

KAWOWY FES

- Gravity **18 BLG**
- ABV **7.7 %**
- IBU **36**
- SRM **48.5**
- Style **Foreign Extra Stout**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **22 liter(s)**
- Boil time **70 min**
- Evaporation rate **12 %/h**
- Boil size **27.4 liter(s)**

Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **2.5 liter(s) / kg**
- Mash size **20 liter(s)**
- Total mash volume **28 liter(s)**

Steps

- Temp **66 C**, Time **50 min**
- Temp **72 C**, Time **20 min**
- Temp **76 C**, Time **1 min**

Mash step by step

- Heat up **20 liter(s)** of strike water to **75.2C**
- Add grains
- Keep mash **50 min** at **66C**
- Keep mash **20 min** at **72C**
- Keep mash **1 min** at **76C**
- Sparge using **15.4 liter(s)** of **76C** water or to achieve **27.4 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|----------------------------------|---------------|-------|------|
| Grain | Weyermann - Pale Ale Malt | 5 kg (62.5%) | 85 % | 7 |
| Grain | Płatki owsiane | 1 kg (12.5%) | 85 % | 3 |
| Grain | Weyermann Specjal W | 0.5 kg (6.3%) | 68 % | 300 |
| Grain | Weyermann - Melanoiden Malt | 0.5 kg (6.3%) | 81 % | 53 |
| Grain | Fawcett - Pszeniczny Czekoladowy | 0.4 kg (5%) | 73 % | 1001 |
| Grain | Jęczmień palony | 0.3 kg (3.8%) | 55 % | 985 |
| Grain | Weyermann - Carafa III | 0.3 kg (3.8%) | 70 % | 1024 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|---------|--------|--------|------------|
| Boil | Galaxy | 15 g | 60 min | 13.6 % |
| Boil | Chinook | 20 g | 60 min | 11 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|-----------------------------|------|-------|--------|------------------|
| FM54 Gorączka kalifornijska | Ale | Slant | 150 ml | Fermentum Mobile |

Extras

| Type | Name | Amount | Use for | Time |
|--------|---------------|--------|-----------|-----------|
| Flavor | kawa | 100 g | Secondary | 6 day(s) |
| Flavor | płatki dębowe | 65 g | Secondary | 21 day(s) |

Notes

- płatki 3g na litr na ok 3 tygodnie
kawa 5g na litr na ok tydzień
Jan 18, 2020, 12:57 AM