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INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS

GENEVA

DRAFT

ZONAL PELARGONIUM, IVY-LEAVED PELARGONIUM *UPOV Code: PELAR_ZON, PELAR_PEL
(PELAR_PZO, PELAR_ZPE, PELAR_ZTO)*Pelargonium* Zonale Group, *Pelargonium peltatum* (L.) Hér
and hybrids between those species and other species of
Pelargonium L'Hér. ex Ait.

GUIDELINES

FOR THE CONDUCT OF TESTS

FOR DISTINCTNESS, UNIFORMITY AND STABILITY

*prepared by an expert from Germany**to be considered by the Enlarged Editorial Committee at its meeting
to be held in Geneva, Switzerland, on January 8, 2009*

Alternative Names: *

<i>Botanical name</i>	<i>English</i>	<i>French</i>	<i>German</i>	<i>Spanish</i>
<i>Pelargonium</i> Zonale Group, <i>Pelargonium ×hortorum</i> L. H. Bailey, Pelargonium-Zonale-Hybridae	Zonal Pelargonium, Horseshoed pelargonium	Géranium, Pelargonium zonale	Zonal-Pelargonie	Geranio zonal, geranio malvón, geranio de hierro, geranio de sardina, hierba sardinera, pelargonio
<i>Pelargonium peltatum</i> (L.) Hér, Pelargonium-Peltatum- Hybridae	Ivy-leaved Pelargonium, Hanging geranium, Ivy geranium, Ivy-leaf pelargonium	Géranium-lierre	Efeupelargonie, Efeublättrige Pelargonie	

The purpose of these guidelines ("Test Guidelines") is to elaborate the principles contained in the General Introduction (document TG/1/3), and its associated TGP documents, into detailed practical guidance for the harmonized examination of distinctness, uniformity and stability (DUS) and, in particular, to identify appropriate characteristics for the examination of DUS and production of harmonized variety descriptions.

ASSOCIATED DOCUMENTS

These Test Guidelines should be read in conjunction with the General Introduction and its associated TGP documents.

* These names were correct at the time of the introduction of these Test Guidelines but may be revised or updated. [Readers are advised to consult the UPOV Code, which can be found on the UPOV Website (www.upov.int), for the latest information.]

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1. Subject of these Test Guidelines

These Test Guidelines apply to all varieties of *Pelargonium* Zonale Group (*syn. Pelargonium xhortorum* L.H. Bailey) and *Pelargonium peltatum* (L.) Hér. as well as to hybrids between these species and other species of *Pelargonium* L'Hér. ex Aiton of the family Geraniaceae.

2. Material Required

2.1 The competent authorities decide on the quantity and quality of the plant material required for testing the variety and when and where it is to be delivered. Applicants submitting material from a State other than that in which the testing takes place must ensure that all customs formalities and phytosanitary requirements are complied with.

2.2 The material is to be supplied in the form of well rooted cuttings, not pinched, or seeds.

2.3 The minimum quantity of plant material, to be supplied by the applicant, should be:

vegetatively propagated varieties: 15 well rooted cuttings, not pinched
seed-propagated varieties: sufficient seed to produce 30 plants

2.4 The plant material supplied should be visibly healthy, not lacking in vigor, nor affected by any important pest or disease, especially any bacteria or virus infection.

2.5 The plant material should not have undergone any treatment which would affect the expression of the characteristics of the variety, unless the competent authorities allow or request such treatment. If it has been treated, full details of the treatment must be given.

3. Method of Examination

3.1 *Number of Growing Cycles*

The minimum duration of tests should normally be a single growing cycle.

3.2 *Testing Place*

Tests are normally conducted at one place. In the case of tests conducted at more than one place, guidance is provided in TGP/9 "Examining Distinctness".

3.3 *Conditions for Conducting the Examination*

3.3.1 The tests should be carried out under conditions ensuring satisfactory growth for the expression of the relevant characteristics of the variety and for the conduct of the examination.

3.3.2 The optimum stage of development for the assessment of the characteristics is at the time of full flowering.

3.3.3 Because daylight varies, color determinations made against a color chart should be made either in a suitable cabinet providing artificial daylight or in the middle of the day in a room without direct sunlight. The spectral distribution of the illuminant for artificial daylight should conform with the CIE Standard of Preferred Daylight D 6500 and should fall within the tolerances set out in the British Standard 950, Part I. These determinations should be made with the plant part placed against a white background.

3.4 *Test Design*

3.4.1 Vegetatively propagated varieties: each test should be designed to result in a total of at least 15 plants.

3.4.2 Seed-propagated varieties: each test should be designed to result in a total of at least 30 plants.

3.4.3 The design of the tests should be such that plants or parts of plants may be removed for measurement or counting without prejudice to the observations which must be made up to the end of the growing cycle.

3.5 *Number of Plants / Parts of Plants to be Examined*

3.5.1 Vegetatively propagated varieties: unless otherwise indicated, all observations on single plants should be made on 10 plants or parts taken from each of 10 plants and any other observations made on all plants in the test.

3.5.2 Seed propagated varieties: unless otherwise indicated, all observations on single plants should be made on 20 plants or parts taken from each of 20 plants and any other observations made on all plants in the test.

3.6 *Additional Tests*

Additional tests, for examining relevant characteristics, may be established.

4. Assessment of Distinctness, Uniformity and Stability

4.1 *Distinctness*

4.1.1 General Recommendations

It is of particular importance for users of these Test Guidelines to consult the General Introduction prior to making decisions regarding distinctness. However, the following points are provided for elaboration or emphasis in these Test Guidelines.

4.1.2 Consistent Differences

The differences observed between varieties may be so clear that more than one growing cycle is not necessary. In addition, in some circumstances, the influence of the environment is not such that more than a single growing cycle is required to provide assurance that the differences observed between varieties are sufficiently consistent. One means of ensuring that a difference in a characteristic, observed in a growing trial, is

sufficiently consistent is to examine the characteristic in at least two independent growing cycles.

4.1.3 Clear Differences

Determining whether a difference between two varieties is clear depends on many factors, and should consider, in particular, the type of expression of the characteristic being examined, i.e. whether it is expressed in a qualitative, quantitative, or pseudo-qualitative manner. Therefore, it is important that users of these Test Guidelines are familiar with the recommendations contained in the General Introduction prior to making decisions regarding distinctness.

4.2 *Uniformity*

4.2.1 It is of particular importance for users of these Test Guidelines to consult the General Introduction prior to making decisions regarding uniformity. However, the following points are provided for elaboration or emphasis in these Test Guidelines:

4.2.2 For the assessment of uniformity of vegetatively propagated varieties a population standard of 1% and an acceptance probability of at least 95% should be applied. In the case of a sample size of 15 plants, 1 off-type is allowed.

4.2.3 For the assessment of uniformity of seed-propagated varieties which are self-pollinated, a population standard of 2% and an acceptance probability of at least 95% should be applied. In the case of a sample size of 30 plants, 2 off-types are allowed.

4.2.4 For the assessment of uniformity of seed-propagated varieties which are cross-pollinated or hybrids, the recommendations in the General Introduction for cross-pollinated or hybrid varieties should be followed, as appropriate.

