Height (Inches)	Weight With Acid (kg)	Layout	Terminal	Hold Down
8D EFB	EFB.D6.240.125.B	240	1300	518	273	216	242	20.39	10.75	8.50	9.53	65.5	3	1	B00

BCI: 8D (D6)



## SFB SERIES 1 - HEAVY DUTY TYPE STARTER BATTERIES

BCI Code	Zitex Code	Capacity at 20 Hr Rate (Ah)	CCA SAE (A)	Lenght (mm)	Width (mm)	Height Except Terminal (mm)	Height (mm)	Lenght (Inches)	Width (Inches)	Height Except Terminal (Inches)	Height (Inches)	Weight With Acid (kg)	Layout	Terminal	Hold Down
30H	C13.105.076.F	105	760	347	175	207	232	13.66	6.89	8.15	9.13	26.0	0	1	B03
	C13.105.076.G	105	760	347	175	207	232	13.66	6.89	8.15	9.13	26.0	1	1	B03
	D2.115.080.H	115	800	344	175	212	237	13.54	6.89	8.35	9.33	28.2	0	1	B01
4D	1D4.120.080.A	120	850	513	189	195	223	20.20	7.32	7.68	8.78	33.5	3	1	B03
	1D4.120.080.B	120	850	513	189	195	223	20.20	7.32	7.68	8.78	33.5	3	1	B00
	1D4.135.080.A	135	850	513	189	195	223	20.20	7.32	7.68	8.78	35.0	3	1	B03
	1D4.135.080.B	135	850	513	189	195	223	20.20	7.32	7.68	8.78	35.0	3	1	B00
	1D4.135.095.A	135	1000	513	189	195	223	20.20	7.32	7.68	8.78	35.7	3	1	B03
	1D4.135.095.B	135	1000	513	189	195	223	20.20	7.32	7.68	8.78	35.7	3	1	B00
6D	1D5.150.100.A	150	1050	513	223	195	223	20.20	8.78	7.68	8.78	40.5	3	1	B03
	1D5.150.100.B	150	1050	513	223	195	223	20.20	8.78	7.68	8.78	40.5	3	1	B00
	1D5.165.110.A	165	1150	513	223	195	223	20.20	8.78	7.68	8.78	43.2	3	1	B03
	1D5.165.110.B	165	1150	513	223	195	223	20.20	8.78	7.68	8.78	43.2	3	1	B00
	1D5.180.120.A	180	1250	513	223	195	223	20.20	8.78	7.68	8.78	46.5	3	1	B03
	1D5.180.120.B	180	1250	513	223	195	223	20.20	8.78	7.68	8.78	46.5	3	1	B00
	1D5.190.125.A	190	1300	513	223	195	223	20.20	8.78	7.68	8.78	47.5	3	1	B03
1D5.190.125.B	190	1300	513	223	195	223	20.20	8.78	7.68	8.78	47.5	3	1	B00	
8D	1D6.200.125.B	200	1300	518	273	216	242	20.39	10.75	8.50	9.53	55.5	3	1	B00
	1D6.225.125.B	225	1300	518	273	216	242	20.39	10.75	8.50	9.53	60.0	3	1	B00
	1D6.225.140.B	225	1450	518	273	216	242	20.39	10.75	8.50	9.53	60.5	3	1	B00
	1D6.240.150.B	240	1500	518	273	216	242	20.39	10.75	8.50	9.53	61.5	3	1	B00

## SFB SERIES 1 - SUPER HEAVY DUTY TYPE STARTER BATTERIES

BCI Code	Zitex Code	Capacity at 20 Hr Rate (Ah)	CCA SAE (A)	Lenght (mm)	Width (mm)	Height Except Terminal (mm)	Height (mm)	Lenght (Inches)	Width (Inches)	Height Except Terminal (Inches)	Height (Inches)	Weight With Acid (kg)	Layout	Terminal	Hold Down
4D	1SD4.145.095.A	145	1000	513	189	195	223	20.20	7.32	7.68	8.78	38.0	3	1	B03
	1SD4.145.095.B	145	1000	513	189	195	223	20.20	7.32	7.68	8.78	38.0	3	1	B00
6D	1SD5.190.120.A	190	1250	513	223	195	223	20.20	8.78	7.68	8.78	48.5	3	1	B03
	1SD5.190.120.B	190	1250	513	223	195	223	20.20	8.78	7.68	8.78	48.5	3	1	B00
8D	1SD6.200.120.B	200	1250	518	273	216	242	20.39	10.75	8.50	9.53	55.0	3	1	B00
	1SD6.225.125.B	225	1300	518	273	216	242	20.39	10.75	8.50	9.53	59.0	3	1	B00
	1SD6.250.145.B	250	1500	518	273	216	242	20.39	10.75	8.50	9.53	63.0	3	1	B00

