

## Apa

- Gravity **12.4 BLG**
- ABV **5 %**
- IBU **58**
- SRM **4.2**
- Style **American Pale Ale**

### 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)**

### Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **15 liter(s)**
- Total mash volume **20 liter(s)**

### Fermentables

| Type  | Name                      | Amount       | Yield  | EBC |
|-------|---------------------------|--------------|--------|-----|
| Grain | BESTMALZ - Best Pilsen    | 1 kg (20%)   | 80.5 % | 4   |
| Grain | BESTMALZ - Bestt Pale Ale | 3 kg (60%)   | 80.5 % | 6   |
| Grain | Słód pszeniczny Bestmalz  | 0.5 kg (10%) | 82 %   | 5   |
| Grain | Płatki owsiane            | 0.5 kg (10%) | 60 %   | 3   |

### Hops

| Use for             | Name               | Amount | Time   | Alpha acid |
|---------------------|--------------------|--------|--------|------------|
| Boil                | Cascade            | 20 g   | 30 min | 7 %        |
| Boil                | East Kent Goldings | 20 g   | 30 min | 4.7 %      |
| Boil                | Crystal            | 20 g   | 15 min | 4.5 %      |
| Boil                | Cascade            | 30 g   | 15 min | 7 %        |
| Boil                | Crystal            | 20 g   | 10 min | 4.5 %      |
| Boil                | Cascade            | 20 g   | 10 min | 7 %        |
| Aroma (end of boil) | Cascade            | 20 g   | 15 min | 7 %        |
| Aroma (end of boil) | Crystal            | 20 g   | 15 min | 4.5 %      |