Technical criteria EYEWEAR

1. Resource extraction

Appearance: Raw materials

Description: Use of sustainable raw materials and to which a circular economy logic is applied

The following criterion applies only to spectacles containing wood and cork The criterion must be applied separately for front and rods			
Criterion 1	FSC/PEFC certification for glasses		
How to measure	The criterion is fulfilled if the materials are certified.		
Thresholds	Gold' level threshold	Silver' level threshold	Bronze' level threshold
	Yes	Yes	Yes
How it occurs	The company must provide proof of the certifications issued by the supplier.		

The following three criteria are alternative to each other: If of different material, the criterion must be applied separately for front and rods				
Criterion 2A	Percentage of recycled material in the glasses			
How to measure	Summation for each component (front panel + rods) of the percentage of recycled content of each component by the weight of the component, compared to the total weight of rods and front panel % recycled material = $\sum \frac{\% \text{ recycled material} \times \text{ component weight}}{\text{front weight} + \text{ rods weight}}$			
Thresholds	Gold' level threshold	Silver' level threshold	Bronze' level threshold	
	> 90%	> 75%	> 50%	
How it occurs	The company must provide evidence of how the calculation was applied and how the quantities were measured. The content of recycled materials must be demonstrated in the following ways: GRS certification Self-declaration according to ISO 14021 Other equivalent documentation to be assessed by the verifier The verifier may proceed with the weighing of individual components and of rods and fronts to verify the calculations.			
Criterion 2B	Percentage of material of biogenic origin in the glasses			
How to measure	The criterion is measured by calculating the sum for each component (front panel + rods) of the percentage of biogenic material content of each component times the weight of the component, compared to the total weight of rods and front panel % biogenic material = $\sum \frac{\% \text{ biogenic material} \times \text{ component weight}}{front \text{ weight} + rods \text{ weight}}$			
Thursdaylda	Gold' level threshold	Silver' level threshold	Bronze' level threshold	
Thresholds	> 50%	> 40%	> 30%	
How it occurs	 The company must present the calculation made according to the formula above ("How is it measured"). The content of materials of biogenic origin must be demonstrated in the following ways: ISCC REDcert Other equivalent documentation to be assessed by the verifier The verifier may proceed with the weighing of individual components and of rods and fronts to verify the calculations. 			

Criterion 2C	Percentage of recycled and biogenic material in the glasses			
How to measure	The criterion is measured by calculating the sum for each component (front piece + temples) of the percentage of recycled and biogenic material content of each component times the weight of the component, compared to the total weight of the glasses. % recycled and biogenic material = $\sum \frac{(\% \text{ bio material} + \% \text{ rec material}) \times \text{component weight}}{front weight + rods weight}$			
Thresholds	Gold' level threshold Silver' level threshold Bronze' level threshold			
Thresholds	>80%	>50%	>30%	
How it occurs	>80%>50%>30%The company must provide evidence of how the calculation was applied and how the quantities were measured. The content of recycled materials must be demonstrated in the following ways:• ISCC 			

The following three criteria are alternative to each other:			
Criterion 3A	Percentage of recycled material in plastic small parts		
How to measure	See Criterion 1 of the document "Technical Criteria for Plastic Small Parts".		
Criterion 3B	Percentage of material of biogenic origin in plastic small parts		
How to measure	See Criterion 2 of the document "Technical Criteria for Plastic Small Parts".		
Criterion 3C	Proportion of recycled and biogenic material in plastic small parts		
How to measure	See Criterion 3 of the document "Technical Criteria for Plastic Hardware".		

Criterion 4	Percentage of material of biogenic origin in the prevailing material (lens)
How to measure	See Criterion 1 of the document 'Technical Criteria for the Lens'.