## SFB SERIES 1

BCI: 30H (C13)



BCI: 30H (D2)



BCI: 4D (D4)



Hold Down: B03



Hold Down: B00

BCI: 6D (D5)



Hold Down: B03



Hold Down: B00

BCI: 8D (D6)



## SFB SERIES 2 - HEAVY DUTY TYPE STARTER BATTERIES

BCI Code	Zitex Code	Capacity at 20 Hr Rate (Ah)	CCA SAE (A)	Lenght (mm)	Width (mm)	Height Except Terminal (mm)	Height (mm)	Lenght (Inches)	Width (Inches)	Height Except Terminal (Inches)	Height (Inches)	Weight With Acid (kg)	Layout	Terminal	Hold Down
30H	2C13.105.076.F	105	760	347	175	213	235	13.66	6.89	8.39	9.25	26.0	0	1	B03
	2C13.105.076.G	105	760	347	175	213	235	13.66	6.89	8.39	9.25	26.0	1	1	B03
4D	D4.120.080.A	120	850	513	189	195	223	20.20	7.32	7.68	8.78	33.5	3	1	B03
	D4.120.080.B	120	850	513	189	195	223	20.20	7.32	7.68	8.78	33.5	3	1	B00
	D4.135.095.A	135	1000	513	189	195	223	20.20	7.32	7.68	8.78	35.7	3	1	B03
	D4.135.095.B	135	1000	513	189	195	223	20.20	7.32	7.68	8.78	35.7	3	1	B00
6D	D5.150.100.A	150	1050	513	223	195	223	20.20	8.78	7.68	8.78	40.5	3	1	B03
	D5.150.100.B	150	1050	513	223	195	223	20.20	8.78	7.68	8.78	40.5	3	1	B00
	D5.165.110.A	165	1150	513	223	195	223	20.20	8.78	7.68	8.78	43.2	3	1	B03
	D5.165.110.B	165	1150	513	223	195	223	20.20	8.78	7.68	8.78	43.2	3	1	B00
	D5.170.110.A	170	1150	513	223	195	223	20.20	8.78	7.68	8.78	43.5	3	1	B03
	D5.170.110.B	170	1150	513	223	195	223	20.20	8.78	7.68	8.78	43.5	3	1	B00
	D5.180.120.A	180	1250	513	223	195	223	20.20	8.78	7.68	8.78	46.5	3	1	B03
	D5.180.120.B	180	1250	513	223	195	223	20.20	8.78	7.68	8.78	46.5	3	1	B00
	D5.190.125.A	190	1300	513	223	195	223	20.20	8.78	7.68	8.78	47.5	3	1	B03
	D5.190.125.B	190	1300	513	223	195	223	20.20	8.78	7.68	8.78	47.5	3	1	B00
8D	D6.200.125.B	200	1300	518	273	216	242	20.39	10.75	8.50	9.53	55.5	3	1	B00
	D6.225.125.B	225	1300	518	273	216	242	20.39	10.75	8.50	9.53	60.0	3	1	B00
	D6.225.140.B	225	1450	518	273	216	242	20.39	10.75	8.50	9.53	60.5	3	1	B00
	D6.240.150.B	240	1500	518	273	216	242	20.39	10.75	8.50	9.53	61.5	3	1	B00

