# SOLITEX MENTO PLUS



## Technical data

Ib/in / 38 lb/in   Tensile strength MD/CD aged*   EN 13859-1 (A)   495 N/5 cm / 315 N/5 cm ; 57   Ib/in / 36 lb/in   Elongation MD/CD   EN 13859-1 (A)   20 % / 20 %   Elongation MD/CD aged*   EN 13859-1 (A)   20 % / 20 %   Elongation MD/CD aged*   EN 13859-1 (A)   Elongation MD/CD aged*   EN 13859-1 (B)   Elongation MD/CD aged*   Elongation MD		Substance	
Attribute     Regulation     Value       Colour     anthracite       Surface weight     EN 1849-2     175 g/m²; 0.57 oz/ft²       Thickness     EN 1849-2     0.60 mm; 24 mils       Water vapor resistance factor μ     EN ISO 12572     83       sd value     EN ISO 12572     83       g value     0.25 MN·s/g       Vapour permeance     ASTM E 96     65 US perms       Fire rating     EN 13501-1     E       Outdoor exposure     4 months       Water column     EN ISO 811     > 2 500 mm; > 8' 2"       Water tightness non-aged/aged*     EN 13859-1     W1 / W1       Watertight joints with 'connect' technology if TESCON VANA's is used for sticking     EN 13859-1     W1       Tensile strength MD/CD     EN 13859-1 (A)     430 N/5 cm / 330 N/5 cm ; 49 lb/in / 38 lb/in       Tensile strength MD/CD aged*     EN 13859-1 (A)     495 N/5 cm / 315 N/5 cm ; 57 lb/in / 36 lb/in       Elongation MD/CD aged*     EN 13859-1 (A)     20 % / 20 %       Elongation MD/CD aged*     EN 13859-1 (B)     300 N / 300 N ; 67 lbf / 67 lbf       *) Durability after artificial ageing     EN 13859-1 (B)     300 N / 300 N ; 67 lbf / 67 lbf       *) Durability after artificial ageing     EN 1297 / EN 1296     passed       Flexibility at low temperature     EN 1109     -40 °C : -40 °F    <	Protective and covering fleece	Polypropylene microfibre	
AttributeRegulationValueColouranthraciteSurface weightEN 1849-2175 g/m²; 0.57 oz/ft²ThicknessEN 1849-20.60 mm; 24 milsWater vapor resistance factor μEN ISO 1257283sd valueEN ISO 125720.05 mg value0.25 MN·s/gVapour permeanceASTM E 9665 US permsFire ratingEN 13501-1EOutdoor exposure4 monthsWater columnEN ISO 811> 2 500 mm; > 8' 2"Water tightness non-aged/aged*EN 13859-1W1 / W1Watertight joints with 'connect' technology if TESCON VANA is used for stickingEN 13859-1W1Tensile strength MD/CDEN 13859-1 (A)430 N/5 cm / 330 N/5 cm; 49 lo/in / 38 lo/inElongation MD/CD aged*EN 13859-1 (A)495 N/5 cm / 315 N/5 cm; 57 lo/in / 36 lo/inElongation MD/CD aged*EN 13859-1 (B)300 N / 300 N; 67 lof / 67 lofNail tear resistance MD/CDEN 13859-1 (B)300 N / 300 N; 67 lof / 67 lof*) Durability after artificial ageingEN 1297 / EN 1296passedFlexibility at low temperatureEN 1109-40 °C; -40 °FTemperature resistancePermanent -40 °C to 100 °C; -40 °FTemperature resistancePermanent -40 °C to 100 °C; -40 °FThermal conductivity0.04 W/(m·K); 0.3 BTU-in/ (h·ft2+F)Sarking membrane/roof lining membraneZVDH- ProduktdatenblattUSB-A / UDB-ATemporary roof covering; suitable asZVDH	Membrane	monolithic TEEE	
Colour         anthracite           Surface weight         EN 1849-2         175 g/m²; 0.57 oz/ft²           Thickness         EN 1849-2         0.60 mm; 24 mils           Water vapor resistance factor μ         EN ISO 12572         83           sd value         EN ISO 12572         0.05 m           g value         0.25 MN·s/g           Vapour permeance         ASTM E 96         65 US perms           Fire rating         EN 13501-1         E           Outdoor exposure         4 months           Water column         EN ISO 811         > 2 500 mm; > 8' 2"           Water