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

Client
Forman Building Systems

Product Name
Armstrong RH99 Dune (and Dune Max) ceiling tiles

Product Description	
<p>Armstrong RH99 Dune (including Dune Max) is a medium absorption acoustic ceiling panel for suspended ceiling grid which combines acoustics and a fine texture visual. This product is GreenTag Green Rate Level A certified as well as Low VOC and low formaldehyde as tested by CETEC laboratories based on Greenguard standards and combines HumiGuard Plus no sag performance with BioBlock paint to inhibit surface growth of mold and mildew.</p>	

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)	○

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## Armstrong RH99 Dune (and Dune Max) ceiling tiles - Green Building Summary Sheet -

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 Dune and Dune Max Ceiling tiles have a Light Reflectance Value of 85% (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)	To achieve 2 points or more, the light reflectance of Ceilings must be minimum 75%. Armstrong Dune and Dune Max Ceiling tiles have a Light Reflectance Value of 85% (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 Dune Ceiling tiles have a CAC of 32 and NRC of 0.50 (30 and 0.70 for Dune Max) 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 Dune and Dune Max Ceiling tiles have a Light Reflectance Value of 85% (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 Dune and Dune Max Ceiling tiles have a Light Reflectance Value of 85% (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)	To achieve 2 points or more, the light reflectance of Ceilings must be minimum 75%. Armstrong Dune and Dune Max Ceiling tiles have a Light Reflectance Value of 85% (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 Dune Ceiling tiles have a CAC of 32 and NRC of 0.50 (30 and 0.70 for Dune Max) which may assist in maintaining suitable noise levels.

	MAT - B	3	<p><b>When used for Ceiling tiles:</b></p> <p>Ceiling tiles without finish required (i.e. Prefinished approved eco-label certified ceiling tiles) = 3 points.</p> <p>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.)</p>	✓	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.
Industrial 2009	IEQ - 8	3	This credit rewards buildings that maximize daylight.	○	Contributing factor	Armstrong Dune and Dune Max Ceiling tiles have a Light Reflectance Value of 85% (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)	To achieve 2 points or more, the light reflectance of Ceilings must be minimum 75%. Armstrong Dune and Dune Max Ceiling tiles have a Light Reflectance Value of 85% (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 Dune Ceiling tiles have a CAC of 32 and NRC of 0.50 (30 and 0.70 for Dune Max) 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 Dune and Dune Max Ceiling tiles have a Light Reflectance Value of 85% (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)	To achieve 2 points or more, the light reflectance of Ceilings must be minimum 75%. Armstrong Dune and Dune Max Ceiling tiles have a Light Reflectance Value of 85% (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 Dune Ceiling tiles have a CAC of 32 and NRC of 0.50 (30 and 0.70 for Dune Max) 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 Dune and Dune Max Ceiling tiles have a Light Reflectance Value of 85% (average) which may assist in reducing the lighting output required to obtain a given lighting level in a space.

	MAT - B	7	<u><b>When used for Ceiling tiles:</b></u> "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
Green Star NZ Office V3.0 + Education V3.1 + Industrial V3 + Interiors V3	IEQ - 8	3	This credit rewards buildings that maximize daylight.	○	Contributing factor	Armstrong Dune and Dune Max Ceiling tiles have a Light Reflectance Value of 85% (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)	To achieve 2 points or more, the light reflectance of Ceilings must be minimum 75%. Armstrong Dune and Dune Max Ceiling tiles have a Light Reflectance Value of 85% (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 Dune Ceiling tiles have a CAC of 32 and NRC of 0.50 (30 and 0.70 for Dune Max) 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 Dune and Dune Max Ceiling tiles have a Light Reflectance Value of 85% (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.
Homestar V2+V3	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.	✓	0.29/0.33	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.
Living Building Challenge		Pass/Fail	This product has not been assessed against this criteria.	-	-	N/A
SBN Circular Economy Office Model V1.1		Pass/Fail	This product has not been assessed against this criteria.	-	-	N/A