

# Stratus Undulatus

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- Gravity **17.1 BLG**
- ABV **7.3 %**
- IBU **31**
- SRM **5.1**
- Style **American IPA**

## Batch size

- Expected quantity of finished beer **21 liter(s)**
- Trub loss **5 %**
- Size with trub loss **22.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **26.5 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **22.5 liter(s)**
- Total mash volume **30 liter(s)**

## Steps

- Temp **68 C**, Time **60 min**
- Temp **78 C**, Time **10 min**

## Mash step by step

- Heat up **22.5 liter(s)** of strike water to **76C**
- Add grains
- Keep mash **60 min** at **68C**
- Keep mash **10 min** at **78C**
- Sparge using **11.5 liter(s)** of **76C** water or to achieve **26.5 liter(s)** of wort

## Fermentables

| Type  | Name                 | Amount        | Yield | EBC |
|-------|----------------------|---------------|-------|-----|
| Grain | Viking Pale Ale malt | 6 kg (80%)    | 80 %  | 5   |
| Grain | Strzegom Pilzneński  | 0.5 kg (6.7%) | 80 %  | 4   |
| Grain | Płatki owsiane       | 1 kg (13.3%)  | 60 %  | 3   |

## Hops

| Use for   | Name     | Amount | Time     | Alpha acid |
|-----------|----------|--------|----------|------------|
| Boil      | Magnum   | 10 g   | 60 min   | 13.5 %     |
| Whirlpool | Amarillo | 20 g   | 30 min   | 9.5 %      |
| Whirlpool | Citra    | 20 g   | 30 min   | 12 %       |
| Whirlpool | Strata   | 10 g   | 30 min   | 13.6 %     |
| Dry Hop   | Amarillo | 80 g   | 3 day(s) | 9.5 %      |
| Dry Hop   | Citra    | 80 g   | 3 day(s) | 12 %       |
| Dry Hop   | Strata   | 40 g   | 3 day(s) | 13.6 %     |

## Yeasts

| Name         | Type | Form | Amount | Laboratory |
|--------------|------|------|--------|------------|
| Safale US-05 | Ale  | Dry  | 12.5 g | Fermentis  |

## Extras

| Type   | Name           | Amount | Use for  | Time   |
|--------|----------------|--------|----------|--------|
| Fining | Mech irlandzki | 5 g    | Boil     | 10 min |
| Other  | Witamina C     | 4 g    | Bottling | ---    |