tightness non-aged/aged*         EN 13859-1         W1 / W1           Watertight joints with 'connect' technology if TESCON VANA is used for sticking         EN 13859-1         W1           Tensile strength MD/CD         EN 13859-1         A30 N/5 cm / 330 N/5 cm ; 49 lb/in / 38 lb/in           Tensile strength MD/CD aged*         EN 13859-1         A49 N/5 cm / 315 N/5 cm ; 57 lb/in / 36 lb/in           Elongation MD/CD         EN 13859-1         A20 % / 20 %           Elongation MD/CD aged*         EN 13859-1         A30 N/ 300 N ; 67 lbf / 67 lbf           *) Durability after artificial ageing         EN 13859-1         B0 300 N / 300 N ; 67 lbf / 67 lbf           *) Durability at low temperature	Reinforcement	Polypropylene non-woven fabric	
Colour         anthracite           Surface weight         EN 1849-2         175 g/m²; 0.57 oz/ft²           Thickness         EN 1849-2         0.60 mm; 24 mils           Water vapor resistance factor μ         EN ISO 12572         83           sd value         EN ISO 12572         0.05 m           g value         0.25 MN·s/g           Vapour permeance         ASTM E 96         65 US perms           Fire rating         EN 13501-1         E           Outdoor exposure         4 months           Water column         EN ISO 811         > 2 500 mm; > 8' 2"           Water tightness non-aged/aged*         EN 13859-1         W1 / W1           Watertight joints with 'connect' technology if TESCON VANA is used for sticking         EN 13859-1         W1           Tensile strength MD/CD         EN 13859-1         A30 N/5 cm / 330 N/5 cm ; 49 lb/in / 38 lb/in           Tensile strength MD/CD aged*         EN 13859-1         A49 N/5 cm / 315 N/5 cm ; 57 lb/in / 36 lb/in           Elongation MD/CD         EN 13859-1         A20 % / 20 %           Elongation MD/CD aged*         EN 13859-1         A30 N/ 300 N ; 67 lbf / 67 lbf           *) Durability after artificial ageing         EN 13859-1         B0 300 N / 300 N ; 67 lbf / 67 lbf           *) Durability at low temperature			
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Thickness			
Water vapor resistance factor μEN ISO 1257283sd valueEN ISO 125720.05 mg value0.25 MN·s/gVapour permeanceASTM E 9665 US permsFire ratingEN 13501-1EOutdoor exposure4 monthsWater columnEN ISO 811> 2 500 mm; > 8' 2"Water tightness non-aged/aged*EN 13859-1W1 / W1Watertight joints with 'connect' technology if TESCON VANA is used for stickingEN 13859-1W1Tensile strength MD/CDEN 13859-1 (A)430 N/5 cm / 330 N/5 cm; 49 lb/in / 38 lb/inTensile strength MD/CD aged*EN 13859-1 (A)495 N/5 cm / 315 N/5 cm; 57 lb/in / 36 lb/inElongation MD/CD aged*EN 13859-1 (A)20 % / 20 %Elongation MD/CD aged*EN 13859-1 (B)300 N / 300 N; 67 lbf / 67 lbf*) Durability after artificial ageingEN 1297 / EN 1296passedFlexibility at low temperatureEN 1109-40 °C; -40 °FTemperature resistancepermanent -40 °C to 100 °C; -40 °F to 212 °FThermal conductivity0.04 W/(m·K); 0.3 BTU·in/ (h·ft²-F)Sarking membrane/roof lining membraneZVDH-ProduktdatenblattUSB-A / UDB-ATemporary roof covering; suitable asZVDHyes	Surface weight	EN 1849-2	
