

Simcoe & Centennial

- Gravity **15.7 BLG**
- ABV **6.6 %**
- IBU **35**
- SRM **4.6**
- Style **American IPA**

Batch size

- Expected quantity of finished beer **20.5 liter(s)**
- Trub loss **5 %**
- Size with trub loss **22.6 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **27.1 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **23.1 liter(s)**
- Total mash volume **29.7 liter(s)**

Steps

- Temp **68 C**, Time **60 min**
- Temp **72 C**, Time **15 min**

Mash step by step

- Heat up **23.1 liter(s)** of strike water to **74.9C**
- Add grains
- Keep mash **60 min** at **68C**
- Keep mash **15 min** at **72C**
- Sparge using **10.6 liter(s)** of **76C** water or to achieve **27.1 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|----------------------|----------------|-------|-----|
| Grain | Viking Pale Ale malt | 5 kg (75.8%) | 80 % | 5 |
| Grain | Płatki owsiane | 1.2 kg (18.2%) | 85 % | 3 |
| Grain | Pszeniczny | 0.4 kg (6.1%) | 85 % | 4 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|-----------|------------------------|--------|----------|------------|
| Boil | Columbus/Tomahawk/Zeus | 25 g | 60 min | 15.5 % |
| Whirlpool | Centennial | 40 g | 0 min | 8.5 % |
| Whirlpool | Simcoe | 40 g | 0 min | 11.5 % |
| Dry Hop | Centennial | 25 g | 4 day(s) | 10.5 % |
| Dry Hop | Simcoe | 25 g | 4 day(s) | 10.5 % |
| Dry Hop | Centennial | 35 g | 2 day(s) | 10.5 % |
| Dry Hop | Simcoe | 35 g | 2 day(s) | 13.2 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|----------------------------|------|--------|--------|------------------|
| FM10 O czym szumią wierzby | Ale | Liquid | 120 ml | Fermentum Mobile |

Extras

| Type | Name | Amount | Use for | Time |
|-------------|-------------------|--------|----------|--------|
| Water Agent | sól | 6 g | Boil | 10 min |
| Water Agent | kwask mlekowy | 10 g | Mash | 1 min |
| Water Agent | kwask askorbinowy | 4 g | Bottling | --- |