

SMARTDEC® ISO

Flexible vert Isolé Anti-microbien

Smartdec®ISO est un nouveau flexible écologique sans aucun PVC !

Sans COV et avec ses caractéristiques hygiéniques, il est particulièrement conseillé dans toutes les applications en habitat résidentiel, aussi bien en neuf qu'en rénovation. Smartdec®ISO est principalement composé d'un conduit intérieur Non-tissé Polypropylène supporté par une spire métallique à pas rapprochés. Ce conduit intérieur comporte le traitement **DECPROTECT® Anti-bactérien & Anti-Fongicide afin de garantir la qualité de l'air intérieur :**

- ✓ **DECPROTECT™** résistance microbienne selon ISO 846 A
- ✓ Perte de charge; voir tableau ci-dessous
- ✓ Conformité aéraulique selon EN13180
- ✓ Atténuation acoustique selon ISO 7235
- ✓ Étanchéité D/ATC 2 jusqu'à +1000Pa
- ✓ Le conduit polypropylène offer une excellente résistance aux acides non-oxydants / graisses / solvants organiques
- ✓ Imperméable

APPLICATIONS:

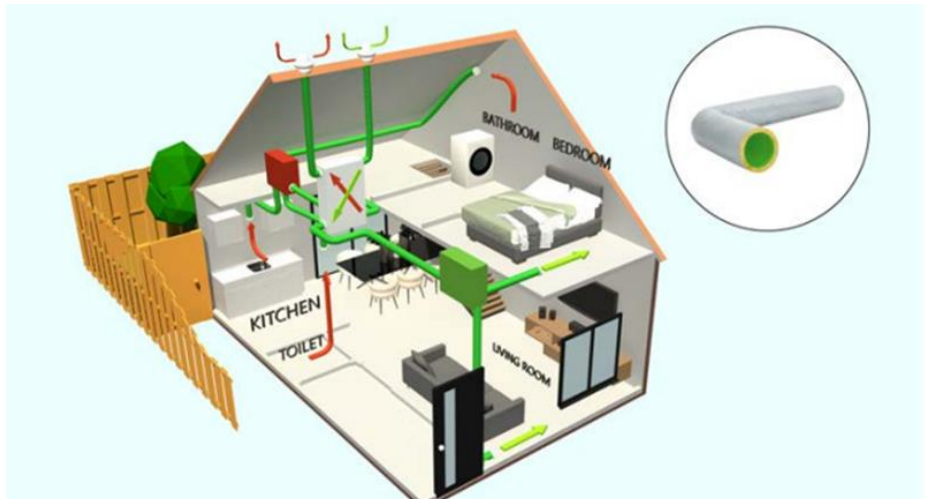
- Ventilation résidentielle;
- Réseaux selon EN 13180;
- Recommandé en RE2020;
- Rénovation/amélioration installation VMC

AVANTAGES:

- ✓ Pas de PVC
- ✓ 0 Emissions
- ✓ Revêtement anti-microbien
- ✓ Nettoyable
- ✓ Très bonne résistance mécanique
- ✓ Durable
- ✓ Diamètres standards
- ✓ 100% recyclable

Spécifications

Code article:	SMADI [Ø]
Couleur:	Conduit intérieur vert, Pare vapeur PE argenté
Diamètres:	82 à 315mm
Température d'utilisation:	-30°C à 60°C
Pression de service:	Jusqu'à 1000Pa
Résistance au feu EN-13501:	D-s1,d0
V max air:	max. 4m/s
Rayon de courbure:	R=0.54 X Ø+25mm
Classe d'étanchéité:	ATC 2 Class D jusqu'à 1000Pa
ISO 22196 antimicrobien:	Efficacité 99,9%
ISO 16869 antifongicide:	Efficacité 99,9%
Conditionnement:	Carton individuel
Montage:	Voir instructions
Longueur standard:	10 Mètres



Reach/RoHs : Conforme
Directive 2011/65/EU RoHS
Phthalates according to 1907/2006/EC REACH
Test result: Pass - The test items meets the requirements of the test specification



LIABILITY:

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PLEASE NOTICE:

The consultant is responsible for the actual installation and mounting of the product. The mentioned values with respect to temperatures are not appropriate to be used to determine the physical properties. These properties are also dependent on humidity and the temperature of the air inside and outside of the H.V.A.C. system.

