

# Hafe weizen wytrawny na 24 l z przerwą ferulikową pale ale

- Gravity **12.1 BLG**
- ABV **4.9 %**
- IBU **18**
- SRM **5.1**
- Style **Weizen/Weissbier**

## Batch size

- Expected quantity of finished beer **24 liter(s)**
- Trub loss **5 %**
- Size with trub loss **25.2 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **31.9 liter(s)**

## Mash information

- Mash efficiency **64 %**
- Liquor-to-grist ratio **3.3 liter(s) / kg**
- Mash size **23.1 liter(s)**
- Total mash volume **30.1 liter(s)**

## Steps

- Temp **44 C**, Time **25 min**
- Temp **64 C**, Time **45 min**
- Temp **72 C**, Time **15 min**
- Temp **77 C**, Time **5 min**

## Mash step by step

- Heat up **23.1 liter(s)** of strike water to **47.6C**
- Add grains
- Keep mash **25 min** at **44C**
- Keep mash **45 min** at **64C**
- Keep mash **15 min** at **72C**
- Keep mash **5 min** at **77C**
- Sparge using **15.8 liter(s)** of **76C** water or to achieve **31.9 liter(s)** of wort

## Fermentables

| Type  | Name                | Amount        | Yield | EBC |
|-------|---------------------|---------------|-------|-----|
| Grain | Strzegom Pilzneński | 3 kg (42.9%)  | 80 %  | 4   |
| Grain | Pszeniczny          | 3 kg (42.9%)  | 85 %  | 4   |
| Grain | Melanoiden Malt     | 0.5 kg (7.1%) | 80 %  | 39  |
| Grain | Płatki pszeniczne   | 0.5 kg (7.1%) | 85 %  | 3   |

## Hops

| Use for | Name                  | Amount | Time   | Alpha acid |
|---------|-----------------------|--------|--------|------------|
| Boil    | Saaz (Czech Republic) | 30 g   | 60 min | 4.5 %      |
| Boil    | Saaz (Czech Republic) | 30 g   | 20 min | 3.7 %      |

## Yeasts

| Name                   | Type  | Form  | Amount | Laboratory       |
|------------------------|-------|-------|--------|------------------|
| FM41 Gwoździe i Banany | Wheat | Slant | 300 ml | Fermentum Mobile |