## SFB SERIES 3 - SUPER HEAVY DUTY TYPE STARTER BATTERIES

BCI Code	Zitex Code	Capacity at 20 Hr Rate (Ah)	CCA SAE (A)	Lenght (mm)	Width (mm)	Height Except Terminal (mm)	Height (mm)	Lenght (Inches)	Width (Inches)	Height Except Terminal (Inches)	Height (Inches)	Weight With Acid (kg)	Layout	Terminal	Hold Down
4D	SD4.145.095.A	145	1000	513	189	195	223	20.20	7.32	7.68	8.78	38.0	3	1	B03
	SD4.145.095.B	145	1000	513	189	195	223	20.20	7.32	7.68	8.78	38.0	3	1	B00
6D	SD5.190.120.A	190	1250	513	223	195	223	20.20	8.78	7.68	8.78	48.5	3	1	B03
	SD5.190.120.B	190	1250	513	223	195	223	20.20	8.78	7.68	8.78	48.5	3	1	B00
8D	SD6.200.120.B	200	1250	518	273	216	242	20.39	10.75	8.50	9.53	55.0	3	1	B00
	SD6.225.125.B	225	1300	518	273	216	242	20.39	10.75	8.50	9.53	59.0	3	1	B00
	SD6.250.145.B	250	1500	518	273	216	242	20.39	10.75	8.50	9.53	63.0	3	1	B00

## SPECIAL TYPE HEAVY DUTY STARTER BATTERIES

BCI Code	Zitex Code	Capacity at 20 Hr Rate (Ah)	CCA SAE (A)	Lenght (mm)	Width (mm)	Height Except Terminal (mm)	Height (mm)	Lenght (Inches)	Width (Inches)	Height Except Terminal (Inches)	Height (Inches)	Weight With Acid (kg)	Layout	Terminal	Hold Down
31P	GR31.105.076.D	105	760	328	171	220	241	12.91	6.73	8.66	9.49	25.0	9	1	B00
	GR31.105.090.D	105	900	328	171	220	241	12.91	6.73	8.66	9.49	25.5	9	1	B00
31S	GR31.105.076.E	105	760	328	171	220	241	12.91	6.73	8.66	9.49	25.0	9	8	B00
	GR31.105.090.E	105	900	328	171	220	241	12.91	6.73	8.66	9.49	25.5	9	8	B00

## SPECIAL TYPE SUPER HEAVY DUTY STARTER BATTERIES

BCI Code	Zitex Code	Capacity at 20 Hr Rate (Ah)	CCA SAE (A)	Lenght (mm)	Width (mm)	Height Except Terminal (mm)	Height (mm)	Lenght (Inches)	Width (Inches)	Height Except Terminal (Inches)	Height (Inches)	Weight With Acid (kg)	Layout	Terminal	Hold Down
31P	GR31.115.100.D	115	950	328	171	220	241	12.91	6.73	8.66	9.49	26.5	9	1	B00
31S	GR31.115.100.E	115	950	328	171	220	241	12.91	6.73	8.66	9.49	26.5	9	8	B00

## SFB SERIES 2 & 3

BCI: 30H (C13)



BCI: 31P & 31S (GR31)



Terminal: 1

Terminal: 8

BCI: 4D (D4)



Hold Down: B03



Hold Down: B00

BCI: 6D (D5)



Hold Down: B03



Hold Down: B00

BCI: 8D (D6)



## MARINE BATTERIES

BCI Code	Zitex Code	Capacity at 20 Hr Rate (Ah)	CCA SAE (A)	Lenght (mm)	Width (mm)	Height Except Terminal (mm)	Height (mm)	Lenght (Inches)	Width (Inches)	Height Except Terminal (Inches)	Height (Inches)	Weight With Acid (kg)	Layout	Terminal	Hold Down
49	ML5.90.060.A	90	600	353	175	190	190	13.90	6.89	7.48	7.48	22.2	0	1	B13
6D	MD5.180.100.A	180	1000	513	223	195	223	20.20	8.78	7.68	8.78	47.0	3	1	B03
8D	MD6.200.100.B	200	1000	518	273	216	242	20.39	10.75	8.50	9.53	62.2	3	1	B00

