

Golden Sunrise

- Gravity **12.4 BLG**
- ABV **5 %**
- IBU **30**
- SRM **3.3**
- Style **American Pale Ale**

Batch size

- Expected quantity of finished beer **25 liter(s)**
- Trub loss **5 %**
- Size with trub loss **26.3 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **31.7 liter(s)**

Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **13.1 liter(s)**
- Total mash volume **16.8 liter(s)**

Fermentables

| Type | Name | Amount | Yield | EBC |
|---------|----------------------|----------------|-------|-----|
| Grain | Pilznieński | 3.4 kg (64.9%) | 81 % | 4 |
| Grain | Weyermann - Carapils | 0.34 kg (6.5%) | 78 % | 4 |
| Adjunct | Płatki ryżowe | 1.5 kg (28.6%) | 80 % | 4 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|-------------|--------|--------|------------|
| Boil | Zythos | 8 g | 60 min | 11 % |
| Boil | Rakau (NZ) | 25 g | 15 min | 9.5 % |
| Boil | Zythos | 22 g | 10 min | 11 % |
| Boil | Sorachi Ace | 25 g | 5 min | 10 % |