

Weselne

- Gravity **11 BLG**
- ABV **4.4 %**
- IBU **33**
- SRM **4.3**
- Style **American Pale Ale**

Batch size

- Expected quantity of finished beer **26.5 liter(s)**
- Trub loss **5 %**
- Size with trub loss **29.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **35 liter(s)**

Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **22.8 liter(s)**
- Total mash volume **29.3 liter(s)**

Steps

- Temp **68 C**, Time **45 min**
- Temp **72 C**, Time **15 min**
- Temp **75 C**, Time **5 min**

Mash step by step

- Heat up **22.8 liter(s)** of strike water to **74.8C**
- Add grains
- Keep mash **45 min** at **68C**
- Keep mash **15 min** at **72C**
- Keep mash **5 min** at **75C**
- Sparge using **18.7 liter(s)** of **76C** water or to achieve **35 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|----------------------|---------------|-------|-----|
| Grain | Strzegom Pale Ale | 5 kg (76.9%) | --- % | 6 |
| Grain | Strzegom pszeniczny | 1 kg (15.4%) | --- % | 6 |
| Grain | Weyermann - Carapils | 0.5 kg (7.7%) | --- % | 4 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|------------|--------|----------|------------|
| Boil | Galaxy | 10 g | 40 min | 13.3 % |
| Boil | Galaxy | 10 g | 20 min | 13.3 % |
| Boil | Galaxy | 13 g | 15 min | 13.3 % |
| Boil | Rakau (NZ) | 13 g | 10 min | 9.5 % |
| Boil | Rakau (NZ) | 10 g | 5 min | 9.5 % |
| Boil | Rakau (NZ) | 10 g | 8 min | 9.5 % |
| Boil | Rakau (NZ) | 10 g | 3 min | 9.5 % |
| Boil | Galaxy | 10 g | 1 min | 13.3 % |
| Dry Hop | Rakau (NZ) | 47 g | 4 day(s) | 9.5 % |
| Dry Hop | Galaxy | 47 g | 4 day(s) | 13.3 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|--------------|------|------|--------|------------|
| Safale US-05 | Ale | Dry | 10.5 g | Fermentis |

Extras

| Type | Name | Amount | Use for | Time |
|--------|-----------------|--------|---------|--------|
| Fining | Mech irlandzki | 10 g | Boil | 15 min |
| Spice | Trawa cytrynowa | 30 g | Boil | 5 min |
| Spice | Curacao | 30 g | Boil | 10 min |