

## Saison z trawą

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- Gravity **14.7 BLG**
- ABV **6.1 %**
- IBU **21**
- SRM **7.9**
- Style **Saison**

### Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **25.3 liter(s)**

### Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **14.5 liter(s)**
- Total mash volume **19.4 liter(s)**

### Steps

- Temp **63 C**, Time **50 min**
- Temp **72 C**, Time **20 min**

### Mash step by step

- Heat up **14.5 liter(s)** of strike water to **70.2C**
- Add grains
- Keep mash **50 min** at **63C**
- Keep mash **20 min** at **72C**
- Sparge using **15.7 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pilzneński	3.1 kg (63.9%)	95 %	4
Grain	Strzegom Monachijski typ I	0.6 kg (12.4%)	90 %	16
Grain	Strzegom Pszeniczny	0.8 kg (16.5%)	85 %	6
Grain	Carahell	0.15 kg (3.1%)	77 %	26
Grain	Caraamber	0.1 kg (2.1%)	75 %	59
Grain	Caraaroma	0.1 kg (2.1%)	78 %	400

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	15 g	65 min	10 %
Aroma (end of boil)	Saaz (Czech Republic)	25 g	15 min	4.5 %

### Yeasts

Name	Type	Form	Amount	Laboratory
Gozdawa Belgian Fruit Spicy Ale Yeast	Ale	Dry	10 g	Gozdawa

### Extras

Type	Name	Amount	Use for	Time
Spice	curacao	40 g	Boil	10 min
Herb	trawa cytrynowa	20 g	Boil	10 min