2. Production

Appearance: Scrap production

Description: Minimisation and sustainable management of processing residues, production process waste

The following criterion applies only to spectacles with metal, nylon and other injected materials (PC, CP, Tritan, etc.) fronts and temples: The criterion must be applied separately for front and rods			
Criterion 5	Percentage of scrap produced		
How to measure	The criterion is measured by applying the following formula net of lenses: % produced scraps = $(1 - \frac{output \ product \ weight}{input \ material \ weight}) \times 100$ Both the weight of the output product and the weight of the input material must refer to the same production interval (e.g. production batch, daily production, annual). The weight of the output product is calculated as the weight of the individual component multiplied by the number of pieces produced. It only applies to the front and rods as predominant components.		
Thresholds	Gold' level threshold	Silver' level threshold	Bronze' level threshold
How it occurs	 < 10% < 20% < 30% The company must provide evidence of how the calculation was applied and how the quantities were measured. Data from waste management systems and waste registers may be presented to support the verification. The verifier may proceed by weighing the individual components and the glasses to verify the calculations. 		

Criterion 6	Percentage of scrap produced (lens)	
How to measure	See Criterion 2 of the document 'Technical Criteria for the Lens'.	

The following criterion applies only to glasses with fronts and temples made of materials excluded from the previous criterion, such as acetate, titanium, wood, carbon, milled metal, etc: The criterion must be applied separately for front and rods

Criterion 7	Percentage of offcuts that are a by-product and/or sent to a specialised recycling company		
	The criterion is measured by applying the following formula:		
	$\%$ recycled scraps/subproducts = $\frac{recycled \ scraps \ weight/subproducts}{produced \ scraps \ weight} \times 100$		
How to measure	Both the weight of waste sent for recycling/subproduced and the weight of waste produced must refer to the same production interval (e.g. production batch, daily production, annual). It only applies to the front and rods as predominant components.		
	Gold' level threshold	Silver' level threshold	Bronze' level threshold
Thresholds			
	> 95%	> 80%	> 70%
How it occurs	The information can be obtained from the documentation provided by the waste management system if the scrap falls into this category. The verifier, in this case, verifies that the data used in the calculation is consistent with the operating procedures and practices adopted by the company in waste management. In general, the company must, as far as possible, limit the quantities used for the calculation to the individual material actually used in the product to be certified by isolating it from flow data.		

Criterion 8	Percentage of scrap sent for recycling or reused as by-product (small metal parts)
How to measure	See Criterion 1 of the document "Technical Criteria for Metal Hardware".

Criterion 9	Percentage of scrap produced when cutting lenses		
How to measure	The criterion is measured by applying the following formula: % produced scraps = $(1 - \frac{cut \ lens \ weight}{pre - cut \ lens \ weight}) \times 100$		
Thresholds	Gold' level threshold	Silver' level threshold	Bronze' level threshold
Thresholds	< 40%	< 50%	< 60%
How it occurs	The company must provide evidence of how the calculation was applied and how the quantities were measured. Data from control systems can be presented to support the verification. The verifier may proceed to weigh the individual components and to verify the calculations.		

Appearance:Handling of defective productsDescription:Valorisation of defective products for material recycling

Criterion 10	Existence of a procedure for the recovery of materials through reuse, put back into production		
How to measure	This criterion is fulfilled if procedures are in place for the re-use or re- production of components.		
Thursdaylda	Gold' level threshold	Silver' level threshold	Bronze' level threshold
Thresholds	Yes	Yes	No
How it occurs	The verifier verifies the presence and implementation of an appropriate procedure. The procedure must be included either within a certified company management system or, in any case, be subject to an internal audit procedure.		

Criterion 11	Send defective products for recycling by homogeneous fractions		
How to measure	The criterion is fulfilled on the basis of the actual recycling of non-repairable defective products by homogeneous fractions.		
	Gold' level threshold	Silver' level threshold	Bronze' level threshold
Thresholds	Yes	Yes	No
How it occurs	The information must be obtained from the documentation provided by the waste management system. The verifier verifies that the data used in the calculation is consistent with the operational procedures and practices adopted by the company in waste management.		

