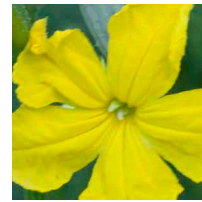
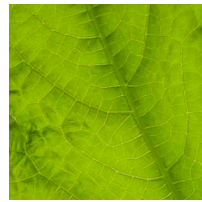




## Cucumber variety range



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Dear business relation,



We are proud to be able to present to you our first international cucumber booklet – a handy overview of our varieties for heated, hi-tech cucumber cultivation.

With Rijk Zwaan's wide range it is possible to grow cucumbers with an excellent yield and quality year-round. This booklet provides a brief overview of the main traits of each variety, including the optimum planting periods, resistances and crop and fruit types. Alongside our wide range of long cucumbers, attention is also given to the smaller segments and rootstocks.

As the market leader in cucumbers, we continue to strive to be front runner in product development. We not only aim for the highest yields and best quality, we also work on new, unique traits. A good example of this is the launch of BonDefense, the label for our cucumber varieties with unique resistance to mosaic virus. The relevant varieties may be identified in this booklet by our BonDefense logo.

Should you have any questions relating to this booklet you can always contact your crop advisor, of course. Rijk Zwaan wishes you a successful crop and a rich harvest.

Crop team cucumbers

Rijk Zwaan



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## Resistance definitions

|           |  |
|-----------|--|
| Ccu       | Cladosporium cucumerinum (gummosis)                                  |
| Cca       | Corynospora cassiicola (leaf spot)                                   |
| Foc       | Fusarium oxysporum f.sp. Cucumerrinum                                |
| For       | Fusarium oxysporum f.sp.<br>Radicis-cucumerinum (foot rot)           |
| Va        | Verticillium albo-atrum<br>(vascular wilt disease)                   |
| Px(ex Sf) | Podosphaeria xanthii<br>(ex Sphaerotheca fuliginea) (powdery mildew) |
| CMV       | Cucumber Mosaic Virus  |
| CVYV      | Cucumber Vein Yellowing Virus<br>(Geelnervigheid virus)              |
| CGMMV     | Cucumber Green Mottle Mosaic Virus                                   |
| HR        | High resistance  |
| IR        | Intermediate resistance  |



## Cucumbers, long

In the largest cucumber segment you can choose from 18 reliable varieties, each and every one of them having already proved their worth in practice. We have varieties for any growing period, suited to local conditions and local preferences. The varieties have been ranked in order of their planting period.

### Venice RZ

|                 |  |
|-----------------|--|
| Planting period | 1 December - 31 January  |
| Resistance      | HR Cca/Ccu   |
| Fruit type      | high fruit weight  |
| Crop type       | open and generative  |
| Comments        | fast and not light-sensitive, standard variety for the earliest plantings with heavy fruits; also very suitable for interplanting of second crop |

### 24-183 RZ

|                 |  |
|-----------------|--|
| Planting period | 1 December - 31 January  |
| Resistance      | HR Cca/Ccu IR Px (ex Sf)   |
| Fruit type      | high fruit weight  |
| Crop type       | open and generative  |
| Comments        | fast variety and not light-sensitive; gives a high fruit weight early on and retains its quality well until the very end |

### Mystica RZ

|                 |   |
|-----------------|---|
| Planting period | 1 December - 15 February  |
| Resistance      | HR Cca/Ccu  |
| Fruit type      | high fruit weight   |
| Crop type       | strong grower and generative  |
| Comments        | heavy fruits, good quality; also very suitable for interplanting of second crop |

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## Cucumber, long

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### 24-182 RZ

|                 |   |
|-----------------|---|
| Planting period | 1 December - 15 February  |
| Resistance      | HR Cca/Ccu IR Px (ex Sf)  |
| Fruit type      | high fruit weight, slightly longer fruits   |
| Crop type       | open and generative   |
| Comments        | not light-sensitive; gives a high fruit weight early on and retains its quality well until the very end |

