



SANDVIK SJ INCLINED SCREEN RANGE

TECHNICAL SPECIFICATION

The SJ Circular Motion Screens are premium inclined circular motion screens which are suitable for coarse, medium and fine screening applications. SJ screens are primarily designed for heavy-duty construction business but are also suitable for mining applications. The SJ screens can be used as splitter screens to divide flows within a plant and are frequently used for final screening of finished fractions. The screens are selectable with two or three deck design.

The decks can be equipped with any kind of long lasting synthetic modular, side tensioned or self-supporting screening media, as well as wire mesh or steel plate. Screening decks are modular, so you

can change from side tensioned screening media to modular screening media and back by simply using adapters whenever you want.

With a wide variety of options and adjustability these screens can be optimized to each application.

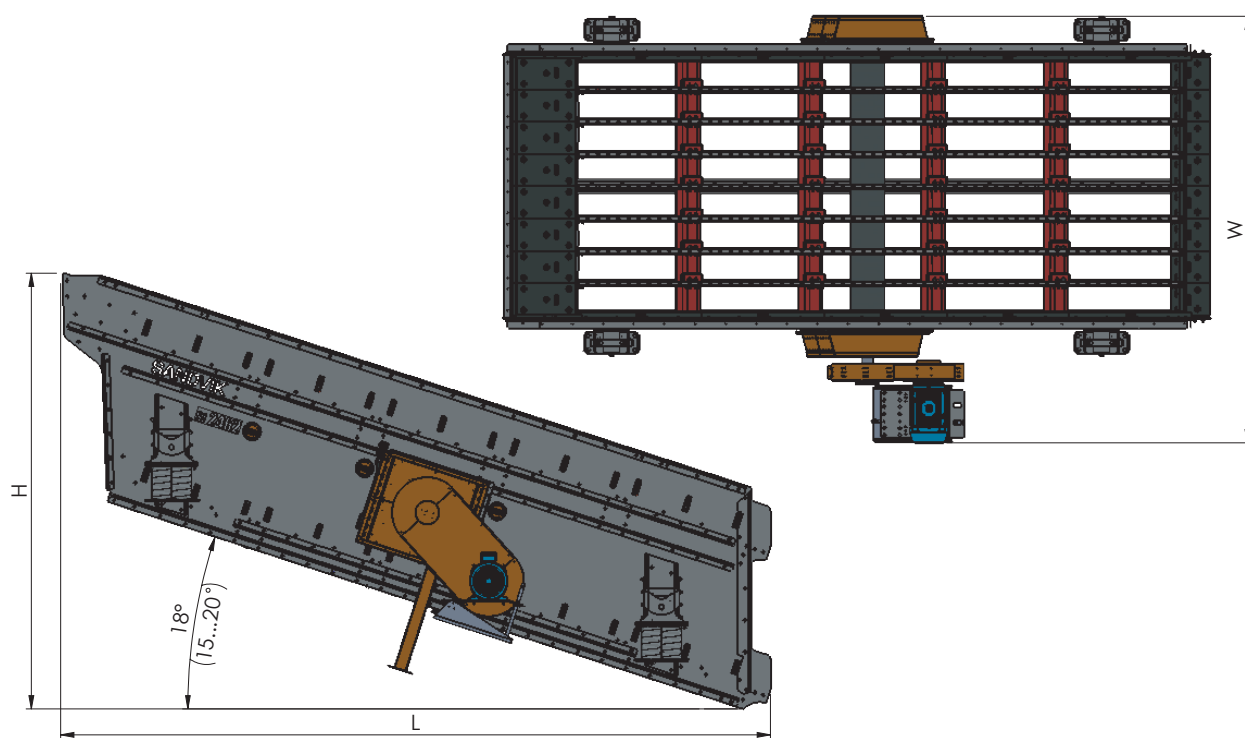
ADVANTAGES

Easily adaptable to varying conditions and materials, suitable for multi-application installations

Versatile screening media options for quick transitions to changing conditions or materials

