

#19 PILS

- Gravity **14 BLG**
- ABV **5.8 %**
- IBU **31**
- SRM **3**
- Style **Black IPA**

Batch size

- Expected quantity of finished beer **23 liter(s)**
- Trub loss **0 %**
- Size with trub loss **23 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **27.8 liter(s)**

Mash information

- Mash efficiency **93.5 %**
- 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 | Słodownia Strzegom - pilzneński | 5 kg (100%) | 80 % | 3 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|-----------------------|--------|--------|------------|
| Boil | Saaz (Czech Republic) | 25 g | 30 min | 4.5 % |
| Boil | Saaz (Czech Republic) | 25 g | 5 min | 4.5 % |
| Boil | Saaz (Czech Republic) | 50 g | 60 min | 4.5 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|------------------------|-------|--------|---------|------------------|
| FM31 - Bawarska dolina | Lager | Liquid | 1000 ml | Fermentum Mobile |