

## Porzeczkowe saison

- Gravity **12.4 BLG**
- ABV **5 %**
- IBU **18**
- SRM **3.4**
- Style **Saison**

### Batch size

- Expected quantity of finished beer **21 liter(s)**
- Trub loss **5 %**
- Size with trub loss **22.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **26.5 liter(s)**

### Mash information

- Mash efficiency **85 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **16.1 liter(s)**
- Total mash volume **20.7 liter(s)**

### Steps

- Temp **67 C**, Time **75 min**
- Temp **76 C**, Time **5 min**

### Mash step by step

- Heat up **16.1 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **75 min** at **67C**
- Keep mash **5 min** at **76C**
- Sparge using **15 liter(s)** of **76C** water or to achieve **26.5 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pilzneński	4 kg (87%)	80 %	4
Grain	Płatki orkiszowe	0.4 kg (8.7%)	80 %	4
Grain	Płatki żytnie	0.2 kg (4.3%)	80 %	6

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	15 g	60 min	8.5 %
Boil	Citra	20 g	5 min	12 %

### Yeasts

Name	Type	Form	Amount	Laboratory
Mangrove Jack's M29 French Saison	Ale	Dry	10 g	---

### Extras

Type	Name	Amount	Use for	Time
Fining	mech irlandzki	5 g	Boil	10 min
Flavor	pożeczka czarna	3000 g	Primary	10 day(s)