



BENOR

BCCA

# BENOR CERTIFICATE

issued on the basis of the provisions of the Implementation Rules for BENOR certification of thermoplastic pipes and accessories, TRA BB 651, to the company

## Martens kunststoffen

Statendamweg 75 – 77, NL - 4905 AD Oosterhout, Error! Reference source not found.

for the production of

**PVC-fittings for non-pressure underground drainage and sewerage, fitting group 1 (bends), 2 (branches) and 3 (other), size group 1 (110-200mm), stiffness class SN2, SN4 and SN8**

manufactured in the production unit

## Martens kunststoffen

Statendamweg 75 – 77, NL - 4905 AD Oosterhout,

in accordance with the

**NBN EN 1401-1:2019 “Plastics piping systems for non-pressure underground drainage and sewerage - Unplasticized poly(vinyl chloride) (PVC-U)” and the PTV 1005:2021**

By issuing the certificate, BCCA declares that, on the basis of (I) the initial assessment of the product characteristics by means of testing; (II) the initial evaluation and acceptance of the quality assurance in production; (III) the regular external control of the implementation of the quality assurance processes and the control schemes agreed upon; (IV) regular control tests in a recognised external laboratory, sufficient confidence can be given to the measures taken by the certificate holder for guaranteeing conformity with the prescriptions.

The annex to this certificate gives the data with regard to the certified product. This document is an annex to the certificate and is authenticated by BCCA.

Following the issuing of this certificate and as long as it is maintained valid, BCCA grants the right to use the BENOR mark to the certificate holder. The proof of delivery of a product under the BENOR mark is given by a suitable identification on the product. The use of the BENOR mark does not relieve the certificate holder of his responsibilities with regard to the delivered product.

The validity of this certificate can be checked via [www.bcca.be](http://www.bcca.be).

**N° certificate BB-651-658-1401.C1-2-3D1-658-2592 | Valid from 2023-03-01 until 2026-02-28**

Issued in Brussels, on 6 March 2023.

**ir. Benny DE BLAERE**  
President of the General management  
Committee for Certification & Approval

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**BELGIAN CONSTRUCTION CERTIFICATION ASSOCIATION NPO**  
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**Annex to the BENOR Certificate**  
BB-651-658-1401.C1-2-3D1-658-2592

**PVC-fittings for non-pressure underground drainage and sewerage, fitting group 1 (bends), 2 (branches) and 3 (other), size group 1 (110-200mm), stiffness class SN2, SN4 and SN8**


Version 1 of 7 March 2023

PVC-fittings					
TYPES WHICH ARE PART OF THIS CERTIFICATE					
<ul style="list-style-type: none"> <li>- Color: red-brown (RAL 8023) – grey (RAL 7037)</li> <li>- Connections: socket/spigot<sup>1</sup> – 2xsocket<sup>2</sup> – 2xsocket/spigot<sup>3</sup> – 3xsocket<sup>4</sup></li> <li>- Fitting group 1: Flex<sup>5</sup></li> <li>- Fitting group 2: T-piece flow<sup>6</sup> – double T-piece<sup>7</sup></li> <li>- Fitting group 3: slide sleeve<sup>8</sup> – socket<sup>9</sup> – reduction<sup>10</sup> – end stop socket end<sup>11</sup> – end stop screw lid<sup>12</sup></li> <li>- SN4<sup>13</sup> – SN8<sup>14</sup></li> </ul>					
<b><u>Fitting group 1 (bends)</u></b>					
<b><u>Size group 1:</u></b>					
	<u>Angle</u>				
<u>Diameter (mm)</u>	<u>15°</u>	<u>30°</u>	<u>45°</u>	<u>87°</u>	<u>90°</u>
110	-	-	X <sup>1,2,13</sup>	X <sup>2,13</sup>	X <sup>1,2,13</sup>
125	X <sup>1,13</sup>	X <sup>1,13</sup>	X <sup>1,2,13,14</sup>	X <sup>1,2,13,14</sup>	X <sup>1,2,5,13,14</sup>
160	X <sup>1,2,13,14</sup>	X <sup>1,2,13,14</sup>	X <sup>1,2,13,14</sup>	X <sup>1,2,13,14</sup>	X <sup>1,2,13,14</sup>
200	X <sup>1,2,13</sup>	X <sup>1,2,13</sup>	X <sup>1,2,13,14</sup>	X <sup>1(13),2(13,14)</sup>	X <sup>1(13),2(13,14)</sup>
<b><u>Fitting group 2 (branches)</u></b>					
<b><u>Size group 1:</u></b>					
	<u>Diameter 2 (mm)</u>				
<u>Diameter (mm)</u>	<u>110</u>	<u>125</u>	<u>160</u>	<u>200</u>	
110	45 <sup>°3,4,13</sup> /87 <sup>°3,4,13</sup> /90 <sup>°3,4,7,13</sup>	-	-	-	
125	45 <sup>°3,4,13</sup> /87 <sup>°4,13</sup>	-	-	-	
125	-	45 <sup>°3,4,13,14</sup> /87 <sup>°3,4,13,14</sup> /90 <sup>°3,4,13,14,(7,6(13,14))</sup>	-	-	
160	-	-	45 <sup>°13((3,4),7),14(4)</sup> /87 <sup>°13((3,4),7),14(4)</sup> /90 <sup>°13(3),6(14)</sup>	-	
160	45 <sup>°4,13</sup> /87 <sup>°4,13</sup>	-	-	-	
160	-	45 <sup>°3(13),4(13,14)</sup> /87 <sup>°13(3,4),14(4)</sup>	-	-	
200	-	-	-	45 <sup>°13(3,4),14(4)</sup> /87 <sup>°13(3,4),14(4)</sup> /90 <sup>°13(3)</sup>	
200	45 <sup>°13(4)</sup> /87 <sup>°13(4)</sup>	-	-	-	
200	-	45 <sup>°4(13,14)</sup> /87 <sup>°4(13,14)</sup>	-	-	
200	-	-	45 <sup>°4(13,14)</sup> /87 <sup>°4(13,14)</sup>	-	
<b><u>Fitting group 3 (others: reductions, sockets,...)</u></b>					
<b><u>Size group 1:</u></b>					

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Diameter 1 (mm)	Diameter 2 (mm)				
	<u>75</u>	<u>110</u>	<u>125</u>	<u>160</u>	<u>200</u>
110	-	X <sup>(13,14,8,9)</sup>	-	-	-
110	-	-	X <sup>10,13</sup>	-	-
110	-	-	-	X <sup>10,13</sup>	-
125	45 <sup>o3,13</sup> /87 <sup>o3,13</sup>	-	-	-	-
125	-	-	X <sup>(13,14,8,9)</sup>	-	-
125	-	-	-	X <sup>10,13</sup>	-
125	-	-	-	-	X <sup>10,13</sup>
160	-	-	-	X <sup>(13,14,8,9),11,12</sup>	-
160	-	-	-	-	X <sup>10,14</sup>
200	-	-	-	-	X <sup>(13,14,8,9)</sup>

Marking (example):	<p>Martens EN1401 UD*</p> <p>PVC – diameter – angle –socket type- stiffness class – SDR class</p> <p>Production year (clock) – BENOR</p>  <p>*UD: Application area code for non-pressure underground sewerage both underground inside the building construction as outside the building</p>
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This annex is valid as long as the BENOR certificate remains valid.

Issued in Brussels, on 6 March 2023.



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