---

### Carambole RZ

|                 |   |
|-----------------|---|
| Planting period | 10 January - 20 February  |
| Resistance      | HR Cca/Ccu  |
| Fruit type      | smaller, well-filled fruits   |
| Crop type       | strong grower and generative  |
| Comments        | great unit production and good stamina; also ideal for high-wire cropping |

---

### Proloog RZ

|                 |   |
|-----------------|---|
| Planting period | 1 January - 20 August   |
| Resistance      | HR Ccu IR Px (ex Sf)  |
| Fruit type      | uniform, dark, heavy fruits, super quality  |
| Crop type       | open and labour-friendly  |
| Comments        | good stamina and strong against mycosphaerella; the new standard variety in NW Europe |

---

### Aviance RZ

|                 |   |
|-----------------|---|
| Planting period | 1 January - 20 August                                     |
| Resistance      | HR Cca/Ccu IR Px (ex Sf)                                  |
| Fruit type      | dark, heavy fruits  |
| Crop type       | strong grower and sufficiently generative                 |
| Comments        | good old tried and trusted, reliable variety with stamina |

---

## Euphoria RZ

|                 |  |
|-----------------|--|
| Planting period | 20 January - 20 August   |
| Resistance      | HR Cca/Ccu   |
| Fruit type      | uniform, heavy fruits  |
| Crop type       | open and labour-friendly   |
| Comments        | reliable, quality variety; also eminently suitable for longer cropping |

---

## Verdon RZ

|                 |  |
|-----------------|--|
| Planting period | 1 February - 20 August   |
| Resistance      | HR CGMMV/Cca/Ccu/Px (ex Sf)<br>IR CMV/CVYV                               |
| Fruit type      | well-filled, slightly longer fruits (sizes M and L)                      |
| Crop type       | strong, fairly open plants; good balance between growth and fruitfulness |
| Comments        | standard variety for spring, summer and autumn cropping in Canada        |

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## Roxanna RZ

|                 |  |
|-----------------|--|
| Planting period | 20 February - 20 August  |
| Resistance      | HR Cca/Ccu   |
| Fruit type      | good fruit colour  |
| Crop type       | short-jointed and smaller leaves   |
| Comments        | combines vigour with generativity; absolutely the most productive summer variety |

---

## Odeon RZ (24-186 RZ)

|                 |   |
|-----------------|---|
| Planting period | 20 February - 20 August   |
| Resistance      | HR Ccu  |
| Fruit type      | good fruit colour   |
| Crop type       | short-jointed and smaller leaves; selective   |
| Comments        | highly productive, starts producing slightly faster than Roxanna and more single-fruiting on the stem; especially suitable for high-wire cropping |

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## Cucumber, long

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### Bonbon RZ



|                 |   |
|-----------------|---|
| Planting period | 20 February - 20 August                             |
| Resistance      | HR CGMMV/Ccu IR CVYV/Px (ex Sf)                     |
| Fruit type      | well-filled fruits                                  |
| Crop type       | short-jointed; steady grower                        |
| Comments        | first BonDefense variety for the NW-European market |

---

### Addison RZ

|                 |  |
|-----------------|--|
| Planting period | 20 February - 20 August                              |
| Resistance      | HR Ccu/Px (ex Sf)<br>IR CGMMV/ CMV/CVYV              |
| Fruit type      | well-filled, slightly longer fruits;<br>nice quality |
| Crop type       | somewhat open, generative plants                     |
| Comments        | starts producing very quickly                        |

