

# **DÉCLARATION DE PERFORMANCES N° SIG 13 B**

Code identique du produit: SIG13B

<u>Utilisation prévue</u>: Panneaux pour les panneaux de signalisation verticaux à plan d'image rétro-réfléchissant, Classe 2 High Intensity.

#### Fabricant:

Signco BV Jozef De Blockstraat 74 2830 Willebroek

## Le système d'évaluation et de vérification de la conformité des performances:

L'organisme notifié **PROCERTUS CE 0965** a exécuté les tâches selon le système 1 et a émis le certificat de constance des performances **0965-CPR-12899/2935**, le certificat de conformité du contrôle de la production en usine et les rapports sur les tests et les calculs.

Les performances indiquées des produits sont repris dans le tableau ci-dessous, selon les spécifications techniques harmonisées de la NBN EN 12899-1:2007.

Caractéristiques essentielles	Performances	Spécifications techniques harmonisées
Résistance aux charges hor	izontales	<u>.</u>
Éléments de fixation	Conforme	NBN EN 12899-1:2007
Actions du vent	WL4	NBN EN 12899-1:2007
Déformation temporaire : flexion	TDB5	NBN EN 12899-1:2007
Actions suite au déneigement	NPD	NBN EN 12899-1:2007
Charge concentrée	PL2	NBN EN 12899-1:2007
Déformation permanente	Conforme	NBN EN 12899-1:2007
Coefficient partiel de sécurité	PAF 1	NBN EN 12899-1:2007
Caractéristiques visuelles	•	
P	anneaux rétro-réfléchiss	ants
Coordonnées colorimétriques à la lumière du jour & indice de luminance	Tableau 1.2 (annexe)	ETA 18-0290 ETA 17-0491 EAD 120001-01-0106:2016
Coefficient rétro- réfléchissant	Tableau A.1 et Annex 1 (annexe)	ETA 18-0290 ETA 17-0491 EAD 120001-01-0106:2016
Durabilité		·
Résistance à	l'altération du matériel du	plan de l'image
Coordonnées colorimétriques à la lumière du jour & indice de luminance	Tableau 1.3 (annexe)	ETA 18-0290 ETA 17-0491 EAD 120001-01-0106:2016
Coefficient rétro- réfléchissant	>80% du Tableau A.1 et Annex 1 (annexe)	ETA 18-0290 ETA 17-0491 EAD 120001-01-0106:2016

Résistance à la	Aluminium SP2	NBN EN 12899-1:2007
corrosion		
Résistance aux chocs	Conforme	NBN EN 12899-1:2007
	NPD: "no performance declared	"

Les performances du produit mentionné ci-dessus sont conformes aux performances déclarées. Conformément au règlement (UE) n° 305/2011, cette déclaration de performance est faite sous la seule responsabilité du fabricant nommé ci-dessus.

Signé pour et au nom du fabricant par:

Signco BV Friso Haerens, Direct général Jozef De Blockstraat 74 2830 Willebroek

À Willebroek, le 1 mai 2024

## Annexe:

## ETA 18-290:

Marketon (			Chromaticity	Coordinates		Luminance Factor B
Colours		1	2	3	4	
White	х	0.305	0.335	0.325	0.295	≥0.27
Tolerance Sphere*	У	0.315	0.345	0.355	0.325	2 0.27
Yellow	x	0.494	0.470	0.513	0.545	>0.16
Tolerance Sphere*	У	0.505	0.480	0.437	0.454	2 U. 16
Red	x	0.735	0.700	0.610	0.660	≥0.03
Tolerance Sphere*	У	0.265	0.250	0.340	0.340	≥0.03
Red on Yellow	х	0.735	0.700	0.610	0.660	≥0.03
Tolerance Sphere*	У	0.265	0.250	0.340	0.340	20.03
Blue	х	0.130	0.160	0.160	0.130	>0.01
Tolerance Sphere*	У	0.090	0.090	0.140	0.140	≥0.01
Green	х	0.110	0.170	0.170	0.110	>0.02
Tolerance Sphere*	У	0.415	0.415	0.500	0.500	≥0.03
Orange	х	0.631	0.560	0.506	0.570	≥0.14
Tolerance Sphere	У	0.369	0.360	0.404	0.429	≥0.14
Brown	x	0.455	0.523	0.479	0.558	0.03-0.09
Tolerance Sphere*	У	0.397	0.429	0.373	0.394	0.03-0.07
Grey	х	0.305	0.335	0.325	0.295	0.11-0.18
Tolerance Sphere*	У	0.315	0.345	0.355	0.325	0.11-0.18
Dark Green	х	0.313	0.313	0.248	0.127	0.01-0.07
Tolerance Sphere	У	0.682	0.453	0.409	0.557	0.01-0.07
* Chromaticity Coordinates are similar to EN 1289	9-1:2	007 Class CR2				