4.3 *Stability*

4.3.1 In practice, it is not usual to perform tests of stability that produce results as certain as those of the testing of distinctness and uniformity. However, experience has demonstrated that, for many types of variety, when a variety has been shown to be uniform, it can also be considered to be stable.

4.3.2 Where appropriate, or in cases of doubt, stability may be tested, either by growing a further generation, or by testing a new seed or plant stock to ensure that it exhibits the same characteristics as those shown by the previous material supplied.

5. Grouping of Varieties and Organization of the Growing Trial

5.1 The selection of varieties of common knowledge to be grown in the trial with the candidate varieties and the way in which these varieties are divided into groups to facilitate the assessment of distinctness are aided by the use of grouping characteristics.

5.2 Grouping characteristics are those in which the documented states of expression, even where produced at different locations, can be used, either individually or in combination with other such characteristics: (a) to select varieties of common knowledge that can be excluded

from the growing trial used for examination of distinctness; and (b) to organize the growing trial so that similar varieties are grouped together.

5.3 Besides the botanical species the following have been agreed as useful grouping characteristics:

- (a) Leaf blade: variegation (characteristic 12)
- (b) Leaf blade: main color (zone excluded) (characteristic 13)
- (c) Flower: type (characteristic 29)
- (d) Upper petal: type of marking (characteristic 45)
- (e) Lower petal: color of middle of upper side (characteristic 52) with the following groups:
 - Gr. 1: white
 - Gr. 2: orange pink
 - Gr. 3: orange
 - Gr. 4: red
 - Gr. 5: purple
 - Gr. 6: blue pink

5.4 Guidance for the use of grouping characteristics, in the process of examining distinctness, is provided through the General Introduction.

6. Introduction to the Table of Characteristics

6.1 *Categories of Characteristics*

6.1.1 Standard Test Guidelines Characteristics

Standard Test Guidelines characteristics are those which are approved by UPOV for examination of DUS and from which members of the Union can select those suitable for their particular circumstances.

6.1.2 Asterisked Characteristics

Asterisked characteristics (denoted by *) are those included in the Test Guidelines which are important for the international harmonization of variety descriptions and should always be examined for DUS and included in the variety description by all members of the Union, except when the state of expression of a preceding characteristic or regional environmental conditions render this inappropriate.

6.2 *States of Expression and Corresponding Notes*

States of expression are given for each characteristic to define the characteristic and to harmonize descriptions. Each state of expression is allocated a corresponding numerical note for ease of recording of data and for the production and exchange of the description.

6.3 *Types of Expression*

An explanation of the types of expression of characteristics (qualitative, quantitative and pseudo-qualitative) is provided in the General Introduction.

6.4 *Example Varieties*

Where appropriate, example varieties are provided to clarify the states of expression of each characteristic.

6.5 *Legend*

(*) Asterisked characteristic – see Chapter 6.1.2

QL Qualitative characteristic – see Chapter 6.3

QN Quantitative characteristic – see Chapter 6.3

PQ Pseudo-qualitative characteristic – see Chapter 6.3

(a)-(c) See Explanations on the Table of Characteristics in Chapter 8.1.

(+) See Explanations on the Table of Characteristics in Chapter 8.2.

7. Table of Characteristics/Tableau des caractères/Merkmalstabelle/Tabla de caracteres

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
1. (*) (+)	Plant: growth type	Plante : type de croissance	Pflanze: Wuchstyp	Planta: hábito de crecimiento		
PQ	upright	dressée	aufrecht	erecta	Sil Merle	1
	semi-upright	semi-dressée	halbaufrecht	semierecta	Cante Laver	2
	trailing	étalée	hängend	rastrera	KLEP04112	3
2.	<u>Only upright and semi-upright varieties:</u> Plant: height of foliage	<u>Variétés dressées et semi-dressées seulement :</u> Plante : hauteur du feuillage	<u>Nur aufrecht und halbaufrecht wachsende Sorten:</u> Pflanze: Höhe der Laubzone	<u>Sólo variedades erectas y semierectas:</u> Planta: altura del follaje		
QN	short	court	niedrig	baja	Sil Merle	3
	medium	moyen	mittel	media	Fisum Pink	5
	tall	élevé	hoch	alta	Zowitz	7
3.	<u>Only trailing varieties:</u> Plant: shoot length	<u>Variétés étalées seulement :</u> Plante : longueur de la tige	<u>Nur hängende Sorten:</u> Pflanze: Trieblänge	<u>Sólo variedades rastreras:</u> Planta: longitud de la rama		
QN	short	courte	kurz	corta	Free Rured	3
	medium	moyenne	mittel	media	Pacmeli	5
	long	longue	lang	larga	KLEP04112	7
4.	<u>Only upright and semi-upright varieties:</u> Plant: width	<u>Variétés dressées et semi-dressées seulement :</u> Plante : largeur	<u>Nur aufrecht und halbaufrecht wachsende Sorten:</u> Pflanze: Breite	<u>Sólo variedades erectas y semierectas:</u> Planta: anchura		
QN	narrow	étroite	schmal	estrecha	Zolcaros	3
	medium	moyenne	mittel	media	Zolarlet	5
	broad	large	breit	ancha	Pacsalpri	7
5.	Stem: color	Tige : couleur	Trieb: Farbe	Tallo: color		
QL (a)	whitish	blanchâtre	weißlich	blanquecino		1
	green	verte	grün	verde		2

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
6.	Stem: anthocyanin coloration	Tige : pigmentation anthocyanique	Trieb: Anthocyanfärbung	Tallo: pigmentación antociánica		
QN	(a) absent or weak	absente ou faible	fehlend oder gering	ausente o débil	KLEP0312	1
	medium	moyenne	mittel	media	Fisrocky Dark Red	3
	strong	forte	stark	fuerte	Balgaldepro	5
7. (* (+)	Leaf blade: length	Limbe : longueur	Blattspreite: Länge	Limbo: longitud		
QN	(a) short	court	kurz	corta	KLEP03012	3
	medium	moyen	mittel	media	Zolirsca	5
	long	long	lang	larga	Pacvica	7
8. (* (+)	Leaf blade: width	Limbe : largeur	Blattspreite: Breite	Limbo: anchura		
QN	(a) narrow	étroit	schmal	estrecha	KLEP03012	3
	medium	moyen	mittel	media	Zolirsca	5
	broad	large	breit	ancha	Pacvica	7
9. (+)	Leaf blade: depth of sinus	Limbe : profondeur du sinus	Blattspreite: Tiefe der Lappen	Limbo: profundidad de los senos		
QN	(a) absent or very shallow	absent ou peu profond	fehlend oder sehr flach	ausente o muy poco profunda		1
	shallow	peu profond	flach	poco profunda	Zolcaros	3
	medium	moyen	mittel	media	KLEP01052	5
	deep	profond	tief	profunda	Cante Laver	7
10.	Leaf blade: undulation of margin	Limbe : ondulation du bord	Blattspreite: Randwellung	Limbo: ondulación del borde		
QN	(a) weak	faible	gering	débil	Zolirsca	3
	medium	moyenne	mittel	media	Zolarlet	5
	strong	forte	stark	fuerte	Wesvilsu	7