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### Samona RZ

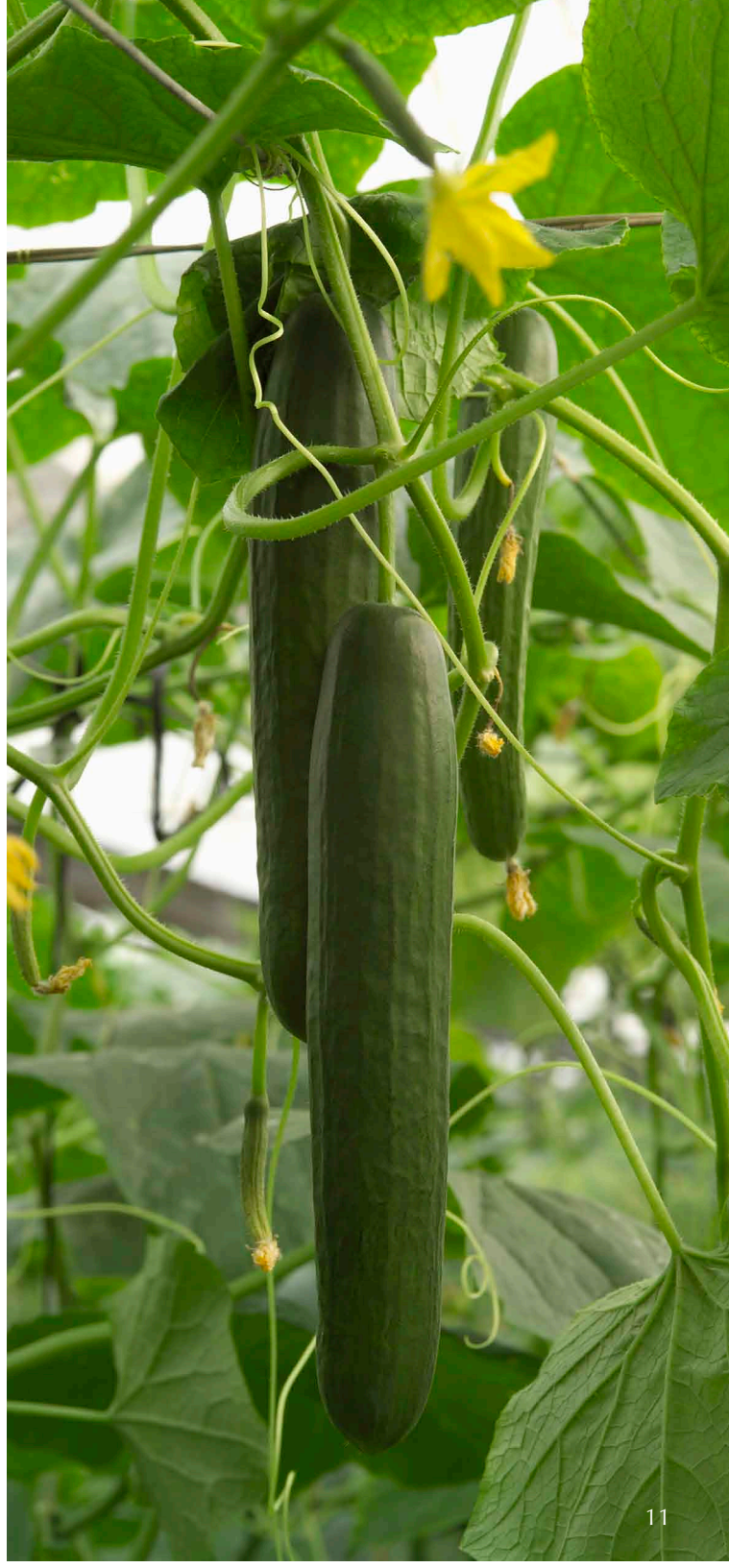
|                 |  |
|-----------------|--|
| Planting period | 1 March - 20 August  |
| Resistance      | HR Cca/Ccu   |
| Fruit type      | super shape and colour   |
| Crop type       | strong and generative  |
| Comments        | strong against fruit abortion; eminently suitable for high-wire cropping |

---

### Confida RZ

|                 |   |
|-----------------|---|
| Planting period | 20 March - 20 August  |
| Resistance      | HR Cca/Ccu  |
| Fruit type      | uniform, smaller fruits   |
| Crop type       | open and generative   |
| Comments        | high, uniform unit production; labour-friendly and strong against burnt heads |

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## Cucumber, long

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### Cumlaude RZ

|                 |  |
|-----------------|--|
| Planting period | 20 March - 20 August   |
| Resistance      | HR Ccu/Px (ex Sf)  |
| Fruit type      | dark green, ribbed, uniform and well-filled  |
| Crop type       | open and exceptionally strong against burnt heads  |
| Comments        | for so-called 'warm-air' cultivation; has done well for many years as soil-grown and organically-grown crops |

