

## Saison

- Gravity **15 BLG**
- ABV ---
- IBU **22**
- SRM **11**
- Style **Saison**

### Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **70 min**
- Evaporation rate **10 %/h**
- Boil size **25.7 liter(s)**

### Mash information

- Mash efficiency **85 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **14.5 liter(s)**
- Total mash volume **19.4 liter(s)**

### Steps

- Temp **64 C**, Time **60 min**
- Temp **72 C**, Time **20 min**
- Temp **76 C**, Time **1 min**

### Mash step by step

- Heat up **14.5 liter(s)** of strike water to **71.4C**
- Add grains
- Keep mash **60 min** at **64C**
- Keep mash **20 min** at **72C**
- Keep mash **1 min** at **76C**
- Sparge using **16.1 liter(s)** of **76C** water or to achieve **25.7 liter(s)** of wort

### Fermentables

| Type  | Name                       | Amount         | Yield | EBC |
|-------|----------------------------|----------------|-------|-----|
| Grain | Strzegom Pilzneński        | 3.1 kg (63.9%) | 80 %  | 4   |
| Grain | Strzegom Monachijski typ I | 0.6 kg (12.4%) | 79 %  | 16  |
| Grain | Strzegom Pszeniczny        | 0.8 kg (16.5%) | 81 %  | 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 %       |
| Boil    | Saaz (Czech Republic) | 15 g   | 15 min   | 4.5 %      |
| Boil    | Saaz (Czech Republic) | 15 g   | 5 min    | 4.5 %      |
| Dry Hop | Citra                 | 30 g   | 7 day(s) | 12 %       |

### Yeasts

| Name                                  | Type | Form | Amount | Laboratory |
|---------------------------------------|------|------|--------|------------|
| Gozdawa Belgian Fruit Spicy Ale Yeast | Ale  | Dry  | 11 g   | Gozdawa    |

### Extras

| Type   | Name               | Amount | Use for   | Time     |
|--------|--------------------|--------|-----------|----------|
| Flavor | Bitter Orange Peel | 20 g   | Boil      | 10 min   |
| Flavor | Sweet Orange Peel  | 20 g   | Secondary | 7 day(s) |