

## #31 10,5

- Gravity **10 BLG**
- ABV ---
- IBU **27**
- SRM **3.8**
- Style **American Wheat or Rye Beer**

### Batch size

- Expected quantity of finished beer **25 liter(s)**
- Trub loss **5 %**
- Size with trub loss **26.3 liter(s)**
- Boil time **70 min**
- Evaporation rate **10 %/h**
- Boil size **30.7 liter(s)**

### Mash information

- Mash efficiency **83 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **11.9 liter(s)**
- Total mash volume **15.8 liter(s)**

### Steps

- Temp **67 C**, Time **60 min**
- Temp **78 C**, Time **10 min**

### Mash step by step

- Heat up **11.9 liter(s)** of strike water to **74.8C**
- Add grains
- Keep mash **60 min** at **67C**
- Keep mash **10 min** at **78C**
- Sparge using **22.8 liter(s)** of **76C** water or to achieve **30.7 liter(s)** of wort

### Fermentables

| Type  | Name                | Amount         | Yield | EBC |
|-------|---------------------|----------------|-------|-----|
| Grain | Pszeniczny          | 1.7 kg (43%)   | 85 %  | 4   |
| Grain | Pilzneński          | 2 kg (50.6%)   | 81 %  | 4   |
| Grain | Weyermann - Carared | 0.1 kg (2.5%)  | 75 %  | 45  |
| Grain | Zakwaszający        | 0.15 kg (3.8%) | 80 %  | 6   |

### Hops

| Use for             | Name              | Amount | Time      | Alpha acid |
|---------------------|-------------------|--------|-----------|------------|
| Boil                | Pilgrim           | 15 g   | 70 min    | 10 %       |
| Aroma (end of boil) | Mandarina Bavaria | 20 g   | 20 min    | 7.9 %      |
| Whirlpool           | Mandarina Bavaria | 30 g   | 0 min     | 7.9 %      |
| Dry Hop             | Citra             | 43 g   | 14 day(s) | 13.5 %     |
| Dry Hop             | Simcoe            | 30 g   | 14 day(s) | 13.2 %     |

### Yeasts

| Name             | Type  | Form  | Amount | Laboratory |
|------------------|-------|-------|--------|------------|
| Fruit blanche g1 | Wheat | Slant | 200 ml | ---        |

### Extras

| Type  | Name              | Amount | Use for | Time   |
|-------|-------------------|--------|---------|--------|
| Spice | Kolendra          | 1 g    | Boil    | 10 min |
| Spice | Skórka pomarańczy | 20 g   | Boil    | 0 min  |
| Spice | Trawa cytrynowa   | 4 g    | Boil    | 0 min  |