---

### Eminentia RZ

|                 |   |
|-----------------|---|
| Planting period | 20 March - 20 August  |
| Resistance      | HR Ccu/Px (ex Sf)   |
| Fruit type      | dark green, ribbed, uniform and well-filled   |
| Crop type       | strong grower and sufficiently generative; small flowers                                  |
| Comments        | good stamina; also suitable as a soil-grown crop and for warm-air and organic cultivation |

---

### Cadence RZ

|                 |  |
|-----------------|--|
| Planting period | 20 March - 20 August   |
| Resistance      | HR Cca/Ccu/Px (ex Sf)  |
| Fruit type      | dark green, ribbed, uniform and well-filled  |
| Crop type       | strong grower and sufficiently generative  |
| Comments        | new variety with good stamina; also suitable as a soil-grown crop and for warm-air and organic cultivation |

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## Cucumber specialities

As the market leader in cucumbers, Rijk Zwaan not only focuses on the long types but also on various smaller segments. These mini, midi and cocktail cucumbers offer the possibility of serving interesting niche markets. It goes without saying that these varieties meet all the conditions required for successful cultivation.



## Midi cucumbers

### Mewa RZ

|                 |  |
|-----------------|--|
| Planting period | 1 January - 1 March  |
| Resistance      | HR Cca/Ccu IR CMV/CVYV/Px(ex Sf)   |
| Fruit type      | dark ribbed fruits 20 - 22 cm, some neck   |
| Crop type       | single fruited variety with strong vigour  |
| Comments        | single fruited and therefore very little abortion, because of vigour not suitable for planting later in season, doing very well under artificial light |

---

### Media RZ

|                 |  |
|-----------------|--|
| Planting period | 1 January - 20 August                                      |
| Resistance      | HR Cca/Ccu IR CMV/CVYV/Px (ex Sf)                          |
| Fruit type      | dark, ribbed fruits, 18 - 22 cm                            |
| Crop type       | open plants with average growth                            |
| Comments        | nice ribbing and fruit colour, good flavour and shelf life |

---

### Yani RZ

|                 |  |
|-----------------|--|
| Planting period | 1 January - 20 August  |
| Resistance      | HR Ccu IR CMV/CVYV   |
| Fruit type      | dark, ribbed fruits, 18 - 20 cm  |
| Crop type       | open plants with fairly strong growth  |
| Comments        | nice ribbing and fruit colour, good flavour and shelf life, slightly lower fruit weight than that of Media |



## Cocktail cucumbers

### Quarto RZ

|                 |   |
|-----------------|---|
| Planting period | 20 January - 20 August  |
| Resistance      | HR Ccu/Px (ex Sf)   |
| Fruit type      | smooth, uniform fruits, 9 - 11 cm long  |
| Crop type       | strong and open; multi-fruiting   |
| Comments        | starts producing quickly; good balance between fruit set and growth; fresh-green fruits and excellent flavour; also suitable for high-wire cropping |

### Bakuja RZ

|                 |  |
|-----------------|--|
| Planting period | 1 December - 10 February                           |
| Resistance      | HR Ccu IR CMV/CVYV/Px (ex Sf)                      |
| Fruit type      | smooth, uniform fruits, 10 - 12 cm long            |
| Crop type       | open, short-jointed and average vigour             |
| Comments        | particularly suitable for early heated cultivation |



## Mini cucumbers

### Picowell RZ

|                 |  |
|-----------------|--|
| Planting period | 1 December - 20 August   |
| Resistance      | HR Ccu IR Px (ex Sf)   |
| Fruit type      | dark green and about 15 cm long  |
| Crop type       | open, generative and sufficiently vigorous                             |
| Comments        | good shelf life, suitable for early cropping and assimilation lighting |

### Deltastar RZ

|                 |   |
|-----------------|---|
| Planting period | 1 March - 1 August  |
| Resistance      | HR Cca/Ccu/Px (ex Sf) IR CMV/CVYV   |
| Fruit type      | dark green, slightly ribbed fruits, 16 - 18 cm long                           |
| Crop type       | strong but open growth habit  |
| Comments        | its vigour makes it suitable for longer cropping; good shelf life and flavour |