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
11.	Leaf blade: base	Limbe : base	Blattspreite: Basis	Limbo: base		
(+)						
QN	(a) wide open	très ouverte	weit offen	muy abierta		1
	slightly open	peu ouverte	etwas offen	ligeramente abierta		3
	closed	fermée	geschlossen	cerrada		5
	partly overlapping	à lobes peu chevauchants	gering überlappend	parcialmente solapada		7
	strongly overlapping	à lobes très chevauchants	stark überlappend	fuertemente solapada		9
12.	Leaf blade: variegation	Limbe : panachure	Blattspreite: Panaschierung	Limbo: variegación		
QL	(a) absent	absente	fehlend	ausente	Sil Merle	1
	present	présente	vorhanden	presente	Penevro	9
13.	Leaf blade: main color (zone excluded)	Limbe : couleur principale (zone exclue)	Blattspreite: Hauptfarbe (ohne Zone)	Limbo: color principal (excluida la zona)		
PQ	(a) yellow	jaune	gelb	amarillo		1
	light green	vert clair	hellgrün	verde claro		2
	light green to medium green	vert clair à vert moyen	hellgrün bis mittelgrün	verde claro a verde medio	Zowit	3
	medium green	vert moyen	mittelgrün	verde medio	Sil Merle	4
	medium green to dark green	vert moyen à vert foncé	mittelgrün bis dunkelgrün	verde medio a verde oscuro	KLEP03106	5
	dark green	vert foncé	dunkelgrün	verde oscuro	Zolirsca	6
	dark red	rouge foncé	dunkelrot	rojo oscuro	Vancouver Centennial	7
	brown purple	pourpre brun	braunpurpurn	púrpura marrón	Black Magic	8

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
14. (*)	Leaf blade: secondary color (zone excluded)	Limbe : couleur secondaire (zone exclue)	Blattspreite: Sekundärfarbe (ohne Zone)	Limbo: color secundario (excluida la zona)		
PQ	(a) white	blanc	weiß	blanco	Evka	1
	yellow	jaune	gelb	amarillo	Raimu Kissu	2
	light green	vert clair	hellgrün	verde claro	Vancouver Centennial	3
	medium green	vert moyen	mittelgrün	verde medio	Black Magic	4
15.	<u>Only trailing varieties: Leaf blade: glossiness</u>	<u>Variétés étalées seulement : Limbe : brillance</u>	<u>Nur hängende Sorten: Blattspreite: Glanz</u>	<u>Sólo variedades rastreras: Limbo: brillo</u>		
QN	(a) weak	faible	gering	débil	Free Rured	3
	medium	moyenne	mittel	medio	Zopihosd	5
	strong	forte	stark	fuerte	KLEP04112	7
16. (*) (+)	Leaf blade: conspicuousness of zone	Limbe : netteté de la zone	Blattspreite: Aus- prägung der Zone	Limbo: visibilidad de la zona		
QN	(a) absent or very weak	nulle ou très faible	fehlend oder sehr gering	ausente o muy débil	Zowit	1
	weak	faible	gering	débil	Zolirsca	3
	medium	moyenne	mittel	media	Zolarlet	5
	strong	forte	stark	fuerte	Pascalpri	7
	very strong	très forte	sehr stark	muy fuerte	Baldescarim	9
17. (+)	Leaf blade: position of zone	Limbe : position de la zone	Blattspreite: Position der Zone	Limbo: posición de la zona		
QN	(a) towards base	vers la base	zur Basis hin	hacia la base		1
	in middle	à la partie centrale	in der Mitte	en el medio		2
	towards margin	vers le bord	zum Rand hin	hacia el borde		3

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
18. (+)	Leaf blade: relative size of zone	Limbe : taille relative de la zone	Blattspreite: relative Größe der Zone	Limbo: tamaño relativo de la zona		
QN (a)	small	petite	klein	pequeño		1
	medium	moyenne	mittel	media		3
	large	grande	groß	grande		5
19.	Peduncle: length	Pédoncule : longueur	Blütenstandsstiel: Länge	Pedúnculo: longitud		
QN (b)	short	court	kurz	corta	Duefuerto	3
	medium	moyen	mittel	media	Sil Merle	5
	long	long	lang	larga	Fisroweiss	7
20. (* (+)	Peduncle: anthocyanin coloration on middle third	Pédoncule : pigmentation anthocyanique du tiers central	Blütenstandsstiel: Anthocyanfärbung am mittleren Drittel	Pedúnculo: pigmentación antocianica en el tercio medio		
QN (b)	absent or very weak	nulle ou très faible	fehlend oder sehr gering	ausente o muy débil		1
	weak	faible	gering	débil		3
	medium	moyenne	mittel	media		5
	strong	forte	stark	fuerte		7
21. (+)	Inflorescence: height	Inflorescence : hauteur	Blütenstand: Höhe	Inflorescencia: altura		
QN (b)	short	courte	niedrig	baja	Pacbla	3
	medium	moyenne	mittel	media	Fisrowi	5
	tall	haute	hoch	alta	Fisrocky Dark Red	7
22. (* (+)	Inflorescence: width	Inflorescence : largeur	Blütenstand: Breite	Inflorescencia: anchura		
QN (b)	narrow	étroite	schmal	estrecha	KLEP01052	3
	medium	moyenne	mittel	media	KLEP03106	5
	broad	large	breit	ancha	Zolirsca	7

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
23.	Inflorescence: number of open flowers	Inflorescence : nombre de fleurs épanouies	Blütenstand: Anzahl offener Blüten	Inflorescencia: número de flores abiertas		
(+)						
QN	(b) few	petit	gering	pocas	Tikvio	3
	medium	moyen	mittel	medio	KLEP01052	5
	many	grand	hoch	muchas	KLEP03106	7
24.	Inflorescence: length of largest flower	Inflorescence : longueur de la fleur la plus grande	Blütenstand: Länge der größten Blüte	Inflorescencia: longitud de la flor más grande		
(*)						
QN	(b) short	courte	kurz	corta	Genvired	3
	medium	moyenne	mittel	media	Genam	5
	long	longue	lang	larga	Fislunova	7
25.	Inflorescence: width of largest flower	Inflorescence : largeur de la fleur la plus grande	Blütenstand: Breite der größten Blüte	Inflorescencia: anchura de la flor más grande		
(*)						
QN	(b) narrow	étroite	schmal	estrecha		3
	medium	moyenne	mittel	media	Fisum Pink	5
	broad	large	breit	ancha	Fisrowei	7
26.	Inflorescence: length of longest pedicel	Inflorescence : longueur du pédicelle le plus long	Blütenstand: Länge des längsten Blütenstiels	Inflorescencia: longitud del pedicelo más largo		
(*)						
QN	(b) short	court	kurz	corta	Cante Dereds	3
	medium	moyen	mittel	media	Fisum Pink	5
	long	long	lang	larga	Zoldarob	7