sd value         EN ISO 12572         0.05 m           g value         0.25 MN·s/g           Vapour permeance         65 US perms           Fire rating         EN 13501-1         E           Outdoor exposure         4 months           Water column         EN ISO 811         > 2 500 mm; > 8' 2"           Water tightness non-aged/aged*         EN 13859-1         W1 / W1           Watertight joints with 'connect' technology if TESCON VANA is used for sticking         EN 13859-1         W1           Tensile strength MD/CD         EN 13859-1 (A)         430 N/5 cm / 330 N/5 cm ; 49 lb/in / 38 lb/in           Tensile strength MD/CD aged*         EN 13859-1 (A)         495 N/5 cm / 315 N/5 cm ; 57 lb/in / 36 lb/in           Elongation MD/CD aged*         EN 13859-1 (A)         20 % / 20 %           Elongation MD/CD aged*         EN 13859-1 (B)         300 N / 300 N ; 67 lbf / 67 lbf           *) Durability after artificial ageing         EN 13859-1 (B)         300 N / 300 N ; 67 lbf / 67 lbf           *) Durability after artificial ageing         EN 1297 / EN 1296         passed           Flexibility at low temperature         EN 1109         -40 ° C ; -40 ° F           Temperature resistance         permanent -40 ° C to 100 ° C ; -40 ° F           Temperature resistance         permanent -40 ° C to 100 ° C ; -40 ° F	Thickness	EN 1849-2	0.60 mm ; 24 mils
g value  Vapour permeance  ASTM E 96 65 US perms  Fire rating EN 13501-1 E  Outdoor exposure  4 months  Water column EN ISO 811 > 2 500 mm; > 8' 2"  Water tightness non-aged/aged* EN 13859-1 W1 / W1  Watertight joints with 'connect' technology if TESCON VANA is used for sticking  Tensile strength MD/CD EN 13859-1 EN 1	Water vapor resistance factor $\mu$	EN ISO 12572	83
Vapour permeance  Fire rating  EN 13501-1  EN 13501-1  EN 13501-1  EN 150 811  Substituting Service Se	sd value	EN ISO 12572	0.05 m
Fire rating EN 13501-1 E  Outdoor exposure 4 months  Water column EN ISO 811 > 2 500 mm; > 8' 2"  Water tightness non-aged/aged* EN 13859-1 W1 / W1  Watertight joints with 'connect' technology if TESCON VANA is used for sticking  Tensile strength MD/CD EN 13859-1 (A) 430 N/5 cm / 330 N/5 cm; 49 lb/in / 38 lb/in  Tensile strength MD/CD aged* EN 13859-1 (A) 495 N/5 cm / 315 N/5 cm; 57 lb/in / 36 lb/in  Elongation MD/CD EN 13859-1 (A) 20 % / 20 %  Elongation MD/CD aged* EN 13859-1 (B) 300 N / 300 N; 67 lbf / 67 lbf  *) Durability after artificial ageing EN 1297 / EN 1296 passed  Flexibility at low temperature EN 1109 -40 °C; -40 °F  Temperature resistance  Temperature resistance  Temperature resistance  ZVDH-Produktdatenblatt  Temporary roof covering; suitable as  ZVDH yes	g value		0.25 MN·s/g
Outdoor exposure  Water column  EN ISO 811  > 2 500 mm; > 8' 2"  Water tightness non-aged/aged*  EN 13859-1  W1 / W1  Watertight joints with 'connect' technology if TESCON VANA is used for sticking  Tensile strength MD/CD  EN 13859-1	Vapour permeance	ASTM E 96	65 US perms
Water column  EN ISO 811  > 2 500 mm; > 8' 2"  Water tightness non-aged/aged*  EN 13859-1  W1 / W1  Watertight joints with 'connect' technology if TESCON VANA is used for sticking  Tensile strength MD/CD  EN 13859-1 (A)  Tensile strength MD/CD aged*  EN 13859-1 (A)  EN 13859-1 (B)  EN 13859-1 (B)  EN 13859-1 (B)  Nail tear resistance MD/CD  EN 13859-1 (B)  Temperature resistance  EN 1297 / EN 1296  Flexibility at low temperature  EN 1109  Flexibility at low temperature  EN 1109  Temperature resistance  Temperature resistance  Permanent -40 °C to 100 °C; -40 °F  Temperature resistance  Temperature resistance  Permanent -40 °C to 100 °C; -40 °F  Temperature resistance  Permanent -40 °C to 100 °C; -40 °F  Temperature resistance  Permanent -40 °C to 100 °C  The resistance resistance  Permanent -40 °C to 100 °C  Temperature resistance  Permanent -40 °C to 100 °C  Tempera	Fire rating	EN 13501-1	E
