

# Armstrong RH99 Ultima ceiling tiles - Green Building Summary Sheet -

## Author

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## Document Type

Green Building Rating Compatibility Analysis

## Document Code

ES-GSNZ-09-11h

## Validity

  Office 2009 + V3 ✓ Interiors 2009 + V3 ✓ Education 2009 + V3 + V3.1 ✓ Industrial 2009 + V3 ✓	  Homestar V2 + V3 ✓	  N/A -	  N/A -
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## Client

Forman Building Systems

## Product Name

Armstrong RH99 Ultima ceiling tiles

## Product Description

Armstrong RH99 Ultima is a high absorption acoustic ceiling panel for suspended ceiling grid which combines a high level of acoustic absorption with exceptional impact and scratch resistant because of the factory applied paint finish over an acoustically transparent Durabrite tissue. The smooth non-directional visual and a wide variety of grid options enables a wide range of uses in private and public sector projects. Ultima combines HumiGuard Plus no sag performance with BioBlock paint to inhibit surface growth of mold and mildew. Armstrong RH99 Ultima is GreenTag Green Rated Level A certified as well as Low VOC and low formaldehyde as tested by CETEC laboratories based on Greenguard standards.



## Manner in which the product may contribute towards points

## Legend of Symbols in EnviroSpec

Products must meet specific criteria (e.g. Paint VOC emissions, carpets, etc)



Products may help achieve points by their very nature, if they are specified and installed (e.g. bicycle racks)



Products may help achieve an outcome but they must be used in a specific manner (e.g. lighting control and zoning systems) OR This product can contribute towards the outcome but many other products or factor influence that same outcome (E.g. Potable Water Calculator)



## Disclaimer - Please read this carefully

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Tool	Credit category	Points available	Requirements	Contribution symbol	Contribution Potential	Details of compliance
Green Star NZ Office 2009	IEQ - 8	3	This credit rewards buildings that maximize daylight.	○	Contributing factor	Armstrong Ultima Ceiling tiles have a Light Reflectance Value of 90% (average) which may help improve the floor area with a daylight factor above 2.5%.
	IEQ - 11	3	This credits rewards for good visual comfort and lighting design.	✔ ○	2 (Contributing factor)	Armstrong Ultima Ceiling tiles have a Light Reflectance Value of 90% (average), thus satisfying this requirement. The remaining items in this credit are based on lighting design and are not product-dependent.
	IEQ - 13	2	This credit rewards buildings that maintain adequate noise levels.	○	Contributing factor	Armstrong Ultima Ceiling tiles have a CAC of 35 and NRC of 0.70 which may assist in maintaining suitable noise levels.
	ENE - 4	3	This credit rewards design options that lessen lighting energy consumption while maintaining adequate lighting levels	○	Contributing factor	Armstrong Ultima Ceiling tiles have a Light Reflectance Value of 90% (average) which may assist in reducing the lighting output required to obtain a given lighting level in a space.
	MAT - K	2	This credit rewards the use of eco-preferred and/or low VOC/formaldehyde emitting products for ceilings engineered wood products and gypsum plasterboard.	✔	2 Points	The nominated product is GreenTag Green Rate Level A certified, thus satisfying the full point requirements for ceiling tiles.
Education 2009 + V3	IEQ - 8	3	This credit rewards buildings that maximize daylight.	○	Contributing factor	Armstrong Ultima Ceiling tiles have a Light Reflectance Value of 90% (average) which may help improve the floor area with a daylight factor above 2.5%.
	IEQ - 11	3	This credits rewards for good visual comfort and lighting design.	✔ ○	2 points (Contributing factor)	Armstrong Ultima Ceiling tiles have a Light Reflectance Value of 90% (average), thus satisfying this requirement. The remaining items in this credit are based on lighting design and are not product-dependent.
	IEQ - 13	2	This credit rewards buildings that maintain adequate noise levels.	○	Contributing factor	Armstrong Ultima Ceiling tiles have a CAC of 35 and NRC of 0.70 which may assist in maintaining suitable noise levels.
	MAT - B	3	<b>When used for Ceiling tiles:</b> * Ceiling tiles without finish required (i.e. Prefinished approved eco-label certified ceiling tiles) = 3 points. ** Ceiling tiles requiring additional paint or finish = 1.5 points (with the additional 1.5 points achievable if the paint/finish also has an approved eco label.)	✔	Up to 3 points (unweighted product calculator score)	The nominated product is GreenTag Green Rate Level A certified, thus satisfying the full point requirements for ceiling tiles.

