

apa

- Gravity **11.9 BLG**
- ABV ---
- IBU **36**
- SRM **4.3**
- Style **American Pale Ale**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **22 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **26.4 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **14.5 liter(s)**
- Total mash volume **19.4 liter(s)**

Steps

- Temp **68 C**, Time **60 min**

Mash step by step

- Heat up **14.5 liter(s)** of strike water to **76C**
- Add grains
- Keep mash **60 min** at **68C**
- Sparge using **16.8 liter(s)** of **76C** water or to achieve **26.4 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|---------------------|-----------------|-------|-----|
| Grain | Pszeniczny | 1.45 kg (29.9%) | 85 % | 4 |
| Grain | Strzegom Pale Ale | 0.6 kg (12.4%) | 79 % | 6 |
| Grain | Strzegom Karmel 30 | 0.3 kg (6.2%) | 75 % | 30 |
| Grain | Strzegom Pilzneński | 2.5 kg (51.5%) | 80 % | 4 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|-----------|---------------|--------|----------|------------|
| Boil | Warrior | 11 g | 60 min | 17 % |
| Boil | Citra | 10 g | 25 min | 13.5 % |
| Boil | Centennial | 15 g | 10 min | 9.4 % |
| Boil | Citra | 15 g | 0 min | 13.5 % |
| Whirlpool | Pacifica (NZ) | 15 g | 30 min | 4.8 % |
| Whirlpool | Centennial | 15 g | 30 min | 9.4 % |
| Whirlpool | Citra | 15 g | 30 min | 13.5 % |
| Dry Hop | Citra | 25 g | 6 day(s) | 13.5 % |
| Dry Hop | Centennial | 20 g | 6 day(s) | 9.4 % |
| Dry Hop | Simcoe | 15 g | 6 day(s) | 13.2 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|--------------|------|-------|--------|------------|
| Safale US-05 | Ale | Slant | 300 ml | Fermentis |

Notes

- 12 blg tydzień burzliwa, tydzień cicha
Apr 23, 2017, 6:46 PM