Water tightness non-aged/aged*  Water tight joints with 'connect' technology if TESCON VANA is used for sticking  Tensile strength MD/CD  EN 13859-1 (A)  Tensile strength MD/CD aged*  EN 13859-1 (A)  Tensile strength MD/CD aged*  EN 13859-1 (A)  EN 13859-1 (B)  EN 1297 / EN 1296  Flexibility after artificial ageing  EN 1109  EN 1297 / EN 1296  Flexibility at low temperature  EN 1109  EN 1109  EN 1296 / EN 1296  Flexibility at low temperature  EN 1109  EN 1297 / EN 1296  Flexibility after artificial ageing  EN 1109  EN 1297 / EN 1296  Flexibility at low temperature  EN 1109  EN 1297 / EN 1296  Flexibility at low temperature  EN 1109  EN 1297 / EN 1296  Flexibility after artificial ageing  EN 1297 / EN 1296  Flexibility after artificial ageing  EN 1297 / EN 1296  Flexibility at low temperature  EN 1109  EN 1296 / EN 1296  Flexibility at low temperature  EN 1109  EN 1296 / EN 1296  Flexibility after artificial ageing  EN 1297 / EN 1296  Flexibility after artificial ageing  EN 1297 / EN 1296  Flexibility after artificial ageing  EN 1297 / EN 1296  Flexibility after artificial ageing  EN 1297 / EN 1296  Flexibility after artificial ageing  EN 1297 / EN 1296  Flexibility after artificial ageing  EN 1297 / EN 1296  Flexibility after artificial ageing  EN 1297 / EN 1296  Flexibility after artificial ageing  EN 1297 / EN 1296  Flexibility after artificial ageing  EN 1297 / EN 1296  Flexibility after artificial ageing  EN 1297 / EN 1296  Flexibility after artificial ageing  EN 1297 / EN 1296  Flexibility after artificial ageing  EN 1298 / 20 % / 20 %  EN 13859-1 (A)  EN 13859-1 (A)  EN 13859-1 (A)  20 % / 20 %  EN 13859-1 (A)  20 % / 20 %  EN 1298 / EN 1298	Outdoor exposure		4 months
Watertight joints with 'connect' technology if TESCON VANA is used for sticking  Tensile strength MD/CD  EN 13859-1 (A)  EN 13859-1 (B)  EN 13859-1 (A)  EN 13	Water column	EN ISO 811	> 2 500 mm ; > 8' 2"
TESCON VANA is used for sticking  Tensile strength MD/CD  EN 13859-1 (A)  430 N/5 cm / 330 N/5 cm ; 49 lb/in / 38 lb/in  Tensile strength MD/CD aged*  EN 13859-1 (A)  495 N/5 cm / 315 N/5 cm ; 57 lb/in / 36 lb/in  Elongation MD/CD  EN 13859-1 (A)  EN 13859-1 (A)  20 % / 20 %  Elongation MD/CD aged*  EN 13859-1 (B)  300 N / 300 N ; 67 lbf / 67 lbf  *) Durability after artificial ageing  EN 1297 / EN 1296  Flexibility at low temperature  EN 1109  -40 °C; -40 °F  Temperature resistance  permanent -40 °C to 100 °C; -40 °F  Thermal conductivity  Culture (h-ft²-F)  Sarking membrane/roof lining membrane  ZVDH-  Produktdatenblatt  Temporary roof covering; suitable as  ZVDH  yes	Water tightness non-aged/aged*	EN 13859-1	W1 / W1
Tensile strength MD/CD aged*  EN 13859-1 (A)  Elongation MD/CD  EN 13859-1 (A)  Elongation MD/CD aged*  EN 13859-1 (A)  Elongation MD/CD aged*  EN 13859-1 (A)  EN 13859-1 (A)  EN 13859-1 (A)  EN 13859-1 (B)  EN 13859-1 (B)  EN 13859-1 (B)  EN 13859-1 (B)  EN 1297 / EN 1296  Flexibility after artificial ageing  EN 1297 / EN 1296  Flexibility at low temperature  EN 1109  EN 1109  EN 1296  Flexibility at low temperature  EN 1109  EN 1109  EN 1296  Flexibility after artificial ageing  EN 1109  EN 1296  Flexibility after artificial ageing  EN 1109  EN 1296  Flexibility at low temperature  EN 1296  Flexibility at low temperature  EN 1296  EN 1297  EN 1296  Flexibility at low temperature  EN 1296  EN 1296  Flexibility at low temperature  EN 1296  EN 1296  Flexibility at low temperature  EN 1296  Flexibility at low temperature  EN 1296  EN 1296  Flexibility at low temperature  EN 1296  Flexibility at low tem	Watertight joints with 'connect' technology if TESCON VANA is used for sticking	EN 13859-1	W1
