

American Wheat

- Gravity **12.9 BLG**
- ABV **5.2 %**
- IBU **32**
- SRM **3.6**
- Style **American Wheat or Rye Beer**

Batch size

- Expected quantity of finished beer **23 liter(s)**
- Trub loss **5 %**
- Size with trub loss **24.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **9.5 %/h**
- Boil size **28.8 liter(s)**

Mash information

- Mash efficiency **87 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **15 liter(s)**
- Total mash volume **20 liter(s)**

Steps

- Temp **63 C**, Time **40 min**
- Temp **72 C**, Time **20 min**
- Temp **78 C**, Time **10 min**

Mash step by step

- Heat up **15 liter(s)** of strike water to **70.2C**
- Add grains
- Keep mash **40 min** at **63C**
- Keep mash **20 min** at **72C**
- Keep mash **10 min** at **78C**
- Sparge using **18.8 liter(s)** of **76C** water or to achieve **28.8 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|---------------------|------------|-------|-----|
| Grain | Strzegom Pilzneński | 2 kg (40%) | 80 % | 4 |
| Grain | Strzegom Pszeniczny | 2 kg (40%) | 81 % | 6 |
| Grain | Płatki pszeniczne | 1 kg (20%) | 85 % | 3 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|-----------|--------|--------|----------|------------|
| Boil | Citra | 10 g | 60 min | 13.3 % |
| Boil | Mosaic | 25 g | 10 min | 11.8 % |
| Boil | Citra | 15 g | 5 min | 13.3 % |
| Whirlpool | mosaic | 10 g | 15 min | 11.8 % |
| Whirlpool | citra | 10 g | 15 min | 13.3 % |
| Dry Hop | Mosaic | 15 g | 3 day(s) | 11.8 % |
| Dry Hop | Citra | 15 g | 3 day(s) | 13.3 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|-----------------------------------|------|------|--------|-----------------|
| Mangrove Jack's M44 US West Coast | Ale | Dry | 11 g | Mangrove Jack's |

Extras

| Type | Name | Amount | Use for | Time |
|-------------|----------------|--------|---------|--------|
| Water Agent | gips | 3.8 g | Mash | 60 min |
| Water Agent | chlorek wapnia | 0.8 g | Mash | 60 min |
| Water Agent | sól epsom | 1.5 g | Mash | 60 min |