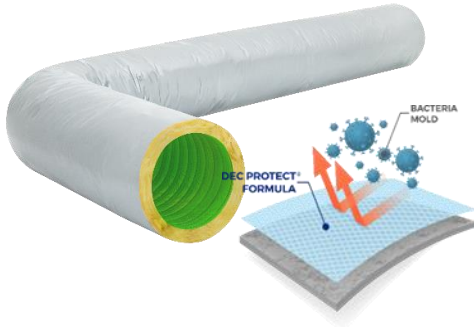
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RESTRICTIONS:

The ducts are not suitable for discharging combustion products from open fireplaces and oil-fired boilers. Neither are the ducts suitable for transporting air with a high concentration of acid and base.



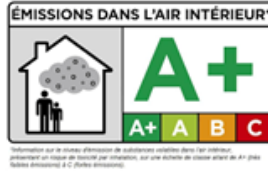


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Isolant:

Laine de verre : 25 mm jaune
Coef. R-: 0.65 m² K/W
Pare vapeur : Polyéthylène 80µ



www.blauer-engel.de/uz132

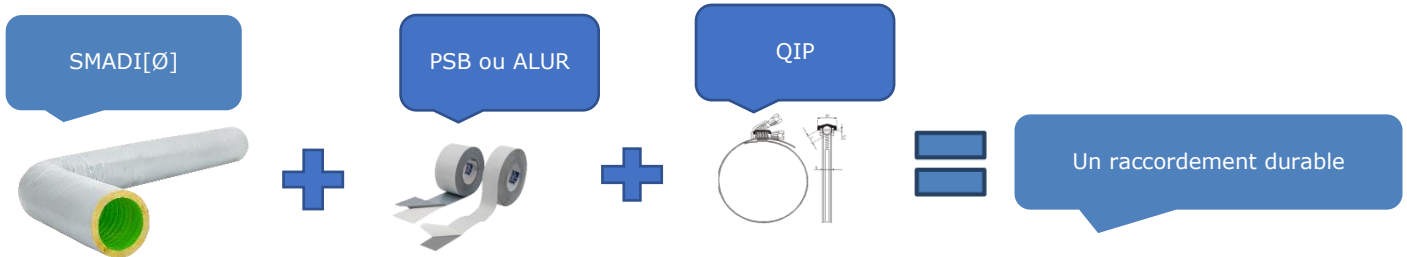
Smartdec® ISO est fabriqué selon la norme européenne EN 13180:

Accessoires de ventilation – Conduits flexibles – Respect des exigences mécaniques et géométriques.

Smartdec® ISO est aussi disponible, sur demande, avec Laine de Verre Ep.2x25 mm, le code article est **SMADI50[Ø]**

Le pare vapeur est recyclable et fabriqué en Polyéthylène 80µ

Instructions de montage :



Les conditions de montage préconisées :

- ✓ **Smartdec® ISO** choix suivant le diamètre, le flux et la perte de charge possible;
- ✓ **Smartdec® ISO** longueur droite ; si supérieure à 2 mètres, mise en place d'un collier de suspension [**SBRØ**];
- ✓ Raccordement étanche [**PSB ou ALUR**] + [**QIPØ**]
- ✓ Pour une performance maximale, le conduit intérieur **Smartdec® ISO** doit être toujours complètement étiré.

Produits complémentaires;

- Bouches de soufflage/reprise [**RONDOØ**];
- Autres composants DEC ventilation; nous contacter et/ou www.decinternational.com

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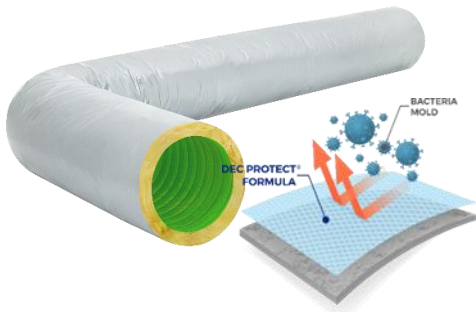
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Tableau Perte de charge Longueur droite

