



A complete range of **Enza Zaden** vegetable seed varieties offered in organic seed form, sold under the **Enza Zaden - Vitalis** brand. Please ask your Area Sales Manager for further information.



All our seeds are produced organically. The seeds are grown in compliance with EU-regulation (EEC) 2092/91 for organic production. Our SKAL registration number is 017981.



We are certified for the National Organic Program Standards of the USDA. Certificate number CU800388.

# Enza Zaden's **sweetgreen™** wins the Fruit Logistica Innovation Award

Enza Zaden won the prestigious Fruit Logistica Innovation Award for its product Sweetgreen, the sweet green pepper with a high vitamin C content. This award is presented yearly to the trade's most innovative product or service at the Fruit Logistica in Berlin, the world's most important international fruit and vegetable fair.

The innovative company Enza Zaden was nominated for the second year in a row. Last year, the Dutch company from Enkhuizen was put forward for the award with the Oriental Cucumber, which ended second. This year, Enza Zaden won the first prize with the sweet tasting green pepper Sweetgreen. This pepper variety retains its green colour throughout the ripening process. It is, contrary to the conventional green pepper, a mature fruit and therefore it tastes sweet. Besides this higher sugar content of at least thirty percent, the vitamin C content of Sweetgreen can also be fifty percent higher than the normal green pepper. The fruit's vitamin content can therefore be compared to an orange pepper.

All companies participating at the fair may compete for the Innovation Award by sending in an innovative product or service. From all entries, ten of them are nominated for the prize. Visitors of the three day fair, more than fifty thousand, subsequently vote for the innovation of the year, which this year was Sweetgreen!



## Geboorte van zoete paprika



Wouter Lindeman in een kas voor het kweken van de zoete groene paprika bij Enza Zaden in Enkhuizen.

FOTO HERMAN WOUTERS



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# Disclaimer | Resistances

Descriptions, recommendations and illustrations in brochures and leaflets shall correspond as closely as possible to tests and practical experience. This information shall be provided to assist professional growers and users, whereby variable local conditions must be taken into account. Under no circumstances shall Enza Zaden accept liability based on such information for deviating results in the cultivated product. The Purchaser shall itself determine whether the items are suitable for the intended cultivation and whether they can be used under local circumstances. Current information concerning the resistances is available on [www.enzazaden.com](http://www.enzazaden.com).

The General Terms and Conditions of Enza Zaden apply to all contracts entered into by Enza Zaden. The General Terms and Conditions are published in this brochure and/or are further available on our website [www.enzazaden.com](http://www.enzazaden.com), are available at the Chamber of Commerce Noordwest Holland in Alkmaar (The Netherlands) and will be sent to you, free of charge, upon your request.

Your attention is required for:

Resistances in varieties of our crops will be coded (see for explanation our coding list at [www.enzazaden.com](http://www.enzazaden.com)), unless indicated otherwise. In case a variety is resistant to more than one pathogen, the individual resistance codes will be separated by the symbol "/".

- If in a resistance code of a certain variety reference is made to certain strains for which the resistance is claimed this means that no resistance is claimed to other strains of the same pathogen.
- If in a resistance code no reference is made to

strains of the pathogen for which the resistance is claimed this means that resistance is claimed only to certain not further specified strains of the pathogen and herewith disclaiming any guarantee that the variety will not be infected by the said pathogen.

Two examples:

Tm: A Tm:0-3 resistant sweet pepper variety is resistant to Tobamo (Bell Pepper Mosaic Virus, Pepper Mild Mottle Virus, Tobacco Mild Green Mosaic Virus, Tobacco Mosaic Virus, Tomato Mosaic Virus) strain 0,1,2 and 3.

TSWV: A TSWV resistant variety has resistance to certain non specified strains of Tomato Spotted Wilt Virus

Two levels of resistance are defined:

High resistance (HR) - plant varieties that highly restrict the growth and development of the specified pest or pathogen under normal pest or pathogen pressure when compared to susceptible varieties. These plant varieties may, however, exhibit some symptoms or damage under heavy pest or pathogen pressure.

Intermediate resistance (IR) - plant varieties that restrict the growth and development of the specified pest or pathogen, but may exhibit a greater range of symptoms or damage compared to highly resistant plant varieties. Intermediately resistant plant varieties will still show less severe symptoms or damage than susceptible plant varieties when grown under similar environmental conditions and/or pest or pathogen pressure.