Low capex to performance ratio, enabling investment in other critical areas





2 DECK

1542 1852 1862 2462 3062 3072

GENERAL TECHNICAL DATA

Stroke motion

Circular

Application

Construction & mining

DIMENSIONS

Unit

Deck width (nominal)	ft. / mm	5 / 1,524	6 / 1,829	6 / 1,829	8 / 2,438	10 / 3,048	10 / 3,048
Deck length (nominal)	ft. / mm	12 / 3,658	16 / 4,877	20 / 6,096	20 / 6,096	20 / 6,096	24 / 7,315
Screening area per deck	sqr ft. / m ²	60 / 5.6	96 / 8.9	120 / 11.1	160 / 14.9	200 / 18.6	240 / 22.3
Overall width (in installation angle; 18 deg.)	mm	3,200	3,500	3,500	4,200	4,800	4,800
Overall length (in installation angle; 18 deg.)	mm	4,400	5,600	6,800	6,800	6,800	7,900
Overall height (in installation angle; 18 deg.)	mm	3,200	3,600	4,000	4,200	4,400	4,700
Qty of mechanisms	pcs	1	1	1	1	1	2

LOADS

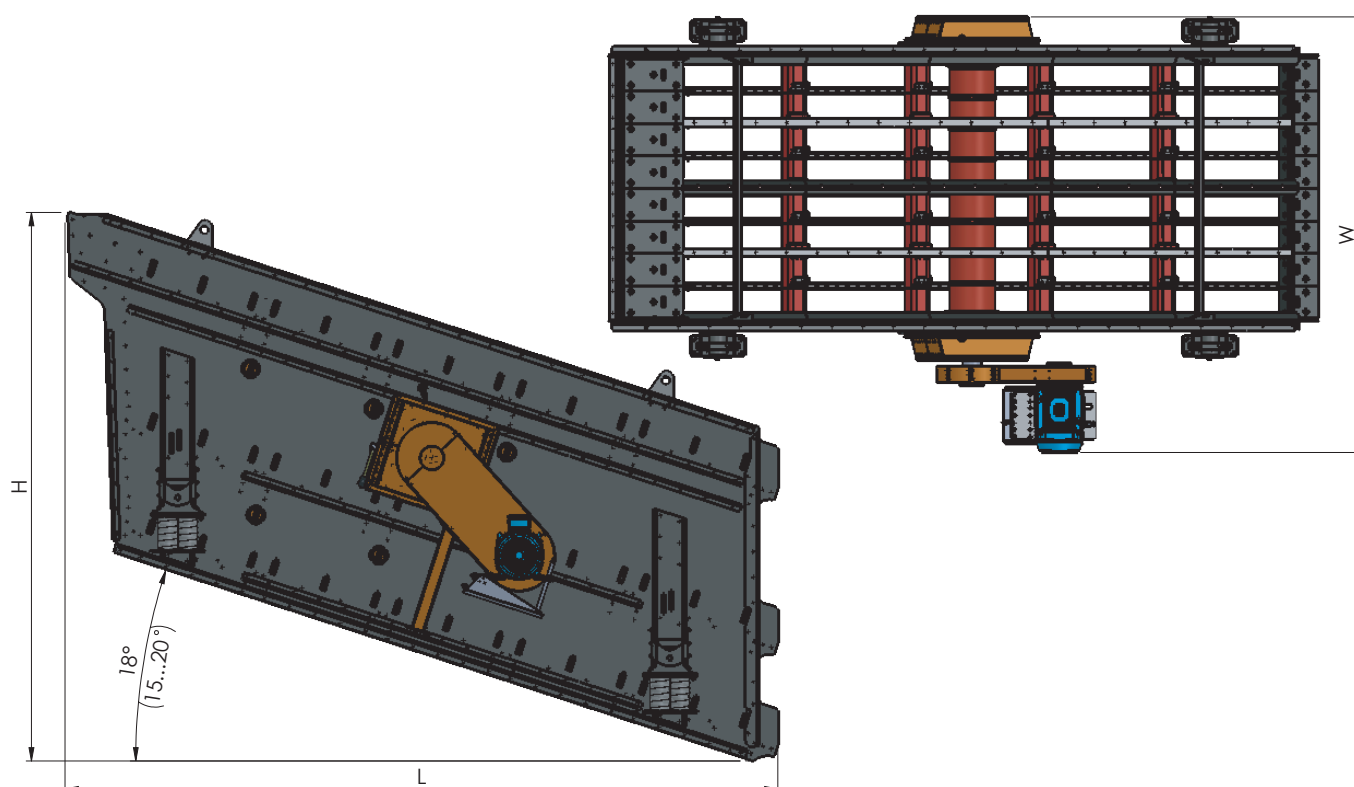
Average weight	kg	5,800	7,100	8,400	10,400	13,800	16,500
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NOMINAL OPERATING LIMITS