Ib/in / 36 lb/in   Elongation MD/CD   EN 13859-1 (A)   20 % / 20 %   Elongation MD/CD aged*   EN 13859-1 (A)   20 % / 20 %   20 %   Nail tear resistance MD/CD   EN 13859-1 (B)   300 N / 300 N ; 67 lbf / 67 lbf *) Durability after artificial ageing   EN 1297 / EN 1296   passed   Flexibility at low temperature   EN 1109   -40 °C ; -40 °F   Temperature resistance   EN 1109   -40 °C ; -40 °F   Temperature resistance   Permanent -40 °C to 100 °C ; -40 °F to 212 °F   Thermal conductivity   0.04 W/(m·K) ; 0.3 BTU-in/ (h·ft²-F)   Sarking membrane/roof lining membrane   ZVDH-	Tensile strength MD/CD	EN 13859-1 (A)	430 N/5 cm / 330 N/5 cm ; 49 lb/in / 38 lb/in
Elongation MD/CD aged*  EN 13859-1 (A) 20 % / 20 %  Nail tear resistance MD/CD  EN 13859-1 (B) 300 N / 300 N ; 67 lbf / 67 lbf  *) Durability after artificial ageing  EN 1297 / EN 1296  Flexibility at low temperature  EN 1109 -40 °C ; -40 °F  Temperature resistance  permanent -40 °C to 100 °C ; -40 °F to 212 °F  Thermal conductivity  O.04 W/(m·K) ; 0.3 BTU-in/ (h·ft²-F)  Sarking membrane/roof lining membrane  ZVDH-  Produktdatenblatt  Temporary roof covering; suitable as  ZVDH yes	Tensile strength MD/CD aged*	EN 13859-1 (A)	
Nail tear resistance MD/CD  EN 13859-1 (B) 300 N / 300 N ; 67 lbf / 67 lbf  *) Durability after artificial ageing  EN 1297 / EN 1296  Flexibility at low temperature  EN 1109  -40 °C ; -40 °F  Temperature resistance  permanent -40 °C to 100 °C ; -40 °F to 212 °F  Thermal conductivity  0.04 W/(m·K) ; 0.3 BTU-in/ (h·ft²-F)  Sarking membrane/roof lining membrane  ZVDH- Produktdatenblatt  Temporary roof covering; suitable as  ZVDH  yes	Elongation MD/CD	EN 13859-1 (A)	20 % / 20 %
*) Durability after artificial ageing EN 1297 / EN 1296 passed  Flexibility at low temperature EN 1109 -40 °C; -40 °F  Temperature resistance permanent -40 °C to 100 °C; -40 °F to 212 °F  Thermal conductivity 0.04 W/(m·K); 0.3 BTU·in/(h·ft²-F)  Sarking membrane/roof lining membrane ZVDH-Produktdatenblatt  Temporary roof covering; suitable as ZVDH yes	Elongation MD/CD aged*	EN 13859-1 (A)	20 % / 20 %
Flexibility at low temperature EN 1109 -40 °C; -40 °F  Temperature resistance per to 100 °C; -40 °F  Thermal conductivity 0.04 W/(m·K); 0.3 BTU·in/(h·ft²-F)  Sarking membrane/roof lining membrane ZVDH-Produktdatenblatt  Temporary roof covering; suitable as ZVDH yes	Nail tear resistance MD/CD	EN 13859-1 (B)	300 N / 300 N ; 67 lbf / 67 lbf
Temperature resistance permanent -40 °C to 100 °C; -40 °F to 212 °F  Thermal conductivity 0.04 W/(m·K); 0.3 BTU·in/(h·ft²-F)  Sarking membrane/roof lining membrane ZVDH-Produktdatenblatt Produktdatenblatt ZVDH yes	*) Durability after artificial ageing	EN 1297 / EN 1296	passed
Thermal conductivity  Cond W/(m·K); 0.3 BTU·in/ (h·ft²-F)  Sarking membrane/roof lining membrane  ZVDH- Produktdatenblatt  Temporary roof covering; suitable as  ZVDH  yes	Flexibility at low temperature	EN 1109	-40 °C ; -40 °F
Sarking membrane/roof lining membrane ZVDH-Produktdatenblatt ZVDH yes  Temporary roof covering; suitable as ZVDH yes	Temperature resistance		
Produktdatenblatt  Temporary roof covering; suitable as ZVDH yes	Thermal conductivity		
temporary recorded and the second sec	Sarking membrane/roof lining membrane		USB-A / UDB-A
CE labelling EN 13859-1 yes	Temporary roof covering; suitable as	ZVDH	yes
	CE labelling	EN 13859-1	yes