	Code	Scientific name	English name		Code	Scientific name	English name
<b>Tomato</b>							
<b>Viruses</b>	BCTV	<i>Beet curly top virus</i>	Curly top	<b>Fungi</b>	Fol	<i>Fusarium oxysporum</i> f.sp. <i>lycopersici</i>	Fusarium wilt
	CMV	<i>Cucumber mosaic virus</i>	Cucumber mosaic		For	<i>Fusarium oxysporum</i> f.sp. <i>radicis-lycopersici</i>	Fusarium crown and root rot
	PepMV	<i>Pepino mosaic potexvirus</i>	Pepino mosaic virus		Lt	<i>Leveillula taurica</i> (anamorph: <i>Oidiopsis sicula</i> )	Powdery mildew
	TMV	<i>Tobacco mosaic virus</i>	Tobacco mosaic		On	<i>Oidium neolycopersici</i> (ex <i>Oidium lycopersicum</i> )	Powdery mildew
	TSWV	<i>Tomato spotted wilt virus</i>	Tomato spotted wilt		Pi	<i>Phytophthora infestans</i>	Late blight
	ToMV	<i>Tomato mosaic virus</i>	Tomato mosaic		Pp	<i>Phytophthora parasitica</i>	Buckeye fruit and root rot
	TYLCV	<i>Tomato yellow leaf curl virus</i>	Tomato yellow leaf curl		Pl	<i>Pyrenochaeta lycopersici</i>	Corky root rot
<b>Bacteria</b>	Cmm	<i>Clavibacter michiganensis</i> subsp. <i>michiganensis</i>	Bacterial canker		Sbl	<i>Stemphylium botryosum</i> f.sp. <i>lycopersici</i>	Gray leaf spot
	Pc	<i>Pseudomonas corrugata</i>	Pith necrosis		Sl	<i>Stemphylium lycopersici</i>	Gray leaf spot
	Pst	<i>Pseudomonas syringae</i> pv. <i>tomato</i>	Bacterial speck		Ss	<i>Stemphylium solani</i>	Gray leaf spot
	Rs	<i>Ralstonia solanacearum</i>	Bacterial wilt		Va	<i>Verticillium albo-atrum</i>	Verticillium wilt
	Xcv	<i>Xanthomonas vesicatoria</i> (ex. <i>Xanthomonas campestris</i> pv. <i>vesicatori</i> )	Bacterial spot		Vd	<i>Verticillium dahliae</i>	Verticillium wilt
<b>Fungi</b>	Aal	<i>Alternaria alternata</i> f.sp. <i>lycopersici</i>	Alternaria stem canker	<b>Nematode</b>	Ma	<i>Meloidogyne arenaria</i>	Root-knot
	As	<i>Alternaria solani</i>	Early blight		Mi	<i>Meloidogyne incognita</i>	Root-knot
	Cc	<i>Corynespora cassiicola</i>	Target spot		Mj	<i>Meloidogyne javanica</i>	Root-knot
	Ff	<i>Fulvia fulva</i> (ex <i>Cladosporium fulvum</i> )	Leaf mold				
<b>Pepper</b>							
<b>Viruses</b>	ChiVMV	<i>Chili veinal mosaic virus</i>	Chili veinal mosaic	<b>Bacteria</b>	Rs (BW)	<i>Ralstonia solanacearum</i>	Bacterial wilt
	CMV	<i>Cucumber Mosaic Virus</i>	Cucumber mosaic		Xv (Xant, Xcv)	<i>Xanthomonas vesicatoria</i> (ex <i>Xanthomonas campestris</i> pv. <i>vesicatoria</i> )	Bacterial spot
	PepMoV	<i>Pepper Mottle Virus</i>	Pepper mottle	<b>Fungi</b>	Foc	<i>Fusarium oxysporum</i> f. sp. <i>capsici</i>	Fusarium wilt
	PepYMV	<i>Pepper yellow mosaic virus</i>	Pepper yellow mosaic		Pc	<i>Phytophthora capsici</i>	Buckeye fruit and root rot
	PVY	<i>Potato Y Virus</i>	Potato Y		Lt	<i>Leveillula taurica</i> (anamorph: <i>Oidiopsis sicula</i> )	Leveillula taurica
	TEV	<i>Tobacco etch Virus</i>	Tobacco etch	<b>Nematode</b>	Mi	<i>Meloidogyne incognita</i>	Root-knot
	TSWV	<i>Tomato Spotted Wilt Virus</i>	Tomato spotted wilt		Ma	<i>Meloidogyne arenaria</i>	Root-knot
<b>Tobamovirus group</b>	Tm:0-3	<i>Pepper mild mottle virus, Tobacco mild green mosaic virus, Tobacco mosaic virus, Tomato mosaic virus.</i>			Mj	<i>Meloidogyne javanica</i>	Root-knot
<b>Cucumber</b>							
<b>Viruses</b>	CGMMV	<i>Cucumber green mottle mosaic virus</i>	Cucumber green mottle	<b>Fungi</b>	Ccu	<i>Cladosporium cucumerinum</i>	Scab and gummosis
	CMV	<i>Cucumber mosaic virus</i>	Cucumber mosaic		Co	<i>Colletotrichum orbiculare</i>	Anthraxnose
	CVYV	<i>Cucumber vein yellowing virus</i>	Cucumber vein yellowing		Cca	<i>Corynespora cassiicola</i>	Corynespora blight and target spot
	CYSDV	<i>Cucurbit yellow stunting disorder virus</i>	Cucumber Yellowing Stunting disorder		Db	<i>Didymella bryoniae</i>	Gummy stem blight
	KGMMV	<i>Kyuri green mottle mosaic virus</i>	Cucumber green mottle		Ec (now Gc)	<i>Erysiphe cichoracearum</i> (now <i>Golovinomyces cichoracearum</i> )	Powdery mildew
	PRSV	<i>Papaya ringspot virus</i>	Papaya ringspot		Foc	<i>Fusarium oxysporum</i> f.sp. <i>cucumerinum</i>	Fusarium wilt
	WMV	<i>Watermelon mosaic virus</i>	Watermelon mosaic		For	<i>Fusarium oxysporum</i> f.sp. <i>radicis-cucumerinum</i>	Fusarium crown and root rot
	ZYMV	<i>Zucchini yellow mosaic virus</i>	Zucchini yellows		Fsc	<i>Fusarium solani</i> f.sp. <i>cucurbitae</i>	Crown and root rot
<b>Bacteria</b>	Et	<i>Erwinia tracheiphila</i>	Bacterial wilt		Pcu	<i>Pseudoperonospora cubensis</i>	Downy mildew
	Psl	<i>Pseudomonas syringae</i> pv. <i>lachrymans</i>	Angular leaf spot		Px	<i>Sphaerotheca fuliginea</i> (now <i>Podosphaeria xanthii</i> )	Powdery mildew