Table 1.2: Manufacturer's specification for initial daylight chromaticity and luminance factor

Colours		Ch	romaticity	Coordinat	es	Luminance Factor B
Colours		- 1	2	3	4	Luminance Factor is
White Tolerance Sphere*	x y	0.355 0.355	0.305 0.305	0.285 0.325	0.335 0.375	≥0.27
Yellow	х	0.545	0.487	0.427	0.465	≥0.16
Tolerance Sphere* Red	x	0.454	0.423	0.483	0.534 0.655	≥0.03
Tolerance Sphere* Red on Yellow	y x	0.265 0.735	0.236	0.341	0.345 0.655	
Tolerance Sphere*	у	0.265	0.236	0.341	0.345	≥0.03
Tolerance Sphere*	y	0.171	0.220	0.160	0.038	≥0.01
Green Tolerance Sphere*	x y	0.007 0.703	0.248 0.409	0.177 0.362	0.026 0.399	≥0.03
Orange Tolerance Sphere	X V	0.631 0.369	0.560 0.360	0.506 0.404	0.570 0.429	≥0.14
Brown Tolerance Sphere*	×	0.455 0.397	0.523 0.429	0.479 0.373	0.558 0.394	0.03-0.09
Grey Tolerance Sphere*	x	0.350	0.300 0.310	0.285 0.325	0.335 0.375	0.11-0.18
Dark Green	x	0.313	0.313 0.453	0.248	0.127 0.557	0.01-0.07

Table 1.3: Manufacturer's specification for daylight chromaticity and luminance factor 'in-use'

	metry of surement					Colour				
α	$\beta_1 (\beta_2 = 0)$	White	Yellow	Red	Green	Dark Green	Blue	Brown	Orange	Grey
12'	+5°	250	170	45	45	20	20	12	100	125
	+30°	150	100	25	25	15	11	8.5	60	75
	+40°	110	70	15	12	6	8	5.0	29	55
20'	+5°	180	120	25	21	14	14	8	65	90
	+30°	100	70	14	12	11	8	5	40	50
	+40°	95	60	13	11	5	7	3	20	47
2°	+5°	5	3	1	0.5	0.5	0.2	0.2	1.5	2.5
	+30°	2.5	1.5	0.4	0.3	0.3	#	#	1	1.2
	+40°	1.5	1.0	0.3	0.2	0.2	#	#	#	0.7

<sup>#</sup> Indicates "Value greater than zero but not significant or applicable"

NOTE Coloured areas of signs created by digital or screen printing or using overlay film will need to meet 70% of the values in the table

## ETA 17-0491:

			Chromaticity	Coordinates		Luminance Factor 6
Colours		1	2	3	4	
White	х	0.305	0.335	0.325	0.295	≥ 0.40
Tolerance Sphere*	у	0.315	0.345	0.355	0.325	≥0.40
Yellow	х	0.494	0.470	0.513	0.545	≥0.24
Tolerance Sphere*	у	0.505	0.480	0.437	0.454	≥ 0.24
Red	х	0.735	0.700	0.610	0.660	≥0.03
Tolerance Sphere*	у	0.265	0.250	0.340	0.340	≥0.03
Red on Yellow	х	0.735	0.700	0.610	0.660	≥0.03
Tolerance Sphere*	у	0.265	0.250	0.340	0.340	≥0.03
Blue	х	0.130	0.160	0.160	0.130	≥0.01
Tolerance Sphere*	у	0.090	0.090	0.140	0.140	20.01
Green	х	0.110	0.170	0.170	0.110	≥0.03
Tolerance Sphere*	у	0.415	0.415	0.500	0.500	≥0.03
Orange	х	0.631	0.560	0.506	0.570	≥0.14
Tolerance Sphere*	У	0.369	0.360	0.404	0.429	20.14
Brown	х	0.455	0.523	0.479	0.558	0.03-0.09
Tolerance Sphere*	У	0.397	0.429	0.373	0.394	0.00 0.07
Grey	х	0.305	0.335	0.325	0.295	0.11-0.18
Tolerance Sphere*	у	0.315	0.345	0.355	0.325	0.11-0.16
Dark Green	х	0.313	0.313	0.248	0.127	0.01-0.07
Tolerance Sphere*	У	0.682	0.453	0.409	0.557	0.01-0.07