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
27.	Pedice l: anthocyanin coloration of upper third	Pédicelle : pigmentation anthocyanique du tiers supérieur	Blütenstiel: Anthocyanfärbung im oberen Drittel	Pedicelo: pigmentación antocianica del tercio superior		
QN (b)	absent or very weak	absente ou très faible	fehlend oder sehr gering	ausente o muy débil		1
	weak	faible	gering	débil	Paclai	3
	medium	moyenne	mittel	media	Fisrocky Dark Red	5
	strong	forte	stark	fuerte	Zonabriscal	7
	very strong	très forte	sehr stark	muy fuerte	Clip Velred	9
28.	Pedice l: swelling	Pédicelle : renflements	Blütenstiel: Verdickung	Pedicelo: hinchazón		
(+)						
QL (b)	absent	absents	fehlend	ausente		1
	present	présents	vorhanden	presente		9
29.	Flower: type	Fleur : type	Blüte: Typ	Flor: tipo		
(+)						
(*)						
QL	single	simple	einfach	simple		1
	double	double	gefüllt	doble		2
30.	<u>Only varieties with flower type: single:</u> Flower: arrangement of upper petals in relation to lower petals	<u>Variétés à type de fleur : simple seulement :</u> Fleur : disposition des pétales supérieurs par rapport aux pétales inférieurs	<u>Nur Sorten mit Blütentyp: einfach:</u> Blüte: Anordnung der oberen Blütenblätter zu den unteren Blütenblättern	<u>Sólo variedades con flor tipo: simple:</u> Flor: disposición de pétalos superiores en relación con pétalos inferiores		
(+)						
QN (b)	free	libre	frei stehend	libres		1
	touching	tangant	sich berührend	en contacto		3
	slightly overlapping	légèrement chevauchant	gering überlappend	ligeramente solapados		5

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
31. (* (*)	<u>Only varieties with flower type: double:</u> Flower: number of petals	<u>Variétés à type de fleur : double</u> <u>seulement</u> : Fleur : nombre de pétales	<u>Nur Sorten mit Blüentyp: gefüllt:</u> Blüte: Anzahl Blütenblätter	<u>Sólo variedades con flor tipo: doble:</u> Flor: número de pétalos		
QN (b)	few	petit	gering	pocos	KLEP01052	3
	medium	moyen	mittel	medio	Fisum Pink	5
	many	grand	groß	muchos	Pacsalkom	7
32. (+ (+)	Flower: cross section in lateral view	Fleur : section transversale en vue latérale	Blüte: Querschnitt in der Seitenansicht	Flor: sección transversal en perspectiva lateral		
QN (b)	concave	concave	konkav	cóncava		1
	flat	plate	gerade	plana		2
	convex	convexe	konvex	convexa		3
33. (* (+)	Flower: presence of irregularly distributed stripes or blotches	Fleur : présence de stries ou taches irrégulièrement réparties	Blüte: Vorhandensein von unregelmäßig verteilten Streifen oder Flecken	Flor: presencia de estrías o manchas distribuidas irregularmente		
QL (b)	absent	absente	fehlend	ausente	Sil Merle	1
	present	présente	vorhanden	presente	Gradowi	9
34. (* (+)	<u>Only varieties with flowers with irregularly distributed stripes or blotches:</u> Flower: main color	<u>Variétés à fleurs présentant des stries ou taches irrégulièrement réparties seulement</u> : Fleur : couleur principale	<u>Nur Sorten mit Blüten mit unregelmäßig verteilten Streifen oder Flecken:</u> Blüte: Hauptfarbe	<u>Sólo variedades con flores con estrías o manchas distribuidas irregularmente:</u> Flor: color principal		
PQ (b)	white	blanche	weiß	blanco	Gradowi	1
	pink	rose	rosa	rosa		2
	red	rouge	rot	rojo		3

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
35. (*)	<u>Only varieties with flowers with irregularly distributed stripes or blotches; Flower: color of stripes or blotches</u>	<u>Variétés à fleurs présentant des stries ou taches irrégulièrement réparties seulement : Fleur : couleur des stries ou taches</u>	<u>Nur Sorten mit Blüten mit unregelmäßig verteilten Streifen oder Flecken; Blüte: Farbe der Streifen oder Flecken</u>	<u>Sólo variedades con flores con estrías o manchas distribuidas irregularmente: Flor: color de estrías o manchas</u>		
PQ	(b) white and red	blanches et rouges	weiß und rot	blanco y rojo		1
	only red	seulement rouges	nur rot	sólo rojo	Gradowi	2
	purple	pourpres	purpurn	púrpura		3
36. (+)	Sepal: reflexing	Sépale : courbure	Kelchblatt: Zurückbiegung	Sépalo: curvatura		
QN	(b) absent or weak	absente ou faible	fehlend oder gering	ausente o débil		1
	moderate	modérée	mittel	moderada		2
	strong	forte	stark	fuerte		3
37.	Sepal: anthocyanin coloration in middle of broadest sepal	Sépale : pigmentation anthocyanique de la partie centrale du sépale le plus large	Kelchblatt: Anthocyanfärbung in der Mitte des breitesten Kelchblattes	Sépalo: pigmentación antocianica en el medio del sépalo más ancho		
QN	(b) absent or very weak	nulle ou très faible	fehlend oder sehr gering	ausente o muy débil	Fisroweiss	1
	weak	faible	gering	débil	Fisrocky Dark Red	3
	medium	moyenne	mittel	media	Genbelsca	5
	strong	forte	stark	fuerte	Sil Tedo	7
	very strong	très forte	sehr stark	muy fuerte		9
38.	Upper petal: width	Pétale supérieur : largeur	Oberes Blütenblatt: Breite	Pétalo superior: anchura		
QN	(b) narrow	étroite	schmal	estrecha	KLEP04133	3
	medium	moyenne	mittel	media	Zolirsca	5
	broad	large	breit	ancha	KLEP03106	7

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
39. (+)	Upper petal: shape	Pétale supérieur : forme	Oberes Blütenblatt: Form	Pétalo superior: forma		
PQ	(b) rhombic	losangique	rhombisch	rómbica		1
	round	ronde	rund	redonda		2
	obtriangular	obtriangulaire	verkehrt dreieckig	obtriangular		3
	spatulate	spatulée	löffelförmig	espatulada		4
40. (+)	Upper petal: margin of apical part	Pétale supérieur : bord de la partie apicale	Oberes Blütenblatt: oberer Rand	Pétalo superior: borde de la zona apical		
PQ	(b) entire	entier	ganzrandig	entero		1
	emarginate	émarginé	gespalten	emarginado		2
	lacinate	lacéré	gefranst	laciniado		3
41. (* (+)	Upper petal: color of margin of upper side	Pétale supérieur : couleur du bord de la face supérieure	Oberes Blütenblatt: Farbe des Randes der Oberseite	Pétalo superior: color del borde del haz		
PQ	(b) RHS Colour Chart (c) (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence	RHS-Farbkarte (Nummer angeben)	Carta de colores RHS (indíquese el número de referencia)		
42. (* (+)	Upper petal: color of middle of upper side	Pétale supérieur : couleur de la partie centrale de la face supérieure	Oberes Blütenblatt: Farbe der Mitte der Oberseite	Pétalo superior: color de la zona media del haz		
PQ	(b) RHS Colour Chart (c) (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence	RHS-Farbkarte (Nummer angeben)	Carta de colores RHS (indíquese el número de referencia)		
43. (* (+)	Upper petal: color of lower side	Pétale supérieur : couleur de la face inférieure	Oberes Blütenblatt: Farbe der Unterseite	Pétalo superior: color del envés		
PQ	(b) RHS Colour Chart (c) (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence	RHS-Farbkarte (Nummer angeben)	Carta de colores RHS (indíquese el número de referencia)		

