

## Dark saison

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- Gravity **15.7 BLG**
- ABV ---
- IBU **36**
- SRM **37.6**
- 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 **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **18.6 liter(s)**
- Total mash volume **24.8 liter(s)**

### Steps

- Temp **63 C**, Time **60 min**
- Temp **72 C**, Time **15 min**
- Temp **77 C**, Time **5 min**

### Mash step by step

- Heat up **18.6 liter(s)** of strike water to **70.2C**
- Add grains
- Keep mash **60 min** at **63C**
- Keep mash **15 min** at **72C**
- Keep mash **5 min** at **77C**
- Sparge using **12.9 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

### Fermentables

| Type  | Name                        | Amount        | Yield | EBC  |
|-------|-----------------------------|---------------|-------|------|
| Grain | Strzegom Czekoladowy 1200   | 0.1 kg (1.5%) | 68 %  | 1202 |
| Grain | Weyermann - Acidulated Malt | 0.1 kg (1.5%) | 80 %  | 6    |
| Grain | Pilzneński                  | 3 kg (46.2%)  | 81 %  | 4    |
| Grain | Strzegom Karmel 300         | 0.5 kg (7.7%) | 70 %  | 299  |
| Grain | Pszeniczny Ciemny           | 1 kg (15.4%)  | 70 %  | 16   |
| Grain | Barwiący                    | 0.5 kg (7.7%) | 55 %  | 985  |
| Grain | Strzegom Wiedeński          | 1 kg (15.4%)  | 79 %  | 10   |
| Sugar | cukier                      | 0.3 kg (4.6%) | 80 %  | 1    |

### Hops

| Use for | Name                  | Amount | Time   | Alpha acid |
|---------|-----------------------|--------|--------|------------|
| Boil    | Marynka               | 30 g   | 90 min | 10 %       |
| Boil    | Saaz (Czech Republic) | 20 g   | 15 min | 4.5 %      |
| Boil    | Saaz (Czech Republic) | 10 g   | 0 min  | 4.5 %      |

## Yeasts

| Name    | Type | Form | Amount | Laboratory |
|---------|------|------|--------|------------|
| Bulldog | Ale  | Dry  | 10 g   | Gozdawa    |

## Extras

| Type   | Name              | Amount | Use for | Time   |
|--------|-------------------|--------|---------|--------|
| Flavor | Skórka pomarańczy | 20 g   | Boil    | 10 min |