	Code	Scientific name	English name		Code	Scientific name	English name
<b>Squash</b>							
<b>Viruses</b>	CGMMV	<i>Cucumber green mottle mosaic virus</i>	Cucumber green mottle mosaic		Foc	<i>Fusarium oxysporum</i> f.sp. <i>cucumerinum</i>	Fusarium wilt
	CMV	<i>Cucumber mosaic virus</i>	Cucumber mosaic		Fol	<i>Fusarium oxysporum</i> f.sp. <i>lagenariae</i>	Fusarium wilt
	LYMV	<i>Luffa yellow mosaic virus</i>	Luffa yellow mosaic		Fom	<i>Fusarium oxysporum</i> f.sp. <i>melonis</i>	Fusarium wilt
	PRSV	<i>Papaya ringspot virus</i>	Papaya ringspot		Fon	<i>Fusarium oxysporum</i> f.sp. <i>niveum</i>	Fusarium wilt
	SqMV	<i>Squash mosaic virus</i>	Squash mosaic		Fsc	<i>Fusarium solani</i> f.sp. <i>cucurbitae</i>	Crown and root rot
	WMV	<i>Watermelon mosaic virus</i>	Watermelon mosaic		Ps	<i>Phomopsis sclerotioides</i>	Black root rot
	MWMV	<i>Watermelon morocconmosaic virus</i>	Moroccan watermelon mosaic		Pa	<i>Pythium aphanidermatum</i>	Damping off , Pythium fruit rot (cottony leak)
	ZYMV	<i>Zucchini yellow mosaic virus</i>	Zucchini yellows		Pc	<i>Phytophthora capsici</i>	Phytophthora crown and root rot
<b>Bacteria</b>	Aac	<i>Acidovorax avenae</i> subsp. <i>citrulli</i>	Bacterial fruit blotch		Pcu	<i>Pseudoperonospora cubensis</i>	Downy mildew
<b>Fungi</b>	Db	<i>Didymella bryoniae</i>	Gummy sten blight		Px	<i>Sphaerotheca fuliginea</i> (now <i>Podosphaera xanthii</i> )	Powdery mildew
	Ec (now Gc)	<i>Erysiphe cichoracearum</i> (now <i>Golovinomyces cichoracearum</i> )	Powdery mildew				
<b>Eggplant</b>							
<b>Viruses</b>	ToMV	<i>Tomato mosaic virus</i>	Tabacco mosaic	<b>Fungi</b>	Fom	<i>Fusarium oxysporum</i> f.sp. <i>melongenae</i>	Fusarium wilt
	TSWV	<i>Tomato spotted wilt virus</i>	Tomato spotted wilt		Va	<i>Verticillium albo-atrum</i>	Verticillium wilt
<b>Bacteria</b>	Rs	<i>Ralstonia solanacearum</i>	Bacterial wilt		Vd	<i>Verticillium dahliae</i>	Verticillium wilt
				<b>Nematode</b>	Mi	<i>Meloidogyne incognita</i>	Root-knot
<b>Onion</b>							
<b>Viruses</b>	LYSV	<i>Leek yellow stripe virus</i>	Leek yellow stripe	<b>Fungi</b>	Pt	<i>Pyrenochaeta terrestris</i>	Pink Root
<b>Bacteria</b>	Psp	<i>Pseudomonas syringae</i> pv. <i>porri</i>	Pseudomonas leek blight		Sc	<i>Sclerotium cepivorum</i>	White Rot
<b>Fungi</b>	Ap	<i>Alternaria porri</i>	Purple Blotch	<b>Insects</b>	Tt	<i>Thrips tabaci</i>	Onion thrips
	Ba	<i>Botrytis allii</i>	Botrytis Neck Rot	<b>Nematode</b>	Dd	<i>Ditylenchus dipsaci</i>	Stem and bulb nematode
	Bs	<i>Botrytis squamosa</i>	Onion Leaf Blight				
	Cg	<i>Colletotrichum gloeosporioides</i>	Antracnose				
	Foc	<i>Fusarium oxysporum</i> f.sp. <i>cepae</i>	Basal Rot				
	Pd	<i>Peronospora destructor</i>	Downy Mildew				
	Pp	<i>Phytophthora porri</i>	White tip of leek				
	Pa	<i>Puccinia allii</i>	Rust				
<b>Lettuce</b>							
<b>Viruses</b>	BWYV	<i>Beet western yellows virus</i>	Yellows	<b>Fungi</b>	Bl	<i>Bremia lactucae</i>	Downy mildew
	CMV	<i>Cucumber mosaic virus</i>	Cucumber mosaic		Fol	<i>Fusarium oxysporum</i> f.sp. <i>lactucae</i>	Fusarium wilt
	LNSV	<i>Lettuce necrotic stunt virus</i>	Lettuce die-back		Mpa	<i>Microdochium panattonianum</i>	Anthracnose
	LMV	<i>Lettuce mosaic virus</i>	Lettuce mosaic	<b>Insects</b>	Me	<i>Macrosiphum euphorbiae</i>	Potato aphid
	MLBVV	<i>Mirafiori lettuce big-vein virus</i>	Lettuce big vein		Mpe	<i>Myzus persicae</i>	Green peach aphid
	TBSV	<i>Tomato bushy stunt virus</i>	Lettuce die-back		Nr	<i>Nasonovia ribisnigri</i>	Lettuce leaf aphid
	TSWV	<i>Tomato spotted wilt virus</i>	Spotted wilt		Pb	<i>Pemphigus bursarius</i>	Lettuce root aphid
<b>Bacteria</b>	Pc	<i>Pseudomonas cichorii</i>	Bacterial rot				
	Rs (now Ss)	<i>Rhizomonas suberifaciens</i> (now <i>Sphingomonas suberifaciens</i> )	Corky root				
	Xcv	<i>Xanthomonas campestris</i> pv. <i>vitiens</i>	Bacterial spot				