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
44. (* (+)	Upper petal: conspicuousness of marking	Pétale supérieur : netteté des ornementations	Oberes Blütenblatt: Ausprägung der Zeichnung	Pétalo superior: visibilidad de las manchas		
QN	(b) absent or very weak (c) weak medium strong	nulle ou très faible faible moyenne forte	fehlend oder sehr gering gering mittel stark	ausente o muy débil débil media fuerte	Fisum Pink Zoldarobo Zonadarolo Genda	1 3 5 7
45. (* (+)	Upper petal: type of marking	Pétale supérieur : type d'ornementations	Oberes Blütenblatt: Art der Zeichnung	Pétalo superior: tipo de manchas		
PQ	(b) stripes only (c) stripes and dots stripes and spot/spots single spot only	stries seulement stries et points stries et tache/taches une seule tache seulement	nur gestreift gestreift und Punkte gestreift und Fleck/Flecken nur einzelner Fleck	sólo rayas rayas y puntos rayas y una o más manchas sólo una mancha		1 2 3 4
46. (+)	Upper petal: size of largest spot	Pétale supérieur : taille de la tache la plus grande	Oberes Blütenblatt: Größe des größten Flecks	Pétalo superior: tamaño de la mancha más grande		
QN	(b) small (c) medium large	petite moyenne grande	klein mittel groß	pequeño medio grande		3 5 7
47. (+)	Upper petal: color of spot	Pétale supérieur : couleur de la tache	Oberes Blütenblatt: Farbe des Flecks	Pétalo superior: color de la mancha		
PQ	(b) RHS Colour Chart (c) (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence)	RHS-Farbkarte (Nummer angeben)	Carta de colores RHS (indíquese el número de referencia)		
48. (* (+)	Upper petal: zone at base	Pétale supérieur : zone à la base	Oberes Blütenblatt: Zone an der Basis	Pétalo superior: zona en la base		
QL	(b) absent (c) present	absente présente	fehlend vorhanden	ausente presente	KLEP03106 Sil Merle	1 9

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
49.	<u>Upper</u> petal: size of zone at base	Pétale <u>supérieur</u> : taille de la zone à la base	<u>Oberes</u> Blütenblatt: Größe der Zone an der Basis	Pétalo <u>superior</u>: tamaño de la zona en la base		
QN	(b) small	petite	klein	pequeño	Swero	3
	(c) medium	moyenne	mittel	medio	Sil Merle	5
	large	grande	groß	grande		7
50. (*)	<u>Upper</u> petal: color of zone at base	Pétale <u>supérieur</u> : couleur de la zone à la base	<u>Oberes</u> Blütenblatt: Farbe der Zone an der Basis	Pétalo <u>superior</u>: color de la zona en la base		
PQ	(b) white	blanche	weiß	blanco	Sil Merle	1
	(c) red pink	rose rouge	rotrosa	rosa rojizo	Pacsalpri	2
	orange red	rouge orangé	orangerot	rojo anaranjado	Ballurvio	3
	light violet	violet clair	hellviolett	violeta claro	Clip Velred	4
51. (*) (+)	<u>Lower</u> petal: color of margin of <u>upper</u> side	Pétale <u>inférieur</u> : couleur du bord de la face supérieure	<u>Unteres</u> Blütenblatt: Farbe des Randes der <u>Oberseite</u>	Pétalo <u>inferior</u>: color del borde del <u>haz</u>		
PQ	(b) RHS Colour Chart	Code RHS des couleurs	RHS-Farbkarte	Carta de colores RHS		
	(c) (indicate reference number)	(indiquer le numéro de référence)	(Nummer angeben)	(indíquese el número de referencia)		
52. (*) (+)	<u>Lower</u> petal: color of middle of <u>upper</u> side	Pétale <u>inférieur</u> : couleur de la partie centrale de la face <u>supérieure</u>	<u>Unteres</u> Blütenblatt: Farbe der Mitte der <u>Oberseite</u>	Pétalo <u>inferior</u>: color de la zona media del <u>haz</u>		
PQ	(b) RHS Colour Chart	Code RHS des couleurs	RHS-Farbkarte	Carta de colores RHS		
	(c) (indicate reference number)	(indiquer le numéro de référence)	(Nummer angeben)	(indíquese el número de referencia)		
53. (*)	<u>Lower</u> petal: color of <u>lower</u> side	Pétale <u>inférieur</u> : couleur de la face <u>inférieure</u>	<u>Unteres</u> Blütenblatt: Farbe der <u>Unterseite</u>	Pétalo <u>inferior</u>: color del <u>envés</u>		
PQ	(b) RHS Colour Chart	Code RHS des couleurs	RHS-Farbkarte	Carta de colores RHS		
	(c) (indicate reference number)	(indiquer le numéro de référence)	(Nummer angeben)	(indíquese el número de referencia)		

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
54.	<u>Lower petal:</u> conspicuousness of marking	<u>Pétale inférieur :</u> netteté des ornementations	<u>Unteres Blütenblatt:</u> Ausprägung der Zeichnung	<u>Pétalo inferior:</u> visibilidad de las manchas		
(+)						
QN	(b) absent or very weak	nulle ou très faible	fehlend oder sehr gering	ausente o muy débil	Sil Merle	1
	(c) weak	faible	gering	débil	Zomelo	3
	medium	moyenne	mittel	media	Zonadarolo	5
	strong	forte	stark	fuerte	Swero	7
55.	<u>Lower petal: type of</u> marking	<u>Pétale inférieur :</u> type d'ornementations	<u>Unteres Blütenblatt:</u> Art der Zeichnung	<u>Pétalo inferior: tipo</u> de manchas		
(+)						
PQ	(b) stripes only	stries seulement	nur gestreift	sólo rayas		1
	(c) stripes and dots	stries et points	gestreift und Punkte	rayas y puntos		2
	stripes and spot/spots	stries et tache/taches	gestreift und Fleck/Flecken	rayas y una o más manchas		3
	single spot only	une seule tache seulement	nur einzelner Fleck	sólo una única mancha		4
56.	<u>Lower petal: size of</u> largest spot	<u>Pétale inférieur :</u> de la tache la plus grande	<u>Unteres Blütenblatt:</u> Größe des größten Flecks	<u>Pétalo inferior:</u> tamaño de la mancha más grande		
(+)						
QN	(b) small	petite	klein	pequeño		3
	(c) medium	moyenne	mittel	medio		5
	large	grande	groß	grande		7
57.	<u>Lower petal: zone at</u> base	<u>Pétale inférieur :</u> à la base	<u>Unteres Blütenblatt:</u> Zone an der Basis	<u>Pétalo inferior: zona</u> en la base		
QN	(b) absent	absente	fehlend	ausente	Fisum Pink	1
	(c) present	présente	vorhanden	presente	Sil Linus	9