Max. feed size (at BD 1.8)	mm	300	300	300	300	300	300
Max. drop height (at BD 1.8)	mm	750	750	750	750	750	750
Inclination angle range	deg.	15-20	15-20	15-20	15-20	15-20	15-20
Standard inclination angle	deg.	18	18	18	18	18	18
Separation range	mm	1-140	1-140	1-140	1-140	1-140	1-140
Speed range	rpm	780-1,100	780-1,100	780-1,100	780-1,100	780-1,100	780-1,100
Stroke range	mm	5-13	5-13	5-13	5-13	5-13	5-13

ELECTRIC MOTOR (STANDARD ARRANGEMENT)

Installed power	kW	15	18,5	18,5	22	30	2x18,5
Motor speed	rpm	1,500	1,500	1,500	1,500	1,500	1,500
Motor standard		EN/IEC	EN/IEC	EN/IEC	EN/IEC	EN/IEC	EN/IEC
Efficiency class	IE class	IE3	IE3	IE3	IE3	IE3	IE3
IP rating		55	55	55	55	55	55



3 DECK

1543 1853 1863 2163 2463 3063 3073

GENERAL TECHNICAL DATA

Stroke motion

Circular

Application

Construction & mining

DIMENSIONS

Unit

Deck width (nominal)	ft. / mm	5 / 1,524	6 / 1,829	6 / 1,829	7 / 2,134	8 / 2,438	10 / 3,048	10 / 3,048
Deck length (nominal)	ft. / mm	12 / 3,658	16 / 4,877	20 / 6,096	20 / 6,096	20 / 6,096	20 / 6,096	24 / 7,315
Screening area per deck	sqr ft. / m ²	60 / 5.6	96 / 8.9	120 / 11.1	140 / 13.0	160 / 14.9	200 / 18.6	240 / 22.3
Overall width (in installation angle; 18 deg.)	mm	3,200	3,500	3,500	3,900	4,200	4,800	4,800
Overall length (in installation angle; 18 deg.)	mm	4,400	5,600	6,700	6,700	6,800	6,800	7,900
Overall height (in installation angle; 18 deg.)	mm	4,100	4,500	4,900	5,000	5,200	5,300	5,700
Qty of mechanisms	pcs	1	1	1	1	1	2	2

LOADS

Average weight	kg	6,800	8,900	10,600	11,800	13,500	17,800	20,800
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NOMINAL OPERATING LIMITS

Max. feed size (at BD 1.8)	mm	300	300	300	300	300	300	300
Max. drop height (at BD 1.8)	mm	750	750	750	750	750	750	750
Inclination angle range	deg.	15-20	15-20	15-20	15-20	15-20	15-20	15-20
Standard inclination angle	deg.	18	18	18	18	18	18	18
Separation range	mm	1-140	1-140	1-140	1-140	1-140	1-140	1-140
Speed range	rpm	780-1,100	780-1,100	780-1,100	780-1,100	780-1,100	780-1,100	780-1,100
Stroke range	mm	5-13	5-13	5-13	5-13	5-13	5-13	5-13