Appearance:Consumption of resources (energy, water) in the production processDescription:Maximising efficiency in the use of natural resources

Criterion 12	Average water consumption (I) per spectacle produced
	The criterion must be assessed for the specific product (or product family) being certified. In general, the criterion is measured by relating the volume of water disposed of in the production process to the number of parts produced:
How to measure	water consumption per eyewear $=$ $\frac{volume \ of \ disposed \ water}{manufactured \ pairs}$
	The evaluation can be carried out in one of the following ways: 1) Direct measurement of the water disposed of by the processes concerned by means of dedicated meters or sensors, then relating the

	 measured quantity to the number of pieces treated in the measuring interval. 2) Allocation of the general quantity of disposed water to the specific product, using appropriate parameters to adequately characterise the disposed water relative to the specific product in relation to the other company products (e.g. weight, processing time, number of cycles, etc.). The calculation model used will be subject to evaluation by the verifier. 		
	 The criterion applies to the washing and tumbling phases. As 'disposed water' it must be considered: water sent for treatment within the plant and then for discharge into the sewerage system or surface water body; water discharged into the sewerage system; water managed as waste and sent for treatment in external plants. 		
	Gold' level threshold Silver' level threshold Bronze' level thre		
Thresholds	< 0,5 l	< 2	< 4
How it occurs	The company must provide evidence of how the calculation was applied and how the quantities were measured.		

Criterion 13	Average water consumption (I) per lens produced
How to measure	See Criterion 4 of the document 'Technical Criteria for the Lens'.

Criterion 14	Average energy consumption (kWh) per spectacle produced		
	The criterion must be assessed for the specific product (or product family) being certified. In general, the criterion is measured by relating the electrical energy used in the process to the number of parts produced:		
	$electrical energy consumption per eyewear = rac{total electrical energy consumption}{manufactured pairs}$		
	The evaluation can be carried out in one of the following ways:		
How to measure	 Direct measurement of the consumption of the processes concerned by means of dedicated meters, sensors or current clamps, then relating the measured consumption to the number of parts produced in the measuring interval. 		
	2) Allocation of general consumption to the specific product, using appropriate parameters to adequately characterise consumption relative to the specific product in relation to other company products (e.g. weight, processing time, number of cycles, machine power, etc.). The calculation model used will be subject to evaluation by the verifier.		
	3) Using the following standard formula:		

	Energy consumption	$n = \sum \frac{power \; mach}{Numero \; dnumber}$	ine * working time of workpieces processed
	The formula sums up the consumption of the different work phases considering, for each phase, the power of the machine used, the duration of the machining operation and the number of parts produced in the machining operation.		
	the glasses and are as foll - Metals: tumbling	ows: cutting, tumbling, animat	depend on the material of ing
Thresholds	Gold' level threshold - Metals: <0.2 kWh - Milled materials: <1.0 kWh - Injected: <1.4 kWh	Silver' level threshold - Metals: <0.4 kWh - Milled materials: <1.5 kWh - Injected: <1.8 kWh	Bronze' level threshold - Metals: <0.6 kWh - Milled materials: <2 kWh - Injected: <2.2 kWh
How it occurs	The company must provide evidence of how the quantities were measured and how the calculation was applied. The verifier will be able to verify the data used by examining the sources, which can be meter data, energy bills.		