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
58.	<u>Lower petal: size of zone at base</u>	<u>Pétale inférieur : taille de la zone à la base</u>	<u>Unteres Blütenblatt: Größe der Zone an der Basis</u>	<u>Pétalo inferior: tamaño de la zona en la base</u>		
QN	(b) small	petite	klein	pequeño	Duevipifiz	3
	(c) medium	moyenne	mittel	medio	Sil Linus	5
	large	grande	groß	grande		7
59.	<u>Lower petal: color of zone at base</u>	<u>Pétale inférieur : couleur de la zone à la base</u>	<u>Unteres Blütenblatt: Farbe der Zone an der Basis</u>	<u>Pétalo inferior: color de la zona en la base</u>		
PQ	(b) white	blanche	weiß	blanco		1
	(c) orange red	rouge orangé	orangerot	rojo anaranjado		2
	blue pink	rose bleuté	blaurosa	rosa azulado		3
	violet	violet	violett	violeta		4
60. (*)	<u>Only varieties with flower type: double: Inner petal: color of middle of upper side</u>	<u>Variétés à type de fleur : double seulement : Pétale interne : couleur de la partie centrale de la face supérieure</u>	<u>Nur Sorten mit Blüte: Typ: gefüllt: Inneres Blütenblatt: Farbe der Mitte der Oberseite</u>	<u>Sólo variedades con flor tipo: doble: Pétalo interno: color de la zona media del haz</u>		
PQ	(b) RHS Colour Chart (indicate reference number)	Code RHS des couleurs (indiquer le numéro de référence)	RHS-Farbkarte (Nummer angeben)	Carta de colores RHS (indíquese el número de referencia)		

8. Explanations on the Table of Characteristics

8.1 *Explanations covering several characteristics*

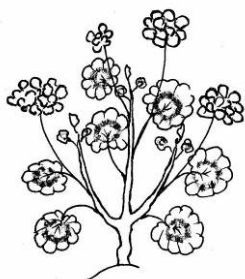
All observation should be made at the time of full flowering unless otherwise stated.

Characteristics containing the following key in the second column of the Table of Characteristics should be examined as indicated below:

- (a) Observations on the stem and the leaf should be made at the base of the second inflorescence of the strongest stem. All observations on the leaf should be made on the upper side.
- (b) Observations on the inflorescence and the flower should be made on the second inflorescence of the strongest stem.
- (c) Observations should be made on varieties with flowers without irregularly distributed stripes or blotches only.

8.2 *Explanations for individual characteristics*

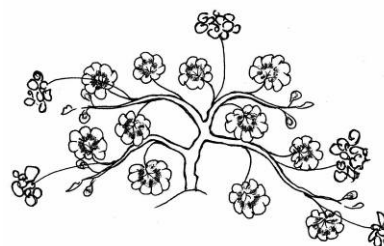
Ad. 1: Plant: growth type



1
upright



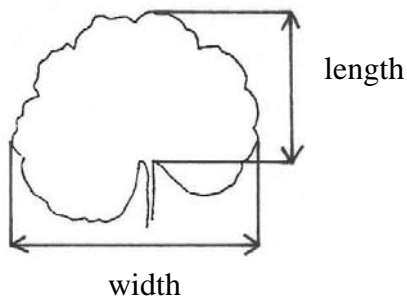
2
semi-upright



3
trailing

Ad. 7: Leaf blade: length

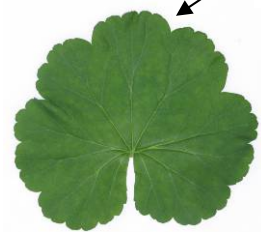
Ad. 8: Leaf blade: width



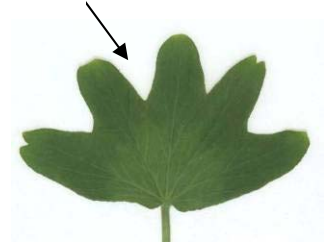
Ad. 9: Leaf blade: depth of sinus



1
absent or very shallow

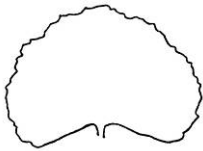


5
medium

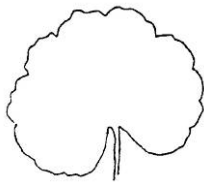


7
deep

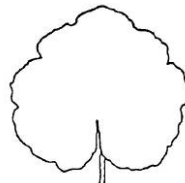
Ad. 11: Leaf blade: base



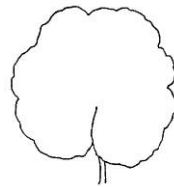
1
wide open



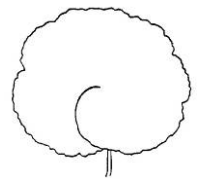
3
slightly open



5
closed



7
partly overlapping



9
strongly overlapping

Ad. 13: Leaf blade: main color (zone excluded)

Main color: color of the largest area of the leaf blade. If the area of the colors is nearly half and half, the darker color is the main color.

Ad. 16: Leaf blade: conspicuousness of zone



1
absent or very weak



3
weak



5
medium



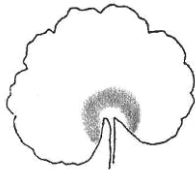
7
strong



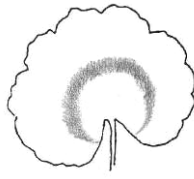
9
very strong

The conspicuousness is determined by the color contrast.

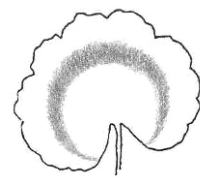
Ad. 17: Leaf blade: position of zone



1
towards base

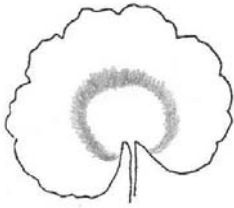


2
in middle

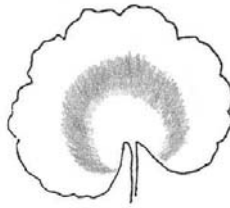


3
towards margin

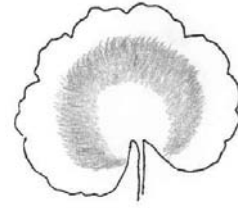
Ad. 18: Leaf blade: relative size of zone



1
small



3
medium



5
large

Ad. 20: Peduncle: anthocyanin coloration on middle third



1
absent or very
weak

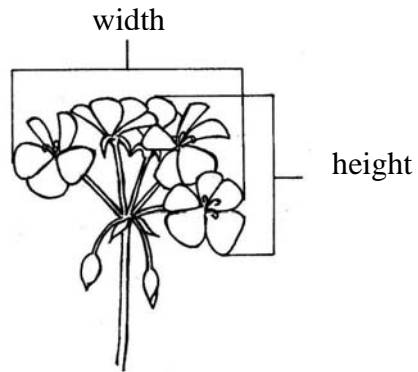
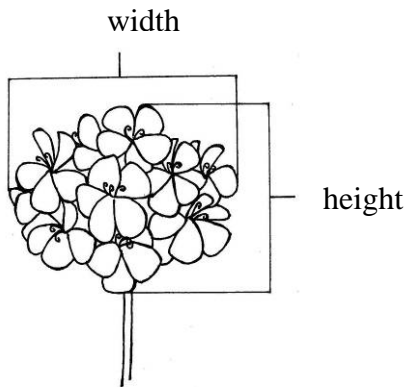
3
weak

5
medium

7
strong

Ad. 21: Inflorescence: height

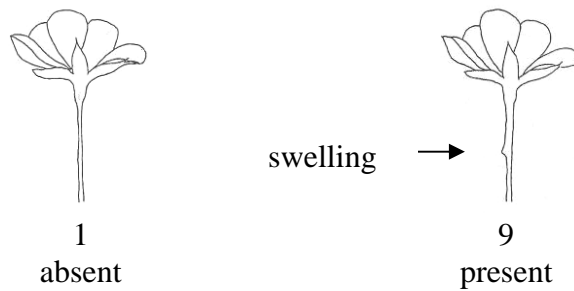
Ad. 22: Inflorescence: width



Ad. 23: Inflorescence: number of open flowers

To be observed as the number of flowers open at one time.