ELECTRIC MOTOR (STANDARD ARRANGEMENT)

Installed power	kW	18,5	18,5	22	30	30	2x18,5	2x22
Motor speed	rpm	1,500	1,500	1,500	1,500	1,500	1,500	1,500
Motor standard		EN/IEC	EN/IEC	EN/IEC	EN/IEC	EN/IEC	EN/IEC	EN/IEC
Efficiency class	IE class	IE3	IE3	IE3	IE3	IE3	IE3	IE3
IP rating		55	55	55	55	55	55	55



THE RIGHT MEDIA FOR THE RIGHT OUTCOME

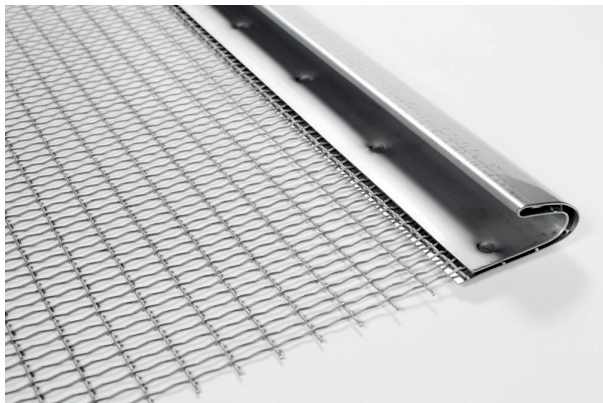
Your screening media is just as important to your operation as choosing the right chamber for your crusher. But it doesn't stop at screens alone. When your setup is optimized for your unique needs, then you really start maximizing your productivity.

Screening media is not one size fits all. Unlike many other suppliers of screen panels, we intimately understand the challenges you face and can work with you to analyze your classification objectives and challenges to create a screening media solution that will maximize your operation – and your output.

With Sandvik, you get an OEM partner with more than a century of experience in crushing and screening. Bringing all of our deep expertise and process knowledge to your operation, we not only provide you with the right screening media. We also have an array of service offerings to optimize your entire crushing and screening circuit, helping you solve problems, and raise your profits.

Some solutions, such as the WX6500 and WX7000, are exclusive to Sandvik and provide additional added value unavailable from other suppliers.

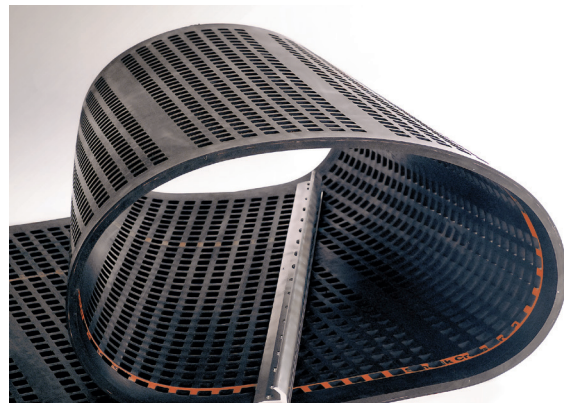
WX1000 WIRE MESH



This is a tensioned screening media used primarily for fine to medium screening in dry applications. Generally with separations between 1-90 mm and max. feed lump size at 200 mm.

The WX1000 media is available in a variety of widths, lengths and with different steel wire thicknesses. A large selection of aperture sizes is available, both square and slotted. Steel wire thickness is selected based on the application: thinner wire when a more flexible cloth or high accuracy is needed, thicker wire when maximum lifetime is requested or when coarse material is fed to the screen. Wire mesh cloths are available in several weave patterns and steel grades.