Criterion 15	Use of electricity from renewable sources for production		
How to measure	The criterion is measured by applying the following formula: % renewable energy = $\frac{self - generated and - or purchased renewable energy}{total energy consumption}$ Both the amount of renewable energy and the amount of total energy consumed must refer to the last complete calendar year. The calculation must be carried out at the level of the company applying for		
	certification.		
	Gold' level threshold	Silver' level threshold	Bronze' level threshold
Thresholds	25% purchased	> 50% purchased	

|--|

Appearance: Surface treatments

Description: Efficiency in surface treatment processes

The following criterion applies only to glasses that undergo PVD (physical vapour deposition) or galvanic treatments The criterion must be applied separately for front and rods			
Criterion 16	Sustainability of coatir	ng processes	
How to measure	 The criterion is evaluated alternatively in the case of PVD treatment or galvant treatment. In the case of PVD treatment, the criterion is measured by the presence of absence of the process In the case of galvanic treatment, the criterion is measured by applying the process. 		
	following formula: % replenished water = $\frac{qreplenished water}{vvolume of water used} \times 100$ The criterion must be evaluated on an annual basis.		
	Gold' level threshold	Silver' level threshold	Bronze' level threshold
Thresholds	PVD yes or make-up < 5%	PVD no and make-up < 10%.	PVD no and make-up < 15%
How it occurs	For galvanic treatments, the company must provide evidence of how the calculation was applied and how the quantities were measured, including a definition of the production range considered. For PVD treatment, the company must provide evidence that the product has undergone the treatment.		

The following criterion applies only to spectacles that are subject to the application of varnish: The criterion must be applied separately for front and rods

Criterion 17	Sustainability of painting processes			
How to measure	The criterion is evaluated alternatively in the case of water- or solvent-based painting. In the case of water-based coating, the criterion is to indicate whether the process is present or not. In the case of solvent painting, the criterion involves the measurement of VOC (volatile organic compounds) emissions into the atmosphere.			
	Gold' level threshold Silver' level threshold Bronze' level threshold			
VOC cl. II < 5 mg/Nn VOC cl. III < 25 mg/N VOC cl. IV < 50 mg/N		Water painting no and VOC cl. I < 2 mg/Nm3 VOC cl. II < 10 mg/Nm3 VOC cl. III < 50 mg/Nm3 VOC cl. IV < 100 mg/Nm3 VOC cl. V < 200 mg/Nm3	Water painting no and VOC cl. I < 4 mg/Nm3 VOC cl. II < 15 mg/Nm3 VOC cl. III < 100 mg/Nm3 VOC cl. IV < 200 mg/Nm3 VOC cl. V < 400 mg/Nm3	
How it occurs	For water-based coatings, the company must provide evidence that the product has undergone the treatment itself. For solvent painting, the verifier verifies the stack analysis carried out in accordance with the applicable regulations.			

Appearance: Transport

Description: Minimisation of material transport impacts along the supply chain

Criterion 18	Distance travelled by direct suppliers		
How to measure	Percentage of transport carried out by direct suppliers at a distance of less than 250 km from the production site. Transport means those of: - Raw materials (one-way) - Components (one-way)		
	- Products from	toll manufacturing (adding	round trip distance)
Thresholds	Gold' level threshold	Silver' level threshold	Bronze' level threshold
	> 90%	> 70%	> 50%

Appearance:Supply chain responsibilityDescription:Responsible supply chain

Criterion 19	Compliance with conventions and commitments to respect human rights and the environment along the supply chain		
How to measure		l if it can be certified that the rate social responsibility.	e production chain respects
	Gold' level threshold	Silver' level threshold	Bronze' level threshold
Thresholds	Yes	No, but the company audits suppliers	No, but the company audits suppliers
How it occurs	 For each supplier, the company must produce evidence of the application of corporate social responsibility principles by presenting documentation proving the adoption of one or more of the main standards or adherence to nationally and internationally recognised social responsibility programmes. The following standards and programmes are considered valid: SA 8000:2014 - Social Accountability 8000 International Standard by Social Accountability International UNI ISO 26000:2010 - Guide to Social Responsibility GRI Standards Guidelines, prepared by the Global Reporting Initiative Accession to the UN Global Compact EcoVadis recognition (with an <i>overall score</i> of at least 40) B-Corp certification (www.bcorporation.net) Sedex Member Ethical Trade Audit Programme (Sedex SMETA) Responsible Care' programme (Sedex SMETA) Responsible Care) Other equivalent documentation to be assessed by the verifier Alternatively, for Silver and Bronze levels, the company is required to implement a supplier audit programme in which social sustainability aspects are assessed. 		