	Code	Scientific name	English name		Code	Scientific name	English name
<b>Melon</b>							
<b>Viruses</b>	CGMMV	<i>Cucumber green mottle mosaic virus</i>	Cucumber green mottle	<b>Bacteria</b>	Aac	<i>Acidovorax avenae</i> subsp. <i>citrulli</i>	Bacterial fruit blotch
	CMV	<i>Cucumber mosaic virus</i>	Cucumber mosaic	<b>Fungi</b>	Db	<i>Didymella bryoniae</i>	Gummy stem blight
	CVYV	<i>Cucumber vein yellowing virus</i>	Cucumber vein yellowing		Ec (now Gc)	<i>Erysiphe cichoracearum</i> (now <i>Golovinomyces cichoracearum</i> )	Powdery mildew
	MNSV	<i>Melon necrotic spot virus</i>	Melon necrotic spot		Fom	<i>Fusarium oxysporum</i> f.sp. <i>melonis</i>	Fusarium wilt
	PRSV	<i>Papaya ringspot virus</i>	Papaya ringspot		Pcu	<i>Pseudoperonospora cubensis</i>	Downy mildew
	WMV	<i>Watermelon mosaic virus</i>	Watermelon mosaic		Sf (now Px)	<i>Sphaerotheca fuliginea</i> (now <i>Podosphaeria xanthii</i> )	Powdery mildew
	ZYMV	<i>Zucchini yellow mosaic virus</i>	Zucchini yellows	<b>Insects</b>	Ag	<i>Aphis gossypii</i>	Cotton aphid
<b>Pumpkin</b>							
<b>Viruses</b>	CGMMV	<i>Cucumber green mottle mosaic virus</i>	Cucumber green mottle mosaic virus	<b>Fungi</b>	Foc	<i>Fusarium oxysporum</i> f.sp. <i>cucumerinum</i>	Fusarium wilt
	CMV	<i>Cucumber mosaic virus</i>	Cucumber mosaic		Fol	<i>Fusarium oxysporum</i> f.sp. <i>lagenariae</i>	Fusarium wilt
	LYMV	<i>Luffa yellow mosaic virus</i>	Luffa yellow mosaic		Fom	<i>Fusarium oxysporum</i> f.sp. <i>melonis</i>	Fusarium wilt
	PRSV	<i>Papaya ringspot virus</i>	Papaya ringspot		Fon	<i>Fusarium oxysporum</i> f.sp. <i>niveum</i>	Fusarium wilt
	SqMV	<i>Squash mosaic virus</i>	Squash mosaic		Fsc	<i>Fusarium solani</i> f.sp. <i>cucurbitae</i>	Crown and root rot
	WMV	<i>Watermelon mosaic virus</i>	Watermelon mosaic		Ps	<i>Phomopsis sclerotioides</i>	Black root rot
	MWMV	<i>Watermelon moroccanmosaic virus</i>	Moroccan watermelon mosaic		Pa	<i>Pythium aphanidermatum</i>	Damping off, Pythium fruit rot (cottony leak)
	ZYMV	<i>Zucchini yellow mosaic virus</i>	Zucchini yellows		Pc	<i>Phytophthora capsici</i>	Phytophthora crown and root rot
<b>Bacteria</b>	Aac	<i>Acidovorax avenae</i> subsp. <i>citrulli</i>	Bacterial fruit blotch		Pcu	<i>Pseudoperonospora cubensis</i>	Downy mildew
<b>Fungi</b>	Db	<i>Didymella bryoniae</i>	Gummy sten blight		Px	<i>Sphaerotheca fuliginea</i> (now <i>Podosphaeria xanthii</i> )	Powdery mildew
	Ec (now Gc)	<i>Erysiphe cichoracearum</i> (now <i>Golovinomyces cichoracearum</i> )	Powdery mildew				
<b>Spinach</b>							
<b>Viruses</b>	CMV	<i>Cucumber mosaic virus</i>	Cucumber mosaic	<b>Fungi</b>	Fos	<i>Fusarium oxysporum</i> f.sp. <i>spinaciae</i>	Fusarium wilt
<b>Fungi</b>	Ao	<i>Albugo occidentalis</i>	White rust		Pfs	<i>Peronospora farinosa</i> f.sp. <i>spinaciae</i>	Downy mildew
	Cv	<i>Cladosporium variabile</i>	Leaf spot				
<b>Corn Salad</b>							
<b>Fungi</b>	Pv	<i>Perenospora valerianellae</i>	Downy mildew				
	Phv	<i>Phoma valerianellae</i>	Damping off				
<b>Cauliflower</b>							
<b>Viruses</b>	CaMV	<i>Cauliflower mosaic virus</i>	Cauliflower mosaic	<b>Fungi</b>	Foc	<i>Fusarium oxysporum</i> f.sp. <i>conglutinans</i>	Yellows
	TuMV	<i>Turnip mosaic virus</i>	Turnip mosaic		Mb	<i>Mycosphaerella brassicicola</i>	Ring spot
<b>Bacteria</b>	Psm	<i>Pseudomonas syringae</i> pv. <i>maculicola</i>	Peppery leaf spot		Lm	<i>Leptosphaeria maculans</i> (anamorph: <i>Phoma lingam</i> )	Black leg
	Xca	<i>Xanthomonas campestris</i> pv. <i>armoraciae</i>	Leaf spot		Pp	<i>Peronospora parasitica</i>	Downy mildew
	Xcc	<i>Xanthomonas campestris</i> pv. <i>campestris</i>	Black rot		Pb	<i>Plasmodiophora brassicae</i>	Clubroot
<b>Fungi</b>	Ac	<i>Albugo candida</i>	White rust		Va	<i>Verticillium albo-atrum</i>	Verticillium wilt
	Am	<i>Albugo macrospora</i>	White rust		Vd	<i>Verticillium dahliae</i>	Verticillium wilt
	Abe	<i>Alternaria brassicae</i>	Black leaf spot		VI	<i>Verticillium longisporum</i>	Verticillium wilt
	Aba	<i>Alternaria brassicicola</i>	Black leaf spot	<b>Insects</b>	Bb	<i>Brevicoryne brassicae</i>	Cabbage aphid
	Aj	<i>Alternaria japonica</i>	Black spot		Px	<i>Plutella xylostella</i>	Diamond back moth
	Ec	<i>Erysiphe cruciferarum</i>	Powdery mildew		Tt	<i>Thrips tabaci</i>	Thrips

	Code	Scientific name	English name		Code	Scientific name	English name
<b>Leek</b>							
<b>Viruses</b>	LYSV	<i>Leek yellow stripe virus</i>	Leek yellow stripe	<b>Viruses</b>	Pd	<i>Peronospora destructor</i>	Downy Mildew
<b>Bacteria</b>	Psp	<i>Pseudomonas syringae</i> pv. <i>porri</i>	Pseudomonas leek blight		Pp	<i>Phytophthora porri</i>	White tip of leek
<b>Fungi</b>	Ap	<i>Alternaria porri</i>	Purple Blotch		Pa	<i>Puccinia allii</i>	Rust
	Ba	<i>Botrytis allii</i>	Botrytis Neck Rot		Pt	<i>Pyrenochaeta terrestris</i>	Pink Root
	Bs	<i>Botrytis squamosa</i>	Onion Leaf Blight		Sc	<i>Sclerotium cepivorum</i>	White Rot
	Cg	<i>Colletotrichum gloeosporioides</i>	Antracnose	<b>Insects</b>	Tt	<i>Thrips tabaci</i>	Onion thrips
	Foc	<i>Fusarium oxysporum</i> f.sp. <i>cepae</i>	Basal Rot	<b>Nematode</b>	Dd	<i>Ditylenchus dipsaci</i>	Stem and bulb nematode

