

**Manufacturer Product Description**

Styronit® is structured with fibrous and inorganic natural porous mineral, aggregate and organic fibers which can be considered as high performance industrial adobe material that provides natural thermal insulation. It's ready-mixed natural mortar with a special mix combination to minimize the energy consumption and to achieve the desired insulation at the optimum application thickness, to provide comfort and livable environment without threat to human health and to protect the exterior and/or interior surfaces of the buildings. STY HRSN provides benefits in terms of LEED . For further details visit <http://www.styronitgreen.eu>

**About LEED**

LEED ( Leadership in Energy and Environmental Design ) is a certification system that rewards the best green building strategies and practices . It is a leading program on design, construction, maintenance and operations for the high-performance green buildings. Projects are prerequisites for providing the requirements , may be eligible for various levels of certification LEED® about winning points. For further details visit [www.usgbc.org](http://www.usgbc.org)

This product evaluation report is created on 16.06.2016 in accordance with the LEED v3 certification system.

**MATERIAL AND RESOURCES (MR)**



<p><b>Construction Waste Management</b> MR Credit 2</p> <p><b>Solid Waste Management Construction/Renovation Waste</b> MR Credit 9</p>	<p>Because of 100% recyclable structure of Styronit® it helps the recycling of the construction waste whether or not they have been damaged during construction, renovation or the destruction of part of the reconstruction project. Thus contributes to the construction waste management and recycling efforts.</p> <p>In addition, in the assessment process of evaluation of existing buildings it can contribute to prevent waste sent at least 70% of the field of construction and renovation waste to waste area.</p> <table border="1" data-bbox="472 1238 1452 1294"> <thead> <tr> <th>Applicable building types*</th> <th>NC</th> <th>C&amp;S</th> <th>CIR</th> <th>NCR</th> <th>SCH</th> <th>HC</th> <th>H</th> <th>EBOM</th> </tr> </thead> <tbody> <tr> <td>LEED® Credit points</td> <td>1-2</td> <td>1-2</td> <td>1-2</td> <td>1-2</td> <td>1-2</td> <td>1-2</td> <td>0.5-3</td> <td>1</td> </tr> </tbody> </table>	Applicable building types*	NC	C&S	CIR	NCR	SCH	HC	H	EBOM	LEED® Credit points	1-2	1-2	1-2	1-2	1-2	1-2	0.5-3	1		
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<p><b>Recycled Materials Content</b> MR Credit 4</p> <p><b>Sustainable Purchasing</b> MR Credit 3</p>	<p>In order to reduce the raw material and the consumption of resources used in construction, it is desired that at least 10% of the over budget of all building materials used in the project should content pre-consumer and/or post-consumer recycled substance as defined in ISO 14021 standard.</p> <p>Styronit® products contents 21% post-consumer recycled materials in their structure. With this feature it contributes to get recycled content credits to the projects in accordance with LEED criteria.</p> <table border="1" data-bbox="472 1565 1452 1621"> <thead> <tr> <th>Applicable building types*</th> <th>NC</th> <th>C&amp;S</th> <th>CI</th> <th>CIR</th> <th>NCR</th> <th>SCH</th> <th>HC</th> <th>H</th> <th>EBOM</th> </tr> </thead> <tbody> <tr> <td>LEED® Credit points</td> <td>1-2</td> <td>1-2</td> <td>1-2</td> <td>1-2</td> <td>1-2</td> <td>1-2</td> <td>1-4</td> <td>0,5-8</td> <td>1</td> </tr> </tbody> </table>	Applicable building types*	NC	C&S	CI	CIR	NCR	SCH	HC	H	EBOM	LEED® Credit points	1-2	1-2	1-2	1-2	1-2	1-2	1-4	0,5-8	1
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<p><b>Local Material</b> MR Credit 5</p>	<p>Providing the materials used within the scope of the project and the raw materials from close areas avoid the environmental impact originating from transport.</p> <table border="1" data-bbox="472 1722 1452 1771"> <thead> <tr> <th>Applicable building types*</th> <th>NC</th> <th>C&amp;S</th> <th>CI</th> <th>CIR</th> <th>NCR</th> <th>SCH</th> <th>HC</th> <th>H</th> <th>EBOM</th> </tr> </thead> <tbody> <tr> <td>LEED® Credit points</td> <td>1-2</td> <td>1-2</td> <td>1-2</td> <td>1-2</td> <td>1-2</td> <td>1-2</td> <td>1-4</td> <td>0,5-8</td> <td>1</td> </tr> </tbody> </table>	Applicable building types*	NC	C&S	CI	CIR	NCR	SCH	HC	H	EBOM	LEED® Credit points	1-2	1-2	1-2	1-2	1-2	1-2	1-4	0,5-8	1
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## ENERGY & ATMOSPHERE (EA)



<b>Minimum Energy Performance</b> EA Precondition 2  <b>Optimum Energy Performance</b> EA Credit 1 EA Credit 1.3 (CI)	Minimum 10% energy cost reduction in the new buildings is a precondition for LEED according to base building mentioned in ASHRAE 90.1-2007 standard. In existing buildings it is required minimum 5% energy efficiency.
	When Styronit® products are used, they improve thermal conductivity 15.43% in the brick walls, 16.91% in the concrete walls comparing to the other layers of the wall section with the same properties. This allows to increase the energy performance and thus contributes to the achievement of the relevant credits.
Applicable building types*	
LEED® Credit points	NC 1-19    C&S 3-21    CI 5-10    CIR 5-10    NCR 1-19    SCH 1-19    HC 1-24    EBOM 1-18    H 1-34

## INNOVATION & DESIGN PROCESS (ID)



<b>Innovation in Design</b> ID Credits 1.1 – 1.5 ID Credits 1.1 – 1.4 (EBOM) ID Credits 3.1 – 3.4 (H)	Because of one or more criteria of Styronit® products mentioned above contribute to get innovation credits as reaching the project as "reference performance".
	Applicable building types*
LEED® Credit points	NC 1-5    C&S 1-5    NCR 1-5    SCH 1-4    EBOM 1-4

## REGIONAL PRIORITY (RP)



<b>Regional Priority</b> RP Credits 1.1 – 1.4	Styronit® products can help projects to get Regional Priority credits depending on the region and the regional priorities identified by USGBC
	Applicable building types*
LEED® Credit points	NC 1-4    C&S 1-4    NCR 1-4    SCH 1-4    EBOM 1-4

### \* LEED Building Type Abbreviations

New Construction & Major Renovations <b>(NC)</b>	Existing Buildings: Operations & Maintenance <b>(EBOM)</b>	Core & Shell <b>(C&amp;S)</b>
Commercial Interiors <b>(CI)</b>	Schools <b>(SCH)</b>	HealthCare <b>(HC)</b>
New Construction-Retail <b>(NCR)</b>	Commercial Interiors-Retail <b>(CIR)</b>	Homes <b>(H)</b>