## Glasshouse gherkins

### Harmonie RZ

|                 |                                       |
|-----------------|---------------------------------------|
| Planting period | 1 February - 20 August                |
| Resistance      | HR Ccu/Px (ex Sf) IR CMV              |
| Fruit type      | smooth; good length:girth ratio (3:1) |
| Crop type       | generative, open crop                 |
| Comments        | high and early production             |



## Rootstocks

Variety Azman RZ of Rijk Zwaan has been the standard rootstock for soil-grown cucumber crops for many years. A new variety is Affyne RZ, which is used for grafting in French substrate crops in order to prevent Fusarium. This novelty illustrates the front runner position Rijk Zwaan is keen to maintain in international cucumber cultivation.



## Asian cucumbers

### Gerakl RZ

|                 |  |
|-----------------|--|
| Planting period | 1 February- 1 August, in the Southern Russian regions planting from 1 January is possible  |
| Resistance      | HR Ccu IR CMV/ CVYV/ Px (ex Sf)  |
| Fruit type      | dark green spined fruits, 18 - 20 cm , short neck  |
| Crop type       | very open plant type with dark green leaves, labour friendly   |
| Comments        | generative crop, advise: keep the head of the main stem in, coil it up over the wire towards the next plant and take the head out 60 cm under the wire |

### Affyne RZ

|                 |   |
|-----------------|---|
| Planting period | 10 January - 20 August  |
| Resistance      | HR Va IR Foc  |
| Type            | C. sativus  |
| Traits          | not quite as strong a rootstock as Azman  |
| Comments        | for rockwool crops where Fusarium resistance is required; not suitable for soil-grown crops |

### Azman RZ

|                 |  |
|-----------------|--|
| Planting period | 1 March - 20 August  |
| Resistance      | HR Foc/Va  |
| Type            | C. maxima X C. moschata  |
| Traits          | vigorous and cold-tolerant; for cucumbers and melons                     |
| Comments        | early and good total production; enhances the fruit quality of cucumbers |

### Zadok RZ

|                 |  |
|-----------------|--|
| Planting period | 1 March - 20 August  |
| Resistance      | HR Foc/Va  |
| Type            | C. maxima X C. moschata  |
| Traits          | vigorous and cold-tolerant; for cucumbers and melons in N and S Europe               |
| Comments        | new rootstock for soil-grown crops; a touch more productive in our trials than Azman |

