

## Extra ciemny gorycz i Cascade

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- Gravity **13.8 BLG**
- ABV **5.7 %**
- IBU **28**
- SRM **72.5**

### Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **25.3 liter(s)**

### Fermentables

| Type           | Name                            | Amount         | Yield  | EBC |
|----------------|---------------------------------|----------------|--------|-----|
| Liquid Extract | ekstrakt słodowy ciemny Bruntal | 3.4 kg (91.9%) | 90 %   | 621 |
| Sugar          | Milk Sugar (Lactose)            | 0.3 kg (8.1%)  | 76.1 % | 0   |

### Hops

| Use for             | Name                  | Amount | Time   | Alpha acid |
|---------------------|-----------------------|--------|--------|------------|
| Boil                | Saaz (Czech Republic) | 25 g   | 60 min | 3.5 %      |
| Boil                | Cascade PL            | 20 g   | 60 min | 5.8 %      |
| Aroma (end of boil) | Cascade PL            | 60 g   | 5 min  | 5.2 %      |

### Yeasts

| Name                                  | Type | Form | Amount | Laboratory |
|---------------------------------------|------|------|--------|------------|
| Bulldog b1                            | Ale  | Dry  | 10 g   | ---        |
| Gozdawa Belgian Fruit Spicy Ale Yeast | Ale  | Dry  | 10 g   | Gozdawa    |