## FULL ENERGY BATTERIES

BCI Code	Zitex Code	Capacity at 20 Hr Rate (Ah)	CCA SAE (A)	Lenght (mm)	Width (mm)	Height Except Terminal (mm)	Height (mm)	Lenght (Inches)	Width (Inches)	Height Except Terminal (Inches)	Height (Inches)	Weight With Acid (kg)	Layout	Terminal	Hold Down
47	FL2.60.036.A	60	380	242	175	190	190	9.53	6.89	7.48	7.48	14.5	0	1	B13
48	FL3.75.048.A	75	500	278	175	190	190	10.94	6.89	7.48	7.48	17.5	0	1	B13
49	FL5.95.064.A	95	660	353	175	190	190	13.90	6.89	7.48	7.48	22.5	0	1	B13
27R	FD31.100.064.C	100	660	306	175	202	224	12.05	6.89	7.95	8.82	25.0	0	1	B01
4D	FD4.135.068.A	135	750	513	186	195	223	20.20	7.32	7.68	8.78	35.5	3	1	B03
6D	FD5.165.095.A	165	1000	513	223	195	223	20.20	8.78	7.68	8.78	42.5	3	1	B03
8D	FD6.225.110.B	225	1150	518	273	215	242	20.39	10.75	8.46	9.53	56.5	3	1	B00

## GEL BATTERIES

BCI Code	Zitex Code	Capacity at 20 Hr Rate (Ah)	CCA SAE (A)	Lenght (mm)	Width (mm)	Height Except Terminal (mm)	Height (mm)	Lenght (Inches)	Width (Inches)	Height Except Terminal (Inches)	Height (Inches)	Weight With Acid (kg)	Layout	Terminal	Hold Down
8D	GD6.200.085.B	200	900	518	273	216	242	2.39	10.75	8.50	9.53	72.5	3	1	B00
	GD6.230.090.B	230	950	518	273	216	242	20.39	10.75	8.50	9.53	76.0	3	1	B00

## LIFESTYLE - CARAVAN BATTERIES

BCI Code	Zitex Code	Capacity at 20 Hr Rate (Ah)	CCA SAE (A)	Lenght (mm)	Width (mm)	Height Except Terminal (mm)	Height (mm)	Lenght (Inches)	Width (Inches)	Height Except Terminal (Inches)	Height (Inches)	Weight With Acid (kg)	Layout	Terminal	Hold Down
24	LD26.70.045.B	70	500	260	173	204	225	10.24	6.81	8.03	8.86	18	1	1	B00
	LD26.80.054.B	80	600	260	173	204	225	10.24	6.81	8.03	8.86	19	1	1	B00
27	LD31.90.064.D	90	700	306	175	202	224	12.05	6.89	7.95	8.82	22.4	1	1	B01
	LD31.100.070.D	100	750	306	175	202	224	12.05	6.89	7.95	8.82	23.5	1	1	B01
31P	LGR31.115.075.D	115	800	328	171	220	241	12.91	6.73	8.66	9.49	25.5	9	1	B00
49	LL5.100.070.A	100	750	353	175	190	190	13.90	6.89	7.48	7.48	23.3	0	1	B13
	LAGM.L5.95.090.A	95	950	353	175	190	190	13.90	6.89	7.48	7.48	26.5	0	1	B13

## SFB - MARINE

BCI: 49 (L5)



BCI: 6D (D5)



BCI: 8D (D6)



## EFB - FULL ENERGY

BCI: 47 (L2)



BCI: 48 (L3)



BCI: 49 (L5)



BCI: 27R (D31)



BCI: 4D (D4)



BCI: 6D (D5)



BCI: 8D (D6)



## GEL

BCI: 8D (D6)