<b>Endive/Chicory</b>							
<b>Viruses</b>	LMV	<i>Lettuce mosaic virus</i>	Lettuce mosaic		Ade	<i>Alternaria dauci</i> f.sp. <i>endiviae</i>	Antracnose
	BWYV	<i>Beet western yellows virus</i>	Yellows		Mp	<i>Microdochium panattoniana</i>	Antracnose
	LBVV	<i>Lettuce big vein virus</i>	Big Vein		Phhe	<i>Puccinia hieracii</i> var. <i>hieracii</i> f.sp. <i>endiviae</i>	Rust
	TSWV	<i>Tomato spotted wilt virus</i>	Spotted Wilt		Ec	<i>Erysiphe cichoracearum</i>	Powdery Mildew
	ENV	<i>Endive necrotic virus</i>	Necrotic Virus	<b>Insects</b>	Mp	<i>Myzus persicae</i>	Green peach aphid
<b>Bacteria</b>	Pc	<i>Pseudomonas cichorii</i>	Bacteriosis		Me	<i>Macrosiphum euphorbia</i>	Potato aphid
	Xcv	<i>Xantomonas campestris</i> pv. <i>vitiens</i>	Bacterial spot		Nr	<i>Nasonovia ribisnigri</i>	Lettuce leaf aphid
<b>Fungi</b>	Bc	<i>Botrytis cinerea</i>	Botrytis		Lt	<i>Lyriomyza trifolii</i>	Leafminer
	Sm	<i>Sclerotinia minor</i>	Sclerotinia minor		Pb	<i>Pemphigus bursarius</i>	Lettuce root aphid
	SS	<i>Sclerotinia sclerotiorum</i>	Sclerotinia major		Tv	<i>Trialeurodes vaporariorum</i>	White fly
	Rs	<i>Rhizoctonia solani</i>	Rhizoctonia		Fo	<i>Frankliniella occidentalis</i>	Thrips



# General Terms and Conditions of Sale

## (Enza Zaden's ref. no. EX08)

### Article 1 - Definitions

1. **Enza Zaden** shall mean Enza Zaden Export B.V., having its registered office in (1602 DB) Enkhuizen at Haling 1/E and registered at the Chamber of Commerce Noordwest Holland in Alkmaar.
2. **Buyer** shall mean the natural or legal person entering into a contract of sale with Enza Zaden for the purchase of Products.
3. **Parties** shall mean Enza Zaden and Buyer jointly.
4. **Party** shall mean either Enza Zaden or Buyer.
5. **Products** shall mean seeds and planting material delivered by Enza Zaden to the Buyer.
6. **Processing** shall mean the treatment of the Product including, without limitation, the treatment for the improvement of the sownability, germination, plant quality and/or for the prevention of pests and/or diseases.
7. **Price List** shall mean an overview of the selling prices of Products that Enza Zaden publishes and distributes from time to time. Enza Zaden retains the right to change those prices at any time.
8. **Incoterms 2000** shall mean the Incoterms 2000 drawn up by the International Chamber of Commerce in Paris (ICC).
9. **Product Specifications** shall mean the information provided in Schedule 1.
10. **Resistance** shall mean the information and terminology provided in Schedule 2.
11. **Naktuinbouw** shall mean the Netherlands Inspection Service for Horticulture having its registered office at Sotaweg 22, Postbus 40, 2370 AA Roelofarendsveen, The Netherlands.
12. **Order Confirmation** shall mean written confirmation of acceptance by Enza Zaden of the purchase order placed by the Buyer.
13. **Offer** shall mean the specific sale conditions offered by Enza Zaden to a Buyer.

### Article 2 - Applicability of These General Terms and Conditions

1. These General Terms and Conditions of Sale shall apply to and form part of all contracts of sale of Products entered into by Enza Zaden and Buyer unless the Parties deviate explicitly from one or more of these provisions in writing.
2. The applicability of Buyer's general terms and conditions are hereby explicitly excluded.
3. The Product Specifications and Resistance Terminology, which have been attached hereto as Schedule 1 and 2 respectively, form an integral part of these General Terms and Conditions of Sale.
4. Any provision of these General Terms and Conditions of Sale that is considered to be null, void or invalid and therefore is set aside, shall be replaced by a provision that approximates as much as possible the nature and intent of the invalid provision. The invalidity of one of the provisions shall not affect the other provisions agreed by the Parties.

### Article 3 - Purchase Order and Order Confirmation

1. Enza Zaden agrees to sell Product to Buyer at the rates set forth in Enza Zaden's Price List valid at the time of Buyer's purchase order.
2. Offers made by Enza Zaden are without commitment and will lapse in any case after five working days.
3. An agreement (hereinafter Agreement) shall be considered to be made between Enza Zaden and the Buyer upon Order Confirmation or upon acceptance of an Offer. No rights or obligations shall therefore arise between the Parties until the Order Confirmation has been sent or an Offer has been accepted.
4. All purchase orders are subject to seed availability and may be prorated by Enza Zaden. Buyer shall not be entitled to damages if Enza Zaden elects to prorate any Buyer's purchase order.
5. Enza Zaden shall always perform its delivery obligation to the best of its ability. Nevertheless, Enza Zaden shall be entitled to deviate minimally from the purchase order placed by the Buyer with respect to size, packaging, quantity or weight.
6. When placing an order, Buyer shall report which information, specifications and documents are required under the rules and regulations of the country of delivery. The Buyer shall be responsible to inform Enza Zaden of any formalities that must be complied with to enable importation. The Buyer shall also provide Enza Zaden with information on any required certificates, phytosanitary matters, import documents or invoices.
7. Enza Zaden cannot be held liable for delays or non-delivery of an order due to Buyer's failure to comply with the abovementioned obligations. The Buyer shall be liable for any loss or damage incurred by Enza Zaden due to incorrect or late information.