WX6000 TENSIONED RUBBER SCREENING MEDIA

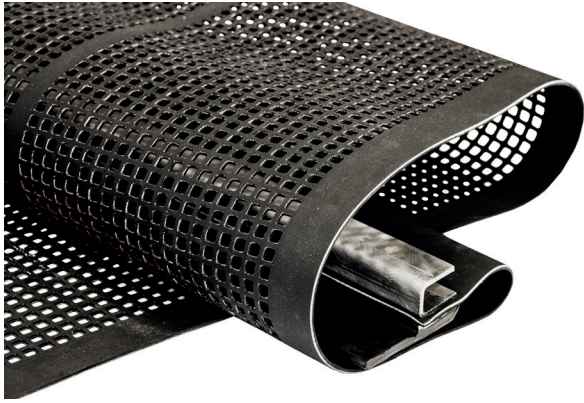


For both cross- and length-tensioned screens, our Sandvik WX6000 tensioned rubber panels are designed with precision-punched holes for fine- to medium-coarse screening in your dry applications. Its flexible rubber reduces the risk of pegging and blinding, and it is hardwearing with strong, heat-treated cord reinforcement near the bottom of the panel to extend its wear life.

These tailor-made panels are designed for screens with crowned decks and support bars, separations between 5.6 and 63 mm, and a max feed lump size of 150 mm.

They can be optimized for either capacity or longest possible wear life, ensuring you get the most out of your screening media.

WX6500 TENSIONED RUBBER SCREENING MEDIA

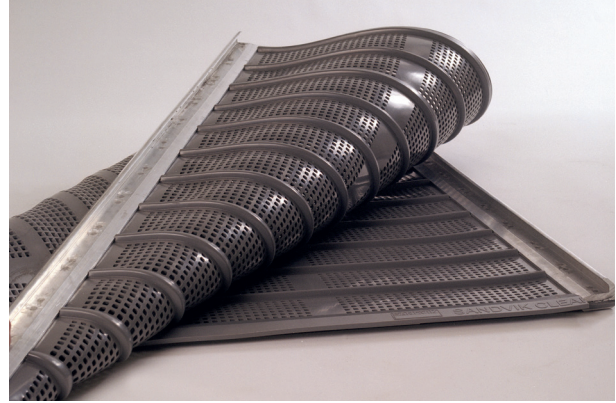


At last there's a screening media that surpasses expectation. With Sandvik WX6500, you no longer have to choose between accuracy and durability. You simply get both.

The difference with Sandvik WX6500 rubber screening media is clear from the moment you encounter it. And it continues throughout the life cycle. Every step of the way, Sandvik WX6500 reduces the time, effort, and costs associated with fine screening.

The WX6500 can be regarded as an all-around screening media designed primarily for final and intermediate stage screening in dry applications, generally with separations between 2 – 32 mm and max. feed lump size of 70 mm.

WX7000 TENSIONED ANTI-BLINDING POLYURETHANE SCREENING MEDIA



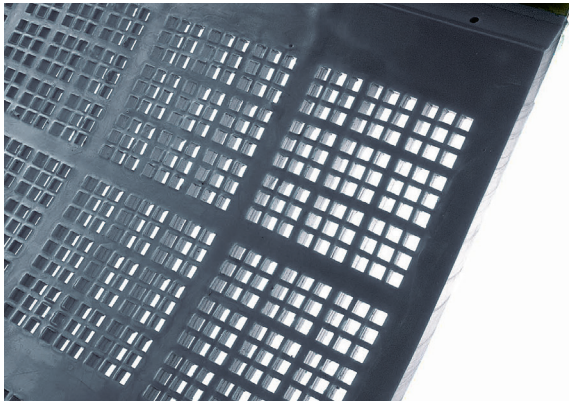
It's the anti-blinding screening media that stays clean even in difficult applications, such as fines combined with moisture.

The unique combination for WX7000's anti-blinding and long life increases both your capacity and profitability. This has enabled our customers to reduce their screening media cost by 30%, and experience up to 35 times longer life than from a conventional wire mesh.

Our tailor-made Sandvik WX7000 tensioned polyurethane panels are your best choice when fine screening and separating 2-16 mm material and a max. feed lump size of 30 mm.