Table 1.2: Manufacturer's specification for initial daylight chromaticity and luminance factor

Colours		Ch	romaticity (	Coordinat	es	Luminana Fasta O
Colours		1	2	3	4	Luminance Factor B
White	х	0.355	0.305	0.285	0.335	> 0.40
Tolerance Sphere*	У	0.355	0.305	0.325	0.375	≥0.40
Yellow	х	0.545	0.487	0.427	0.465	>0.24
Tolerance Sphere*	У	0.454	0.423	0.483	0.534	≥0.24
Red	X	0.735	0.674	0.569	0.655	≥0.03
Tolerance Sphere*	У	0.265	0.236	0.341	0.345	2 0.03
Red on Yellow	x	0.735	0.700	0.610	0.660	≥0.03
Tolerance Sphere*	У	0.265	0.250	0.340	0.340	≥0.03
Blue	х	0.078	0.150	0.210	0.137	≥0.01
Tolerance Sphere*	У	0.171	0.220	0.160	0.038	≥0.01
Green	X	0.007	0.248	0.177	0.026	≥0.03
Tolerance Sphere*	У	0.703	0.409	0.362	0.399	≥ 0.03
Orange	X	0.631	0.560	0.506	0.570	≥0.14
Tolerance Sphere*	У	0.369	0.360	0.404	0.429	20.14
Brown	X	0.455	0.523	0.479	0.558	0.03-0.09
Tolerance Sphere*	У	0.397	0.429	0.373	0.394	0.03-0.07
Grey	X	0.350	0.300	0.285	0.335	0.11-0.18
Tolerance Sphere*	У	0.360	0.310	0.325	0.375	0.11-0.16
Dark Green	x	0.313	0.313	0.248	0.127	0.01-0.07
Tolerance Sphere*	l v	0.682	0.453	0.409	0.557	0.01-0.07

Table 1.3: Manufacturer's specification for daylight chromaticity and luminance factor 'in-use'

Annex 1: 3M™ High Intensity Prismatic Digital Sheeting 3930DS + 3M™ Piezo Inkjet Ink + 3M™ Protective Overlay Film 1170

Daylight Chromaticity and Luminance Factor, initial and after accelerated artificial weathering

#### 1.1 Daylight Chromaticity and Luminance Factor, initial

Colours			Chromaticity	Coordinates		Luminance Factor B
33,33,3		1	2	3	4	
White	x	0.305	0.335	0.325	0.295	≥0.40
Tolerance Sphere	y x	0.315	<b>0.345</b> 0.3	0.355	0.325	
White Sample 1	y		0.3			0.44
White Sample 2	х		0.3			0.43
Wille Sample 1	у		0.3			0.40
White Sample 3	х У		0.3	315 333		0.44
Yellow	х	0.494	0.470	0.513	0.545	≥0.24
Tolerance Sphere	y x	0.505	0.480	0.437	0.454	
Yellow Sample 1	y		0.4			0.28
Yellow Sample 2	х		0,4			0.28
	y x		0,4			-,
Yellow Sample 3	y		0,4			0,27
Red	x	0.735	0.700	0.610	0.660	≥0.03
Tolerance Sphere	у	0.265	0.250	0.340	0.340	20.00
Red Sample 1	x y		0.6			0.07
Red Sample 2	x		0.6	25		0.07
ked sample 2	у			32		0.07
Red Sample 3	x y		0.6			0.07
Blue	x	0.130	0.160	0.160	0.130	≥0.01
Tolerance Sphere	у	0.090	0.090	0.140	0.140	≥0.01
Blue Sample 1	x y		0.1			0.04
	X		0.1			
Blue Sample 2	у		0.1			0.06
Blue Sample 3	x y		0.1			0.05
Green	x	0.110	0.170	0.170	0.110	≥0.03
Tolerance Sphere	у	0.415	0.415	0.500	0.500	≥ 0.03
Green Sample 1	x v		0.1			0.06
Conce Sample 0	x		0.1			0.05
Green Sample 2	у			76		0.05
Green Sample 3	х У		0.1			0.06
Orange	y X	0.631	0.560	0.506	0.570	3014
Tolerance Sphere	у	0.369	0.360	0.404	0.429	≥0.14
Orange Sample 1	х У		0.5 0.4			0.16
Orange Sample 2	х			44		0.15
	y x		0.4			<del>                                     </del>
Orange Sample 3	y		0.3			0.16