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Industrial 2009	IEQ - 8	3	This credit rewards buildings that maximize daylight.	○	Contributing factor	Armstrong Ultima Ceiling tiles have a Light Reflectance Value of 90% (average) which may help improve the floor area with a daylight factor above 2.5%.
	IEQ - 11	3	This credits rewards for good visual comfort and lighting design.	✓ ○	2 (Contributing factor)	Armstrong Ultima Ceiling tiles have a Light Reflectance Value of 90% (average), thus satisfying this requirement. The remaining items in this credit are based on lighting design and are not product-dependent.
	IEQ - 13	2	This credit rewards buildings that maintain adequate noise levels.	○	Contributing factor	Armstrong Ultima Ceiling tiles have a CAC of 35 and NRC of 0.70 which may assist in maintaining suitable noise levels.
	MAT - K	2	This credit rewards the use of eco-preferred and/or low VOC/formaldehyde emitting products for ceiling tiles, engineered wood products and gypsum plasterboard	✓	2 Points	The nominated product is GreenTag Green Rate Level A certified, thus satisfying the full point requirements for ceiling tiles.
Interiors 2009	IEQ - 8	3	This credit rewards buildings that maximize daylight.	○	Contributing factor	Armstrong Ultima Ceiling tiles have a Light Reflectance Value of 90% (average) which may help improve the floor area with a daylight factor above 2.5%.
	IEQ - 11	3	This credits rewards for good visual comfort and lighting design. To achieve 2 point or more, the light reflectance of Ceilings must be minimum 75%.	✓ ○	2 (Contributing factor)	Armstrong Ultima Ceiling tiles have a Light Reflectance Value of 90% (average), thus satisfying this requirement. The remaining items in this credit are based on lighting design and are not product-dependent.
	IEQ - 13	2	This credit rewards buildings that maintain adequate noise levels.	○	Contributing factor	Armstrong Ultima Ceiling tiles have a CAC of 35 and NRC of 0.70 which may assist in maintaining suitable noise levels.
	ENE- 4	3	This credit rewards design options that lessen lighting energy consumption while maintaining adequate lighting levels.	○	Contributing factor	Armstrong Ultima Ceiling tiles have a Light Reflectance Value of 90% (average) which may assist in reducing the lighting output required to obtain a given lighting level in a space.
	MAT - B	7	<b>When used for Ceiling tiles:</b> "Ceiling tiles without finish required (i.e. Prefinished approved eco-label certified ceiling tiles) = 7 points." "Ceiling tiles requiring additional paint or finish = 3.5 points (with the additional 3.5 points achievable if the paint/finish also has an approved eco label.)"	✓	Up to 7 points (unweighted product calculator score)	The nominated product is GreenTag Green Rate Level A certified, thus satisfying the full point requirements for ceiling tiles
	IEQ - 8	3	This credit rewards buildings that maximize daylight.	○	Contributing factor	Armstrong Ultima Ceiling tiles have a Light Reflectance Value of 90% (average) which may help improve the floor area with a daylight factor above 2.5%.

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<b>Green Star NZ</b>  <b>Office V3.0</b> + <b>Education V3.1</b> + <b>Industrial V3</b> + <b>Interiors V3</b>	IEQ - 11	3	This credits rewards for good visual comfort and lighting design.	 	2 (Contributing factor)	Armstrong Ultima Ceiling tiles have a Light Reflectance Value of 90% (average), thus satisfying this requirement. The remaining items in this credit are based on lighting design and are not product-dependent.
	IEQ - 13	2	This credit rewards buildings that maintain adequate noise levels.		Contributing factor	Armstrong Ultima Ceiling tiles have a CAC of 35 and NRC of 0.70 which may assist in maintaining suitable noise levels.
	ENE- 4	3	This credit rewards design options that lessen lighting energy consumption while maintaining adequate lighting levels		Contributing factor	Armstrong Ultima Ceiling tiles have a Light Reflectance Value of 90% (average) which may assist in reducing the lighting output required to obtain a given lighting level in a space.
	MAT - 4	2	This credit rewards the use of eco-preferred and/or low VOC/formaldehyde emitting products for ceilings engineered wood products and gypsum plasterboard.		2 Points	The nominated product is GreenTag Green Rate Level A certified, thus satisfying the full point requirements for ceilings.
<b>Homestar V2+V3</b>	MAT -1	9	This credit rewards the use selection of eco-preferred and responsibly sourced materials. Ceilings are amongst thirteen possible construction types eligible for 1 merit each		1 Merit	The nominated products are GreenTag GreenRate Level A certified and satisfy the requirements for this credit.
	EHC-9	2	This credit rewards the provision of an improved sound environment in accordance with items listed in the sound insulation checklist.			Acoustic ceiling tiles are referred to in the sound insulation checklist. If the nominated ceiling tiles are used in > 80% of a dwelling's livable rooms then 0.29 points can be claimed in Homestar V2 and 0.33 points can be claimed in Homestar V3.
<b>Living Building Challenge</b>		Pass/Fail	This product has not been assessed against this criteria.	-	-	N/A
<b>SBN Circular Economy Office Model V1.1</b>		Pass/Fail	This product has not been assessed against this criteria.	-	-	N/A