

wściekły psy

- Gravity **14.5 BLG**
- ABV **6 %**
- IBU **68**
- SRM **4.7**
- Style **American IPA**

Batch size

- Expected quantity of finished beer **25 liter(s)**
- Trub loss **5 %**
- Size with trub loss **26.3 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **31.7 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **21 liter(s)**
- Total mash volume **28 liter(s)**

Steps

- Temp **62 C**, Time **30 min**
- Temp **68 C**, Time **30 min**
- Temp **72 C**, Time **5 min**

Mash step by step

- Heat up **21 liter(s)** of strike water to **69C**
- Add grains
- Keep mash **30 min** at **62C**
- Keep mash **30 min** at **68C**
- Keep mash **5 min** at **72C**
- Sparge using **17.7 liter(s)** of **76C** water or to achieve **31.7 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|-------------------|---------------|-------|-----|
| Grain | Strzegom Pale Ale | 5 kg (69.4%) | 79 % | 6 |
| Sugar | cukier | 0.2 kg (2.8%) | 100 % | --- |
| Grain | Pilzneński | 2 kg (27.8%) | 81 % | 4 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|------------------------|--------|--------|------------|
| Boil | Columbus/Tomahawk/Zeus | 25 g | 45 min | 12.5 % |
| Boil | NELSON SAUVIN | 20 g | 30 min | 11.1 % |
| Boil | Pacifica (NZ) | 8 g | 15 min | 5.5 % |
| Boil | Cascade | 11 g | 15 min | 5.2 % |
| Boil | Citra | 8 g | 15 min | 13.5 % |
| Boil | Magnum | 5 g | 45 min | 11.5 % |
| Boil | Simcoe | 16 g | 30 min | 11.4 % |
| Boil | Ahtanum | 15 g | 15 min | 3.4 % |
| Boil | Nelson Sauvín | 10 g | 15 min | 11.1 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|--------------|-------------|-------------|---------------|-------------------|
| Safale US-05 | Ale | Dry | 20 g | Fermentis |