The WX7000 panels ensure superior screening accuracy by the use of our special dam bars that slow down undersized material on the screen deck, while allowing oversized material to pass quickly over the deck. Flexible screen membranes between reinforcing steel wires also keep the panels clean, even in difficult conditions when moisture is combined with fines.

WX8500 TENSIONED PU SCREENING MEDIA

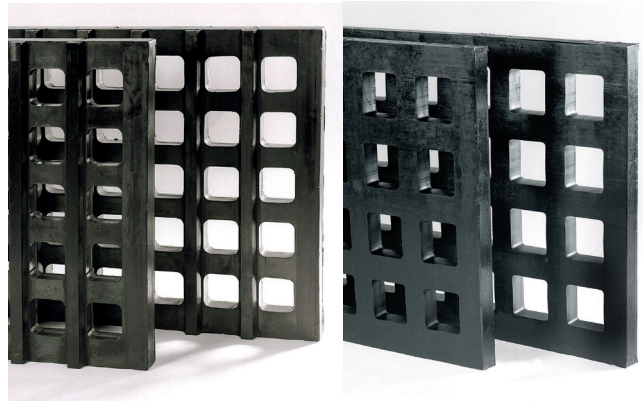


The WX8500 is a polyurethane screening media used primarily for wet screening in intermediate and final stages, generally with separations between 1 - 45 mm and max feed lump size of 100 mm. It is available in a variety of widths, lengths and thicknesses and intended for installation in screens with crowned screen decks complete with support bars. Being made of hardwearing polyurethane, it is specially designed to cope with the tough requirements imposed on screening cloth and gives a long wear life, resulting in long intervals between servicing and minimal maintenance requirements.

The moulded holes and the flexibility of the polyurethane reduce the risk of pegging and blinding of the cloth, which gives further reduction of maintenance requirements.

The cloth is reinforced with steel wires, resulting in a more secure fixing, minimal stretching and a reduced requirement of adjustment.

WS6000/6000H FLAT SELF-SUPPORTING RUBBER SCREEN PANEL



Our Sandvik WS6000 and WS6000H steel-reinforced, self-supporting panels are built to take a heavy beating in your primary scalping applications. These panels are made of hardwearing rubber that has been designed to withstand your heavy-duty needs, giving you a long life, long servicing intervals and reduced maintenance requirements.

The WS6000 and WS6000H screen panels are both designed for medium-coarse to coarse screening in the quarrying and mining industries and can be made to measure in a number of different lengths, widths, thicknesses and hole sizes. This is a strong and reliable self-supporting screening element designed for coarse screening with separations from 45 mm and up with a max feed lump size up to 300 mm. The WS6000H, however, comes with skid bars that keep larger 300-400 mm boulders off the panel surface, guiding fine material toward the holes and preventing excessive wear.

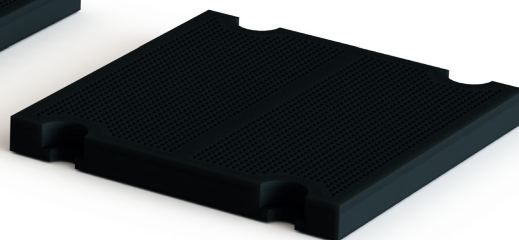
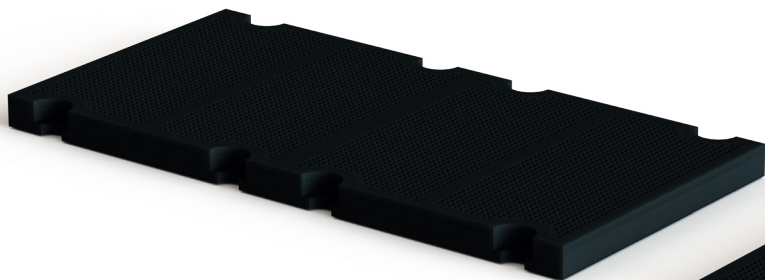
WN MODULAR SCREENING MEDIA

When using modular screening media from Sandvik the deck configuration is flat to allow the material bed to be rapidly and evenly distributed over the full width of the screen, increasing screening efficiency. For final screening, dam bars can be used to reduce the material speed and further increase screening accuracy. The amount of fines carry-over is reduced by using modules with deflectors. No blind areas along the material flow means less carry-over and more accurate screening. The individual modules can easily be replaced for wear reasons or in order to change aperture size. A pin and sleeve attachment system lock the modules safely onto sturdy steel profiles.