### Article 4 - Prices

1. All prices stated by Enza Zaden in its Price List and/or in an Offer are:
  - in Euros,
  - exclusive of a handling fee of EUR 25, which shall be charged if the value of the Products ordered is less than EUR 250,
  - exclusive of costs of transport and insurance,
  - exclusive of VAT and other government levies.

2. Enza Zaden shall invoice the Buyer for the costs of Products, plus any other costs such as costs of transport, insurance, VAT, etc.

### Article 5 - Cancellation

If a purchase order is cancelled after an Agreement has been made, Buyer shall be required to pay 10% of the invoice price that would have been charged, without prejudice to Enza Zaden's right to demand compensation in full.

### Article 6 - Delivery

1. Enza Zaden shall deliver the purchased Products to Buyer within a reasonable period of time after Order Confirmation and in accordance with the planting season.
2. Delivery times agreed by the Parties serve as an indication but should not be regarded as firm dates. In the event of late delivery, Buyer shall provide Enza Zaden with written notice thereof and shall allow Enza Zaden a further reasonable period of time to deliver the Products. In no event shall Enza Zaden be liable for damages due to late delivery nor shall Buyer be entitled to end the Agreement made by the Parties.
3. Delivery by Enza Zaden takes place carriage paid to the agreed destination (CPT) Incoterms 2000, after which the Product shall be for Buyer's own risk and account. Buyer hereby authorizes Enza Zaden to select the carrier and to charge the cost of transport to Buyer.
4. Enza Zaden shall be allowed to make partial deliveries and to invoice each delivery separately.

### Article 7 - Payment

1. The Buyer shall arrange for payment in Euros within thirty days from the date of invoice by transfer into a bank account specified by Enza Zaden.
2. The Buyer does not have the right to suspend payment or make deductions or set-offs.
3. If on the thirty-first day after invoice Enza Zaden has not received payment in full the Buyer shall be in default without any notice being required.
4. In case of payment in installments, the Buyer shall be in default without any notice being required in the event of late payment of any installment and the remaining installments shall become immediately payable.
5. Contractual interest at a rate of one percent per calendar month shall be charged to overdue accounts. The contractual interest due shall be computed over the total invoice amount inclusive of VAT. The contractual interest shall be charged from the date on which the Buyer is in default until the date of payment in full, with part of a calendar month counted as a full month. Each time after expiry of a calendar year the amount on which contractual interest is charged shall be computed increased by the contractual interest due over that calendar year.
6. Enza Zaden has the right to proceed with extrajudicial collection of overdue accounts without prior notice being required. The Buyer shall pay all costs of extrajudicial collection which are deemed to amount to at least 15% of the amount to be collected with a minimum of EUR 250 ex VAT.
7. Payments made by the Buyer shall first serve to reduce the extrajudicial costs of collection due at that point, then to reduce the outstanding contractual interest and finally to reduce the oldest outstanding invoice.
8. In the event of the Buyer's bankruptcy, liquidation or suspension of payments, all Buyer's payment obligations shall immediately become payable and Enza Zaden shall be authorized to suspend any further performance of the Agreement or to terminate it, without prejudice to Enza Zaden's right to claim damages from the Buyer.
9. Enza Zaden's office in Enkhuizen shall be regarded as the place of payment for all amounts to be paid in relation to the Agreement.

### Article 8 - Complaints

1. Buyer shall inspect the Products upon delivery or as soon as possible thereafter. Buyer shall determine, in accordance with the Order Confirmation, whether:
  - the correct items have been delivered;
  - the correct quantities have been delivered;
  - the items delivered satisfy all quality requirements expressly agreed to in writing by the Parties.
2. Within five working days after delivery, Buyer shall notify Enza Zaden in writing of any visible defect or shortcomings. In case of non-visible defects, the written notification should be made within five working days after discovery of the defect.
3. The writing notification shall provide the consignment information (seed lot number, the packing slip and the invoice details) as well as the basis for any complaint in such a manner that Enza Zaden or an outside expert can verify each complaint.
4. In no event shall the Buyer return the Products unless otherwise agreed by Enza Zaden in writing.

5. If Enza Zaden does not receive written notice of a complaint within the applicable time periods, Buyer shall be deemed to have accepted the Products and the sale shall be final. All claims for damage or loss not made in writing within the applicable time period shall be deemed waived by Buyer and Buyer expressly assumes and accepts all liability for such damage or loss.
6. If the Parties are unable to resolve a dispute regarding the quality of the Products, either Party may order an inspection to be performed by Naktuinbouw, with the Party proven to be wrong paying the costs of it. The inspection shall be performed on a certified sample and the findings shall be binding on both Parties, without prejudice to their right to submit disputes concerning the consequences of these findings to the bodies referred to in Article 16.
7. If a complaint is well-founded, Enza Zaden shall have the right to replace the Products in question or, at its discretion, credit the Buyer for that part of the delivery.
8. In any event, Enza Zaden liability is limited as provided in Article 12 below.

#### Article 9 - Reservation of Title

1. Enza Zaden shall retain title to the Products until the Buyer has complied with all its obligations towards Enza Zaden including but not limited to payment of invoices, contractual interest and extrajudicial costs of collection.
2. The Buyer may use the Products delivered by Enza Zaden in the ordinary course of business but may not pledge them to third parties or otherwise use them as security for claims without Enza Zaden's written consent.
3. If the laws of the country where the Products are delivered provide for farther-reaching possibilities to reserve title other than those contained in this Article, such possibilities shall be deemed to have been agreed by the Parties. The provisions contained in paragraph 2 shall continue to apply if it is unclear whether other possibilities to reserve title apply.
4. At the first request of Enza Zaden, the Buyer shall create a pledge on all proceeds from the growing of the Products and the sale of them.

