

EPS does not release environmentally-harmful gases

EPS cells contain nothing but air. Chlorofluorocarbons (CFC) and hydrofluorocarbons (HCFC) have never been used in the production of polystyrene. EPS insulation panels manufactured in accordance with European guidelines release no environmentally-harmful gases and can therefore also be used indoors.

- During the production of EPS, polystyrene granules containing an expansion agent are heated with steam and inflated by up to 50-times their original volume. This expanding agent, pentane, has rather the same effect as baking powder when baking a cake. This substance also occurs naturally (natural gas) and, as it is not a greenhouse gas, it does not harm the ozone layer in the stratosphere.

Content of Several Substances in the Atmosphere	
Substance	Concentration in ppb*
Carbon dioxide CO ₂	34 600
Methane CH ₄	1 700
Pentane C ₅ H ₁₂	2
* 1 ppb (part per billion)	
Example: A family of five is 1 ppb of the global population of currently more than 5.0 billion people.	

Source: *Industrieverband Hartschaum*

- The Forschungsinstitut für Wärmeschutz e.V. Munich has determined the emissions from volatile organic components (VOC) from EPS insulation panels (Test Report No. L1-07-094 of 06.12.2007). All the products that were tested satisfied the requirements regarding the safe use of building products indoors.