Ad. 28: Pedicel: swelling

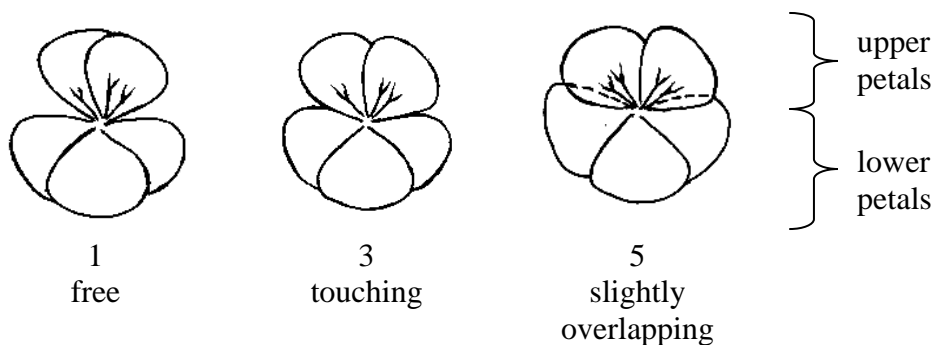


In varieties where the swelling is “absent”, there may occasionally be pedicels with a swelling. In varieties where the swelling is “present”, there may occasionally be pedicels without swelling.

Ad. 29: Flower: type

A single flower has 5 petals only. A double flower has more than 5 petals.

Ad. 30: Only varieties with flower type: single: Flower: arrangement of upper petals in relation to lower petals



Ad. 32: Flower: cross section in lateral view



1
concave



2
flat



3
convex

Ad. 33: Flower: presence of irregularly distributed stripes or blotches



1
absent

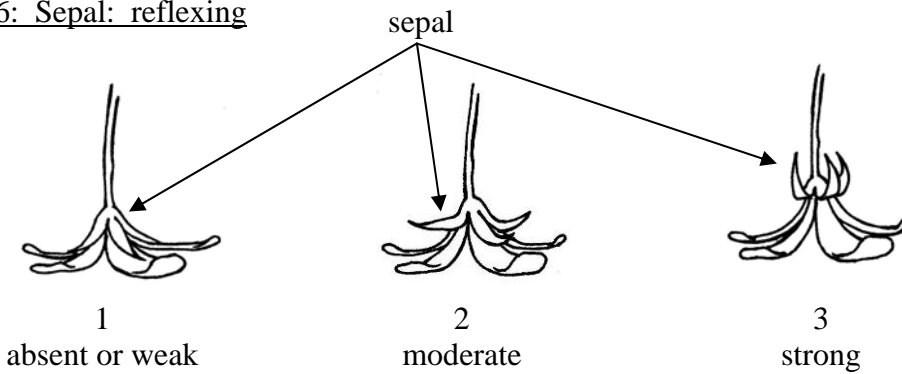


9
present

Ad. 34: Only varieties with flowers with irregularly distributed stripes or blotches: Flower: main color

The main color is the color with the largest surface area.

Ad. 36: Sepal: reflexing



Ad. 39: Upper petal: shape



1
rhombic



2
round

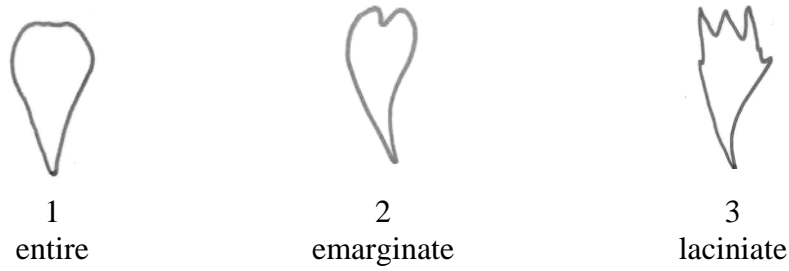


3
obtriangular



4
spatulate

Ad. 40: Upper petal: margin of apical part



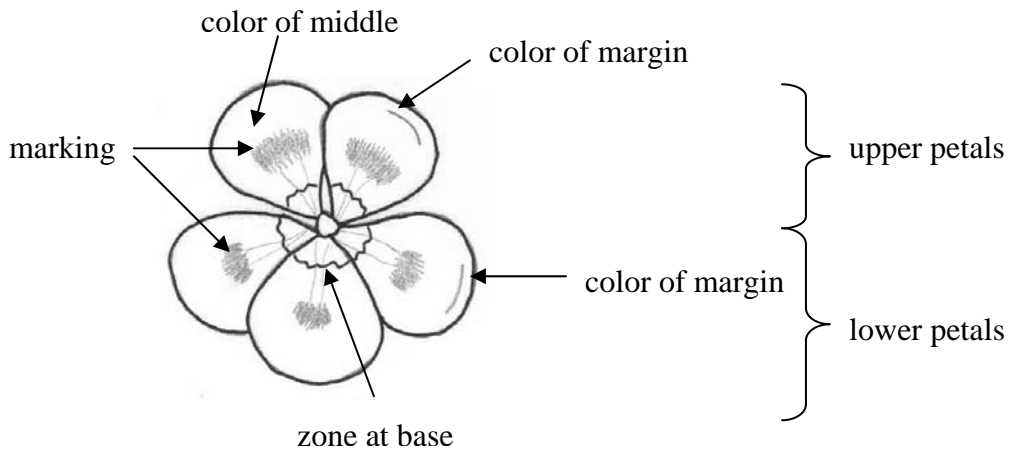
Ad. 41: Upper petal: color of margin of upper side

Ad. 42: Upper petal: color of middle of upper side

Ad. 48: Upper petal: zone at base

Ad. 51: Lower petal: color of margin of upper side

Ad. 52: Lower petal: color of middle of upper side

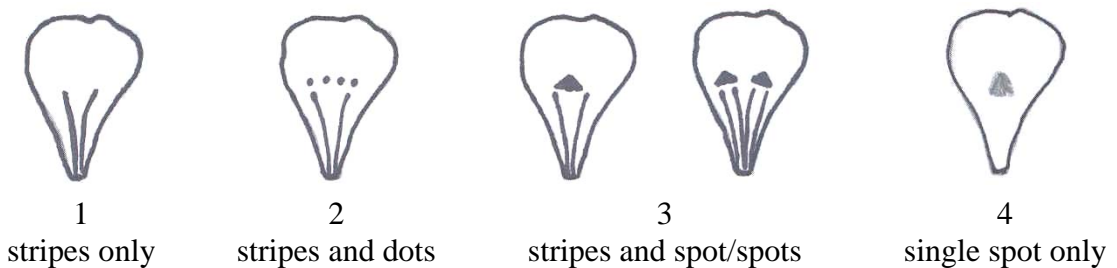


Ad. 44: Upper petal: conspicuousness of marking

The conspicuousness is determined by the color contrast.