#### Article 10 - Force majeure

1. In the event of force majeure and without judicial intervention being required, Enza Zaden shall be able to wholly or partially suspend execution of the Agreement or, if the event of force majeure persists, to wholly or partially terminate it. In no event shall Enza Zaden be required to pay any compensation to the Buyer.
2. Force majeure means: any circumstance that could not be reasonably foreseen and/or influenced by Enza Zaden and a result of which delivery is impossible or frustrated wholly or partially. Force majeure includes at any rate war, risk of war, riots, floods, water damage, fire, transport difficulties, unforeseen technical complications, breakdowns, strikes at Enza Zaden or at any third parties engaged by Enza Zaden, blockades, bans on import and export, full or partial seizure or requisition of stocks at Enza Zaden or its suppliers by civil or military authorities, lack of transport capacity, non-delivery or late delivery by suppliers of Enza Zaden, machine breakdowns, destruction and other stagnations in the companies of Enza Zaden or its suppliers as well as scarcity as a result of which delivery is impossible or frustrated wholly or partially.
3. Force majeure also means any circumstance that gives reason to rely on the harvesting and processing reservations usual in the seed industry. Such circumstances entitle Enza Zaden to deliver to the Buyer a pro rata volume of the order, without prejudice of the rights provided in the first paragraph of this Article.

#### Article 11 - Product Information, Use and Warranty

1. All illustrations, catalogues and statements provided by or on behalf of Enza Zaden about quality, composition, weight, measurement, treatment in the broadest sense, applications and properties of the Products correspond as closely as possible to Enza Zaden's tests and practical experience.
2. Buyer acknowledges that any information provided by Enza Zaden in relation to the quality (such as viability, germination, mechanical or genetic purity, seed health) and performance of the Products applies only to the tests done by Enza Zaden, to the specific seed sample used and to the specific conditions under which the tests were done. Buyer agrees that the abovementioned information does not constitute an express or implied warranty.
3. The results obtained by the Buyer will depend on such factors as the place of cultivation, the conditions prior to and during cultivation, including how the Product are stored, the climate, the soil and crop protection methods used by the Buyer. The Buyer shall be solely responsible for determining the suitability and appropriateness of the use of the Products in the different conditions and/or for the different purposes.
4. Enza Zaden provides all Product information to assist the Buyer and under no circumstances shall Enza Zaden be liable to Buyer for results deviating from that information. Enza Zaden shall not be held liable for any information provided in relation to

Resistances as defined in Schedule 2 and/or Resistances to diseases indicated per Product.

5. Enza Zaden shall not be liable to Buyer for any Product that has been treated and/or conditioned and/or manipulated in any other manner by Buyer or by a third party on the Buyer's request.
6. Buyer acknowledges that Products delivered by Enza Zaden are not fit for human or animal consumption.

#### Article 12 - Liability

1. Enza Zaden shall under no circumstances be liable for special, incidental or consequential damages (including but not limited to lost profits, lost goodwill, lost revenue, lost production, lost contracts or lost opportunity).
2. In any case and to the greatest extent permitted by law, Enza Zaden's liability shall be limited to the invoice amount of the delivered Products related to the problem.
3. Buyer hereby explicitly understands and agrees to this limitation of Enza Zaden's liability.
4. Article 12 may be also invoked by current or former personnel, directors and any third parties engaged by Enza Zaden, including heirs and legal successors.

#### Article 13 - Intellectual Property Rights and Use of the Products

1. Buyer agrees that all intellectual property rights relating to the Products shall at all times be and remain absolutely vested in Enza Zaden and Buyer shall acquire no rights thereto.
2. Buyer agrees that Enza Zaden has the exclusive right, title and interest in and to Enza Zaden's trademarks, trade names and trade dress (including designs and color schemes).
3. Buyer agrees neither to register, nor to have registered, any trademarks, trade names or symbols of Enza Zaden or those which are confusingly similar to those of Enza Zaden.
4. Buyer may not use Enza Zaden's trademark, trade name and/or trade dress for any purpose unless otherwise approved in writing by Enza Zaden.
5. Under no circumstances shall Buyer use the Products and/or its components and/or its harvestable material in any way for multiplication and/or reproduction of any kind of material.
6. Buyer agrees to allow and fully cooperate with any inspection by Enza Zaden for the purpose to verify any possible infringement of Enza Zaden's rights. Buyer shall allow Enza Zaden or a person or company appointed by Enza Zaden to have direct access to Buyer's premises including, but not limited to, its greenhouses, administrative and farming activities. The term 'activities' shall be understood to include activities carried out by third parties on behalf of the Buyer.
7. Buyer shall fully cooperate with Enza Zaden to defend its rights against infringement.
8. Buyer shall ensure that anyone who manipulates or somehow receives Products from Buyer shall comply with the obligations set forth in this article.

#### Article 14 - Suspension and Dissolution of the Agreement

1. In the event a Party fails to perform any of its obligations under the Agreement and such failure continues for a period of thirty (30) days after written notice, the other Party shall be authorized to suspend any further performance of the Agreement or to terminate it, without prejudice to its right to claim damages.
2. If the Buyer is liquidated, files for bankruptcy or is granted suspension of payments, its payment obligations shall be immediately payable and Enza Zaden shall be authorized to suspend any further performance of the Agreement or to terminate it, without prejudice to the right to claim full compensation from Buyer.

#### Article 15 - Applicable Law

These General Terms and Conditions of Sale and all Agreements are governed by Dutch law. The applicability of the Vienna Sales Convention is expressly excluded.

#### Article 16 - Resolution of Disputes

1. All claims and disputes arising out or relating to the sale of Products or to any provision of these General Terms and Conditions of Sale shall be first referred to mediation to be held in Enkhuizen (The Netherlands).
2. If the Parties fail to resolve the dispute through mediation or in the event that one of the Parties refuse to mediate, the matter shall be decided by binding arbitration to be held in Enkhuizen under the Rules of Arbitration of the International Chamber of Commerce. Enza Zaden shall however be entitled to summon Buyer at any time to appear before the competent court in the district in which Buyer has its registered office.
3. All rights of action against Enza Zaden, its employees, directors and members of the Advisory Board ('commissarissen') and/or third parties engaged by it, including heirs and legal successors shall lapse after one calendar year of the occurrence of the incident that gave rise to the action.