Colours			Chromaticity	Coordinates		Luminance Factor B
Colours		1	2	3	4	
Brown Tolerance Sphere	x y	0.455 0.397	0.523 0.429	0.479 0.373	0.558 0.394	0.03-0.09
Brown Sample 1	х у			524 402		0.05
Brown Sample 2	х У			515 396		0,05
Brown Sample 3	х У		-,-	523 394		0,04
Grey Tolerance Sphere	x y	0.305 0.315	0.335 0.345	0.325 0.355	0.295 0.325	0.11-0.18
Grey Sample 1	х У			321 336		0.16
Grey Sample 2	х У			321 336		0.15
Grey Sample 3	х У			323 338		0.14
Dark Green Tolerance Sphere	x y	0.313 0.682	0.313 0.453	0.248 0.409	0.127 0.557	0.01-0.07
Dark Green Sample 1	х у			233 501		0.06
Dark Green Sample 2	х У			212 561		0.06
Dark Green Sample 3	х У			250 535		0.05

#### 1.2 Daylight Chromaticity and Luminance Factor, after accelerated artificial weathering

Numire   Numire
Tolerance Sphere
White Sample 1         y         0.333         0.45           White Sample 2         x         0.317         0.45           White Sample 3         x         0.316         0.45           Yellow         x         0.545         0.487         0.427         0.465         ≥0.24           Yellow Sample 1         x         0.454         0.423         0.483         0.534         ≥0.24           Yellow Sample 1         x         0.476         0.427         0.29         0.474         0.29           Yellow Sample 2         x         0.474         0.29         0.474         0.28           Yellow Sample 3         x         0.474         0.28         0.28           Red         x         0.735         0.674         0.569         0.655         0.03           Red Sample 3         x         0.615         0.341         0.345         ≥0.03           Red Sample 1         x         0.601         0.332         0.07           Red Sample 2         x         0.601         0.007         0.007           Red Sample 3         x         0.601         0.007         0.007           Blue Sample 3         x         0.078         0.149
White Sample 3         x         0.335         0.45           Yellow Tolerance Sphere         x         0.545         0.487         0.427         0.445         ≥0.24           Yellow Sample 1         x         0.454         0.423         0.483         0.534         ≥0.24           Yellow Sample 1         x         0.476         0.423         0.483         0.534         ≥0.24           Yellow Sample 2         x         0.476         0.474         0.28           Yellow Sample 3         x         0.474         0.28           Yellow Sample 3         x         0.474         0.28           Red         x         0.735         0.674         0.569         0.655         ≥0.03           Red Sample 3         x         0.615         0.341         0.345         ≥0.03           Red Sample 2         x         0.619         0.332         0.07           Red Sample 3         x         0.619         0.334         0.06           Blue Sample 3         x         0.078         0.150         0.210         0.137         ≥0.01           Blue Sample 1         x         0.078         0.152         0.04           Blue Sample 3         x
White Sample 3       X       0.316 0.333       0.427 0.465       0.45         Yellow Tolerance Sphere       X       0.545 y 0.454       0.423 0.483 0.534       20.24         Yellow Sample 1       X       0.454 0.423 0.483 0.534       20.24         Yellow Sample 1       X       0.476 0.474 0.29       0.29         Yellow Sample 2       X       0.467 0.474 0.28       0.28         Yellow Sample 3       X       0.474 0.474 0.28       0.28         Red Tolerance Sphere       X       0.735 0.674 0.567 0.455 0.341 0.345       0.20 0.341 0.345       20.03         Red Sample 1       X       0.601 0.332 0.07       0.07       0.07         Red Sample 2       X       0.601 0.333 0.07       0.07         Red Sample 3       X       0.070 0.334 0.00       0.007         Blue Sample 1       X       0.078 0.150 0.160 0.038 0.038 0.038 0.038 0.04       20.01         Blue Sample 2       X       0.149 0.151 0.006 0.008 0.009 0.000 0