3. Distribution

Appearance:Demo lensDescription:Responsible use of Demo lenses

Criterion 20	Responsibility in the use of demo lenses			
How to measure	The criterion is measured by applying the following alternative formulae: % recycled mterial = $\frac{recycled material weight}{demo lenses weight} \times 100$ or % biogenic material = $\frac{biogenic material weight}{demo lenses weight} \times 100$ or If the demo lens is not included in the distribution of the glasses, the product can be assigned the 'Gold' level.			
	Gold' level threshold Silver' level threshold Bronze' level threshold			
Thresholds	<i>Demo lens</i> not provided; If required: 100% recycled	Recycled > 90% or Biogenic > 80%	Recycled > 80% or Biogenic > 60%	
How it occurs	Documentation issued by the supplier (ISCC, GRS, Red Cert; self-declaration according to ISO 14021) may be submitted for verification of the criterion.			

Appearance: Cases

Description: Use of sustainable cartons

Criterion 21	Percentage of FSC/PEFC or recycled material in cartons				
How to measure	The criterion is measured by applying the following formula: % FSC – PEFC or recycled material = $\frac{FSC - PEFC \text{ or recycled material weight}}{case weight} \times 100$				
Throsholds	Gold' level threshold	Gold' level threshold Silver' level threshold Bronze' level threshold			
Thresholds	> 95%	> 85%	> 75%		
How it occurs	The company must provide evidence of how the calculation was applied and how the quantities were measured. Only materials with FSC/PEFC certification or with a proven recycled content can be considered in the numerator: GRS certification Self-declaration according to ISO 14021 FSC Recycled Other equivalent documentation to be assessed by the verifier				

Criterion 22	Volume occupied by ten cases			
How to measure	To measure this criterion, it is necessary to measure the volume of the smallest parallelepiped that can hold 10 boxes. In the case of rectangular boxes, the volume of this parallelepiped coincides with the volume of 10 boxes. The criterion is, therefore, rewarding for small cases with regular shapes that allow them to be packed leaving a smaller amount of empty space.			
	Gold' level threshold Silver' level threshold Bronze' level threshol			
Thresholds	< 4 dm ³	< 5.5 dm ³	< 7 dm³	
How it occurs	The verifier must verify the manner in which the measurement was carried out.			

Criterion 23	Recyclability of cases			
	The criterion is measured by assessing acceptability in waste recycling chains, i.e. by calculating the percentage of recyclable raw material by applying the formula and indicating whether the case is disassemblable.			
How to measure	$\%$ recyclable material = $\frac{recyclable material weight}{case weight} \times 100$ Flows that are considered recyclable are those for which a recycling system is sufficiently widespread that the end-of-life can reasonably be considered to be sent to that system.			
	A monomaterial is defined in the regulations as a material with less than 5 cent secondary materials.			
	Gold' level threshold Silver' level threshold Bronze' level threshold			
Thresholds	Single recyclable material	100% disassemblable and recyclable	Disassemblable and 75% recyclable	
How it occurs	The company must provide evidence of how the calculation was applied and how the quantities were measured.			