# General Terms and Conditions of Sale

(Enza Zaden's ref. no. EX08)

## Schedule 1 - Product Specifications

### 1. - Introduction

Vegetable growing has become a highly specialized and intensive activity. As a result of the ever increasing demand for a better quality, vegetable growers and plant raisers require an improved quality of basic material.

The demand for specific seed forms and more information about seed quality has strongly increased to better influence emergence and required number of plants.

Seed is a natural product. The often varying environmental conditions thus influence final results. It is therefore often not possible to give detailed information about seed performance and other seed characteristics.

In order to meet customer's demands, ECS has drawn up quality standards for the various seed categories.

The specifications mentioned are ECS' minimum standards. In relation to germination, the specifications are based on the use of ISTA methods. In the event that the seed does not meet the product specifications mentioned, ECS will inform their customers.

### 2. - General Definitions

#### a) 'Normal Seed'

In general normal seed has not been subjected to special processes. It is sold by weight and/or by count, depending on the product. Normal seed complies with the EEC standards.

#### b) 'Precision'

'Precision' seed has been subjected to additional processes. It is of a uniform size and has high germination capacity. 'Precision' seed is sold by count and complies with the standards as provided in the table below.

#### c) 'Priming'

Priming is defined as an activation of the germination process in order to break seed dormancy or obtain a faster or more uniform emergence after sowing. Primed seed is sold by count.

#### d) 'Pill'

Pill is the product of a seed pelleting/coating procedure. Pelleting is defined as the process of changing the seed form by covering it with filling materials with the main purpose to facilitate easier sowing. Also additional ingredients may be added. Pelleted seed is sold by count and complies with the standards as provided in the table below.

#### e) 'Filmcoat'

Filmcoat is a full covering, usually pigmented layer around the seed. The original seed form remains intact. Additional ingredients may be added. Filmcoat is used for insecticide treatments by Enza Zaden. Filmcoated seeds are sold by count.

#### f) 'Basiscoat'

Basiscoat is a pigmented layer around the seed. The original seed form and size remain intact. Basiscoat is mainly used for fungicide treatments by Enza Zaden.

#### g) 'Germination'

The germination figure mentioned is valid from the moment of delivery. Germination figures refer to the ISTA procedures.

#### h) 'Genetic Purity'

Genetic Purity is defined as the percentage of plants derived from a seed lot that meets the variety description.

## Schedule 2 - Resistance

### 1. - Terminology and definitions

- a) '**Immunity**' means not subject to attack or infection by a specified pest or pathogen.
- b) '**Resistance**' is the ability of a plant variety to restrict the growth and development of a specified pest or pathogen and/or the damage they cause when compared to susceptible plant varieties under similar environmental conditions and pest or pathogen pressure. Resistant varieties may exhibit some disease symptoms or damage under heavy pest of pathogen pressure.

#### Two levels of resistance are defined:

- I. **High resistance (HR)**: plant varieties that highly restrict the growth and development of the specified pest or pathogen under normal pest or pathogen pressure when compared to susceptible varieties. These plant varieties may, however, exhibit some symptoms or damage under heavy pest or pathogen pressure.
  - II. **Intermediate resistance (IR)**: plant varieties that restrict the growth and development of the specified pest or pathogen, but may exhibit a greater range of symptoms or damage compared to highly resistant varieties. Intermediately resistant plant varieties will still show less severe symptoms or damage than susceptible plant varieties when grown under similar environmental conditions and/or pest or pathogen pressure.
- c) '**Susceptibility**' is the inability of a plant variety to restrict the growth and development of a specified pest or pathogen.

### 2. - Information per variety

**Resistances** in varieties of our crops will be coded (see coding list at [www.enzazaden.com](http://www.enzazaden.com)), unless indicated otherwise. In case a variety is resistant to more than one pathogen, the individual resistance codes will be separated by the symbol '/'.

If in a resistance code of a certain variety reference is made to certain strains for which the resistance is claimed this means that no resistance is claimed to other strains of the same pathogen.

If, in a resistance code, no reference is made to strains of the pathogen for which the resistance is claimed, resistance is claimed only to certain not further specified strains of the pathogen and we hereby disclaim any guarantee that the variety will not be infected by the said pathogen.



### 3 - Information per crop

Crop	Product	Germination %	Seed Size mm	Genetic Purity
Cauliflower	Precision	90	0.20 or 0.25 round sieve	90
Others Brassica	Precision	90		93
Carrot	Precision	85	0.20 or 0.25 round sieve	
Celery	Pill	90		
Chicory Witlof	Precision	85	0.20 or 0.25 round sieve	
Corn salad	Precision	85	0.20 or 0.25 round sieve	
Cucumber	Precision	92		99
Red beet monogerm	Precision	80	0.50	
Red beet multigerm	Precision	90	0.50	
Eggplant	Precision	90		98
Endive	Precision	90		
Endive	Pill	92		
Fennel	Precision	90	0.5 round or 0.2 length sieve	
Fennel	Pill	90		
Leek OP	Precision	90	0.2 or 0.25 round sieve	
Leek F1	Precision	85		
Butterhead, Batavia, Iceberg, Cos	Precision	93		98
Butterhead, Batavia, Iceberg, Cos	Pill	95		98
Others Lettuce	Precision	93		
Others Lettuce	Pill	95		95
Melon	Precision	90		98
Parsley	Precision	87		
Sweet and hot pepper	Precision	90		97
Radicchio	Precision	88		
Radish	Precision	92	0.25 round sieve	
Scorzonera	Precision	80		
Spinach	Precision	85	0.75	
Squash	Precision	92		97
Tomato	Precision	92		98
Onion	Precision	90	2.00-2.75	
Watermelon normal	Precision	90		98
Watermelon seedless	Precision	85		98



[www.enzazaden.com](http://www.enzazaden.com)

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