

malinowe

- Gravity **18.7 BLG**
- ABV **8.1 %**
- IBU **23**
- SRM **7.1**
- Style **Flanders Red Ale**

Batch size

- Expected quantity of finished beer **21 liter(s)**
- Trub loss **5 %**
- Size with trub loss **22.1 liter(s)**
- Boil time **45 min**
- Evaporation rate **10 %/h**
- Boil size **25.9 liter(s)**

Mash information

- Mash efficiency **85 %**
- Liquor-to-grist ratio **3.1 liter(s) / kg**
- Mash size **22.3 liter(s)**
- Total mash volume **29.5 liter(s)**

Steps

- Temp **51 C**, Time **20 min**
- Temp **62 C**, Time **30 min**
- Temp **72 C**, Time **20 min**
- Temp **78 C**, Time **10 min**

Mash step by step

- Heat up **22.3 liter(s)** of strike water to **56C**
- Add grains
- Keep mash **20 min** at **51C**
- Keep mash **30 min** at **62C**
- Keep mash **20 min** at **72C**
- Keep mash **10 min** at **78C**
- Sparge using **10.8 liter(s)** of **76C** water or to achieve **25.9 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|---------------------|---------------|-------|-----|
| Grain | Strzegom Pale Ale | 3 kg (41.7%) | 79 % | 6 |
| Grain | Strzegom Pilzneński | 3 kg (41.7%) | 80 % | 4 |
| Grain | Strzegom Pszeniczny | 0.5 kg (6.9%) | 81 % | 6 |
| Grain | Strzegom Karmel 150 | 0.2 kg (2.8%) | 75 % | 150 |
| Grain | Płatki owsiane | 0.5 kg (6.9%) | 60 % | 3 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|---------|--------|--------|------------|
| Boil | Polaris | 15 g | 45 min | 19.8 % |
| Aroma (end of boil) | Polaris | 20 g | 0 min | 19.8 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|--------------------|------|------|--------|------------|
| Mauribrew Ale Y514 | Ale | Dry | 12 g | Mauribrew |

| | | | | |
|--|-----|--------|---------|------------|
| WLP645 - Brettanomyces clausenii | Ale | Liquid | 1000 ml | White Labs |
|--|-----|--------|---------|------------|

Extras

| Type | Name | Amount | Use for | Time |
|-------|--|--------|-----------|-----------|
| Other | Płatki dębowe (macerowane w Jim Beam White)) | 40 g | Secondary | 10 day(s) |