Appearance:PackagingDescription:Using sustainable packaging

Criterion 24	Percentage of FSC/PEFC or recycled material in packaging		
How to measure	The criterion is calculated by applying the following formula: %FSC/PEFC or recycled material = $\frac{FSC/PEFC or recycled material weight}{packaging weight}X100$		
Thresholds	Gold' level threshold	Silver' level threshold	Bronze' level threshold
inresnoids	> 95%	> 85%	> 75%
How it occurs	 The company must provide evidence of how the calculation was applied and how the quantities were measured. Only materials with FSC/PEFC certification or with a proven recycled content can be considered in the numerator: GRS certification Self-declaration according to ISO 14021 FSC Recycled Other equivalent documentation to be assessed by the verifier 		

Criterion 25	Recyclability of packaging			
The criterion is measured by assessing acceptability in waste recyc i.e. by calculating the percentage of recyclable raw material by a formula and indicating whether the packaging is disassemblable.				
How to measure	$\% \ recyclable \ material = \frac{recyclable \ material \ weight}{packaging \ weight} \times 100$ Flows that are considered recyclable are those for which a recycling system is sufficiently widespread that the end-of-life can reasonably be considered to be sent to that system. A monomaterial is defined in the regulations as a material with less than 5 per cent secondary materials.			
	Gold' level threshold Silver' level threshold Bronze' level threshold			
Thresholds	Single recyclable material	100% disassemblable and recyclable	Disassemblable and recyclable > 75 per cent	
How it occurs	The company must provide evidence of how the calculation was applied and how the quantities were measured.			

4. Use

Appearance:RepairabilityDescription:Possibility of the product being repaired, corrected or accommodated

Criterion 26	Possibility of disassembling the glasses into their individual components (Disassembly for repair purposes)		
How to measure	The criterion is fulfilled when it can be proven that the spectacles can be divided into the four components: front, temples, lenses.		
Thresholds	Gold' level threshold	Silver' level threshold	Bronze' level threshold
	Yes	Yes	No
How it occurs	The verifier will check whether the glasses can actually be disassembled.		

Criterion 27	Provision of spare parts		
How to measure	The criterion is fulfilled when the eyeglass manufacturer makes spare or replaceable parts for damaged parts available to the end consumer or to shops where the glasses are sold.		
Thresholds	Gold' level threshold	Silver' level threshold	Bronze' level threshold
	Yes	Yes	No
How it occurs	The verifier must be able to verify the presence of practices or procedures for making spare parts available to the final consumer or to the shops where the glasses are sold.		

Appearance: Restricted substances

Description: Responsible use of potentially hazardous substances

Criterion 28	Responsible use of potentially hazardous substances		
How to measure	The criterion assesses both the use phase and the use of hazardous substances during production (e.g. in surface treatments). The criterion is fulfilled if the thresholds defined by ANFAO in its PRSL are met.		
Gold' level threshold Silver' level threshold		Bronze' level threshold	
	Yes	Yes	Yes

	The auditor will check the actual adoption of ANFAO's PRSL or otherwise verify		
How it occurs	compliance with its requirements.		

5. Disposal

Appearance: End of life of complete spectacles

Description: Management of eyewear disposal with a view to the circular economy, through reuse and recovery

Criterion 29	Possibility of sorting recycling)	the materials that make	up the glasses (Sorting for
	The criterion assesses the possibility of dismantling the glasses by separating the materials of which they are made, in order to facilitate recycling. The criterion is measured by applying the following formula:		
How to measure	% separatable materials = $\frac{separatable materials weight}{spectacles weight} \times 100$ Separation of materials must be possible for non-specialists using simple tools (pliers, screwdrivers, cutters, etc.).		
Thresholds	Gold' level threshold Silver' level threshold Bronze' level threshold		
Thresholds	100%	> 85%	> 70%
How it occurs	The company must provide evidence of the separation process and how the quantities were measured.		

Criterion 30	Take-back of used or unsold glasses for reuse or recovery in alternative circuits		
How to measure	The criterion is fulfilled when there are procedures and practices for taking back used or unsold spectacles. Alternative circuits are considered to be all those solutions that make it possible to delay the transformation of eyeglasses into waste, such as secondary markets or social initiatives.		
	Gold' level threshold	Silver' level threshold	Bronze' level threshold
Thresholds	Yes	No	No
How it occurs	The company must provide evidence of the collection or recovery of the spectacles by means of delivery notes, receipts, and any documents proving the recovery.		