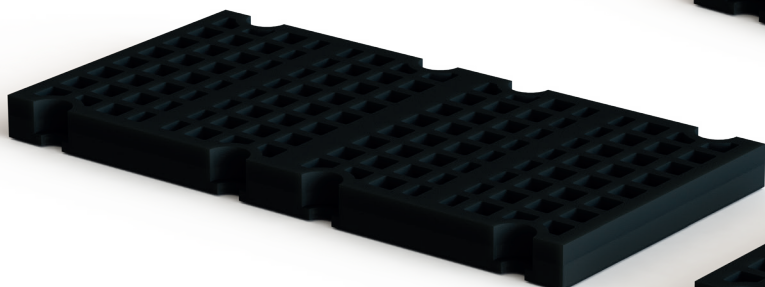
An adapter system that makes it possible to install cross-tensioned media on Sandvik modular decks is also available.

We offer modular screening media for a variety of applications and deck configurations. Choose WN4000/5000 for fine screening in difficult conditions with feed lump size between 10-50 mm, WN6000/7000H for fine to medium coarse screening in dry applications with feed lump size between 20-150 mm and WN8000 polyurethane screening media in wet applications with feed lump size between 10-100 mm.

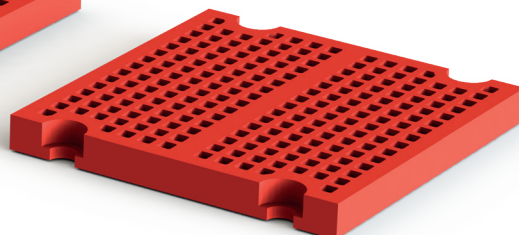
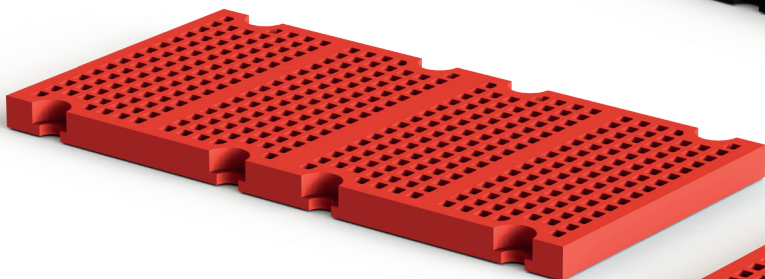
WN4000 & WN5000

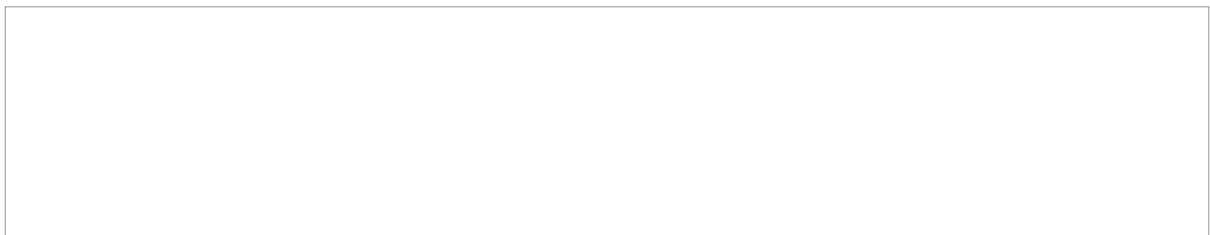


WN6000 & WN7000H



WN8000





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