PLANTING SCHEDULE

| CUCUMBERS, LONG            | Jan        | Feb        | March        | April        | May        | June        | July        | Aug        | Sept        | Oct        | Nov        | Dec        |
|----------------------------|------------|------------|--------------|--------------|------------|-------------|-------------|------------|-------------|------------|------------|------------|
| VENICE RZ                  | █          |            |              |              |            |             |             |            |             |            |            | █          |
| 24-183 RZ                  | █          |            |              |              |            |             |             |            |             |            |            | █          |
| MYSTICA RZ                 | █          | █          |              |              |            |             |             |            |             |            |            | █          |
| 24-182 RZ                  | █          | █          |              |              |            |             |             |            |             |            |            | █          |
| CARAMBOLE RZ               |            | █          |              |              |            |             |             |            |             |            |            |            |
| PROLOOG RZ                 | █          | █          | █            | █            | █          | █           | █           | █          |             |            |            |            |
| AVIANCE RZ                 | █          | █          | █            | █            | █          | █           | █           | █          |             |            |            |            |
| EUPHORIA RZ                |            | █          | █            | █            | █          | █           | █           | █          |             |            |            |            |
| VERDON RZ                  |            | █          | █            | █            | █          | █           | █           | █          |             |            |            |            |
| ROXANNA RZ                 |            |            | █            | █            | █          | █           | █           | █          |             |            |            |            |
| ODEON RZ (24-186 RZ)       |            |            | █            | █            | █          | █           | █           | █          |             |            |            |            |
| BONBON RZ                  |            |            | █            | █            | █          | █           | █           | █          |             |            |            |            |
| ADDISON RZ                 |            |            | █            | █            | █          | █           | █           | █          |             |            |            |            |
| SAMONA RZ                  |            |            | █            | █            | █          | █           | █           | █          |             |            |            |            |
| CONFIDA RZ                 |            |            |              | █            | █          | █           | █           | █          |             |            |            |            |
| CUMLAUDE RZ                |            |            |              | █            | █          | █           | █           | █          |             |            |            |            |
| EMINENTIA RZ               |            |            |              | █            | █          | █           | █           | █          |             |            |            |            |
| CADENCE RZ                 |            |            |              | █            | █          | █           | █           | █          |             |            |            |            |
| <b>MIDI CUCUMBERS</b>      | <b>Jan</b> | <b>Feb</b> | <b>March</b> | <b>April</b> | <b>May</b> | <b>June</b> | <b>July</b> | <b>Aug</b> | <b>Sept</b> | <b>Oct</b> | <b>Nov</b> | <b>Dec</b> |
| MEWA RZ                    | █          | █          |              |              |            |             |             |            |             |            |            |            |
| YANI RZ                    | █          | █          | █            | █            | █          | █           | █           | █          |             |            |            |            |
| MEDIA RZ                   | █          | █          | █            | █            | █          | █           | █           | █          |             |            |            |            |
| <b>MINI CUCUMBERS</b>      | <b>Jan</b> | <b>Feb</b> | <b>March</b> | <b>April</b> | <b>May</b> | <b>June</b> | <b>July</b> | <b>Aug</b> | <b>Sept</b> | <b>Oct</b> | <b>Nov</b> | <b>Dec</b> |
| PICOWELL RZ                | █          | █          | █            | █            | █          | █           | █           | █          |             |            |            | █          |
| DELTASTAR RZ               |            |            | █            | █            | █          | █           | █           | █          |             |            |            |            |
| <b>COCKTAIL CUCUMBERS</b>  | <b>Jan</b> | <b>Feb</b> | <b>March</b> | <b>April</b> | <b>May</b> | <b>June</b> | <b>July</b> | <b>Aug</b> | <b>Sept</b> | <b>Oct</b> | <b>Nov</b> | <b>Dec</b> |
| QUARTO RZ                  |            | █          | █            | █            | █          | █           | █           | █          |             |            |            |            |
| BAKUJA RZ                  | █          | █          |              |              |            |             |             |            |             |            |            | █          |
| <b>GLASSHOUSE GHERKINS</b> | <b>Jan</b> | <b>Feb</b> | <b>March</b> | <b>April</b> | <b>May</b> | <b>June</b> | <b>July</b> | <b>Aug</b> | <b>Sept</b> | <b>Oct</b> | <b>Nov</b> | <b>Dec</b> |
| HARMONIE RZ                |            | █          | █            | █            | █          | █           | █           | █          |             |            |            |            |
| <b>ASIAN CUCUMBERS</b>     | <b>Jan</b> | <b>Feb</b> | <b>March</b> | <b>April</b> | <b>May</b> | <b>June</b> | <b>July</b> | <b>Aug</b> | <b>Sept</b> | <b>Oct</b> | <b>Nov</b> | <b>Dec</b> |
| GERAKL RZ                  |            | █          | █            | █            | █          | █           | █           | █          |             |            |            |            |
| <b>ROOTSTOCKS</b>          | <b>Jan</b> | <b>Feb</b> | <b>March</b> | <b>April</b> | <b>May</b> | <b>June</b> | <b>July</b> | <b>Aug</b> | <b>Sept</b> | <b>Oct</b> | <b>Nov</b> | <b>Dec</b> |
| AFFYNE RZ                  |            | █          | █            | █            | █          | █           | █           | █          |             |            |            |            |
| AZMAN RZ                   |            |            | █            | █            | █          | █           | █           | █          |             |            |            |            |
| ZADOK RZ                   |            |            | █            | █            | █          | █           | █           | █          |             |            |            |            |