Yellow Tolerance Sphere         x y 0.545 y 0.487 0.427 0.483 0.534         ≥0.24           Yellow Sample 1         x y 0.454 0.423 0.483 0.534         ≥0.24           Yellow Sample 2         x 0.474 0.474 0.28         0.29           Yellow Sample 3         x 0.474 0.474 0.474 0.479         0.28           Yellow Sample 3         x 0.735 y 0.474 0.479 0.479         0.28           Red 70lerance Sphere         x 0.735 y 0.245 0.234 0.341 0.345         ≥0.03           Red Sample 1         x 0.601 y 0.332 0.07         0.07           Red Sample 2         x 0.601 y 0.333 0.007         0.07           Red Sample 3         x 0.619 y 0.334 0.006         0.06           Blue Tolerance Sphere         x 0.078 y 0.171 0.220 0.160 0.038 0.008         ≥0.01           Blue Sample 1         x 0.145 0.152 0.04         0.04           Blue Sample 3         x 0.142 0.151 0.06         0.06           Blue Sample 3         x 0.142 0.137 0.06         0.06           Blue Sample 3         x 0.142 0.137 0.026 0.399 0.03         ≥0.03           Green Sample 4         0.007 0.007 0.048 0.177 0.026 0.399 0.03         ≥0.03           Green Sample 1         x 0.007 0.007 0.009 0
Yellow Sample 1  Yellow Sample 2  Yellow Sample 2  Yellow Sample 3  X  O.474  O.28  Yellow Sample 3  X  O.474  O.28  Red  X  O.479  O.28  Red  X  O.479  O.28  Red Sample 1  X  O.28  Red Sample 1  X  O.28  Red Sample 1  X  O.345  O.341  O.345  O.341  O.345  O.375  O.615  V  O.332  O.07  Red Sample 2  X  O.601  V  O.333  Red Sample 3  X  O.601  V  O.333  O.07  Red Sample 3  X  O.619  V  O.333  O.07  Red Sample 3  X  O.619  O.06  Biue Sample 1  X  O.145  O.145  O.04  Biue Sample 2  X  O.149  O.151  O.06  Biue Sample 3  X  O.149  O.05  Green  Tolerance Sphere
Yellow Sample 2         y         0.474         0.28           Yellow Sample 3         x         0.474         0.28           Red         x         0.735         0.674         0.569         0.655           Tolerance Sphere         y         0.285         0.234         0.341         0.345         20.03           Red Sample 1         x         0.601         0.332         0.07         0.07           Red Sample 2         x         0.601         0.007         0.007           Red Sample 3         x         0.619         0.006         0.006           Biue         x         0.078         0.150         0.210         0.137         20.01           Biue Sample 1         x         0.142         0.05         0.04         0.06           Biue Sample 2         x         0.149         0.06         0.06           Biue Sample 3         x         0.149         0.05         0.05           Green         0.007         0.248         0.177         0.026         0.09           Green Tolerance Sphere         0.007         0.248         0.174         0.06         0.09
Yellow Sample 3       x y 0.474 0.479       0.28         Red Tolerance Sphere       x 0.735 0.265       0.674 0.569 0.345       0.655 20.03         Red Sample 1       x 0.601 0.332 0.07       0.007         Red Sample 2       x 0.601 0.333 0.07       0.007         Red Sample 3       x 0.619 0.334 0.00       0.007         Blue Tolerance Sphere       x 0.078 0.150 0.210 0.137 0.038 20.01       20.01         Blue Sample 1       x 0.145 0.152 0.152 0.04       0.04         Blue Sample 2       x 0.149 0.151 0.05       0.006         Blue Sample 3       x 0.149 0.151 0.05       0.006         Blue Sample 3       x 0.149 0.151 0.05       0.006         Blue Sample 3       x 0.149 0.151 0.05       0.005         Green Tolerance Sphere       0.007 0.248 0.177 0.026 0.399 0.362 0.399       ≥0.03         Green Sample 1       x 0.007 0.248 0.409 0.362 0.399       0.362 0.399