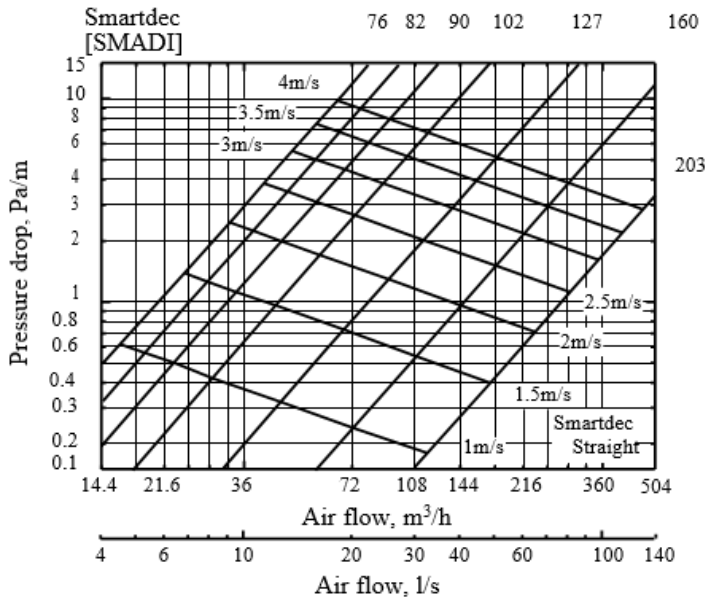


Tableau Perte de charge avec angle 45°

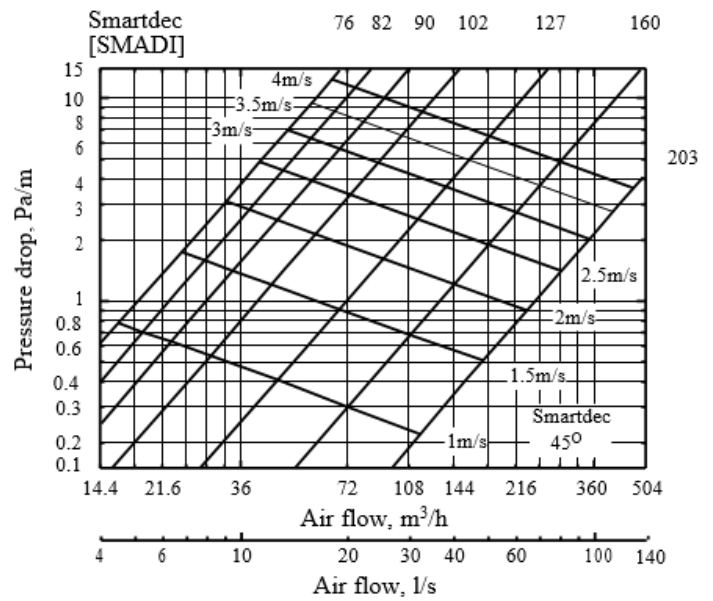


Tableau Perte de charge avec angle 60°

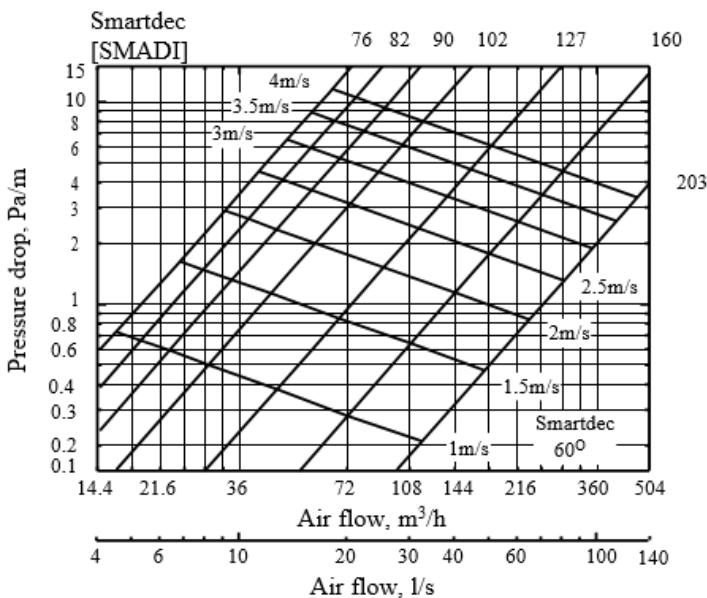
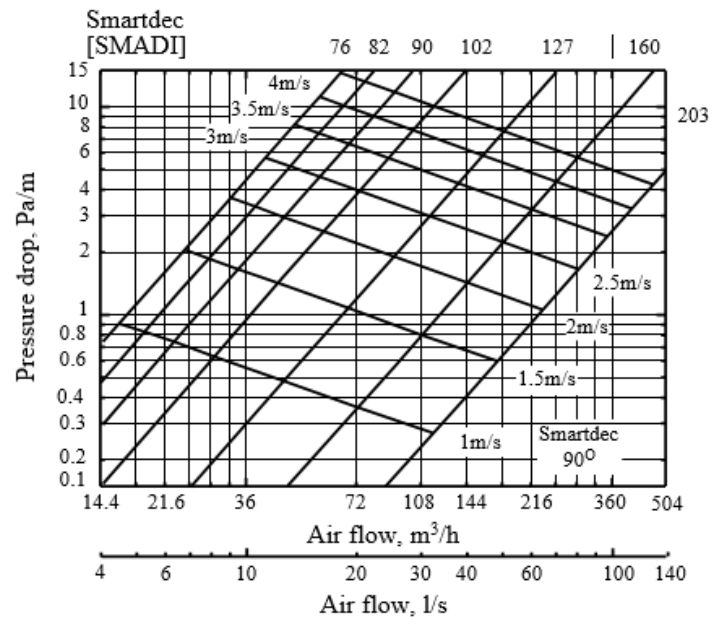


Tableau Perte de charge avec angle 90°



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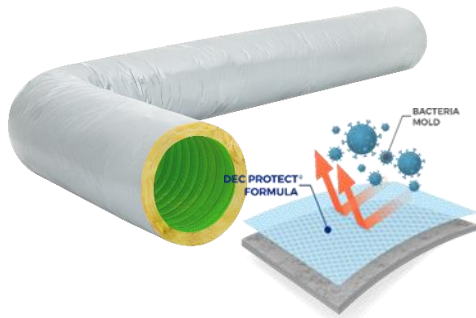
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Absorption acoustique: ISO 7235

Insertion loss : Absorption intérieure (flux)
Transmission loss : Atténuation aérienne

SMARTDEC ISO - (Innercore Green + barrier + 25 mm glass wool + Outside jacket Silver Grey)

Ø (mm)	L (mm)	Insertion loss D_i (dB)							
		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
80	5000	4.7	1.3	2.1	2.8	5.4	13.7	38.9	21.3
100	5000	3.8	1.4	2.2	3.8	8.5	20.5	41.0	23.4
125	5000	9.4	2.1	1.5	3.4	7.7	15.7	39.5	18.8
160	5000	5.6	5.2	3.9	3.6	8.2	19.2	39.4	23.7
180	5000	0.7	1.1	2.4	2.2	6.5	22.5	37.7	15.0
200	5000	0.4	0.9	1.7	3.0	5.7	17.2	28.4	13.8

SMARTDEC ISO - (Innercore Green + barrier + 25 mm glass wool + Outside jacket Silver Grey)

Ø (mm)	L (mm)	Transmission loss D_t (dB)							
		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
80	5000	42.2	33.5	28.4	20.6	20.4	18.8	17.0	19.4
100	5000	31.9	27.5	22.8	19.7	18.3	19.8	18.9	19.3
125	5000	35.8	27.1	26.2	18.3	18.1	16.9	17.0	18.5
160	5000	39.7	32.7	27.9	20.9	21.3	21.1	21.4	18.1
180	5000	33.7	24.7	23.7	17.7	17.4	16.0	18.8	16.2
200	5000	32.9	18.9	19.8	16.8	17.6	17.2	19.2	9.8

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