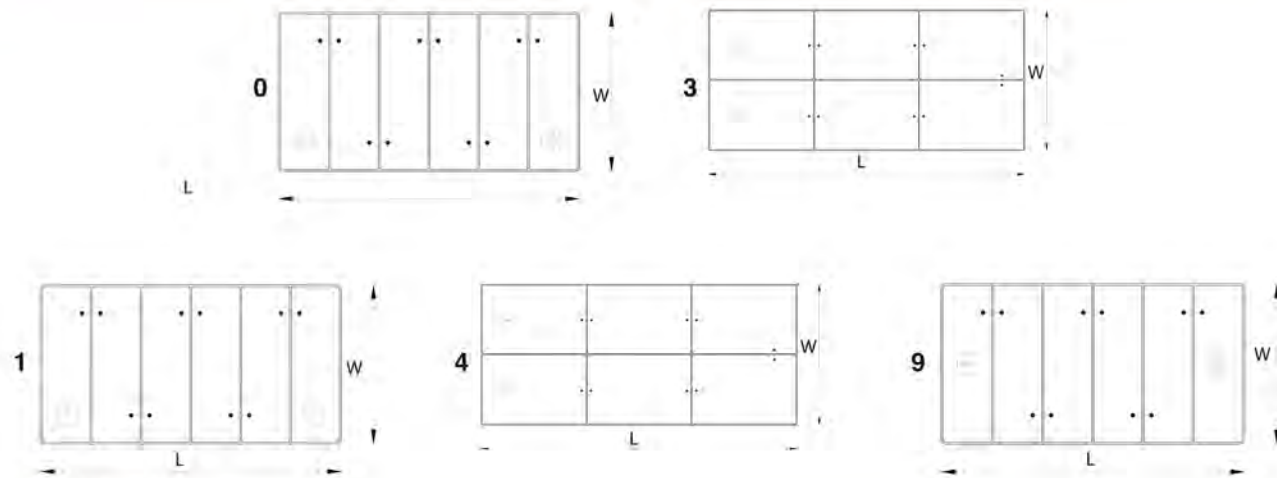


# TECHNICAL DRAWINGS



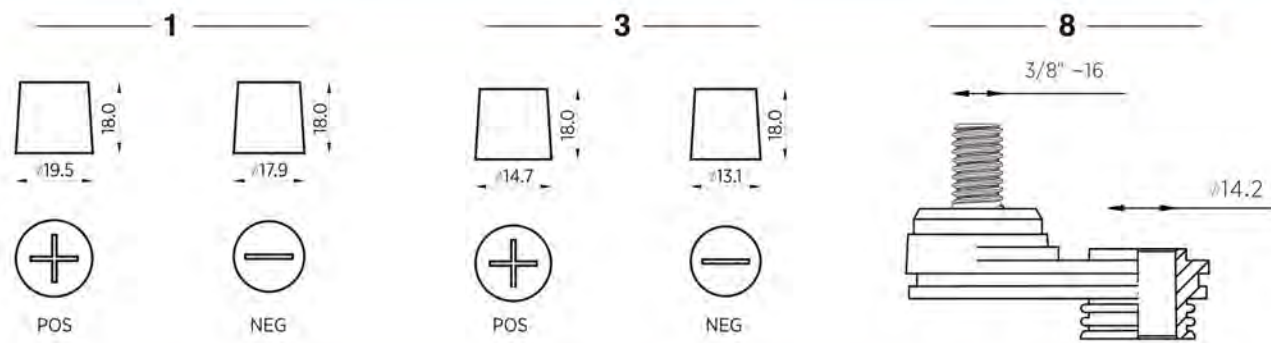
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12 Volt

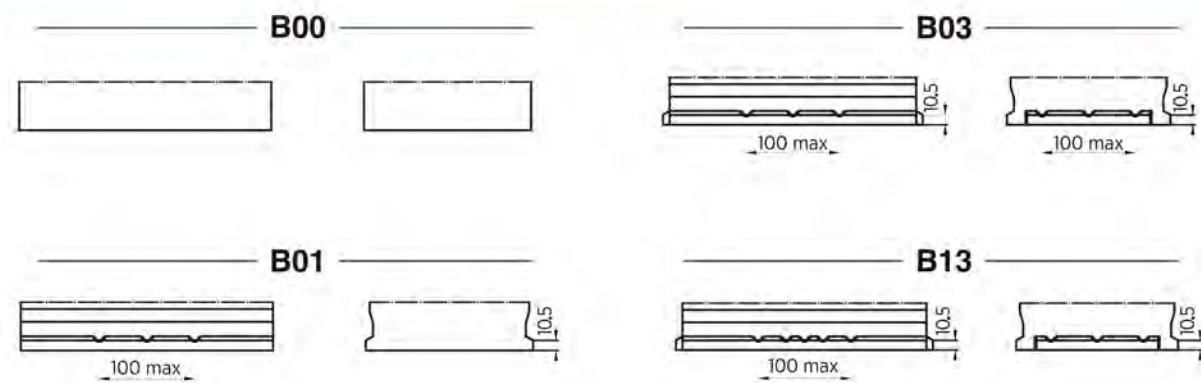


\*W: Width, L: Length

## TERMINAL



## HOLD DOWN





**zitetex**  
BATTERY



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