sapa:

By Hydro

EPD

ENVIRONMENTAL PRODUCT DECLARATION

Hydro

ALUMINIUM BAS CARBONE

certifié inf. 4.0

L'approvisionnement aluminium bâtiment 6060 des gammes SAPA est composé de profilés Hydro Bas Carbone (REDUXA 4.0), sur les gammes suivantes :

- Fenêtres, Portes et coulissants Performance 70 (se référer aux références ci-après)
- Pergola, Portail, Garde-corps et Brise soleil

Cet aluminium garantit une empreinte carbone à 4,0 Kg de CO_2 e/Kg d'aluminium, vérifié par une DNV et certifié par un EPD (Environmental Product Declaration)

sapa:

By Hydro

Hydro
ALUMINIUM
BAS CARBONE
certifié inf. 4.0

Références des Profilés Performance 70 en aluminium bas carbone, certifié inf. 4.0

REF	Désignation	Série
SP21268	Traverse épaulée 26-28mm	P70CL
SP21270	Montant lateral renforce 26-28	P70CL
SP21271	Montant lateral renforce 26-28	P70CL
SP21275	Montant central 26-28mm	P70CL
SP21276	Montant central renf.26-28mm	P70CL
SP22052	Dormant 2 rails BTC+recup.eau	P70CL
SP22054	Dormant 2 rails BTC	P70CL
SP22064	Dormant 3 rails BTC	P70CL
SGC0317	Parclose 17.5 mm	P70EC
SGC0322	Parclose 22.5 mm	P70EC
SGC0327	Parclose 27.5 mm	P70EC

REF	Désignation	Série
SF7K203	Dormant ht 70mm	P70FP
SF7K271	Dormant 70mm 2gat	P70FP
SF7T001	Traverse 72mm	P70FP
SF7T003	Traverse 92mm	P70FP
SP22140	Ouvrant arrondi 67mm	P70FP
SP22143	Ouvrant droit 67mm	P70FP
SP24800	Dormant 70mm btc porte GTI	P70GT
SP24806	Ouvrant Z 70mm porte GTI	P70GT
SP24808	Ouvrant T 70mm porte GTI	P70GT
SP24845	Profil dormant 2gat 52mm	P70GT
SP28319	Dormant drainage visible 2gat	P70OC+
SP28352	Ouvrant droit 28mm	P70OC+

CERTIFIED BY DNV·GL

DNV·GL

VERIFICATION STATEMENT

Statement no:	Valid from:	Valid to:
250233-2017-OTH-NOR	21.11.2017	01.02.2018

Hydro Aluminium ASA

DNV GL Business Assurance AS (DNV GL) was commissioned by Hydro Aluminium ASA (Hydro) to provide a reasonable assurance third-party verification of the claim made under Hydro's 4.0 product line. The 4.0 product line claims that less than 4 ton CO_2 has been emitted per ton produced aluminium from Hydro smelters in Norway under the 4.0 specified production.

The verification was conducted under the requirements of ISO 14064-1 and the Greenhouse Gas Protocol of the WBCSD/WRI.

Within this verification, Hydro include emission from bauxite, alumina, smelters, casting and associated seaborne transport, considering direct and indirect GHG emissions as well as estimated emissions caused by other legal entities, so-called scope 3 emissions. In DNV GL's view, there are no material omissions of GHG emission sources in Hydro's defined organizational and operational boundary.

DNV GL has conducted a pre-verification of the Karmøy smelter in Norway in the period from June to November 2017 with the following approach:

- Document Review
- Interviews with key personnel
- Review of calculation methods including application of emission factors
- Routines for gathering, aggregation and consolidation of activity data used in the calculations; and
- Organizational and operational boundaries

In our opinion, the pre-verification of the Karmøy facility confirms attained carbon footprint levels claimed under Hydro's 4.0 product line. We have no reason to believe that Hydro will not succeed in securing a final verification of Karmøy or other smelters in Norway based on the requirements of the ISO 14064-1 and the GHG Protocol in light of the claim made under the 4.0. product line.

Place and date: Høvik, January 01, 2018

DNV GL Business Assurance Norway AS

Thomas Haug
Lead Auditor

Rafi-ud-Din Khawaja
Lead auditor, Technical Reviewer

DNV GL Business Assurance (Norway) AS, Veritasveien 1, 1322 Høvik, Norway. Tel: +47 67 57 99 00. assurance.dnvgl.com

epd®

epd-norge.no
The Norwegian EPD Foundation

ENVIRONMENTAL PRODUCT DECLARATION

In accordance with ISO 14025, ISO 21930 and EN 15804

Owner of the declaration:	Hydro Aluminium AS
Program operator:	The Norwegian EPD Foundation
Publisher:	The Norwegian EPD Foundation
Declaration number:	NEPD-1840-468-EN
Registration number:	NEPD-1840-768-EN
ECO Platform reference number:	-
Issue date:	05.06.2019
Valid to:	05.06.2024

Hydro 4.0 Aluminium Extrusion Ingot

Hydro Aluminium AS

Hydro

www.epd-norge.no