



Manufacturer Product Description

Styronit® Sty 550 Şap is a lightweight screed for thermal and acoustic insulation. This lightweight screeds is applied on ventilated roofs, flat roofs, floors, balconies and terraces before marble, ceramic, parquet, laminate. It is structured with perlite, pumice, cement, natural compounds, organic&inorganic fibers and binders which can be considered as high performance industrial adobe material that provides natural thermal and acoustic insulation. It's ready-mixed natural screed to minimize the energy consumption and to achieve the desired insulation with its' flexible, splinter proof, class A fire resistance, easy to prepare and apply properties. For further details visit <http://www.styronit.com.tr>

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



MATERIAL AND RESOURCES (MR)

<p>Construction Waste Management MR Credit 2</p> <p>Solid Waste Management Construction/Renovation Waste 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="470 1171 1442 1227"> <thead> <tr> <th>Applicable building types*</th> <th>NC</th> <th>C&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>Recycled Materials Content MR Credit 4</p> <p>Sustainable Purchasing 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="470 1496 1442 1552"> <thead> <tr> <th>Applicable building types*</th> <th>NC</th> <th>C&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>Local Material 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. Under Loan it is aimed that the maximum transport distance to the project area is 800 km (500 miles)</p> <p>Styronit® manufacturing plant is located in Tuzla/Istanbul. Raw material composition and the transport distance and shipping methods are as follows;</p> <table border="1" data-bbox="507 1787 1332 2011"> <thead> <tr> <th>Raw Material</th> <th>% Average Weight</th> <th>From</th> <th>Transport</th> <th>Distance to Styronit Plant(km)</th> </tr> </thead> <tbody> <tr> <td>Perlite</td> <td>50-55%</td> <td>Istanbul</td> <td>Road freight</td> <td>57</td> </tr> <tr> <td>Pumice</td> <td>15-25%</td> <td>Nevşehir</td> <td>Road freight</td> <td>705</td> </tr> <tr> <td>Cement</td> <td>≤2%</td> <td>Kocaeli</td> <td>Road freight</td> <td>34</td> </tr> <tr> <td>Lime</td> <td><2%</td> <td>Istanbul</td> <td>Road freight</td> <td>10</td> </tr> <tr> <td>Organic, inorganic fibers</td> <td rowspan="2">≤21%</td> <td>Istanbul</td> <td>Road freight</td> <td>24</td> </tr> <tr> <td>Organic, inorganic fibers</td> <td>Kocaeli</td> <td>Road freight</td> <td>11</td> </tr> </tbody> </table>	Raw Material	% Average Weight	From	Transport	Distance to Styronit Plant(km)	Perlite	50-55%	Istanbul	Road freight	57	Pumice	15-25%	Nevşehir	Road freight	705	Cement	≤2%	Kocaeli	Road freight	34	Lime	<2%	Istanbul	Road freight	10	Organic, inorganic fibers	≤21%	Istanbul	Road freight	24	Organic, inorganic fibers	Kocaeli	Road freight	11
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ENERGY & ATMOSPHERE (EA)



Minimum Energy Performance EA Precondition 2 Optimum Energy Performance 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.									
	With Styronit® STY 550 thermal conductivity value, it improves thermal conductivity more than 35% in the screed flooring section comparing to a standard screed application. With this characteristics it contributes to provide the related credit requirements mentioned in ASHRAE standard.									
Applicable building types*										
LEED® Credit points										

INNOVATION & DESIGN PROCESS (ID)



Innovation in Design 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® STY 550 mentioned above contribute to get innovation credits as reaching the project as "reference performance".				
	Applicable building types*				
LEED® Credit points					

REGIONAL PRIORITY (RP)



Regional Priority 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					

* LEED Building Type Abbreviations

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