Ad. 45: Upper petal: type of marking

Ad. 55: Lower petal: type of marking



Ad. 46: Upper petal: size of largest spot

Ad. 56: Lower petal: size of largest spot



3
small



5
medium



7
large

Ad. 47: Upper petal: color of spot

Only for varieties with spot of sufficient size to use RHS Colour Chart.

Ad. 54: Lower petal: conspicuousness of marking

The conspicuousness is determined by the color contrast.

9. Literature

Maatsch et al, 1977: Pelargonien: Geschichte, Kultur, Wirtschaftlichkeit, Züchtung. Verlag Paul Parey, Berlin, Hamburg, DE, 116 pp.

10. Technical Questionnaire

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
		Application date: (not to be filled in by the applicant)
TECHNICAL QUESTIONNAIRE to be completed in connection with an application for plant breeders' rights		
1. Subject of the Technical Questionnaire		
1.1.1 Botanical name	<input type="text" value="Pelargonium Zonale Group
(syn. Pelargonium xhortorum L.H. Bailey)"/>	[]
1.1.2 Common name	<input type="text" value="Zonal Pelargonium"/>	
1.2.1 Botanical name	<input type="text" value="Pelargonium peltatum (L.) Hér."/>	[]
1.2.2 Common name	<input type="text" value="Ivy-leaved Pelargonium"/>	
Hybrid: please indicate name(s) of species used in the crossing		
1.3 Botanical name	<input type="text"/>	[]
2. Applicant		
Name	<input type="text"/>	
Address	<input type="text"/>	
Telephone No.	<input type="text"/>	
Fax No.	<input type="text"/>	
E-mail address	<input type="text"/>	
Breeder (if different from applicant)	<input type="text"/>	

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3. Proposed denomination and breeder's reference

Proposed denomination
(if available)

Breeder's reference

#4. Information on the breeding scheme and propagation of the variety

4.1 Breeding scheme

Variety resulting from:

4.1.1 Crossing

(a) controlled cross
(please state parent varieties)

(b) partially known cross
(please state known parent variety(ies))

(c) unknown cross

4.1.2 Mutation
(please state parent variety)

4.1.3 Discovery and development
(please state where and when discovered and how developed)

4.1.4 Other
(please provide details)

Authorities may allow certain of this information to be provided in a confidential section of the Technical Questionnaire.

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4.2 Method of propagating the variety

4.2.1 Seed-propagated varieties

- (a) Self-pollination []
- (b) Cross pollination
 - (i) population []
 - (ii) synthetic variety []
- (c) Hybrid []
- (d) Other []
(please provide details)

4.2.2 Vegetative propagation

- (a) cuttings []
- (b) *in vitro* propagation []
- (c) other (state method) []

- 4.2.3 Other []
(please provide details)

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5. Characteristics of the variety to be indicated (the number in brackets refers to the corresponding characteristic in Test Guidelines; please mark the note which best corresponds).

Characteristics	Example Varieties	Note
5.1 Leaf blade: variegation (12)		
absent	Sil Merle	1[]
present	Penevro	9[]
5.2 Leaf blade: main color (zone excluded) (13)		
yellow		1[]
light green		2[]
light green to medium green	Zowit	3[]
medium green	Sil Merle	4[]
medium green to dark green	KLEP031106	5[]
dark green	Zolirsca	6[]
dark red	Vancouver Centennial	7[]
dark purple	Black Magic	8[]
other (indicate color)	
5.3 Leaf blade: conspicuousness of zone (16)		
absent or very weak	Zowit	1[]
weak	Zolirsca	3[]
medium	Zolarlet	5[]
strong	Pascalpri	7[]
very strong	Baldescarim	9[]

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Characteristics		Example Varieties	Note
5.4	Peduncle: anthocyanin coloration on middle third		
(20)			
	absent or very weak		1[]
	weak		3[]
	medium		5[]
	strong		7[]
5.5	Flower: type		
(29)			
	single		1[]
	double		2[]
5.6	Upper petal: conspicuousness of marking		
(44)			
	absent or very weak	Fisum Pink	1[]
	weak	Zoldarobo	3[]
	medium	Zonadarolo	5[]
	strong	Genda	7[]
5.7	Upper petal: type of marking		
(45)			
	stripes only		1[]
	stripes and dots		2[]
	stripes and spot/spots		3[]
	single spot only		4[]
5.8i	Lower petal: color of middle of upper side		
(52)			
	RHS Colour Chart (indicate reference number)	

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Characteristics	Example Varieties	Note
5.8ii Lower petal: color of middle of upper side (52)		
white		1[]
orange pink		2[]
orange		3[]
red		4[]
purple		5[]
blue pink		6[]
other (indicate color)	

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6. Similar varieties and differences from these varieties

Please use the following table and box for comments to provide information on how your candidate variety differs from the variety (or varieties) which, to the best of your knowledge, is (or are) most similar. This information may help the examination authority to conduct its examination of distinctness in a more efficient way.

Denomination(s) of variety(ies) similar to your candidate variety	Characteristic(s) in which your candidate variety differs from the similar variety(ies)	Describe the expression of the characteristic(s) for the similar variety(ies)	Describe the expression of the characteristic(s) for your candidate variety
<i>(Example)</i>	<i>Flower: type</i>	<i>single</i>	<i>double</i>

Comments:

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#7. Additional information which may help in the examination of the variety

7.1 In addition to the information provided in sections 5 and 6, are there any additional characteristics which may help to distinguish the variety?

Yes [] No []

(If yes, please provide details)

7.2 Are there any special conditions for growing the variety or conducting the examination?

Yes [] No []

(If yes, please provide details):

7.3 Other information

A representative color photograph of the variety should accompany the Technical Questionnaire.

8. Authorization for release

(a) Does the variety require prior authorization for release under legislation concerning the protection of the environment, human and animal health?

Yes [] No []

(b) Has such authorization been obtained?

Yes [] No []

If the answer to (b) is yes, please attach a copy of the authorization.

Authorities may allow certain of this information to be provided in a confidential section of the Technical Questionnaire.

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9. Information on plant material to be examined or submitted for examination.

9.1 The expression of a characteristic or several characteristics of a variety may be affected by factors, such as pests and disease, chemical treatment (e.g. growth retardants or pesticides), effects of tissue culture, different rootstocks, scions taken from different growth phases of a tree, etc.

9.2 The plant material should not have undergone any treatment which would affect the expression of the characteristics of the variety, unless the competent authorities allow or request such treatment. If the plant material has undergone such treatment, full details of the treatment must be given. In this respect, please indicate below, to the best of your knowledge, if the plant material to be examined has been subjected to:

- | | | |
|---|---------|--------|
| (a) Microorganisms (e.g. virus, bacteria, phytoplasma) | Yes [] | No [] |
| (b) Chemical treatment (e.g. growth retardant, pesticide) | Yes [] | No [] |
| (c) Tissue culture | Yes [] | No [] |
| (d) Other factors | Yes [] | No [] |

Please provide details for where you have indicated "yes".

.....

10. I hereby declare that, to the best of my knowledge, the information provided in this form is correct:

Applicant's name

Signature Date

[End of document]