Red Tolerance Sphere         x 0.735 y 0.265         0.674 0.341         0.569 0.341         0.655 0.345         ≥0.03           Red Sample 1         x 0.615 y 0.332         0.601 0.332         0.07           Red Sample 2         x 0.601 y 0.333         0.07           Red Sample 3         x 0.619 y 0.334         0.06           Blue Tolerance Sphere         x 0.078 y 0.150 0.210 0.137 0.200 0.160 0.038         ≥0.01           Blue Sample 1         x 0.145 0.152 0.04         0.04           Blue Sample 2         x 0.145 0.151 0.06         0.06           Blue Sample 3         x 0.142 0.151 0.05         0.05           Green Tolerance Sphere         0.007 0.248 0.177 0.026 0.362 0.399         ≥0.03           Green Tolerance Sphere         0.007 0.703 0.409 0.362 0.399         ≥0.03
Red Sample 1       x y 0.615 0.332       0.07         Red Sample 2       x 0.601 0.333       0.07         Red Sample 3       x 0.619 0.334       0.06         Biue 7 Tolerance Sphere       x 0.078 0.150 0.210 0.137 0.220 0.160 0.038       ≥0.01         Biue Sample 1       x 0.145 0.152 0.04       0.04         Biue Sample 2       x 0.149 0.151 0.06       0.06         Biue Sample 3       x 0.142 0.151 0.05       0.05         Green Tolerance Sphere       0.007 0.248 0.177 0.024 0.362 0.399 0.362 0.399       ≥0.03         Green Sample 1       x 0.174 0.066       0.074 0.362 0.399       ≥0.03
Red Sample 2     y     0.333     0.07       Red Sample 3     x     0.619     0.06       Blue     x     0.078     0.150     0.210     0.137       Tolerance Sphere     y     0.171     0.220     0.140     0.038       Blue Sample 1     x     0.145     0.04       Blue Sample 2     x     0.149     0.06       Blue Sample 3     x     0.142     0.05       Green     0.007     0.248     0.177     0.026       Tolerance Sphere     0.703     0.409     0.362     0.399       Green Sample 1     x     0.174     0.06
Red Sample 3     X     0.619     0.06       Blue     X     0.078     0.150     0.210     0.137     ≥0.01       Tolerance Sphere     Y     0.171     0.220     0.160     0.038     ≥0.01       Blue Sample 1     X     0.145     0.04       Blue Sample 2     X     0.149     0.06       Blue Sample 3     X     0.142     0.05       Green     0.007     0.248     0.177     0.026       Tolerance Sphere     0.007     0.248     0.177     0.026       Green Sample 1     X     0.174     0.06
Blue   X   0.078   0.150   0.210   0.137   20.01     Blue Sample 1
Blue Sample 1
Blue Sample 2   X   0.149   0.06
Bive Sample 3     X     0.142 0.137     0.05       Green Tolerance Sphere     0.007 0.248 0.177 0.026 0.362 0.399     0.03       Green Sample 1     X     0.174     0.06
Green 0.007 0.248 0.177 0.026 0.703 0.409 0.362 0.399 ≥0.03 0.005 0.174 0.006
Green Sample 1 x 0.174 0.06
Green Sample 2 X 0.174 0.459 0.06
Green Sample 3 X 0.170 0.07
Orange         X         0.631         0.560         0.506         0.570           Tolerance Sphere         Y         0.369         0.360         0.404         0.429
Orange Sample 1 X 0.535 0.406 0.16
Orange Sample 2 X 0.529 0.16
Orange Sample 3 X 0.525 0.16
Brown x 0.455 0.523 0.479 0.558 0.03-0.09 0.397 0.429 0.373 0.394 0.03-0.09
Brown Sample 1 x 0.509 0.400 0.06
8rown Sample 2 X 0.494 0.06 V 0.395
8rown Sample 3 x 0.506 0.05 y 0.397
Grey X 0.350 0.300 0.285 0.335 0.11-0.18 Tolerance Sphere y 0.340 0.310 0.325 0.375
Grey Sample 1 0.321 0.18
x 0.321