# **Application**

For use as permeable roof underlay on roof decking, MDF and wood fibre underlay panels, and on all thermal insulation materials, including blown-in insulation materials.

The information provided here is based on practical experience and the current state of knowledge. We reserve the right to make changes to the recommended designs and processing or to make alterations due to technical developments and associated improvements in the quality of our products. We would be happy to inform you of the current technical state of the art at the time you use our products.

Further information about the application and construction can be found in the pro clima planning documentation. For queries please call the pro clima technical hotline on +49 (0)6202 278245.

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# **Advantages**

- Extremely robust thanks to reinforcement: suitable for blown-in insulation materials
- Flexible planning of construction schedules thanks to 4 months of outdoor exposure
- Ensures reliable building components: highly diffusion-open and maximum protection against driving rain
- Dry building components: pore-free TEEE functional membrane actively transports moisture to the outside
- Permanent protection thanks to the high resistance to ageing and heat of the TEEE membrane
- Reliable during the construction phase: suitable for temporary coverings during construction work

### General conditions

SOLITEX MENTO membranes should be laid with the printed side facing the installer. The membranes are to be installed as an underlay or sarking membrane horizontally (parallel to the eave) in a taut manner with no sagging. When using as a sarking membrane the spacing between the rafters is restricted to 1 m (3 ft).

pro clima's Engineering Hotline or your local pro clima partner will be glad to provide information on how to proceed in the case of larger spacings.

The membrane must not be secured in areas where water collectively drains off (e.g. in grooves).

In the case of uninsulated, undeveloped attic floors, ridge ventilation should be provided. For this purpose, the SOLITEX membrane should finish 5 cm (2") before the ridge. In addition, the undeveloped attic floor should be provided with permanent ventilation devices. The membrane should be protected against the long-term effect of UV (e.g. by blocking the entrance of light through the windows).

To protect the construction during the building SOLITEX MENTO PLUS can be used as a temporary roof cover for up to 4 months (the recommendations for specific locations may differ). In this case the roof pitch must be at least 14°.

The system components TESCON NAIDECK nail sealing tape, ORCON F joint adhesive and TESCON VANA for sticking overlaps or joints must be used. The connect versions have two self-adhesive zones for secure exterior sealing. The applicable national regulations must be taken into account when installing and sticking pro clima underlay membranes.

According to the technical regulations of the roofing trade association, they are suitable as a sarking membrane for covering a tiled roof with simple overlapping as an additional protective measure against rain. When using as a roof lining membrane with simple overlapping on a timber shell, the SOLITEX MENTO membranes are also suitable at elevated requirements as an additional protective measure against rain.

### Additionally for injected foam insulation

SOLITEX MENTO PLUS can also be used as a boundary layer for blown-in insulation materials of all types. A reinforcement structure ensures that there is little expansion during the blowing-in process.

It is recommended to use nail sealing underneath counter battens (e.g. TESCON NAIDECK).

The battens must already be fitted before the blowing-in process takes place. A protruding lath must be fitted on the supporting battens in the centre of the space between the rafters so that moisture occurring under the covering can mainly be drained off centrally between the rafters. This protruding lath should be at least 1 cm thicker than the counter battens. It limits the bulging of the membranes during the blowing-in process and ensures the necessary cross-sectional area for ventilation.

If the insulation material is blown in from the outside, the blow-in holes can subsequently be stuck using TESCON VANA with a width of 15 cm.







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